Student Course Catalog#

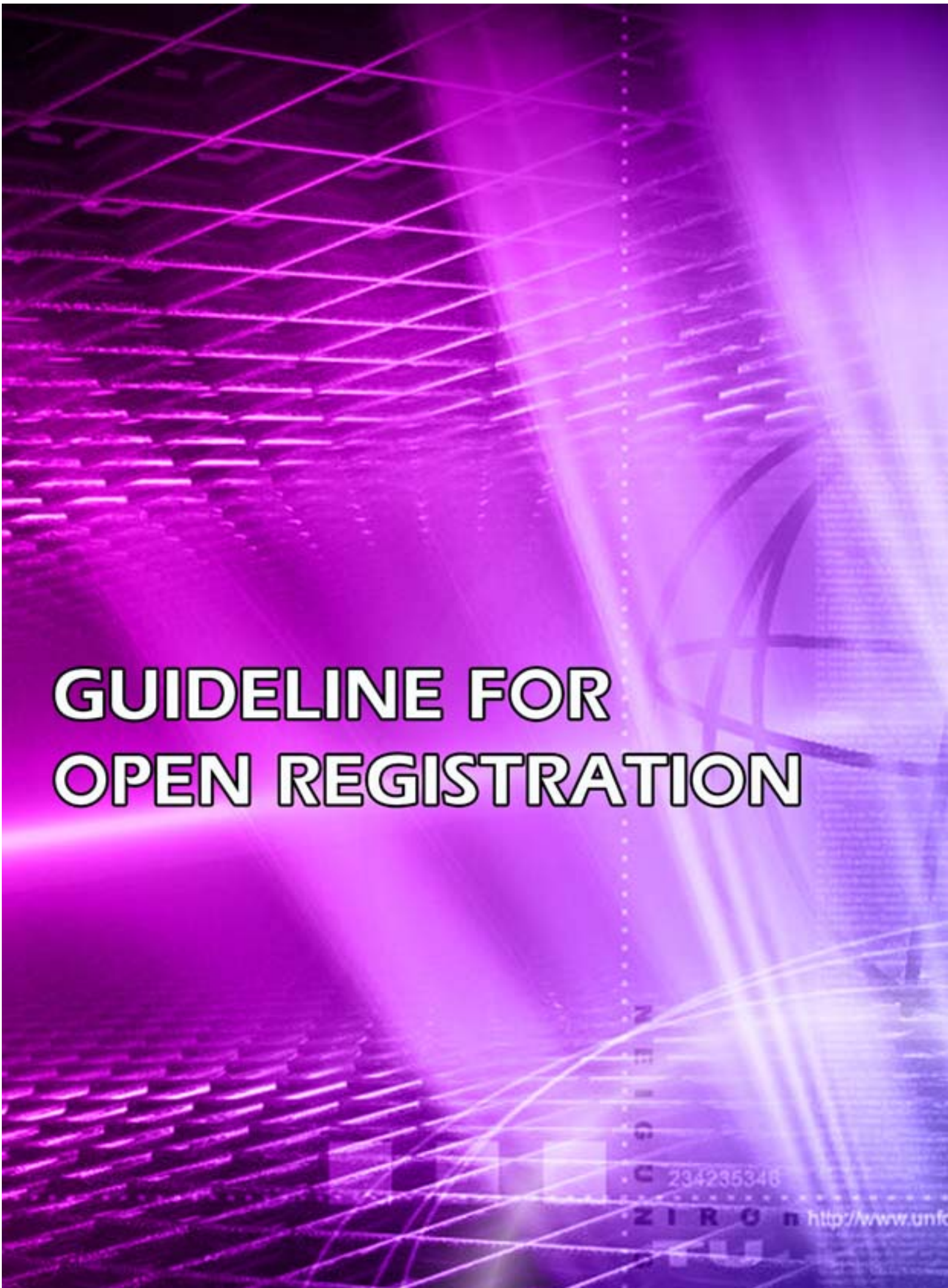
Center For Academic Innovation &
Competitiveness (CAIC)
Universiti Malaysia Pahang

COURSE CATALOG FOR

1ST SEMESTER 2018/2019

The offering of this course is subject to the discretion of the faculty

CONTENTS


GUIDELINE FOR
OPEN REGISTRATION

CONTENTS

1.0 What is an Open Registration System (OR System)?

Open Registration System is a system that allows students to register their academic courses (some of us call them "subjects") based on their own **Study Plan**. This is possible since almost all courses are offered every semester. OR System is different from the "Program-based Registration System" in which the student study plans are pre-determined by the faculty based on the **Program Course Structure**. The current program-based system is a fixed menu system while the OR system is a flexible menu system.

2.0 What is a Program Course Structure?

A Program Course Structure is a list of courses that lead to a particular program award for a particular student intake. In general, a program course structure consists of four course categories: (1) university courses, (2) faculty courses, (3) program core courses and (4) program core elective courses. An example of a Program Course Structure for Bachelor of Chemical Engineering is shown below.

University Core Courses

Subject Code	Subject Description	Year
BKU1013	ENGINEERING MATHEMATICS 1	1
UQB1011	BRIGED SISWA (KOKURIKULUM I)	1
UHR1012	ISLAMIC AND ASIAN CIVILISATIONS 1	1
UHL2312	TECHNICAL ENGLISH	1
UHM1012	MALAYSIAN STUDIES	1
BKU1023	ENGINEERING MATHEMATICS II	1
UHL2322	TECHNICAL WRITING	1
UQ*2**1	CO-CURRICULUM ELECTIVE 1	2
UQ*2**1	CO-CURRICULUM ELECTIVE 2	2
UHR2012	ISLAMIC INSTITUTIONS	2
UHL2332	ACADEMIC REPORT WRITING	2
UHS1011	SOFT SKILLS I	2
UHM2022	ETHNIC RELATIONS	2
UHF1**1	FOREIGN LANGUAGE ELECTIVE LEVEL 1	3
UGE2002	TECHNOPRENEURSHIP	3
UHL4**2	ENGLISH ELECTIVE	3
UHS2011	SOFT SKILLS II	3
UHF2**1	FOREIGN LANGUAGE ELECTIVE LEVEL 2	4

Faculty Core Courses

Subject Code	Subject Description	Year
BKF1233	APPLIED PHYSICS	1
BKF1112	ENGINEER & SOCIETY	1
BKF1223	APPLIED ORGANIC CHEMISTRY	1
BKF1213	APPLIED PHYSICAL CHEMISTRY	1
BKF1711	CHEMISTRY LAB 1	1
BKF1313	ENGINEERING MECHANICS	1
BKF1333	THERMODYNAMICS	1
BKF1243	ANALYTICAL CHEMISTRY	1
BKF1322	ELECTRICAL TECHNOLOGY	1
BKF2731	BASIC ENGINEERING LAB	2
BKF2413	CHEMICAL ENGINEERING THERMODYNAMICS	2
BKF2343	MATERIAL & ENERGY BALANCE	2
BKF2721	CHEMISTRY LAB II	2
BKF2353	FLUID MECHANICS	2
BKF2422	HEAT TRANSFER	2
BKF2443	NUMERICAL METHODS & OPTIMIZATION	2
BKF3522	ENGINEERING GRAPHICS	2
BKF2432	MASS TRANSFER	2
BKF2453	CHEMICAL REACTION ENGINEERING I	2
BKF2741	CHEMICAL ENGINEERING LAB I	2
BKF3472	CHEMICAL REACTION ENGINEERING II	3
BKF3751	CHEMICAL ENGINEERING LAB II	3
BKF3463	UNIT OPERATION I	3
BKF4791	PROCESS CONTROL & INSTRUMENTATION LAB	3
BKU4133	PROJECT MANAGEMENT & ECONOMICS	3
BKF3483	PROCESS CONTROL & INSTRUMENTATION	3
BKF3781	CHEMICAL ENGINEERING LAB III	4
BKF4916	INDUSTRIAL TRAINING	4

Program Core Courses

Subject Code	Subject Description	Year
BKC3363	SCIENCE & ENGINEERING MATERIALS	3
BKC3492	UNIT OPERATION 2	3
BKC3761	CHEMICAL PLANT UTILITIES LAB	3
BKC3922	UNDERGRADUATE RESEARCH PROJECT I	3
BKC3533	OSH IN CHEMICAL INDUSTRIES	3
BKC3543	ENVIRONMENTAL ENGINEERING	4
BKC3912	PROCESS & PLANT DESIGN I	4
BKC4944	UNDERGRADUATE RESEARCH PROJECT II	4
BKC3771	ENVIRONMENTAL ENGINEERING LAB	4
BKC4934	PROCESS & PLANT DESIGN II	4

Program Core Elective Courses

Subject Code	Subject Description	Year
BKC3**2	PROGRAM CORE ELECTIVE 1	4
BKC 3**2	PROGRAM CORE ELECTIVE 2	4

Students must be aware that some of the courses are pre-requisite to other advanced courses. For example, the students must pass the UHL2312 TECHNICAL ENGLISH before registering UHL2322 TECHNICAL WRITING. Refer to faculty for the exact pre-requisite requirements.

3.0 What is a Study Plan?

A Study Plan is a sequence of courses taken every semester towards graduation. Every semester, the students shall register at least 16 credits to ensure graduation. According to the UMP Academic Regulation, students can register up to 19 credit hours per semester. For a full-time students, minimum of 12 credit hours are required.

Examples of two Study Plans for Bachelor of Mechatronics Engineering are shown on the next page.

STUDY PLAN 01			STUDY PLAN 02		
SEMESTER 1			**SEMESTER 1**		
UHL2312	Technical English	2	UHL2312	Technical English	2
UHR1012	Islamic and Asian Civilisations	2	UHR1012	Islamic and Asian Civilisations	2
UQB1**1	Co-Curriculum 1	1	UQB1**1	Co-Curriculum 1	1
BUM2123	Applied Calculus	3	BUM2133	Ordinary Differential Equation	3
BFM1102	Statics	2	BFM1102	Statics	2
BFM1113	Engineering Materials	3	BFM1303	Electrical/Electronics Engineering	3
BFM1602	Technical Drawing	2	BFM1602	Technical Drawing	2
BFM1801	Machining 1	1	BFM1811	Machining 2	1
	Total Credit	16		Total Credit	16
SEMESTER 2			**SEMESTER 2**		
UHL2322	Technical Writing	2	UHL2322	Technical Writing	2
BUM2133	Ordinary Differential Equation	3	BUM2123	Applied Calculus	3
BFM1123	Dynamics	3	BFM2003	Computer Programming	3
BFM1303	Electrical/Electronics Engineering	3	BFM1113	Engineering Materials	3
BFM1612	CAD Modeling	2	BFM1612	CAD Modeling	2
BFM1811	Machining 2	1	BFM1801	Machining 1	1
	Total Credit	14		Total Credit	14
SEMESTER 3			**SEMESTER 3**		
UHL2332	Academic Report Writing	2	UHL2332	Academic Report Writing	2
BFM2003	Computer Programming	3	BFM1123	Dynamics	3
BFM1133	Mechanics of Materials	3	BFM1133	Mechanics of Materials	3
BFM2403	Manufacturing Processes 1	3	BFM2403	Manufacturing Processes 1	3
BFM2603	CAD/CAM	3	BFM2603	CAD/CAM	3
BFM2801	Electrical/Electronics Lab	1	BFM2801	Electrical/Electronics Lab	1
	Total Credit	15		Total Credit	15

STUDY PLAN 01			STUDY PLAN 02		
SEMESTER 4			**SEMESTER 4**		
UHS101	Soft Skills 1	1	UHF11*1	Foreign Language Level 1	1
UQ*2**1	Co-Curriculum 2	1	UQ*2**1	Co-Curriculum 2	1
BFM2013	Programming for Engineers	3	BFM3302	Sensor and Instrumentation Systems	2
BFM2203	Thermal-Fluid Engineering 1	3	BFM2203	Thermal-Fluid Engineering 1	3
BFM2303	Analog Electronics	3	BFM2303	Analog Electronics	3
BFM2313	Digital Electronics	3	BFM2313	Digital Electronics	3
BFM2821	Mechanics Lab	3	BFM2821	Mechanics Lab	3
	Total Credit	17		Total Credit	16
SEMESTER 5			**SEMESTER 5**		
UHF11*1	Foreign Language Level 1	1	UHS101	Soft Skills 1	1
UHS2011	Soft Skills 2	1	UHF21*1	Foreign Language Level 2	1
BFM3103	Vibrations	3	BFM3103	Vibrations	3
BFM2213	Thermal-Fluid Engineering 2	3	BFM2213	Thermal-Fluid Engineering 2	3
BFM3302	Sensor and Instrumentation Systems	2	BFM2013	Programming for Engineers	3
BFM3703	PLC and Microcontroller Systems	3	BFM3703	PLC and Microcontroller Systems	3
BFM4**3	Mechatronics Elective 1	3	BFM4**3	Mechatronics Elective 1	3
	Total Credit	16		Total Credit	17
SEMESTER 6			**SEMESTER 6**		
UHF21*1	Foreign Language Level 2	1	UHS2011	Soft Skills 2	1
BFM3912	Engineering Communication	2	UHM2022	Ethnic Relations	2
BFM3123	Machine Design	3	BFM3123	Machine Design	3
BFM3713	Electrical Drive System	3	BFM3713	Electrical Drive System	3
BFM3723	Fluid Drive System	3	BFM3723	Fluid Drive System	3
BFM3801	Thermal-Fluid Engineering Lab	1	BFM3801	Thermal-Fluid Engineering Lab	1
BFM4**3	Mechatronics Elective 2	3	BFM4**3	Mechatronics Elective 2	3
	Total Credit	16		Total Credit	16

STUDY PLAN 01			STUDY PLAN 02		
SHORT SEMESTER			**SHORT SEMESTER**		
BFM3906	Industrial Training	6	BFM3906	Industrial Training	6
SEMESTER 7			**SEMESTER 7**		
UGE2002	Tehnopreneurship	2	UHE3**2	Elective Social Science	2
UHM2022	Ethnic Relations	2	BFM3912	Engineering Communication	2
BFM4923	Engineering Economy	3	BFM4912	Environment Safety & Health	2
BFM4103	Control System Engineering	3	BUM2313	Numerical Methods	3
BFM4902	Mechatronics Project 1	2	BFM4902	Mechatronics Project 1	2
BFM4**3	Mechatronics Elective 3	3	BFM4**3	Mechatronics Elective 3	3
	Total Credit	15		Total Credit	4
SEMESTER 8			**SEMESTER 8**		
UHE3**2	Elective Social Science	2	UGE2002	Tehnopreneurship	2
BUM2313	Numerical Methods	3	BFM4103	Control System Engineering	3
BFM4912	Environment Safety & Health	2	BFM4923	Engineering Economy	3
BFM4922	Engineers and Society	2	BFM4922	Engineers and Society	2
BFM4914	Mechatronics Project 2	4	BFM4914	Mechatronics Project 2	4
BFM4**3	Mechatronics Elective 4	3	BFM4**3	Mechatronics Elective 4	3
	Total Credit	16		Total Credit	17
	Total Credits	131		Total Credits	131

Notice that both Study Plans satisfy the Program Course Structure although different students register different courses. In Semester 1, for example, the students that follow the first Study Plan register BFM1113 Engineering Materials, BUM2123 Applied Calculus and BFM1801 Machining 1 whereas the students that follow the second Study Plan register BUM2133 Ordinary Differential Equations, BFM1303 Electrical/Electronics Engineering and BFM1811 Machining 2.

Also, be aware that some courses are equivalent courses. This is especially true for the faculty courses. For instance, BF**M**1801 Machining 1 is equivalent to BF**F**1801 Machining 1. The code different is just to differentiate the program of study. Thus, students that take BF**M**1801 Machining 1 can also take BF**F**1801 Machining 1 and vice versa.

4.0 What are the advantages of OR system?

Flexibility is the main advantage of the OR System. From the student perspective, some of the advantages are:

Students can graduate early (or later if preferred!). Students can take lower or higher credits for each semester. For those who do not want to have heavy academic loads, they can take 12 – 14 credits in a semester while for those who are ambitious; they can take 18 – 19 credits. This will allow fast learners to graduate early and save some time and financial cost. At the same time, OR System allows the students to accommodate their learning pace and graduate later.

Students can design their own study plan. With OR system, the sequence of the courses taken is flexible compare to the existing system. As long as the intended courses have no pre-requisite or the pre-requisite are already passed, students are allowed to register the intended courses. Students who are committing to extra-curricular activities (sports, student societies etc.) for a particular semester can reduce the credit taken and then increase the credits in the following semester or year.

Student intake is twice per year. With the OR System, students can enter UMP either in Semester I (September) or Semester II (March) and can still graduate in four years.

Students can repeat the failed courses immediately. Currently, whenever a student fails a course, he has to wait for one year in order to retake the course. With OR System, almost all courses are available every semester.

Students can easily involve in student exchange program. With the current system, the students are having difficulty participating in the Student Exchange Program partly due to the fixed study plan. With OR System, students can transfer credits easily from other participating institutions. Students also do not miss courses during the exchange program because almost all courses are offered every semester.

Students can have a class with students from different programs of study. Currently, almost all courses are offered based upon the specific program of study. This causes the students to have the same classmates in every course. With the OR System, students are allowed to register in any section thus having different classmates for every course taken!

5.0 How OR System Works?

OR System works by offering almost all courses in every semester. However, the capacity of each offered course is only half the capacity of the students enrolled.

For instance, if the course BMM1112 Statics is a requirement for all 300 Bachelor of Mechanical Engineering first year students, it will be offered with the capacity of 180 students in Semester I and will be offered again with the capacity of 180 students in Semester II. Therefore, the students can register in either Semester I or Semester II.

As long as the students are taking 16 or more credit hours per week, they are on track to graduation.

Since the capacity is half the student enrolment, the place is given by the first-register basis (first-come first-serve basis). The rest of the students shall take the following semester.

6.0 What is the Course Catalog?

Course Catalog is a document that lists all courses offered in that particular semester along with the time and location. Students shall refer to the Course Catalog when registering the courses. Example (portion) of the course catalog is shown below.

Unit	Campus	Level	Year	Code	Course Name	Sec	Day	Time	Loc	Mode	Cap	Staff	Exam	Pre Requisite	Remarks
FTA1000	GAMBANG	DEGREE		BKB1233	BIOLOGY FOR ENGINEERS	01	THU	08:00-08:50	W-DK-07	L	60	0548	N		
							THU	09:00-09:50	W-DK-07	L	60	0548	N		
							FRI	08:00-08:50	W-DK-07	L	60	0548	N		
FTA1000	GAMBANG	DEGREE		BKB2132	MOLECULAR & CELL BIOLOGY	01	TUE	15:00-15:50	W-DK-01	L	60	1564	Y		
							TUE	14:00-14:50	W-DK-01	L	60	1564	Y		
FTA1000	GAMBANG	DEGREE		BKB2212	BIOCHEMISTRY	01	MON	15:00-15:50	W-DK-01	L	30	01107	Y		
							MON	14:00-14:50	W-DK-01	L	30	01107	Y		
FTA1000		DEGREE		BKB2761	BIOCHEMISTRY & MICROBIOLOGY LABORATORY	01	TUE	14:00-14:50	FTA10L	B	30	01107	Y		
							TUE	16:00-16:50	FTA10L	B	30	01107	Y		
							TUE	15:00-15:50	FTA10L	B	30	01107	Y		
FTA1000	GAMBANG	DEGREE		BKB3423	BIOREACTOR ENGINEERING	01	TUE	14:00-14:50	W-DK-06	L	30	0548	Y		
							TUE	15:00-15:50	W-DK-06	L	30	0548	Y		

The students should refer to this course catalog when registering a course. It is important to note the section time of the course chosen. By carefully chose the section, the students are able to register courses with timetable that does not clash between classes.

Important: Some courses are offered both in Gambang and Pekan Campuses. Choose the proper section so that you are able to attend the class!

7.0 What is the role of the academic advisors?

Academic advisors advice what courses should be taken in response to the student capability and plan of study. The academic advisor will inform which courses are appropriate for a specific student requirement. Those who are in P1 or P2 status (probation) may take different route towards graduation compare to students who are in the Dean list. In addition to that, the academic advisor can inform the level of difficulty for each course so that the students can design the plan of study that is mixed with heavy and light courses. In anyway, your academic advisors are your advisors in all academic matters.

8.0 How to register under the OR System?

To register, please refer to the Student E-Community when the registration is opened. As an advice, print a blank timetable and browse the Course Catalog and look for the courses that you want to register. Write manually to your blank timetable first and then register online. Good luck!

9.0 What is online and manual registration?

OR System supports both online and manual registrations. Online registration is the registration when the first-come-first-serve basis is implemented. For those who are unable to register the intended courses, they can register the courses manually. However, the manual registration is based upon available capacity and permission of the instructor. Manual registration can be carried out at the respective faculty. Use the Manual Course Registration Form when you want to register manually.

10.0 Who actually practice OR?

OR System was and still implemented in the United States of America (USA). In Malaysia, UTM and UIAM are two major universities that implement the OR System.

11.0 Who shall be contacted for any Help?

CONTACT PERSON:-

Any help with the OR System, please contact your respective faculty.

FACULTY/ CENTRE	CONTACT PERSON	EXTENSION NO:
FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING (FKKSA)	CIK JASMIRA BINTI ABDUL JALIL	09 – 549 2817 09 – 549 2862
FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES (FKASA)	PN. EMMA MELATI BINTI BURHANUDDIN	09 – 549 2973 09 – 549 2977
FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING (FSKKP)	EN. MUHAMMAD HAFIZ ASWAD	09 – 549 2143 09 – 549 2147
FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY (FSTI)	EN. AHMAD FADLY BIN IBRAHIM	09 – 549 2381 09 – 549 2371
FACULTY OF MANUFACTURING ENGINEERING (FKP)	PN. ZURYATY BINTI ZOL	09 – 424 5858 09 – 424 5010
FACULTY OF ENGINEERING TECHNOLOGY (FTeK)	EN. RAZAK BIN JAAFAR	09 – 549 2636 09 – 549 2385
FACULTY OF INDUSTRIAL MANAGEMENT (FIM)	PN. NORUL FADILAH BINTI ABDULLAH	09 – 549 2380 09 – 549 2255
FACULTY OF MECHANICAL ENGINEERING (FKM)	EN. HAZMAN BIN ABDUL	09 – 424 6288 09 – 424 6293
FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING (FKEE)	EN. JAMIL BIN BASRI	09 – 424 6116 09 – 424 6007
CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES (PBMSK)	EN. FAIZAL BIN JUSOF	09 – 4246 881
CO – CURRICULAR CENTRE	EN. NAZRI BIN SAMSUDIN	09 – 549 3160
CENTRE FOR ACADEMIC INNOVATION & COMPETITIVENESS (CAIC)	PN. NOOR SYAHIDAH BINTI SABRAN	09 – 424 5467
ACADEMIC MANAGEMENT DIVISION (BPA)	PN. INTAN AZWANI BINTI AZMI	09 – 424 5261 09 – 549 2556


BLANK
SCHEDULE

BLANK SCHEDULE

DAY / TIME	8:00 - 8:55	9:00 - 9:55	10:00 - 10:55	11:00 - 11:55	12:00 - 12:55	13:00 - 13:55	14:00- 14:55	15:00 - 15:55	16:00 - 16:55	17:00 - 17:55	18:00 - 18:55
MON											
TUE											
WED											
THU											
FRI											


MANUAL COURSE
REGISTRATION FORM

MANUAL COURSE REGISTRATION FORM

Universiti Malaysia PAHANG
Engineering • Technology • Creativity

STUDENT INFORMATION

STUDENT NAME : ……

STUDENT ID NUMBER : ……

PROGRAM NAME : ……

YEAR OF STUDY : …….. **SEMESTER :** ……

PHONE NUMBER : …….. **DATE :** ……..

ACADEMIC STATUS : **KC** ☐ **KB** ☐ **P1** ☐ **P2** ☐

SIGNATURE : ……

COURSE INFORMATION

COURSE CODE	COURSE NAME	SECTION	REPAIR		GRADE
			YES	NO	

INSTRUCTOR APPROVAL

I HEREBY APPROVED THE STUDENT APPLICATION FOR REGISTERING THIS COURSE.

_____ _____ _____

INSTRUCTOR SIGNATURE **NAME & STAMP** **DATE**

ACADEMIC ADVISOR APPROVAL

I HEREBY APPROVED THE STUDENT APPLICATION FOR REGISTERING THIS COURSE.

_____ _____ _____

ACADEMIC ADVISOR SIGNATURE **NAME & STAMP** **DATE**

FOR OFFICE USE (FACULTY/ PBMSK/ CO- CURRICULUM CENTRE):

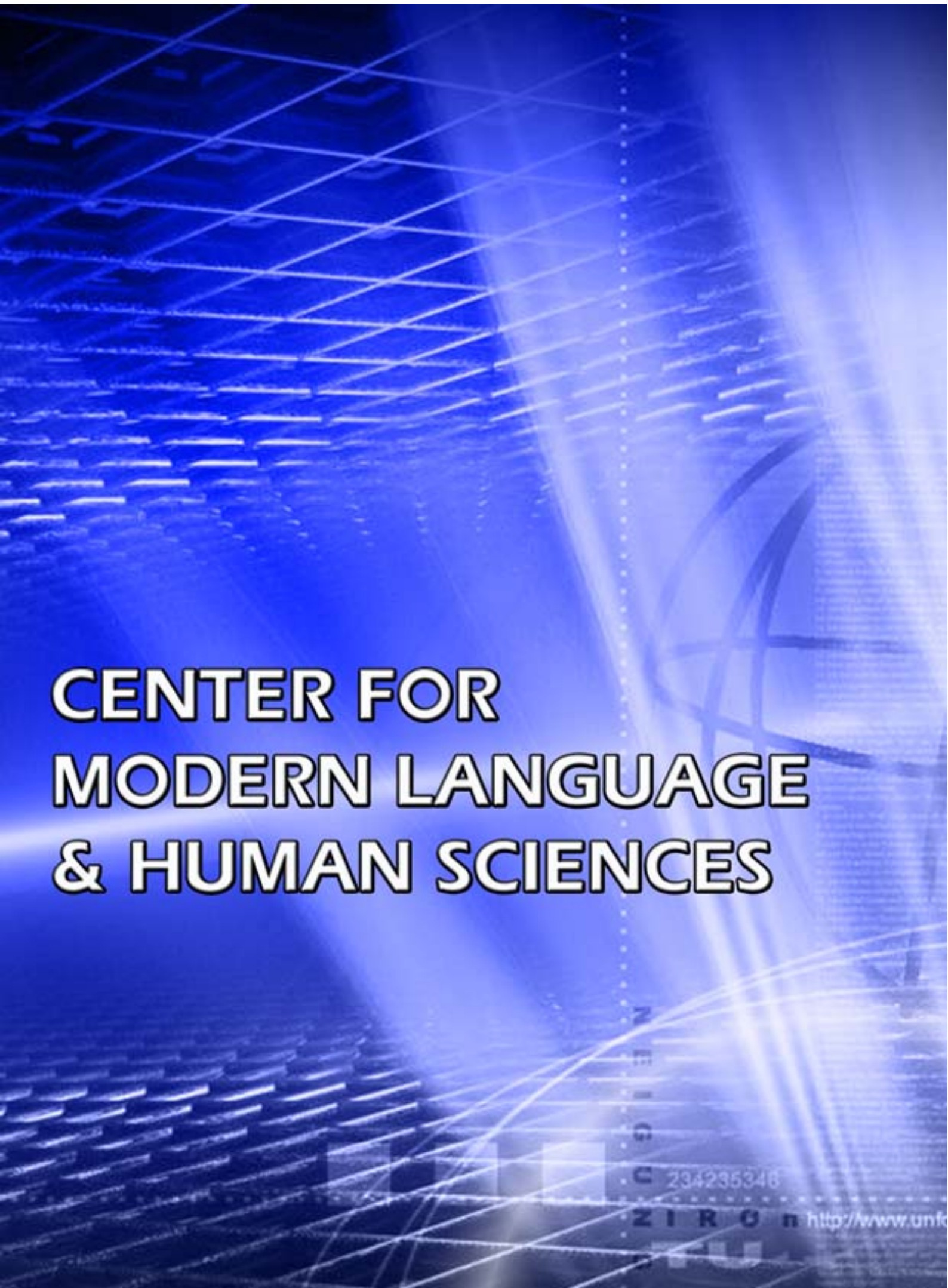
_____ _____

CENTRE STAFF NAME & COP
(PBMSK/ FSTI/ CO-Q)

FACULTY STAFF NAME & COP

INSTRUCTIONS :-

1. Please fill in the form completely.
2. Get the instructor and Academic Advisor approval
3. Submit the form to the faculty for the registration process
4. **For service courses (PBMSK/ FSTI/ CO-Q), please submit a copy of this form to Centre Office (PBMSK/ FSTI/ CO-Q) first, before go to the Faculty Office for registration process.**


CENTER FOR
MODERN LANGUAGE
& HUMAN SCIENCES

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Remark	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE	1	**UHF1121**	**GERMAN FOR BEGINNERS**	This course is designed to give students an exposure to German language and culture as similar in German-speaking countries. The course covers the basic language skills of listening, reading, speaking and writing. Lessons are composed of individual and group work, role-play and simulation.											TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016
						SEM 1 18/19	01G	MON	08:00-08:50	CMLHS3	B	30	N	01373 - YSBS		
									09:00-09:50	CMLHS3	B	30	N			
							02G	TUE	10:00-10:50	CMLHS3	B	30	N	01373 - YSBS		
									11:00-11:50	CMLHS3	B	30	N			
							03G	WED	08:00-08:50	CMLHS3	B	30	N	01373 - YSBS		
									09:00-09:50	CMLHS3	B	30	N			
							04G	THU	14:00-14:50	CMLHS3	B	30	N	01373 - YSBS		
									15:00-15:50	CMLHS3	B	30	N			
		1	**UHM2022**	**ETHNIC RELATIONS**	Kursus ini membincangkan konsep asas, latarbelakang dan realiti sosial masa kini hubungan etnik di Malaysia dari perspektif kesepaduan sosial. Tujuan kursus iniialah memberikan kesedaran dan penghayatan dalam mengurus kepelbagaian ke arah pengukuhan negara bangsa. Pengajaran dan pembelajaran akan dilaksanakan dalam bentuk pembalajaran berasaskan pengalaman melalui aktiviti individu, berpasukan dan semangat kesukarelaan. Di akhir kursusini, pelajar diharapkan dapat mengamalkan nilai-nilai murni, mempunyai jati diri kebangsaan dan menerima kepelbagaian sosio-buday etnik-etnik di Malaysia.											* Effective Semester I 2016/2017, All International Student must register UHE3182 Malaysian Studies for replace UHM2022 Ethnic Relation.
						SEM 1 18/19	01G	MON	08:00-08:50	X-DK-02	L	35	Y	0644 - MBAR	31/12/2018 - PM	
									09:00-09:50	X-DK-02	L	35	Y			
							02G	MON	10:00-10:50	X-DK-02	L	35	Y	0415 - IBA		
									11:00-11:50	X-DK-02	L	35	Y			
							03G	MON	14:00-14:50	X-DK-02	L	35	Y	0065 - MABMA		
									15:00-15:50	X-DK-02	L	35	Y			
							04G	TUE	08:00-08:50	X-DK-02	L	35	Y	0415 - IBA		
									09:00-09:50	X-DK-02	L	35	Y			
							05G	TUE	10:00-10:50	X-DK-02	L	35	Y	0644 - MBAR		
									11:00-11:50	X-DK-02	L	35	Y			
							06G	TUE	14:00-14:50	X-DK-02	L	35	Y	01349 - ABI		
									15:00-15:50	X-DK-02	L	35	Y			
							07G	TUE	16:00-16:50	X-DK-02	L	35	Y	01349 - ABI		
									17:00-17:50	X-DK-02	L	35	Y			
							08G	WED	10:00-10:50	X-DK-02	L	35	Y	0057 - HBH		
									11:00-11:50	X-DK-02	L	35	Y			
							09G	THU	10:00-10:50	X-DK-02	L	35	Y	01461 - HBH		
									11:00-11:50	X-DK-02	L	35	Y			
							10G	THU	14:00-14:50	X-DK-02	L	35	Y	0894 - AKBJ		
									15:00-15:50	X-DK-02	L	35	Y			
							11G	THU	16:00-16:50	X-DK-02	L	35	Y	0894 - AKBJ		
									17:00-17:50	X-DK-02	L	35	Y			
							12G	FRI	08:00-08:50	X-DK-02	L	35	Y	0065 - MABMA		
									09:00-09:50	X-DK-02	L	35	Y			
		1	**UHR1012**	**ISLAMIC AND ASIAN CIVILISATIONS 1**												

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE	1	**UHR1012**	**ISLAMIC AND ASIAN CIVILISATIONS 1**	This course is designed to equip students with deeper understanding about Islamic and Asian civilizations particularly those civilizations which have formed the foundation of Malaysia, i.e. Malay, Indian and Chinese civilizations. The course discusses vast aspects of civilization building; including its theory, characteristics and factors. It concerns about the studies of universal values promoted the civilizations. In addition, some contemporary civilization issues particularly the domination of Western civilization, are also being discussed. In general, the philosophy of the course is to develop students to be individuals who have positive values in multi-racial world nowadays.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01G	MON	08:00-08:50	X-DK-01	L	35	Y	0433 - MHBMS	31/12/2018 - AM	
			09:00-09:50	X-DK-01	L	35	Y			
	02G	MON	10:00-10:50	X-DK-01	L	35	Y	0590 - AFBMZA		
			11:00-11:50	X-DK-01	L	35	Y			
	03G	MON	16:00-16:50	X-DK-01	L	35	Y	0602 - ABAK		
			17:00-17:50	X-DK-01	L	35	Y			
	04G	TUE	08:00-08:50	X-DK-01	L	35	Y	01865 - MSBMJ		
			09:00-09:50	X-DK-01	L	35	Y			
	05G	TUE	10:00-10:50	X-DK-01	L	35	Y	01012 - TSBTM		
			11:00-11:50	X-DK-01	L	35	Y			
	06G	TUE	14:00-14:50	X-DK-01	L	35	Y	01865 - MSBMJ		
			15:00-15:50	X-DK-01	L	35	Y			
	07G	TUE	16:00-16:50	X-DK-01	L	35	Y	0658 - HBA		
			17:00-17:50	X-DK-01	L	35	Y			
	08G	WED	08:00-08:50	X-DK-01	L	35	Y	2279 - FM		
			09:00-09:50	X-DK-01	L	35	Y			
	09G	WED	10:00-10:50	X-DK-01	L	35	Y	0569 - AIBIH		
			11:00-11:50	X-DK-01	L	35	Y			
	10G	THU	08:00-08:50	X-DK-01	L	35	Y	0658 - HBA		
			09:00-09:50	X-DK-01	L	35	Y			
	11G	THU	10:00-10:50	X-DK-01	L	35	Y	2279 - FM		
			11:00-11:50	X-DK-01	L	35	Y			
	12G	THU	16:00-16:50	X-DK-01	L	35	Y	0569 - AIBIH		
			17:00-17:50	X-DK-01	L	35	Y			

Campus	Level	Year	Code	Course Name
		1	**UHS1021**	**SOFT SKILLS 1**

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE	1	**UHS1021**	**SOFT SKILLS 1**	This course exposes students to Soft Skills which are non-job specific skills that can be used in different occupations. This module aims at creating the sense of awareness and responsibilities as UMP students in nurturing well-rounded personalities. This could be developed though the seven elements which are leadership, teamwork, communication, critical thinking and problem solving, life-long learning, entrepreneurship, and ethics and moral skills. Students could develop these skills through course work, internships, voluntary jobs and life experiences. Hence, allowing students to enhance their marketability nationality.	TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01G	MON	08:00-08:50	W-DKU-K-01	L	35	N	2375 - WSBWN		
			09:00-09:50	W-DKU-K-01	L	35	N			
	02G	MON	14:00-14:50	W-DKU-K-01	L	35	N	01762 - RBH		
			15:00-15:50	W-DKU-K-01	L	35	N			
	03G	TUE	08:00-08:50	W-DKU-K-01	L	35	N	0083 - MBS		
			09:00-09:50	W-DKU-K-01	L	35	N			
	04G	TUE	10:00-10:50	W-DKU-K-01	L	35	N	0083 - MBS		
			11:00-11:50	W-DKU-K-01	L	35	N			
	05G	WED	10:00-10:50	W-DKU-K-01	L	35	N	0253 - H@RBH		
			11:00-11:50	W-DKU-K-01	L	35	N			
	06G	THU	16:00-16:50	W-DKU-K-01	L	35	N	2375 - WSBWN		
			17:00-17:50	W-DKU-K-01	L	35	N			
	07G	FRI	10:00-10:50	W-DKU-K-01	L	35	N	0895 - HBH		
			11:00-11:50	W-DKU-K-01	L	35	N			
	08G	FRI	08:00-08:50	W-DKU-K-01	L	35	N	0895 - HBH		
			09:00-09:50	W-DKU-K-01	L	35	N			
	09G	THU	08:00-08:50	W-DKU-K-01	L	35	N	01762 - RBH		
			09:00-09:50	W-DKU-K-01	L	35	N			
	10G	TUE	16:00-16:50	W-DKU-K-01	L	35	N	0253 - H@RBH		
			17:00-17:50	W-DKU-K-01	L	35	N			

2	**UHF1111**	**MANDARIN FOR BEGINNERS**		

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**UHF1111**	**MANDARIN FOR BEGINNERS**	The course aims to enable students to speak simple Mandarin in their daily life. The students will learn Chinese Phonetics (Hanyu Pinyin System) and about 150 vobabulary that suggested based on Chinese Proficiency Test (Hanyu Shuiping Kaoshi HSK) Level One. Students will be exposed to simple phrases and basic sentence structures. Classroom activities will include listening, speaking, reading and writing. Practices that based on HSK Level One grammar point are also introduced. The students will be evaluated based on four language skills-listening, speaking, reading and writing.										TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016
					SEM 1 18/19	01G	MON	08:00-08:50	CMLHS10	B	30	N	01135 - YYM		
								09:00-09:50	CMLHS10	B	30	N			
						02G	MON	14:00-14:50	CMLHS10	B	30	N	2415 - HYY		
								15:00-15:50	CMLHS10	B	30	N			
						03G	TUE	10:00-10:50	CMLHS10	B	30	N	01135 - YYM		
								11:00-11:50	CMLHS10	B	30	N			
						04G	TUE	16:00-16:50	CMLHS10	B	30	N	01135 - YYM		
								17:00-17:50	CMLHS10	B	30	N			
						05G	WED	08:00-08:50	CMLHS10	B	30	N	2415 - HYY		
								09:00-09:50	CMLHS10	B	30	N			
						06G	THU	10:00-10:50	CMLHS10	B	30	N	01135 - YYM		
								11:00-11:50	CMLHS10	B	30	N			
						07G	THU	16:00-16:50	CMLHS10	B	30	N	01135 - YYM		
								17:00-17:50	CMLHS10	B	30	N			
						08G	FRI	08:00-08:50	CMLHS10	B	30	N	2415 - HYY		
								09:00-09:50	CMLHS10	B	30	N			
						09G	FRI	15:00-15:50	CMLHS10	B	30	N	2415 - HYY		
								16:00-16:50	CMLHS10	B	30	N			
						10G	MON	16:00-16:50	CMLHS12	B	30	N	2415 - HYY		
								17:00-17:50	CMLHS12	B	30	N			
		2	**UHS2021**	**SOFT SKILLS 2**	This course is the extension of Soft Skills 1 (UHS1021). It focuses on the dynamic and integrated approach required by the industry through coaching and mentoring, change management, critical thinking and problem solving, ethic and moral for professional, communications skills and project closure. In the end, students will be more competent, competitive and prepare to venture the workplace challenges.										TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016 Starting Sem II 2015/2016, Only the following students can register for this course : * Student who are in Sem 5 and above * Direct Entry - sem 4 above * completed 60 credit
					SEM 1 18/19	01G	MON	08:00-08:50	ZDK14	L	60	N	0197 - FBL		UHS1011 UHS1021
								09:00-09:50	ZDK14	L	60	N			
						02G	TUE	10:00-10:50	ZDK14	L	60	N	2375 - WSBWN		
								11:00-11:50	ZDK14	L	60	N			
						03G	FRI	10:00-10:50	ZDK13	L	60	N	0197 - FBL		
								11:00-11:50	ZDK13	L	60	N			
						04G	THU	14:00-14:50	ZDK14	L	60	N	2375 - WSBWN		
								15:00-15:50	ZDK14	L	60	N			
						05G	THU	16:00-16:50	ZDK14	L	60	N	0253 - H@RBH		
								17:00-17:50	ZDK14	L	60	N			
						06G	MON	16:00-16:50	W-DKU-K-01	L	60	N	01762 - RBH		
								17:00-17:50	W-DKU-K-01	L	60	N			
						07G	FRI	15:00-15:50	ZDK14	L	60	N	01762 - RBH		
								16:00-16:50	ZDK14	L	60	N			
						08G	FRI	15:00-15:50	X-DK-02	L	60	N	0253 - H@RBH		
								16:00-16:50	X-DK-02	L	60	N			
		3	**UHE3012**	**CONTEMPORARY LEADERSHIP IN COMMUNITY**	This course explores the basic concept of leadership and ways of being a good leader. It includes the										

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	UHE3012	CONTEMPORARY LEADERSHIP IN COMMUNITY	theoretical and practical aspects of leadership as well as issues and matters related to contemporary leadership in community. In general, the philosophy of the course is to equip students with knowledge and skills of good leadership.										
					SEM 1 18/19	01G	TUE	12:00-12:50 13:00-13:50	X-BK-01 X-BK-01	L L	40 40	N N	0644 - MBAR		
		3	UHE3022	CRITICAL THINKING THROUGH LITERATURE	This course aims to use literature as a subject matter that will be explored through the use of various activities which engage students' critical thinking skills. it will introduce representative literary genres: poetry, short story, popular culture, drama and play. This course is suitable for students who are interested in literature and in developing strong critical thinking skills as it guides students toward a greater understanding and appreciation of literature in connection with their own lives.										
					SEM 1 18/19	01G	WED	12:00-12:50 13:00-13:50	CMLHS1 CMLHS1	L L	30 30	N N	0436 - NBS		
		3	UHE3042	ORGANIZATION COUNSELING	This course will discuss the theoretical and application of counselling in the work setting. It covers the basic framework of counselling skills, techniques and process of counselling dealing with workplace issues. This course also discusses related personality theories, common problems in the workplace and ways to deal with them. In general, the philosophy of this course is to expose students to the knowledge and basic counselling skills related to workplace in an organization.										
					SEM 1 18/19	01G	THU	12:00-12:50 13:00-13:50	X-BK-06 X-BK-06	L L	40 40	N N	0197 - FBL		
		3	UHE3062	MALAYSIA: THE IMPACT OF GLOBALIZATION	This course discusses the influence and impact of globalization on Malaysia and international relations. The influence highlighted will be in the perspective of politics, economics, social and culture. The contemporary issues and challenges related to the globalizational impact in Malaysia and other countries are also discussed. In general, the philosophy of the course is to facilitate borderless thinking among the students about the globalization impact towards human and environmental aspects.										
					SEM 1 18/19	01G	MON	12:00-12:50 13:00-13:50	X-BK-06 X-BK-06	L L	40 40	N N	0065 - MABMA		
		3	UHE3072	TECHNOLOGY FOR HUMAN CAPITAL	This course will enable students to understand the concept and process of human capital development and technology. They will learn on the uses of training needs analysis, information technology and biofeedback techniques in human development programme. This will also cover several technology in human development such as personality profiling, program design, basic quantitative and qualitative design and data analysis, heart rate variability, skin conductance biofeedback systems, biofeedback script and protocol. The uses of technology and human development theory are integral in providing hands on approach to students in designing and implementing human capital development activities										
					SEM 1 18/19	01G	THU	12:00-12:50 13:00-13:50	X-DK-02 X-DK-02	L L	40 40	N N	0082 - MNBAW		
		3	UHE3082	CREATIVE WRITING	This course aims to foster a better understanding of the craft of writing and to instill an appreciation of what goes into producing readable, publishable and engrossing fiction. It encourages the integral first steps towards writing creatively by tapping students' writing potentials to write clearly with imagination. It also exposes students to the beauty of written language and the mechanics of descriptive writing using figurative language and critical thinking skills.Students will explore the creative process through writing, expand and refine vocabulary and style resources, analyse a piece of writing, reinforce process writing, delve into sceenplay writing and make a short film.										
					SEM 1 18/19	01G	TUE	12:00-12:50 13:00-13:50	CMLHS1 CMLHS1	L L	30 30	N N	0264 - CKS		
		3	UHE3092	ENGLISH MECHANICS											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	UHE3092	ENGLISH MECHANICS	The course primarily aims to develop a greater understanding of the English mechanics which includes grammar, sentence structure, word formation and order, spelling, capitalisation and punctuation. Students will be exposed to these aspects in written language to strengthen their communication skills.	SEM 1 18/19	01G	MON	12:00-12:50	CMLHS1	L	30	N	0404 - ZBMA		
									13:00-13:50	CMLHS1	L	30	N			
		3	UHE3122	ISLAMIC INSTITUTIONS	This course exposes students to the comprehensiveness of Islam through Its distinct institutions. In addition, the course is designed to introduce the main characteristics in Islamic systems which cover universal aspects of management. It covers basic Islamic principles and tools in management such as syura, maslahah, hadaf and others which have been applied in particular institutions and organizations. In general, the philosophy of the course is to equip students with necessary and broad knowledge and skills about Islamic management that implemented in various institutions, such as, education, social, judicial, legislative, political economic, defines, sports, hisbah, religious and food.	SEM 1 18/19	01G	TUE	12:00-12:50	X-DK-02	L	40	N	0573 - RBA		
									13:00-13:50	X-DK-02	L	40	N			
		3	UHE3142	PROJECT-BASED PROPOSAL WRITING	The course is designed to develop students' ability in writing a project-based proposal with regard to their final year engineering undergraduate research project (URP) or Projek Sarjana Muda (PSM). Students will be introduced to proposal writing in which emphasis is placed on academic writing conventions in writing Introduction, Literature Review and Methodology chapters. Grammar is implicitly embedded into the teaching and learning process. In addition, students will also be exposed to elements of citation techniques and referencing in order to avoid plagiarism.	SEM 1 18/19	01G	MON	12:00-12:50	CMLHS2	L	30	N	0395 - SKAS	*This subject is Prerequisites with UHL2422 English for Technical Communication effective Sem I 2015/2016	UHL3002 UHL2332 UHL2422
									13:00-13:50	CMLHS2	L	30	N			
		3	UHE3152	INTERPERSONAL EFFECTIVENESS	This course is appropriate for students who want to improve their ability to interact with others in their personal and professional lives. The course begins with a focus on preliminary topics such as basics of interpersonal communication and relationships and models of interpersonal effectiveness. The second part of the course includes intrapersonal topics such as self-awareness, self-disclosure and trust, and self-management. The final part of the course covers interpersonal topics such as perception, diversity, active listening, feedback, communication apprehension and communication styles. The teaching and learning approach used in this course includes discussions, group activities, video analysis, presentations, and role playing.	SEM 1 18/19	01G	WED	12:00-12:50	X-BK-06	L	30	N	0048 - NABAA	*This subject is Prerequisites with UHL2422 English for Technical Communication effective Sem I 2015/2016 (terbatal) ** This subject is pre requisites with UHL2412 English for Academic Communication effective Sem I 2017/2018	UHL2412
									13:00-13:50	X-BK-06	L	30	N			
		3	UHF1131	JAPANESE FOR BEGINNERS	As the main aim of this course is basic communicative competence, learning in the classroom will be based on language tasks which students are likely to perform in real life, either in their native country or in Japan. Students will be equipped with basic communicative competence in the aspects of self-development, knowledge acquisition and social interaction.	SEM 1 18/19	01G	MON	08:00-08:50	CMLHS12	B	30	N	0687 - MIBMH	TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016	
									09:00-09:50	CMLHS12	B	30	N			
							02G	MON	14:00-14:50	CMLHS12	B	30	N	0687 - MIBMH		
									15:00-15:50	CMLHS12	B	30	N			
							03G	WED	10:00-10:50	CMLHS12	B	30	N	0687 - MIBMH		
									11:00-11:50	CMLHS12	B	30	N			
							04G	THU	16:00-16:50	CMLHS12	B	30	N	0687 - MIBMH		
									17:00-17:50	CMLHS12	B	30	N			
		3	UHF1141	ARABIC FOR BEGINNERS												

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE	3	**UHF1141**	**ARABIC FOR BEGINNERS**	This course focuses on basic Arabic communicative skills.Learning in the classroom will be based on language tasks that students can use in their real life include greeting, introducing oneself, reporting time and etc. Students will be equipped with basic Arabic communicative skills such as speaking and listening and will also learn how to write simple sentences in Arabic.	TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01G	MON	08:00-08:50	CMLHS4	B	30	N	01403 - MBZ		
			09:00-09:50	CMLHS4	B	30	N			
	02G	MON	14:00-14:50	CMLHS4	B	30	N	01404 - RHBR		
			15:00-15:50	CMLHS4	B	30	N			
	03G	TUE	10:00-10:50	CMLHS4	B	30	N	01403 - MBZ		
			11:00-11:50	CMLHS4	B	30	N			
	04G	TUE	16:00-16:50	CMLHS4	B	30	N	01404 - RHBR		
			17:00-17:50	CMLHS4	B	30	N			
	05G	WED	08:00-08:50	CMLHS4	B	30	N	01403 - MBZ		
			09:00-09:50	CMLHS4	B	30	N			
	06G	THU	10:00-10:50	CMLHS4	B	30	N	01404 - RHBR		
			11:00-11:50	CMLHS4	B	30	N			
	07G	THU	16:00-16:50	CMLHS4	B	30	N	01403 - MBZ		
			17:00-17:50	CMLHS4	B	30	N			
	08G	FRI	08:00-08:50	CMLHS4	B	30	N	01404 - RHBR		
			09:00-09:50	CMLHS4	B	30	N			

Year	Code	Course Name	Course Synopsis	Remark
3	**UHF1151**	**SPANISH FOR BEGINNERS**	The main aim of this subject is to introduce students to the Spanish language. Students will learn Spanish alphabets and basic sentence structures. They are expected to be able to speak simple spanish in selected situation and also read and write in spanish. Classroom activities will include listening and speaking skill practices, reading and also writing skill are given to enhance the oral skills. Practice on certain basic grammar is also introduced. The students will be evaluated on all four language skills-listening, speaking, reading and writing.	TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01G	TUE	10:00-10:50	CMLHS11	B	30	N	01485 - ABMA		
			11:00-11:50	CMLHS11	B	30	N			
	02G	TUE	16:00-16:50	CMLHS11	B	30	N	01485 - ABMA		
			17:00-17:50	CMLHS11	B	30	N			

Year	Code	Course Name	Course Synopsis	Remark
3	**UHF1161**	**MALAY FOR BEGINNERS**	The main aims of this subject is to introduce international students of the Malay language. Students will learn Malay alphabets and basic sentence structures. To expose students speak simple Malay in selected situation and also read and write in Malay classrooms activities includes listening, speaking,reading and writing. Practice on certain basic grammar are also introduce. The students are evaluated in all four language skills that are listening, speaking, reading and writing.	TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01G	WED	08:00-08:50	CMLHS11	B	30	N	01872 - JBO		
			09:00-09:50	CMLHS11	B	30	N			
	02G	TUE	12:00-12:50	CMLHS11	B	30	N	01872 - JBO		
			13:00-13:50	CMLHS11	B	30	N			
	03G	MON	10:00-10:50	CMLHS11	B	30	N	01872 - JBO		
			11:00-11:50	CMLHS11	B	30	N			

Year	Code	Course Name
3	**UHF2111**	**MANDARIN FOR INTERMEDIATE**

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**UHF2111**	**MANDARIN FOR INTERMEDIATE**	The course aims to expose students to speak Mandarin in selected situations which include asking for directions, travelling, foods and etc. The students will continue to practice the use of Chinese Phonetics (Hanyu Pinyin System). They will also learn about 300 vocabulary and expected to use of simple Chinese phrases and sentences suggested based on Chinese Proficiency Test (Hanyu Shuiping Kaoshi HSK) Level Two. Classroom activities will focus on language skills practices--listening, speaking, reading and writing. Practices that based on HSK Level Two grammar pointed is also introduced. Students will be evaluated based on the four language skills namely listening, speaking, reading and writing.										TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016
					SEM 1 18/19	01G	MON	10:00-10:50	CMLHS10	B	30	N	01135 - YYM		UHF1111
								11:00-11:50	CMLHS10	B	30	N			UHF1**1
						02G	MON	16:00-16:50	CMLHS10	B	30	N	01135 - YYM		
								17:00-17:50	CMLHS10	B	30	N			
						03G	TUE	08:00-08:50	CMLHS10	B	30	N	2415 - HYY		
								09:00-09:50	CMLHS10	B	30	N			
						04G	TUE	14:00-14:50	CMLHS10	B	30	N	2415 - HYY		
								15:00-15:50	CMLHS10	B	30	N			
						05G	WED	10:00-10:50	CMLHS10	B	30	N	2415 - HYY		
								11:00-11:50	CMLHS10	B	30	N			
						06G	THU	08:00-08:50	CMLHS10	B	30	N	01135 - YYM		
								09:00-09:50	CMLHS10	B	30	N			
						07G	THU	14:00-14:50	CMLHS10	B	30	N	2415 - HYY		
								15:00-15:50	CMLHS10	B	30	N			
						08G	FRI	10:00-10:50	CMLHS10	B	30	N	01135 - YYM		
								11:00-11:50	CMLHS10	B	30	N			
						09G	FRI	15:00-15:50	CMLHS2	B	30	N	01135 - YYM		
								16:00-16:50	CMLHS2	B	30	N			
						10G	THU	16:00-16:50	CMLHS3	B	30	N	2415 - HYY		
								17:00-17:50	CMLHS3	B	30	N			
		3	**UHF2121**	**GERMAN FOR INTERMEDIATE**	German For Intermediate is a continuation course and intended for students who have successfully completed German For Beginners (UHF1121). This course is designed to reinforce and expand their command over grammatical structures, sharpen reading, writing, speaking, and listening skills, and gain a better understanding of the cultures of the German-speaking world.										TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016
					SEM 1 18/19	01G	MON	10:00-10:50	CMLHS3	B	30	N	01373 - YSBS		UHF1121
								11:00-11:50	CMLHS3	B	30	N			UHF1**1
						02G	MON	16:00-16:50	CMLHS3	B	30	N	01373 - YSBS		
								17:00-17:50	CMLHS3	B	30	N			
						03G	TUE	14:00-14:50	CMLHS3	B	30	N	01373 - YSBS		
								15:00-15:50	CMLHS3	B	30	N			
						04G	WED	10:00-10:50	CMLHS3	B	30	N	01373 - YSBS		
								11:00-11:50	CMLHS3	B	30	N			
		3	**UHF2131**	**JAPANESE FOR INTERMEDIATE**											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**UHF2131**	**JAPANESE FOR INTERMEDIATE**	The course aims to expose students to speak Japanese in selected situations which include asking for directions, travelling, food and etc. The students will continue to practise the use of Japanese Phonetics. They will also learn additional selected words, common verbs and are expected to be able to write simple sentences. Classroom activities will focus on language skills practices; listening, speaking, reading and writing. Students will be evaluated on the four language skills namely listening, speaking, reading and writing.									TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016	
					SEM 1 18/19	01G	TUE	10:00-10:50	CMLHS12	B	30	N	0687 - MIBMH		UHF1131
								11:00-11:50	CMLHS12	B	30	N			UHF1**1
						02G	TUE	16:00-16:50	CMLHS12	B	30	N	0687 - MIBMH		
								17:00-17:50	CMLHS12	B	30	N			
						03G	THU	10:00-10:50	CMLHS12	B	30	N	0687 - MIBMH		
								11:00-11:50	CMLHS12	B	30	N			
						04G	FRI	08:00-08:50	CMLHS12	B	30	N	0687 - MIBMH		
								09:00-09:50	CMLHS12	B	30	N			
		3	**UHF2141**	**ARABIC FOR INTERMEDIATE**	The main aim of this subject is to enhance students knowledge in this language. Students will learn to speak the language in selected situations such as the hospital, at the workplace etc., read short passages, and write simple Arabic Language with correct grammar. Calssroom activities focus on the four main skills; listening, speaking, reading, and writing. Practices on certain basic grammar are also introduced. Extensive written exercises give students ample opportunity to put into practice the skills they have learned, enabling them to build up confidence in reading and writing vocalised arabic text.									TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016	
					SEM 1 18/19	01G	MON	10:00-10:50	CMLHS4	B	30	N	01403 - MBZ		UHF1141
								11:00-11:50	CMLHS4	B	30	N			UHF11*1
						02G	MON	16:00-16:50	CMLHS4	B	30	N	01404 - RHBR		UHF1**1
								17:00-17:50	CMLHS4	B	30	N			
						03G	TUE	08:00-08:50	CMLHS4	B	30	N	01403 - MBZ		
								09:00-09:50	CMLHS4	B	30	N			
						04G	TUE	14:00-14:50	CMLHS4	B	30	N	01404 - RHBR		
								15:00-15:50	CMLHS4	B	30	N			
						05G	WED	10:00-10:50	CMLHS4	B	30	N	01404 - RHBR		
								11:00-11:50	CMLHS4	B	30	N			
						06G	THU	08:00-08:50	CMLHS4	B	30	N	01404 - RHBR		
								09:00-09:50	CMLHS4	B	30	N			
						07G	THU	14:00-14:50	CMLHS4	B	30	N	01403 - MBZ		
								15:00-15:50	CMLHS4	B	30	N			
						08G	FRI	10:00-10:50	CMLHS4	B	30	N	01403 - MBZ		
								11:00-11:50	CMLHS4	B	30	N			
		3	**UHF2151**	**SPANISH FOR INTERMEDIATE**	Spanish For Intermediate is continuation course for students who have succesfully completed Spanish For Beginners(UHF1151). This course is designed to reinforce and expand their command over grammatical structures, improve reading, writing, speaking and listening skills. The students develop intermediate competence in oral and written comprehension and experession of spanish language.									TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016	
					SEM 1 18/19	01G	TUE	08:00-08:50	CMLHS11	B	30	N	01485 - ABMA		UHF1151
								09:00-09:50	CMLHS11	B	30	N			UHF1**1
						02G	WED	10:00-10:50	CMLHS11	B	30	N	01485 - ABMA		
								11:00-11:50	CMLHS11	B	30	N			
		3	**UHF2161**	**MALAY FOR INTERMEDIATE**											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	UHF2161	MALAY FOR INTERMEDIATE	Malay for Intermediate is continuation course and intended for students who have successfully completed Malay For Beginners (UHF1161). This course is designed to reinforce and expand their command over grammatical structures, sharpen reading, writing, speaking, and listening skills, and gain better understanding of Malay cultures and local wisdom.										TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016
					SEM 1 18/19	01G	MON	08:00-08:50	CMLHS11	B	30	N	01872 - JBO		UHF1161 UHF1**1
								09:00-09:50	CMLHS11	B	30	N			
						02G	FRI	10:00-10:50	CMLHS11	B	30	N	01872 - JBO		
								11:00-11:50	CMLHS11	B	30	N			
						03G	THU	14:00-14:50	CMLHS11	B	30	N	01872 - JBO		
								15:00-15:50	CMLHS11	B	30	N			
			UHE3132	PUBLIC SPEAKING	The course aims to introduce students to the speech planning process. Students will be exposed to two varieties of public speaking, namely informative speaking and persuasive speaking. Students will learn how to select a topic, gather materials and supporting points, organise the body of the speech, prepare an outline and deliver the speech. Sample speeches and videos will be shown to enhance students¿ understanding of the course. Students will also be exposed to the used of technology in preparing and delivering their speeches.										MULAI SEMESTER 2 SESI 2011/2012
					SEM 1 18/19	01G	MON	10:00-10:50	CMLHS12	B	30	N	0017 - AHB I		
								11:00-11:50	CMLHS12	B	30	N			
			UHE3182	MALAYSIAN STUDIES	This course discusses history and politic, Malaysian Constitution, system and structure of administration, society and national unity, national development and religion and belief in Malaysia. This course aims to produce graduates who have a national identity and a spirit of patriotism. Teaching and learning will be carried out in the form of lectures, assignments, test and learning experiences.										*MULAI SEMESTER II SESI 2014/2015 ** Effective Semester I 2016/2017, All International Student must register UHE3182 Malaysian Studies for replace UHM2022 Ethnic Relation
					SEM 1 18/19	01G	WED	12:00-12:50	X-DK-02	L	39	N	0057 - HBH		
								13:00-13:50	X-DK-02	L	39	N			
						02G	FRI	10:00-10:50	X-DK-02	L	35	N	0057 - HBH		
								11:00-11:50	X-DK-02	L	35	N			
			UHE3192	FUNDAMENTAL IBADAH IN ISLAM	This course is designed to equip students with a deeper understanding on basic principles of Islamic Jurisprudence and its application in fundamental ritual of worship in Islam. It covers the contemporary issue and study according to Shafie school of thought that commonly will be encountered by professionals in their working surrounding. Students will also learn contemporary ijtihad (Islamic scholars' opinions) on the current issues of modern lifestyles. In general, the philosophy of the course is to develop students to become more knowledgeable on the basic of Islamic teaching which is very vital in shaping a spiritually strong individual.										MULAI SEMESTER II SESI 2014/2015
					SEM 1 18/19	01G	TUE	12:00-12:50	X-DK-01	L	40	N	01012 - TSBTM		
								13:00-13:50	X-DK-01	L	40	N			
			UHE3202	INTRODUCTION TO HALAL STUDIES	This course is designed to equip students with basic understanding of halal and the halal administration particularly in Malaysia. Therefore, the subject covers the study of shariah-based halal principles and requirements pertaining to halal as stipulated in the halal authority guidelines. The course also discusses the current administration of halal especially on the Malaysian Halal Certificate and its enforcement. Student will also be exposed to an academic project on halal application in the food and non-food industry. In addition, some contemporary issues related to halal regionally and globally will be discussed as well as exposure to halal act and standards. In general, the aim of the course is to develop students to have knowledge on halal and its specific administration.										MULAI SEMESTER II SESI 2014/2015
					SEM 1 18/19	01G	MON	12:00-12:50	X-DK-01	L	40	N	0658 - HBA		
								13:00-13:50	X-DK-01	L	40	N			
			UHE3212	GLOBAL COMPETENCIES	Global competence refers to the acquisition of in-depth knowledge and understanding of international issues, an appreciation of and ability to learn and work with people from diverse linguistic and cultural backgrounds, proficiency in a foreign language, and skills to function productively in an interdependent world community. This definition contains four basic elements: a. International awareness										DITAWARKAN MULAI SESI 2016/2017

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**UHE3212**	**GLOBAL COMPETENCIES**	b. Appreciation of cultural diversity c. Proficiency in foreign languages d. Competitive skills The overall aim of this course is to develop students' intercultural awareness and competence in order to enable them to better reflect on their own roles and ability to initiate change in professional situations. It is also to provide the students with a critical understanding of issues relating to cultural identity, cultural difference and cultural diversity. Acquiring intercultural competence is both a cognitive and an affective process and its a long-term process during which the student must understand the relativity of all beliefs, values and behavior practice all over the world. The students should be able to identify and engaging in any topics of local and global significance.										
					SEM 1 18/19	01G	MON	10:00-10:50 10:00-10:50 11:00-11:50 11:00-11:50	BKO03 BKO04 BKO03 BKO04	L L L L	25 25 25 25	N N N N	0286 - JRBR		
			UHE3222	**AL-QURAN MEMORIZATION I**	This course is designed to equip students with a deeper understanding on basic principles of memorizing the Holy Quran. It covers the method of theories how to maintain and strengthen of memorizing as a hafiz. A part of that, students will be given practical training for memorizing from (al-Baqarah verse 1-169). Students will also be trained in theoretical and practical how to express the accurate makhraj of words according to the tajweed rules. In general, the philosophy of the course is to develope students to become more knowledgeable on the bassic of memorizing which is very vital in shaping an individual as a hafiz.									** Ditawarkan mulai Semester II 2017/2018	
					SEM 1 18/19	01G	WED	08:00-08:50 09:00-09:50	X-DK-02 X-DK-02	L L	20 20	N N	0573 - RBA		
			UHF1271	**TURKISH 1**	This course covers pronunciation of Turkish Alphabets and words, the acquision of basic vocabulary, listening, reading, and wrinting skills of simple texts. the course also covers the application of basic grammar in Turkish phrases and sentences.									DITAWARKAN MULAI SESI 2015/2016	
					SEM 1 18/19	01G	TUE	14:00-14:50 15:00-15:50	CMLHS12 CMLHS12	B B	30 30	N N	2279 - FM		
			UHF2271	**TURKISH 2**	This course cover exercises in more complex vocabulary development, word classes and sentence construction, development of listening, speaking, reading and writing skills in Turkish Language. In addition, writing short compositions, and development of speech skills in conversation.									DITAWARKAN MULAI SESI 2015/2016	
					SEM 1 18/19	01G	TUE	08:00-08:50 09:00-09:50	CMLHS12 CMLHS12	B B	30 30	N N	2279 - FM		UHF1271 UHF1**1 UHF11*1
			UHL2400	**FUNDAMENTALS OF ENGLISH LANGUAGE**											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE		**UHL2400**	**FUNDAMENTALS OF ENGLISH LANGUAGE**	The course is designed to develop skills in using English language effectively. The four language skills; listening, speaking, reading and writing are integrated to strengthen students basic comprehension, vocabulary and grammar skills. This course also emphasizes on improving reading and writing by applying effective strategies which include elements of contextual grammar, active vocabulary building, sentence and paragraph writing. These are fundamentals in providing essential English language skills that are needed in academic environment.	Berkuatkuasa mulai semester I sesi 2012/2013. Passing mark berubah dari 40 kepada 60 mulai sesi 2016/2017.

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01G	MON	08:00-08:50	CMLHS1	B	30	N	0264 - CKS		
			09:00-09:50	CMLHS1	B	30	N			
		WED	08:00-08:50	X-BK-01	L	30	N			
			09:00-09:50	X-BK-01	L	30	N			
	02G	MON	10:00-10:50	CMLHS1	B	30	N	0264 - CKS		
			11:00-11:50	CMLHS1	B	30	N			
		WED	10:00-10:50	X-BK-01	L	30	N			
			11:00-11:50	X-BK-01	L	30	N			
	03G	MON	14:00-14:50	CMLHS1	B	30	N	01729 - NBMI		
			15:00-15:50	CMLHS1	B	30	N			
		THU	14:00-14:50	X-BK-01	L	30	N			
			15:00-15:50	X-BK-01	L	30	N			
	04G	MON	16:00-16:50	CMLHS1	B	30	N	01729 - NBMI		
			17:00-17:50	CMLHS1	B	30	N			
		THU	16:00-16:50	X-BK-01	L	30	N			
			17:00-17:50	X-BK-01	L	30	N			
	05G	THU	08:00-08:50	X-BK-01	L	30	N	0404 - ZBMA		
			09:00-09:50	X-BK-01	L	30	N			
		TUE	08:00-08:50	CMLHS1	B	30	N			
			09:00-09:50	CMLHS1	B	30	N			
	06G	THU	10:00-10:50	X-BK-01	L	30	N	0264 - CKS		
			11:00-11:50	X-BK-01	L	30	N			
		TUE	10:00-10:50	CMLHS1	B	30	N			
			11:00-11:50	CMLHS1	B	30	N			
	07G	FRI	08:00-08:50	X-BK-01	L	30	N	0436 - NBS		
			09:00-09:50	X-BK-01	L	30	N			
		TUE	14:00-14:50	CMLHS1	B	30	N			
			15:00-15:50	CMLHS1	B	30	N			
	08G	FRI	10:00-10:50	X-BK-01	L	30	N	0436 - NBS		
			11:00-11:50	X-BK-01	L	30	N			
		TUE	16:00-16:50	CMLHS1	B	30	N			
			17:00-17:50	CMLHS1	B	30	N			
	09G	MON	08:00-08:50	CMLHS2	B	30	N	01370 - AHBAB		
			09:00-09:50	CMLHS2	B	30	N			
		WED	08:00-08:50	X-BK-02	L	30	N			
			09:00-09:50	X-BK-02	L	30	N			
	10G	MON	10:00-10:50	CMLHS2	B	30	N	0404 - ZBMA		
			11:00-11:50	CMLHS2	B	30	N			
		WED	10:00-10:50	X-BK-02	L	30	N			
			11:00-11:50	X-BK-02	L	30	N			
	11G	MON	14:00-14:50	CMLHS2	B	30	N	01370 - AHBAB		
			15:00-15:50	CMLHS2	B	30	N			
		THU	14:00-14:50	X-BK-02	L	30	N			
			15:00-15:50	X-BK-02	L	30	N			

Universiti Malaysia PAHANG
Engineering • Technology • Creativity

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE		UHL2400	FUNDAMENTALS OF ENGLISH LANGUAGE	SEM 1 18/19	12G	MON	16:00-16:50	CMLHS2	B	30	N	01370 - AHBAB		
								17:00-17:50	CMLHS2	B	30	N			
							THU	16:00-16:50	X-BK-02	L	30	N			
								17:00-17:50	X-BK-02	L	30	N			
						13G	THU	08:00-08:50	X-BK-02	L	30	N	0731 - NABZA		
								09:00-09:50	X-BK-02	L	30	N			
							TUE	08:00-08:50	CMLHS2	B	30	N			
								09:00-09:50	CMLHS2	B	30	N			
						14G	THU	10:00-10:50	X-BK-02	L	30	N	01370 - AHBAB		
								11:00-11:50	X-BK-02	L	30	N			
							TUE	10:00-10:50	CMLHS2	B	30	N			
								11:00-11:50	CMLHS2	B	30	N			
						15G	FRI	08:00-08:50	CMLHS3	B	30	N	0731 - NABZA		
								09:00-09:50	CMLHS3	B	30	N			
							TUE	14:00-14:50	X-BK-02	L	30	N			
								15:00-15:50	X-BK-02	L	30	N			
						16G	FRI	10:00-10:50	CMLHS3	B	30	N	0731 - NABZA		
								11:00-11:50	CMLHS3	B	30	N			
							TUE	16:00-16:50	X-BK-02	L	30	N			
								17:00-17:50	X-BK-02	L	30	N			
			UHL2412	ENGLISH FOR ACADEMIC COMMUNICATION											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE		UHL2412	ENGLISH FOR ACADEMIC COMMUNICATION	The course aims to equip students with the four language skills (i.e listening, reading, speaking and writing) and study skills for academic success. The course requires students to read various texts of general topics by incorporating essential reading skills. Study skills such as note-taking and note making techniques, amd active listening skillsa are also emphasised. Students will also be exposed to thesis-support essays and writing styles and organisation appropriate for their level. Additionally, students will be exposed to presentation skills and e-learning platform will also be introduced as part of the course.	This subject is equivalent with UHL2312 Technical English. Mulai semester I sesi 2012/2013

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01G	MON	08:00-08:50	CMLHS5	B	30	N	0496 - ZBA@Z		UHL2400
			09:00-09:50	CMLHS5	B	30	N			
		WED	08:00-08:50	X-BK-05	L	30	N			
			09:00-09:50	X-BK-05	L	30	N			
	02G	MON	10:00-10:50	CMLHS5	B	30	N	0436 - NBS		
			11:00-11:50	CMLHS5	B	30	N			
		WED	10:00-10:50	X-BK-05	L	30	N			
			11:00-11:50	X-BK-05	L	30	N			
	03G	MON	14:00-14:50	CMLHS5	B	30	N	01312 - RABA		
			15:00-15:50	CMLHS5	B	30	N			
		THU	14:00-14:50	X-BK-05	L	30	N			
			15:00-15:50	X-BK-05	L	30	N			
	04G	MON	16:00-16:50	CMLHS5	B	30	N	01187 - MMBAA		
			17:00-17:50	CMLHS5	B	30	N			
		THU	16:00-16:50	X-BK-05	L	30	N			
			17:00-17:50	X-BK-05	L	30	N			
	05G	THU	08:00-08:50	X-BK-05	L	30	N	0496 - ZBA@Z		
			09:00-09:50	X-BK-05	L	30	N			
		TUE	08:00-08:50	CMLHS5	B	30	N			
			09:00-09:50	CMLHS5	B	30	N			
	06G	THU	10:00-10:50	X-BK-05	L	30	N	0436 - NBS		
			11:00-11:50	X-BK-05	L	30	N			
		TUE	10:00-10:50	CMLHS5	B	30	N			
			11:00-11:50	CMLHS5	B	30	N			
	07G	FRI	08:00-08:50	X-BK-05	L	30	N	0496 - ZBA@Z		
			09:00-09:50	X-BK-05	L	30	N			
		TUE	14:00-14:50	CMLHS5	B	30	N			
			15:00-15:50	CMLHS5	B	30	N			
	08G	FRI	10:00-10:50	X-BK-05	L	30	N	0496 - ZBA@Z		
			11:00-11:50	X-BK-05	L	30	N			
		TUE	16:00-16:50	CMLHS5	B	30	N			
			17:00-17:50	CMLHS5	B	30	N			
	09G	MON	08:00-08:50	CMLHS6	B	30	N	01668 - FIBMF		
			09:00-09:50	CMLHS6	B	30	N			
		WED	08:00-08:50	X-BK-06	L	30	N			
			09:00-09:50	X-BK-06	L	30	N			
	10G	MON	10:00-10:50	CMLHS6	B	30	N	01668 - FIBMF		
			11:00-11:50	CMLHS6	B	30	N			
		WED	10:00-10:50	X-BK-06	L	30	N			
			11:00-11:50	X-BK-06	L	30	N			
	11G	MON	14:00-14:50	CMLHS6	B	30	N	01668 - FIBMF		
			15:00-15:50	CMLHS6	B	30	N			
		THU	14:00-14:50	X-BK-06	L	30	N			
			15:00-15:50	X-BK-06	L	30	N			

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE		UHL2412	ENGLISH FOR ACADEMIC COMMUNICATION	SEM 1 18/19	12G	MON	16:00-16:50	CMLHS6	B	30	N	01312 - RABA		
								17:00-17:50	CMLHS6	B	30	N			
							THU	16:00-16:50	X-BK-06	L	30	N			
								17:00-17:50	X-BK-06	L	30	N			
						13G	THU	08:00-08:50	X-BK-06	L	30	N	0122 - ABK		
								09:00-09:50	X-BK-06	L	30	N			
							TUE	08:00-08:50	CMLHS6	B	30	N			
								09:00-09:50	CMLHS6	B	30	N			
						14G	THU	10:00-10:50	X-BK-06	L	30	N	01668 - FIBMF		
								11:00-11:50	X-BK-06	L	30	N			
							TUE	10:00-10:50	CMLHS6	B	30	N			
								11:00-11:50	CMLHS6	B	30	N			
						15G	FRI	08:00-08:50	X-BK-06	L	30	N	0122 - ABK		
								09:00-09:50	X-BK-06	L	30	N			
							TUE	14:00-14:50	CMLHS6	B	30	N			
								15:00-15:50	CMLHS6	B	30	N			
						16G	FRI	10:00-10:50	X-BK-06	L	30	N	0122 - ABK		
								11:00-11:50	X-BK-06	L	30	N			
							TUE	16:00-16:50	CMLHS6	B	30	N			
								17:00-17:50	CMLHS6	B	30	N			
						17G	THU	10:00-10:50	X-BK-08	L	30	N	01312 - RABA		
								11:00-11:50	X-BK-08	L	30	N			
							TUE	10:00-10:50	CMLHS7	B	30	N			
								11:00-11:50	CMLHS7	B	30	N			
			UHL2422	ENGLISH FOR TECHNICAL COMMUNICATION											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE		UHL2422	ENGLISH FOR TECHNICAL COMMUNICATION	The course is designed for technical communication relevant to academic and professional purposes. It provides opportunities for students to learn and employ language skills and strategies appropriate to written and spoken technical communication for professional audiences. In the course, students are required to listen to, evaluate organize, present and write technical information. The contents of this course consist of, but not limited to, technical descriptions, technical processes and procedures feasibility and recommendation reports. Additionally, students have the advantage to collaborate in teams while performing activites assigned to them. Students are encouraged to benefit in language learning when they engage in self-access actvities.	*This subject is equivalent with UHL2322 Technical Writing. Mulai semester I sesi 2012/2013.

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01G	MON	08:00-08:50	X-BK-01	L	30	N	0209 - AABM		UHL2312 UHL2412
			09:00-09:50	X-BK-01	L	30	N			
		WED	08:00-08:50	CMLHS1	B	30	N			
			09:00-09:50	CMLHS1	B	30	N			
	02G	MON	10:00-10:50	X-BK-01	L	30	N	0209 - AABM		
			11:00-11:50	X-BK-01	L	30	N			
		WED	10:00-10:50	CMLHS1	B	30	N			
			11:00-11:50	CMLHS1	B	30	N			
	03G	MON	14:00-14:50	X-BK-01	L	30	N	0048 - NABAA		
			15:00-15:50	X-BK-01	L	30	N			
		THU	14:00-14:50	CMLHS1	B	30	N			
			15:00-15:50	CMLHS1	B	30	N			
	04G	MON	16:00-16:50	X-BK-01	L	30	N	2391 - ANBMN		
			17:00-17:50	X-BK-01	L	30	N			
		THU	16:00-16:50	CMLHS1	B	30	N			
			17:00-17:50	CMLHS1	B	30	N			
	05G	THU	08:00-08:50	CMLHS1	B	30	N	0048 - NABAA		
			09:00-09:50	CMLHS1	B	30	N			
		TUE	08:00-08:50	X-BK-01	L	30	N			
			09:00-09:50	X-BK-01	L	30	N			
	06G	THU	10:00-10:50	CMLHS1	B	30	N	01729 - NBMI		
			11:00-11:50	CMLHS1	B	30	N			
		TUE	10:00-10:50	X-BK-01	L	30	N			
			11:00-11:50	X-BK-01	L	30	N			
	07G	FRI	08:00-08:50	CMLHS1	B	30	N	01729 - NBMI		
			09:00-09:50	CMLHS1	B	30	N			
		TUE	14:00-14:50	X-BK-01	L	30	N			
			15:00-15:50	X-BK-01	L	30	N			
	08G	FRI	10:00-10:50	CMLHS1	B	30	N	0209 - AABM		
			11:00-11:50	CMLHS1	B	30	N			
		TUE	16:00-16:50	X-BK-01	L	30	N			
			17:00-17:50	X-BK-01	L	30	N			
	09G	MON	08:00-08:50	X-BK-05	L	30	N	01621 - NBY		
			09:00-09:50	X-BK-05	L	30	N			
		WED	08:00-08:50	CMLHS2	B	30	N			
			09:00-09:50	CMLHS2	B	30	N			
	10G	MON	10:00-10:50	X-BK-05	L	30	N	01384 - FLBAA		
			11:00-11:50	X-BK-05	L	30	N			
		WED	10:00-10:50	CMLHS2	B	30	N			
			11:00-11:50	CMLHS2	B	30	N			
	11G	MON	14:00-14:50	X-BK-05	L	30	N	01697 - AZBMA		
			15:00-15:50	X-BK-05	L	30	N			
		THU	14:00-14:50	CMLHS2	B	30	N			
			15:00-15:50	CMLHS2	B	30	N			

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE		UHL2422	ENGLISH FOR TECHNICAL COMMUNICATION	SEM 1 18/19	12G	MON	16:00-16:50	X-BK-05	L	30	N	01697 - AZBMA		
								17:00-17:50	X-BK-05	L	30	N			
							THU	16:00-16:50	CMLHS2	B	30	N			
								17:00-17:50	CMLHS2	B	30	N			
						13G	THU	08:00-08:50	CMLHS2	B	30	N	01803 - SBH		
								09:00-09:50	CMLHS2	B	30	N			
							TUE	08:00-08:50	X-BK-05	L	30	N			
								09:00-09:50	X-BK-05	L	30	N			
						14G	THU	10:00-10:50	CMLHS2	B	30	N	01384 - FLBAA		
								11:00-11:50	CMLHS2	B	30	N			
							TUE	10:00-10:50	X-BK-05	L	30	N			
								11:00-11:50	X-BK-05	L	30	N			
						15G	FRI	08:00-08:50	CMLHS2	B	30	N	01384 - FLBAA		
								09:00-09:50	CMLHS2	B	30	N			
							TUE	14:00-14:50	X-BK-05	L	30	N			
								15:00-15:50	X-BK-05	L	30	N			
						16G	FRI	10:00-10:50	CMLHS2	B	30	N	0405 - WJBF		
								11:00-11:50	CMLHS2	B	30	N			
							TUE	16:00-16:50	X-BK-05	L	30	N			
								17:00-17:50	X-BK-05	L	30	N			
						17G	MON	08:00-08:50	X-BK-02	L	30	N	0405 - WJBF		
								09:00-09:50	X-BK-02	L	30	N			
							WED	08:00-08:50	CMLHS7	B	30	N			
								09:00-09:50	CMLHS7	B	30	N			
						18G	MON	10:00-10:50	X-BK-02	L	30	N	0405 - WJBF		
								11:00-11:50	X-BK-02	L	30	N			
							WED	10:00-10:50	CMLHS7	B	30	N			
								11:00-11:50	CMLHS7	B	30	N			
						19G	MON	14:00-14:50	X-BK-02	L	30	N	01384 - FLBAA		
								15:00-15:50	X-BK-02	L	30	N			
							THU	14:00-14:50	CMLHS12	B	30	N			
								15:00-15:50	CMLHS12	B	30	N			
			UHL2432	ENGLISH FOR PROFESSIONAL COMMUNICATION											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE		UHL2432	ENGLISH FOR PROFESSIONAL COMMUNICATION	The course is designed to develop students¿ spoken and written communication skills effectively. This is vital in helping them to enter the job market and preparing them for workplace. Students will enhance their language skills via learning activities that incorporate communication strategies, interactions and feedback. The learning activities include, but not limited to, carrying out presentations, attending mock-job interviews and conducting meetings.	This subject is equivalent with UHL2332 Academic Report Writing. Mulai semester I sesi 2012/2013. Starting Sem II 2015/2016, Only the following students can register for this course : * Student who are in Sem 5 and above * Direct Entry - sem 4 above

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01G	MON	08:00-08:50	X-BK-06	L	30	N	0152 - NABNMA		UHL2322 UHL2422
			09:00-09:50	X-BK-06	L	30	N			
		WED	08:00-08:50	CMLHS5	B	30	N			
			09:00-09:50	CMLHS5	B	30	N			
	02G	MON	10:00-10:50	X-BK-06	L	30	N	0395 - SKAS		
			11:00-11:50	X-BK-06	L	30	N			
		WED	10:00-10:50	CMLHS5	B	30	N			
			11:00-11:50	CMLHS5	B	30	N			
	03G	MON	14:00-14:50	X-BK-06	L	30	N	01803 - SBH		
			15:00-15:50	X-BK-06	L	30	N			
		THU	14:00-14:50	CMLHS5	B	30	N			
			15:00-15:50	CMLHS5	B	30	N			
	04G	MON	16:00-16:50	X-BK-06	L	30	N	01803 - SBH		
			17:00-17:50	X-BK-06	L	30	N			
		THU	16:00-16:50	CMLHS5	B	30	N			
			17:00-17:50	CMLHS5	B	30	N			
	05G	THU	08:00-08:50	CMLHS5	B	30	N	0690 - MBR		
			09:00-09:50	CMLHS5	B	30	N			
		TUE	08:00-08:50	X-BK-06	L	30	N			
			09:00-09:50	X-BK-06	L	30	N			
	06G	THU	10:00-10:50	CMLHS5	B	30	N	0276 - FBA		
			11:00-11:50	CMLHS5	B	30	N			
		TUE	10:00-10:50	X-BK-06	L	30	N			
			11:00-11:50	X-BK-06	L	30	N			
	07G	FRI	08:00-08:50	CMLHS5	B	30	N	0656 - NSBS		
			09:00-09:50	CMLHS5	B	30	N			
		TUE	14:00-14:50	X-BK-06	L	30	N			
			15:00-15:50	X-BK-06	L	30	N			
	08G	FRI	10:00-10:50	CMLHS5	B	30	N	0656 - NSBS		
			11:00-11:50	CMLHS5	B	30	N			
		TUE	16:00-16:50	X-BK-06	L	30	N			
			17:00-17:50	X-BK-06	L	30	N			
	09G	MON	08:00-08:50	X-BK-08	L	30	N	0690 - MBR		
			09:00-09:50	X-BK-08	L	30	N			
		WED	08:00-08:50	CMLHS6	B	30	N			
			09:00-09:50	CMLHS6	B	30	N			
	10G	MON	10:00-10:50	X-BK-08	L	30	N	01803 - SBH		
			11:00-11:50	X-BK-08	L	30	N			
		WED	10:00-10:50	CMLHS6	B	30	N			
			11:00-11:50	CMLHS6	B	30	N			
	11G	MON	14:00-14:50	X-BK-08	L	30	N	0017 - AHB I		
			15:00-15:50	X-BK-08	L	30	N			
		THU	14:00-14:50	CMLHS6	B	30	N			
			15:00-15:50	CMLHS6	B	30	N			

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis									Exam Schedule	Remark
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff		Pre-Requisite
GAMBANG	DEGREE		UHL2432	ENGLISH FOR PROFESSIONAL COMMUNICATION	SEM 1 18/19	12G	MON	16:00-16:50	X-BK-08	L	30	N	0690 - MBR		
								17:00-17:50	X-BK-08	L	30	N			
							THU	16:00-16:50	CMLHS6	B	30	N			
								17:00-17:50	CMLHS6	B	30	N			
						13G	THU	08:00-08:50	CMLHS6	B	30	N	0395 - SKAS		
								09:00-09:50	CMLHS6	B	30	N			
							TUE	08:00-08:50	X-BK-08	L	30	N			
								09:00-09:50	X-BK-08	L	30	N			
						14G	THU	10:00-10:50	CMLHS6	B	30	N	0395 - SKAS		
								11:00-11:50	CMLHS6	B	30	N			
							TUE	10:00-10:50	X-BK-08	L	30	N			
								11:00-11:50	X-BK-08	L	30	N			
						15G	FRI	08:00-08:50	CMLHS6	B	30	N	0017 - AHB I		
								09:00-09:50	CMLHS6	B	30	N			
							TUE	14:00-14:50	X-BK-08	L	30	N			
								15:00-15:50	X-BK-08	L	30	N			
						16G	FRI	10:00-10:50	CMLHS6	B	30	N	0690 - MBR		
								11:00-11:50	CMLHS6	B	30	N			
							TUE	16:00-16:50	X-BK-08	L	30	N			
								17:00-17:50	X-BK-08	L	30	N			
PEKAN	DEGREE	1	UHF1121	GERMAN FOR BEGINNERS	This course is designed to give students an exposure to German language and culture as similar in German-speaking countries. The course covers the basic language skills of listening, reading, speaking and writing. Lessons are composed of individual and group work, role-play and simulation.										TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016
					SEM 1 18/19	05P	MON	16:00-16:50	BB01R74	B	30	N	01751 - KBAS		
								17:00-17:50	BB01R74	B	30	N			
						06P	TUE	14:00-14:50	BB01R74	B	30	N	01751 - KBAS		
								15:00-15:50	BB01R74	B	30	N			
						07P	WED	10:00-10:50	BB01R124	B	30	N	01751 - KBAS		
								11:00-11:50	BB01R124	B	30	N			
						08P	THU	14:00-14:50	BB01R124	B	30	N	01751 - KBAS		
								15:00-15:50	BB01R124	B	30	N			
		1	UHM2022	ETHNIC RELATIONS	Kursus ini membincangkan konsep asas, latarbelakang dan realiti sosial masa kini hubungan etnik di Malaysia dari perspektif kesepaduan sosial. Tujuan kursus iniialah memberikan kesedaran dan penghayatan dalam mengurus kepelbagaian ke arah pengukuhan negara bangsa. Pengajaran dan pembelajaran akan dilaksanakan dalam bentuk pembalajaran berasaskan pengalaman melalui aktiviti individu, berpasukan dan semangat kesukarelaan. Di akhir kursusini, pelajar diharapkan dapat mengamalkan nilai-nilai murni, mempunyai jati diri kebangsaan dan menerima kepelbagaian sosio-buday etnik-etnik di Malaysia.										* Effective Semester I 2016/2017, All International Student must register UHE3182 Malaysian Studies for replace UHM2022 Ethnic Relation.
					SEM 1 18/19	13P	MON	08:00-08:50	BB03R76	L	35	Y	0057 - HBH	31/12/2018 - PM	
								09:00-09:50	BB03R76	L	35	Y			
						14P	MON	14:00-14:50	BB03R76	L	35	Y	0895 - HBH		
								15:00-15:50	BB03R76	L	35	Y			
						15P	TUE	10:00-10:50	BB03R76	L	35	Y	0286 - JRBR		
								11:00-11:50	BB03R76	L	35	Y			
						16P	TUE	16:00-16:50	BB03R76	L	35	Y	0197 - FBL		
								17:00-17:50	BB03R76	L	35	Y			
						17P	WED	08:00-08:50	BB03R76	L	35	Y	01349 - ABI		
								09:00-09:50	BB03R76	L	35	Y			
						18P	THU	10:00-10:50	BB03R76	L	35	Y	01349 - ABI		
								11:00-11:50	BB03R76	L	35	Y			
						19P	THU	16:00-16:50	BB03R76	L	35	Y	0895 - HBH		
								17:00-17:50	BB03R76	L	35	Y			

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE	1	**UHR1012**	**ISLAMIC AND ASIAN CIVILISATIONS 1**	This course is designed to equip students with deeper understanding about Islamic and Asian civilizations particularly those civilizations which have formed the foundation of Malaysia, i.e. Malay, Indian and Chinese civilizations. The course discusses vast aspects of civilization building; including its theory, characteristics and factors. It concerns about the studies of universal values promoted the civilizations. In addition, some contemporary civilization issues particularly the domination of Western civilization, are also being discussed. In general, the philosophy of the course is to develop students to be individuals who have positive values in multi-racial world nowadays.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	13P	MON	10:00-10:50	BB03R95	L	35	Y	0569 - AIBIH	31/12/2018 - AM	
			10:00-10:50	BB03R97	L	35	Y			
			11:00-11:50	BB03R95	L	35	Y			
			11:00-11:50	BB03R97	L	35	Y			
	14P	MON	14:00-14:50	BB03R95	L	35	Y	2291 - MMKA		
			14:00-14:50	BB03R97	L	35	Y			
			15:00-15:50	BB03R95	L	35	Y			
			15:00-15:50	BB03R97	L	35	Y			
	15P	TUE	08:00-08:50	BB03R95	L	35	Y	0590 - AFBMZA		
			08:00-08:50	BB03R97	L	35	Y			
			09:00-09:50	BB03R95	L	35	Y			
			09:00-09:50	BB03R97	L	35	Y			
	16P	TUE	14:00-14:50	BB03R95	L	35	Y	2291 - MMKA		
			14:00-14:50	BB03R97	L	35	Y			
			15:00-15:50	BB03R95	L	35	Y			
			15:00-15:50	BB03R97	L	35	Y			
	17P	WED	10:00-10:50	BB03R95	L	35	Y	0433 - MHBMS		
			10:00-10:50	BB03R97	L	35	Y			
			11:00-11:50	BB03R95	L	35	Y			
			11:00-11:50	BB03R97	L	35	Y			
	18P	THU	08:00-08:50	BB03R95	L	35	Y	0083 - MBS		
			08:00-08:50	BB03R97	L	35	Y			
			09:00-09:50	BB03R95	L	35	Y			
			09:00-09:50	BB03R97	L	35	Y			
	19P	THU	10:00-10:50	BB03R95	L	35	Y	01492 - MBI		
			10:00-10:50	BB03R97	L	35	Y			
			11:00-11:50	BB03R95	L	35	Y			
			11:00-11:50	BB03R97	L	35	Y			

Campus	Level	Year	Code	Course Name
		1	**UHS1021**	**SOFT SKILLS 1**

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**UHS1021**	**SOFT SKILLS 1**	This course exposes students to Soft Skills which are non-job specific skills that can be used in different occupations. This module aims at creating the sense of awareness and responsibilities as UMP students in nurturing well-rounded personalities. This could be developed though the seven elements which are leadership, teamwork, communication, critical thinking and problem solving, life-long learning, entrepreneurship, and ethics and moral skills. Students could develop these skills through course work, internships, voluntary jobs and life experiences. Hence, allowing students to enhance their marketability nationality.										TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016
					SEM 1 18/19	11P	MON	10:00-10:50	BB03R76	L	35	N	0083 - MBS		
								11:00-11:50	BB03R76	L	35	N			
						12P	MON	16:00-16:50	BB03R76	L	35	N	01349 - ABI		
								17:00-17:50	BB03R76	L	35	N			
						13P	TUE	08:00-08:50	BB03R76	L	35	N	0369 - ABAR		
								09:00-09:50	BB03R76	L	35	N			
						14P	WED	10:00-10:50	BB03R76	L	35	N	01349 - ABI		
								11:00-11:50	BB03R76	L	35	N			
						15P	THU	10:00-10:50	BB03R91	L	35	N	0369 - ABAR		
								10:00-10:50	BB03R93	L	35	N			
								11:00-11:50	BB03R91	L	35	N			
								11:00-11:50	BB03R93	L	35	N			
						16P	THU	14:00-14:50	BB03R76	L	35	N	0083 - MBS		
								15:00-15:50	BB03R76	L	35	N			
						17P	FRI	10:00-10:50	BB03R76	L	35	N	01349 - ABI		
								11:00-11:50	BB03R76	L	35	N			
		2	**UHF1111**	**MANDARIN FOR BEGINNERS**	The course aims to enable students to speak simple Mandarin in their daily life. The students will learn Chinese Phonetics (Hanyu Pinyin System) and about 150 vobabulary that suggested based on Chinese Proficiency Test (Hanyu Shuiping Kaoshi HSK) Level One. Students will be exposed to simple phrases and basic sentence structures. Classroom activities will include listening, speaking, reading and writing. Practices that based on HSK Level One grammar point are also introduced. The students will be evaluated based on four language skills-listening, speaking, reading and writing.										TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016
					SEM 1 18/19	11P	MON	08:00-08:50	BB01R74	B	30	N	2414 - TWC		
								09:00-09:50	BB01R74	B	30	N			
						12P	TUE	08:00-08:50	BB01R122	B	30	N	2414 - TWC		
								09:00-09:50	BB01R122	B	30	N			
						13P	TUE	10:00-10:50	BB01R74	B	30	N	2414 - TWC		
								11:00-11:50	BB01R74	B	30	N			
						14P	THU	16:00-16:50	BB01R74	B	30	N	2414 - TWC		
								17:00-17:50	BB01R74	B	30	N			
		2	**UHS2021**	**SOFT SKILLS 2**											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	UHS2021	SOFT SKILLS 2	This course is the extension of Soft Skills 1 (UHS1021). It focuses on the dynamic and integrated approach required by the industry through coaching and mentoring, change management, critical thinking and problem solving, ethic and moral for professional, communications skills and project closure. In the end, students will be more competent, competitive and prepare to venture the workplace challenges.										TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016 Starting Sem II 2015/2016, Only the following students can register for this course : * Student who are in Sem 5 and above * Direct Entry - sem 4 above * completed 60 credit
					SEM 1 18/19	09P	MON	08:00-08:50	BB03R91	L	60	N	0415 - IBA		UHS1011 UHS1021
								08:00-08:50	BB03R93	L	60	N			
								09:00-09:50	BB03R91	L	60	N			
								09:00-09:50	BB03R93	L	60	N			
						10P	WED	10:00-10:50	BB03R91	L	60	N	0415 - IBA		
								10:00-10:50	BB03R93	L	60	N			
								11:00-11:50	BB03R91	L	60	N			
								11:00-11:50	BB03R93	L	60	N			
						11P	THU	14:00-14:50	BB03R91	L	60	N	0415 - IBA		
								14:00-14:50	BB03R93	L	60	N			
								15:00-15:50	BB03R91	L	60	N			
								15:00-15:50	BB03R93	L	60	N			
						12P	TUE	14:00-14:50	BB03R91	L	60	N	0415 - IBA		
								14:00-14:50	BB03R93	L	60	N			
								15:00-15:50	BB03R91	L	60	N			
								15:00-15:50	BB03R93	L	60	N			
		3	UHE3022	CRITICAL THINKING THROUGH LITERATURE	This course aims to use literature as a subject matter that will be explored through the use of various activities which engage students' critical thinking skills. it will introduce representative literary genres: poetry, short story, popular culture, drama and play. This course is suitable for students who are interested in literature and in developing strong critical thinking skills as it guides students toward a greater understanding and appreciation of literature in connection with their own lives.										
					SEM 1 18/19	02P	WED	12:00-12:50	BB01R124	L	30	N	01871 - HBZ		
								13:00-13:50	BB01R124	L	30	N			
		3	UHE3032	INTRODUCTION TO HUMAN BEHAVIOUR	This course is designed to expose students to the basic concepts and major aspects of psychology that related to human behavior. It discusses the part of human being (physical, mental, spiritual and emotion) from various perspectives. It also emphasizes on the application of psychology in diverse human activities. In general, the philosophy of this course is to provide students with correct ways of understanding their behaviour as well as others.										
					SEM 1 18/19	01P	TUE	12:00-12:50	BB03R91	L	40	N	0590 - AFBMZA		
								12:00-12:50	BB03R93	L	40	N			
								13:00-13:50	BB03R91	L	40	N			
								13:00-13:50	BB03R93	L	40	N			
		3	UHE3062	MALAYSIA: THE IMPACT OF GLOBALIZATION	This course discusses the influence and impact of globalization on Malaysia and international relations. The influence highlighted will be in the perspective of politics, economics, social and culture. The contemporary issues and challenges related to the globalizational impact in Malaysia and other countries are also discussed. In general, the philosophy of the course is to facilitate borderless thinking among the students about the globalization impact towards human and environmental aspects.										
					SEM 1 18/19	02P	THU	12:00-12:50	BB03R95	L	40	N	0065 - MABMA		
								12:00-12:50	BB03R97	L	40	N			
								13:00-13:50	BB03R95	L	40	N			
								13:00-13:50	BB03R97	L	40	N			
		3	UHE3082	CREATIVE WRITING	This course aims to foster a better understanding of the craft of writing and to instill an appreciation of										

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	UHE3082	CREATIVE WRITING	what goes into producing readable, publishable and engrossing fiction. It encourages the integral first steps towards writing creatively by tapping students' writing potentials to write clearly with imagination. It also exposes students to the beauty of written language and the mechanics of descriptive writing using figurative language and critical thinking skills.Students will explore the creative process through writing, expand and refine vocabulary and style resources, analyse a piece of writing, reinforce process writing, delve into sceenplay writing and make a short film.										
					SEM 1 18/19	02P	THU	12:00-12:50	BB01R126	L	30	N	0230 - NBO		
								13:00-13:50	BB01R126	L	30	N			
		3	UHE3092	ENGLISH MECHANICS	The course primarily aims to develop a greater understanding of the English mechanics which includes grammar, sentence structure, word formation and order, spelling, capitalisation and punctuation. Students will be exposed to these aspects in written language to strengthen their communication skills.										
					SEM 1 18/19	02P	TUE	12:00-12:50	BB01R126	L	30	N	01487 - SNBAM		
								13:00-13:50	BB01R126	L	30	N			
		3	UHE3142	PROJECT-BASED PROPOSAL WRITING	The course is designed to develop students' ability in writing a project-based proposal with regard to their final year engineering undergraduate research project (URP) or Projek Sarjana Muda (PSM). Students will be introduced to proposal writing in which emphasis is placed on academic writing conventions in writing Introduction, Literature Review and Methodology chapters. Grammar is implicitly embedded into the teaching and learning process. In addition, students will also be exposed to elements of citation techniques and referencing in order to avoid plagiarism.									*This subject is Prerequisites with UHL2422 English for Technical Communication effective Sem I 2015/2016	
					SEM 1 18/19	02P	THU	12:00-12:50	BB01R124	L	30	N	0133 - NBS		UHL3002 UHL2332 UHL2422
								13:00-13:50	BB01R124	L	30	N			
		3	UHF1131	JAPANESE FOR BEGINNERS	As the main aim of this course is basic communicative competence, learning in the classroom will be based on language tasks which students are likely to perform in real life, either in their native country or in Japan. Students will be equipped with basic communicative competence in the aspects of self-development, knowledge acquisition and social interaction.									TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016	
					SEM 1 18/19	05P	MON	10:00-10:50	BB01R76	B	30	N	01126 - SBA		
								11:00-11:50	BB01R76	B	30	N			
						06P	TUE	08:00-08:50	BB01R74	B	30	N	01126 - SBA		
								09:00-09:50	BB01R74	B	30	N			
						07P	WED	10:00-10:50	BB01R74	B	30	N	01126 - SBA		
								11:00-11:50	BB01R74	B	30	N			
						08P	THU	14:00-14:50	BB01R74	B	30	N	01126 - SBA		
								15:00-15:50	BB01R74	B	30	N			
		3	UHF1141	ARABIC FOR BEGINNERS	This course focuses on basic Arabic communicative skills.Learning in the classroom will be based on language tasks that students can use in their real life include greeting, introducing oneself, reporting time and etc. Students will be equipped with basic Arabic communicative skills such as speaking and listening and will also learn how to write simple sentences in Arabic.									TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016	
					SEM 1 18/19	09P	MON	08:00-08:50	BB01R122	B	30	N	01159 - MBBH		
								09:00-09:50	BB01R122	B	30	N			
						10P	MON	14:00-14:50	BB01R122	B	30	N	01159 - MBBH		
								15:00-15:50	BB01R122	B	30	N			
						11P	TUE	10:00-10:50	BB01R122	B	30	N	01590 - FHBA		
								11:00-11:50	BB01R122	B	30	N			
						12P	TUE	16:00-16:50	BB01R122	B	30	N	01590 - FHBA		
								17:00-17:50	BB01R122	B	30	N			
						13P	WED	08:00-08:50	BB01R122	B	30	N	01590 - FHBA		
								09:00-09:50	BB01R122	B	30	N			

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE	3	**UHF1151**	**SPANISH FOR BEGINNERS**	The main aim of this subject is to introduce students to the Spanish language. Students will learn Spanish alphabets and basic sentence structures. They are expected to be able to speak simple spanish in selected situation and also read and write in spanish. Classroom activities will include listening and speaking skill practices, reading and also writing skill are given to enhance the oral skills. Practice on certain basic grammar is also introduced. The students will be evaluated on all four language skills-listening, speaking, reading and writing.	TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	03P	MON	16:00-16:50	BB01R124	B	30	N	01485 - ABMA		
			17:00-17:50	BB01R124	B	30	N			
	04P	FRI	08:00-08:50	BB01R124	B	30	N	01485 - ABMA		
			09:00-09:50	BB01R124	B	30	N			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		3	**UHF1161**	**MALAY FOR BEGINNERS**	The main aims of this subject is to introduce international students of the Malay language. Students will learn Malay alphabets and basic sentence structures. To expose students speak simple Malay in selected situation and also read and write in Malay classrooms activities includes listening, speaking,reading and writing. Practice on certain basic grammar are also introduce. The students are evaluated in all four language skills that are listening, speaking, reading and writing.	TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	04P	MON	12:00-12:50	BB01R74	B	30	N	01669 - JBBM		
			13:00-13:50	BB01R74	B	30	N			
	05P	TUE	14:00-14:50	BB01R124	B	30	N	01669 - JBBM		
			15:00-15:50	BB01R124	B	30	N			
	06P	FRI	08:00-08:50	BB01R74	B	30	N	01669 - JBBM		
			09:00-09:50	BB01R74	B	30	N			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		3	**UHF2111**	**MANDARIN FOR INTERMEDIATE**	The course aims to expose students to speak Mandarin in selected situations which include asking for directions, travelling, foods and etc. The students will continue to practice the use of Chinese Phonetics (Hanyu Pinyin System). They will also learn about 300 vocabulary and expected to use of simple Chinese phrases and sentences suggested based on Chinese Proficiency Test (Hanyu Shuiping Kaoshi HSK) Level Two. Classroom activities will focus on language skills practices--listening, speaking, reading and writing. Practices that based on HSK Level Two grammar pointed is also introduced. Students will be evaluated based on the four language skills namely listening, speaking, reading and writing.	TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	11P	MON	14:00-14:50	BB01R74	B	30	N	2414 - TWC		UHF1111 UHF1**1
			15:00-15:50	BB01R74	B	30	N			
	12P	WED	10:00-10:50	BB01R76	B	30	N	2414 - TWC		
			11:00-11:50	BB01R76	B	30	N			
	13P	THU	08:00-08:50	BB01R124	B	30	N	2414 - TWC		
			09:00-09:50	BB01R124	B	30	N			
	14P	THU	10:00-10:50	BB01R74	B	30	N	2414 - TWC		
			11:00-11:50	BB01R74	B	30	N			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		3	**UHF2121**	**GERMAN FOR INTERMEDIATE**	German For Intermediate is a continuation course and intended for students who have successfully completed German For Beginners (UHF1121). This course is designed to reinforce and expand their command over grammatical structures, sharpen reading, writing, speaking, and listening skills, and gain a better understanding of the cultures of the German-speaking world.	TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	05P	FRI	10:00-10:50	BB01R74	B	30	N	01751 - KBAS		UHF1121 UHF1**1
			11:00-11:50	BB01R74	B	30	N			
	06P	MON	14:00-14:50	BB01R124	B	30	N	01751 - KBAS		
			15:00-15:50	BB01R124	B	30	N			
	07P	TUE	10:00-10:50	BB01R124	B	30	N	01751 - KBAS		
			11:00-11:50	BB01R124	B	30	N			
	08P	TUE	16:00-16:50	BB01R74	B	30	N	01751 - KBAS		
			17:00-17:50	BB01R74	B	30	N			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		3	**UHF2131**	**JAPANESE FOR INTERMEDIATE**	The course aims to expose students to speak Japanese in selected situations which include asking for	TUKAR KE GRED MULAI SEMESTER I

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**UHF2131**	**JAPANESE FOR INTERMEDIATE**	directions, travelling, food and etc. The students will continue to practise the use of Japanese Phonetics. They will also learn additional selected words, common verbs and are expected to be able to write simple sentences. Classroom activities will focus on language skills practices; listening, speaking, reading and writing. Students will be evaluated on the four language skills namely listening, speaking, reading and writing.									SESI 2015/2016	
					SEM 1 18/19	05P	TUE	14:00-14:50	BB01R76	B	30	N	01126 - SBA		UHF1131
								15:00-15:50	BB01R76	B	30	N			UHF1**1
						06P	WED	08:00-08:50	BB01R74	B	30	N	01126 - SBA		
								09:00-09:50	BB01R74	B	30	N			
						07P	THU	08:00-08:50	BB01R74	B	30	N	01126 - SBA		
								09:00-09:50	BB01R74	B	30	N			
						08P	FRI	10:00-10:50	BB01R122	B	30	N	01126 - SBA		
								11:00-11:50	BB01R122	B	30	N			
		3	**UHF2141**	**ARABIC FOR INTERMEDIATE**	The main aim of this subject is to enhance students knowledge in this language. Students will learn to speak the language in selected situations such as the hospital, at the workplace etc., read short passages, and write simple Arabic Language with correct grammar. Calssroom activities focus on the four main skills; listening, speaking, reading, and writing. Practices on certain basic grammar are also introduced. Extensive written exercises give students ample opportunity to put into practice the skills they have learned, enabling them to build up confidence in reading and writing vocalised arabic text.									TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016	
					SEM 1 18/19	09P	MON	10:00-10:50	BB01R122	B	30	N	01159 - MBBH		UHF1141
								11:00-11:50	BB01R122	B	30	N			UHF11*1
						10P	MON	16:00-16:50	BB01R122	B	30	N	01590 - FHBA		UHF1**1
								17:00-17:50	BB01R122	B	30	N			
						11P	TUE	08:00-08:50	BB01R124	B	30	N	01590 - FHBA		
								09:00-09:50	BB01R124	B	30	N			
						12P	TUE	14:00-14:50	BB01R122	B	30	N	01159 - MBBH		
								15:00-15:50	BB01R122	B	30	N			
						13P	WED	10:00-10:50	BB01R122	B	30	N	01590 - FHBA		
								11:00-11:50	BB01R122	B	30	N			
		3	**UHF2151**	**SPANISH FOR INTERMEDIATE**	Spanish For Intermediate is continuation course for students who have succesfully completed Spanish For Beginners(UHF1151). This course is designed to reinforce and expand their command over grammatical structures, improve reading, writing, speaking and listening skills. The students develop intermediate competence in oral and written comprehension and experession of spanish language.									TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016	
					SEM 1 18/19	03P	MON	10:00-10:50	BB01R124	B	30	N	01485 - ABMA		UHF1151
								11:00-11:50	BB01R124	B	30	N			UHF1**1
						04P	FRI	10:00-10:50	BB01R124	B	30	N	01485 - ABMA		
								11:00-11:50	BB01R124	B	30	N			
		3	**UHF2161**	**MALAY FOR INTERMEDIATE**	Malay for Intermediate is continuation course and intended for students who have successfully completed Malay For Beginners (UHF1161). This course is designed to reinforce and expand their command over grammatical structures, sharpen reading, writing, speaking, and listening skills, and gain better understanding of Malay cultures and local wisdom.									TUKAR KE GRED MULAI SEMESTER I SESI 2015/2016	
					SEM 1 18/19	04P	WED	08:00-08:50	BB01R124	B	30	N	01669 - JBBM		UHF1161
								09:00-09:50	BB01R124	B	30	N			UHF1**1
						05P	THU	12:00-12:50	BB01R74	B	30	N	01669 - JBBM		
								13:00-13:50	BB01R74	B	30	N			
						06P	MON	10:00-10:50	BB01R74	B	30	N	01669 - JBBM		
								11:00-11:50	BB01R74	B	30	N			
			UHE3132	**PUBLIC SPEAKING**	The course aims to introduce students to the speech planning process. Students will be exposed to two varieties of public speaking, namely informative speaking and persuasive speaking. Students will learn how to select a topic, gather materials and supporting points, organise the body of the speech, prepare an									MULAI SEMESTER 2 SESI 2011/2012	

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		UHE3132	PUBLIC SPEAKING	outline and deliver the speech. Sample speeches and videos will be shown to enhance students¿ understanding of the course. Students will also be exposed to the used of technology in preparing and delivering their speeches.										
					SEM 1 18/19	02P	TUE	12:00-12:50	BB01R124	B	30	N	0617 - AABAR		
								13:00-13:50	BB01R124	B	30	N			
			UHE3162	FAMILY SYSTEM IN ISLAM	This course is designed to equip students with a deeper understanding of basic family management in Islam. It covers the concept of marriage in Islam including pre and post marriage management and laws according to Imam Shafie school of thought. However, a comparative mazahib (school of thoughts) discussion will also be covered in certain issues as well as contemporary local laws. The course also discusses contemporary issues that are related to this topic such as gamophobia, rulings on foster child and others.										
					SEM 1 18/19	01P	WED	12:00-12:50	BB03R95	L	40	N	0433 - MHBMS		
								12:00-12:50	BB03R97	L	40	N			
								13:00-13:50	BB03R95	L	40	N			
								13:00-13:50	BB03R97	L	40	N			
			UHE3182	MALAYSIAN STUDIES	This course discusses history and politic, Malaysian Constitution, system and structure of administration, society and national unity, national development and religion and belief in Malaysia. This course aims to produce graduates who have a national identity and a spirit of patriotism. Teaching and learning will be carried out in the form of lectures, assignments, test and learning experiences.										*MULAI SEMESTER II SESI 2014/2015 ** Effective Semester I 2016/2017, All International Student must register UHE3182 Malaysian Studies for replace UHM2022 Ethnic Relation
					SEM 1 18/19	03P	MON	12:00-12:50	BB03R76	L	40	N	0057 - HBH		
								13:00-13:50	BB03R76	L	40	N			
			UHE3192	FUNDAMENTAL IBADAH IN ISLAM	This course is designed to equip students with a deeper understanding on basic principles of Islamic Jurisprudence and its application in fundamental ritual of worship in Islam. It covers the contemporary issue and study according to Shafie school of thought that commonly will be encountered by professionals in their working surrounding. Students will also learn contemporary ijtihad (Islamic scholars' opinions) on the current issues of modern lifestyles. In general, the philosophy of the course is to develop students to become more knowledgeable on the basic of Islamic teaching which is very vital in shaping a spiritually strong individual.										MULAI SEMESTER II SESI 2014/2015
					SEM 1 18/19	02P	TUE	12:00-12:50	BB03R76	L	40	N	0569 - AIBIH		
								13:00-13:50	BB03R76	L	40	N			
			UHE3202	INTRODUCTION TO HALAL STUDIES	This course is designed to equip students with basic understanding of halal and the halal administration particularly in Malaysia. Therefore, the subject covers the study of shariah-based halal principles and requirements pertaining to halal as stipulated in the halal authority guidelines. The course also discusses the current administration of halal especially on the Malaysian Halal Certificate and its enforcement. Student will also be exposed to an academic project on halal application in the food and non-food industry. In addition, some contemporary issues related to halal regionally and globally will be discussed as well as exposure to halal act and standards. In general, the aim of the course is to develop students to have knowledge on halal and its specific administration.										MULAI SEMESTER II SESI 2014/2015
					SEM 1 18/19	02P	WED	12:00-12:50	BB03R91	L	40	N	0658 - HBA		
								12:00-12:50	BB03R93	L	40	N			
								13:00-13:50	BB03R91	L	40	N			
								13:00-13:50	BB03R93	L	40	N			
			UHE3212	GLOBAL COMPETENCIES	Global competence refers to the acquisition of in-depth knowledge and understanding of international issues, an appreciation of and ability to learn and work with people from diverse linguistic and cultural backgrounds, proficiency in a foreign language, and skills to function productively in an interdependent world community. This definition contains four basic elements: a. International awareness b. Appreciation of cultural diversity c. Proficiency in foreign languages d. Competitive skills										DITAWARKAN MULAI SESI 2016/2017

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		**UHE3212**	**GLOBAL COMPETENCIES**	The overall aim of this course is to develop students' intercultural awareness and competence in order to enable them to better reflect on their own roles and ability to initiate change in professional situations. It is also to provide the students with a critical understanding of issues relating to cultural identity, cultural difference and cultural diversity. Acquiring intercultural competence is both a cognitive and an affective process and its a long-term process during which the student must understand the relativity of all beliefs, values and behavior practice all over the world. The students should be able to identify and engaging in any topics of local and global significance.										
					SEM 1 18/19	02P	TUE	08:00-08:50	BB03R91	L	40	N	0286 - JRBR		
								08:00-08:50	BB03R93	L	40	N			
								09:00-09:50	BB03R91	L	40	N			
								09:00-09:50	BB03R93	L	40	N			
			UHE3222	**AL-QURAN MEMORIZATION I**	This course is designed to equip students with a deeper understanding on basic principles of memorizing the Holy Quran. It covers the method of theories how to maintain and strengthen of memorizing as a hafiz. A part of that, students will be given practical training for memorizing from (al-Baqarah verse 1-169). Students will also be trained in theoretical and practical how to express the accurate makhraj of words according to the tajweed rules. In general, the philosophy of the course is to develope students to become more knowledgeable on the bassic of memorizing which is very vital in shaping an individual as a hafiz.									** Ditawarkan mulai Semester II 2017/2018	
					SEM 1 18/19	02P	MON	08:00-08:50	BB01R128	L	20	N	0573 - RBA		
								09:00-09:50	BB01R128	L	20	N			
			UHF1271	**TURKISH 1**	This course covers pronunciation of Turkish Alphabets and words, the acquision of basic vocabulary, listening, reading, and wrinting skills of simple texts. the course also covers the application of basic grammar in Turkish phrases and sentences.									DITAWARKAN MULAI SESI 2015/2016	
					SEM 1 18/19	02P	MON	08:00-08:50	BB01R124	B	30	N	2279 - FM		
								09:00-09:50	BB01R124	B	30	N			
			UHF2271	**TURKISH 2**	This course cover exercises in more complex vocabulary development, word classes and sentence construction, development of listening, speaking, reading and writing skills in Turkish Language. In addition, writing short compositions, and development of speech skills in conversation.									DITAWARKAN MULAI SESI 2015/2016	
					SEM 1 18/19	02P	MON	12:00-12:50	BB01R124	B	30	N	2279 - FM		UHF1271 UHF1**1 UHF11*1
								13:00-13:50	BB01R124	B	30	N			
			UHL2400	**FUNDAMENTALS OF ENGLISH LANGUAGE**											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE		UHL2400	FUNDAMENTALS OF ENGLISH LANGUAGE	The course is designed to develop skills in using English language effectively. The four language skills; listening, speaking, reading and writing are integrated to strengthen students basic comprehension, vocabulary and grammar skills. This course also emphasizes on improving reading and writing by applying effective strategies which include elements of contextual grammar, active vocabulary building, sentence and paragraph writing. These are fundamentals in providing essential English language skills that are needed in academic environment.	Berkuatkuasa mulai semester I sesi 2012/2013. Passing mark berubah dari 40 kepada 60 mulai sesi 2016/2017.

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	17P	MON	08:00-08:50	BB01R126	B	30	N	01486 - SAJBH		
			09:00-09:50	BB01R126	B	30	N			
		WED	08:00-08:50	BB03R116	L	30	N			
			09:00-09:50	BB03R116	L	30	N			
	18P	MON	10:00-10:50	BB01R126	B	30	N	01871 - HBZ		
			11:00-11:50	BB01R126	B	30	N			
		WED	10:00-10:50	BB03R116	L	30	N			
			11:00-11:50	BB03R116	L	30	N			
	19P	MON	14:00-14:50	BB01R126	B	30	N	01487 - SNBAM		
			15:00-15:50	BB01R126	B	30	N			
		THU	14:00-14:50	BB03R116	L	30	N			
			15:00-15:50	BB03R116	L	30	N			
	20P	MON	16:00-16:50	BB01R126	B	30	N	01487 - SNBAM		
			17:00-17:50	BB01R126	B	30	N			
		THU	16:00-16:50	BB03R116	L	30	N			
			17:00-17:50	BB03R116	L	30	N			
	21P	THU	08:00-08:50	BB03R116	L	30	N	0278 - HBK		
			09:00-09:50	BB03R116	L	30	N			
		TUE	08:00-08:50	BB01R126	B	30	N			
			09:00-09:50	BB01R126	B	30	N			
	22P	THU	10:00-10:50	BB03R116	L	30	N	0278 - HBK		
			11:00-11:50	BB03R116	L	30	N			
		TUE	10:00-10:50	BB01R126	B	30	N			
			11:00-11:50	BB01R126	B	30	N			
	23P	FRI	08:00-08:50	BB03R116	L	30	N	01588 - NNBM		
			09:00-09:50	BB03R116	L	30	N			
		TUE	14:00-14:50	BB01R126	B	30	N			
			15:00-15:50	BB01R126	B	30	N			
	24P	FRI	10:00-10:50	BB03R116	L	30	N	01588 - NNBM		
			11:00-11:50	BB03R116	L	30	N			
		TUE	16:00-16:50	BB01R126	B	30	N			
			17:00-17:50	BB01R126	B	30	N			
	25P	MON	14:00-14:50	BB01R128	B	30	N	01589 - NNFBMR		
			15:00-15:50	BB01R128	B	30	N			
		THU	14:00-14:50	BB03R110	L	30	N			
			15:00-15:50	BB03R110	L	30	N			
	26P	MON	16:00-16:50	BB01R128	B	30	N	01589 - NNFBMR		
			17:00-17:50	BB01R128	B	30	N			
		THU	16:00-16:50	BB03R110	L	30	N			
			17:00-17:50	BB03R110	L	30	N			
	27P	FRI	08:00-08:50	BB03R110	L	30	N	01539 - RBI		
			09:00-09:50	BB03R110	L	30	N			
		TUE	14:00-14:50	BB01R128	B	30	N			
			15:00-15:50	BB01R128	B	30	N			

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
PEKAN	DEGREE		UHL2400	FUNDAMENTALS OF ENGLISH LANGUAGE	SEM 1 18/19	28P	FRI	10:00-10:50	BB03R110	L	30	N	01539 - RBI		
								11:00-11:50	BB03R110	L	30	N			
							TUE	16:00-16:50	BB01R128	B	30	N			
								17:00-17:50	BB01R128	B	30	N			
			UHL2412	ENGLISH FOR ACADEMIC COMMUNICATION											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE		UHL2412	ENGLISH FOR ACADEMIC COMMUNICATION	The course aims to equip students with the four language skills (i.e listening, reading, speaking and writing) and study skills for academic success. The course requires students to read various texts of general topics by incorporating essential reading skills. Study skills such as note-taking and note making techniques, amd active listening skillsa are also emphasised. Students will also be exposed to thesis-support essays and writing styles and organisation appropriate for their level. Additionally, students will be exposed to presentation skills and e-learning platform will also be introduced as part of the course.	This subject is equivalent with UHL2312 Technical English. Mulai semester I sesi 2012/2013

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	18P	MON	08:00-08:50	BB02R71	B	30	N	0133 - NBS		UHL2400
			09:00-09:50	BB02R71	B	30	N			
		WED	08:00-08:50	BB03R102	L	30	N			
			09:00-09:50	BB03R102	L	30	N			
	19P	MON	10:00-10:50	BB02R71	B	30	N	01487 - SNBAM		
			11:00-11:50	BB02R71	B	30	N			
		WED	10:00-10:50	BB03R102	L	30	N			
			11:00-11:50	BB03R102	L	30	N			
	20P	MON	14:00-14:50	BB02R71	B	30	N	01537 - ABAZ		
			15:00-15:50	BB02R71	B	30	N			
		THU	14:00-14:50	BB03R102	L	30	N			
			15:00-15:50	BB03R102	L	30	N			
	21P	MON	16:00-16:50	BB02R71	B	30	N	01458 - AAU		
			17:00-17:50	BB02R71	B	30	N			
		THU	16:00-16:50	BB03R102	L	30	N			
			17:00-17:50	BB03R102	L	30	N			
	22P	THU	08:00-08:50	BB03R102	L	30	N	0133 - NBS		
			09:00-09:50	BB03R102	L	30	N			
		TUE	08:00-08:50	BB02R71	B	30	N			
			09:00-09:50	BB02R71	B	30	N			
	23P	THU	10:00-10:50	BB03R102	L	30	N	01618 - KABAA		
			11:00-11:50	BB03R102	L	30	N			
		TUE	10:00-10:50	BB02R71	B	30	N			
			11:00-11:50	BB02R71	B	30	N			
	24P	FRI	08:00-08:50	BB03R102	L	30	N	01537 - ABAZ		
			09:00-09:50	BB03R102	L	30	N			
		TUE	14:00-14:50	BB02R71	B	30	N			
			15:00-15:50	BB02R71	B	30	N			
	25P	FRI	10:00-10:50	BB03R102	L	30	N	01537 - ABAZ		
			11:00-11:50	BB03R102	L	30	N			
		TUE	16:00-16:50	BB02R71	B	30	N			
			17:00-17:50	BB02R71	B	30	N			
	26P	MON	08:00-08:50	BB02R73	B	30	N	0299 - RBA		
			09:00-09:50	BB02R73	B	30	N			
		WED	08:00-08:50	BB03R110	L	30	N			
			09:00-09:50	BB03R110	L	30	N			
	27P	MON	10:00-10:50	BB02R73	B	30	N	01618 - KABAA		
			11:00-11:50	BB02R73	B	30	N			
		WED	10:00-10:50	BB03R110	L	30	N			
			11:00-11:50	BB03R110	L	30	N			
	28P	THU	08:00-08:50	BB03R110	L	30	N	01458 - AAU		
			09:00-09:50	BB03R110	L	30	N			
		TUE	08:00-08:50	BB02R73	B	30	N			
			09:00-09:50	BB02R73	B	30	N			

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
PEKAN	DEGREE		UHL2412	ENGLISH FOR ACADEMIC COMMUNICATION	SEM 1 18/19	29P	THU	10:00-10:50	BB03R110	L	30	N	01537 - ABAZ		
								11:00-11:50	BB03R110	L	30	N			
							TUE	10:00-10:50	BB02R73	B	30	N			
								11:00-11:50	BB02R73	B	30	N			
			UHL2422	ENGLISH FOR TECHNICAL COMMUNICATION											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE		UHL2422	ENGLISH FOR TECHNICAL COMMUNICATION	The course is designed for technical communication relevant to academic and professional purposes. It provides opportunities for students to learn and employ language skills and strategies appropriate to written and spoken technical communication for professional audiences. In the course, students are required to listen to, evaluate organize, present and write technical information. The contents of this course consist of, but not limited to, technical descriptions, technical processes and procedures feasibility and recommendation reports. Additionally, students have the advantage to collaborate in teams while performing activites assigned to them. Students are encouraged to benefit in language learning when they engage in self-access actvities.	*This subject is equivalent with UHL2322 Technical Writing. Mulai semester I sesi 2012/2013.

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	20P	MON	08:00-08:50	BB03R116	L	30	N	0617 - AABAR		UHL2312 UHL2412
			09:00-09:50	BB03R116	L	30	N			
		WED	08:00-08:50	BB01R126	B	30	N			
			09:00-09:50	BB01R126	B	30	N			
	21P	MON	10:00-10:50	BB03R116	L	30	N	0617 - AABAR		
			11:00-11:50	BB03R116	L	30	N			
		WED	10:00-10:50	BB01R126	B	30	N			
			11:00-11:50	BB01R126	B	30	N			
	22P	MON	14:00-14:50	BB03R116	L	30	N	01618 - KABAA		
			15:00-15:50	BB03R116	L	30	N			
		THU	14:00-14:50	BB01R126	B	30	N			
			15:00-15:50	BB01R126	B	30	N			
	23P	MON	16:00-16:50	BB03R116	L	30	N	01618 - KABAA		
			17:00-17:50	BB03R116	L	30	N			
		THU	16:00-16:50	BB01R126	B	30	N			
			17:00-17:50	BB01R126	B	30	N			
	24P	THU	08:00-08:50	BB01R126	B	30	N	01465 - NBAM		
			09:00-09:50	BB01R126	B	30	N			
		TUE	08:00-08:50	BB03R116	L	30	N			
			09:00-09:50	BB03R116	L	30	N			
	25P	THU	10:00-10:50	BB01R126	B	30	N	01871 - HBZ		
			11:00-11:50	BB01R126	B	30	N			
		TUE	10:00-10:50	BB03R116	L	30	N			
			11:00-11:50	BB03R116	L	30	N			
	26P	FRI	08:00-08:50	BB01R126	B	30	N	01871 - HBZ		
			09:00-09:50	BB01R126	B	30	N			
		TUE	14:00-14:50	BB03R116	L	30	N			
			15:00-15:50	BB03R116	L	30	N			
	27P	FRI	10:00-10:50	BB01R126	B	30	N	01871 - HBZ		
			11:00-11:50	BB01R126	B	30	N			
		TUE	16:00-16:50	BB03R116	L	30	N			
			17:00-17:50	BB03R116	L	30	N			
	28P	MON	08:00-08:50	BB03R114	L	30	N	01465 - NBAM		
			09:00-09:50	BB03R114	L	30	N			
		WED	08:00-08:50	BB01R128	B	30	N			
			09:00-09:50	BB01R128	B	30	N			
	29P	MON	10:00-10:50	BB03R114	L	30	N	0618 - NYBK		
			11:00-11:50	BB03R114	L	30	N			
		WED	10:00-10:50	BB01R128	B	30	N			
			11:00-11:50	BB01R128	B	30	N			
	30P	MON	14:00-14:50	BB03R114	L	30	N	0618 - NYBK		
			15:00-15:50	BB03R114	L	30	N			
		THU	14:00-14:50	BB01R128	B	30	N			
			15:00-15:50	BB01R128	B	30	N			

Universiti Malaysia PAHANG
Engineering • Technology • Creativity

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
PEKAN	DEGREE		UHL2422	ENGLISH FOR TECHNICAL COMMUNICATION	SEM 1 18/19	31P	MON	16:00-16:50	BB03R114	L	30	N	0976 - MSZBAM		
								17:00-17:50	BB03R114	L	30	N			
							THU	16:00-16:50	BB01R128	B	30	N			
								17:00-17:50	BB01R128	B	30	N			
						32P	THU	08:00-08:50	BB01R128	B	30	N	01800 - MSBAJ		
								09:00-09:50	BB01R128	B	30	N			
							TUE	08:00-08:50	BB03R114	L	30	N			
								09:00-09:50	BB03R114	L	30	N			
						33P	THU	10:00-10:50	BB01R128	B	30	N	01800 - MSBAJ		
								11:00-11:50	BB01R128	B	30	N			
							TUE	10:00-10:50	BB03R114	L	30	N			
								11:00-11:50	BB03R114	L	30	N			
						34P	FRI	08:00-08:50	BB01R128	B	30	N	0976 - MSZBAM		
								09:00-09:50	BB01R128	B	30	N			
							TUE	14:00-14:50	BB03R114	L	30	N			
								15:00-15:50	BB03R114	L	30	N			
			UHL2432	ENGLISH FOR PROFESSIONAL COMMUNICATION											

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE		UHL2432	ENGLISH FOR PROFESSIONAL COMMUNICATION	The course is designed to develop students¿ spoken and written communication skills effectively. This is vital in helping them to enter the job market and preparing them for workplace. Students will enhance their language skills via learning activities that incorporate communication strategies, interactions and feedback. The learning activities include, but not limited to, carrying out presentations, attending mock-job interviews and conducting meetings.	This subject is equivalent with UHL2332 Academic Report Writing. Mulai semester I sesi 2012/2013. Starting Sem II 2015/2016, Only the following students can register for this course : * Student who are in Sem 5 and above * Direct Entry - sem 4 above

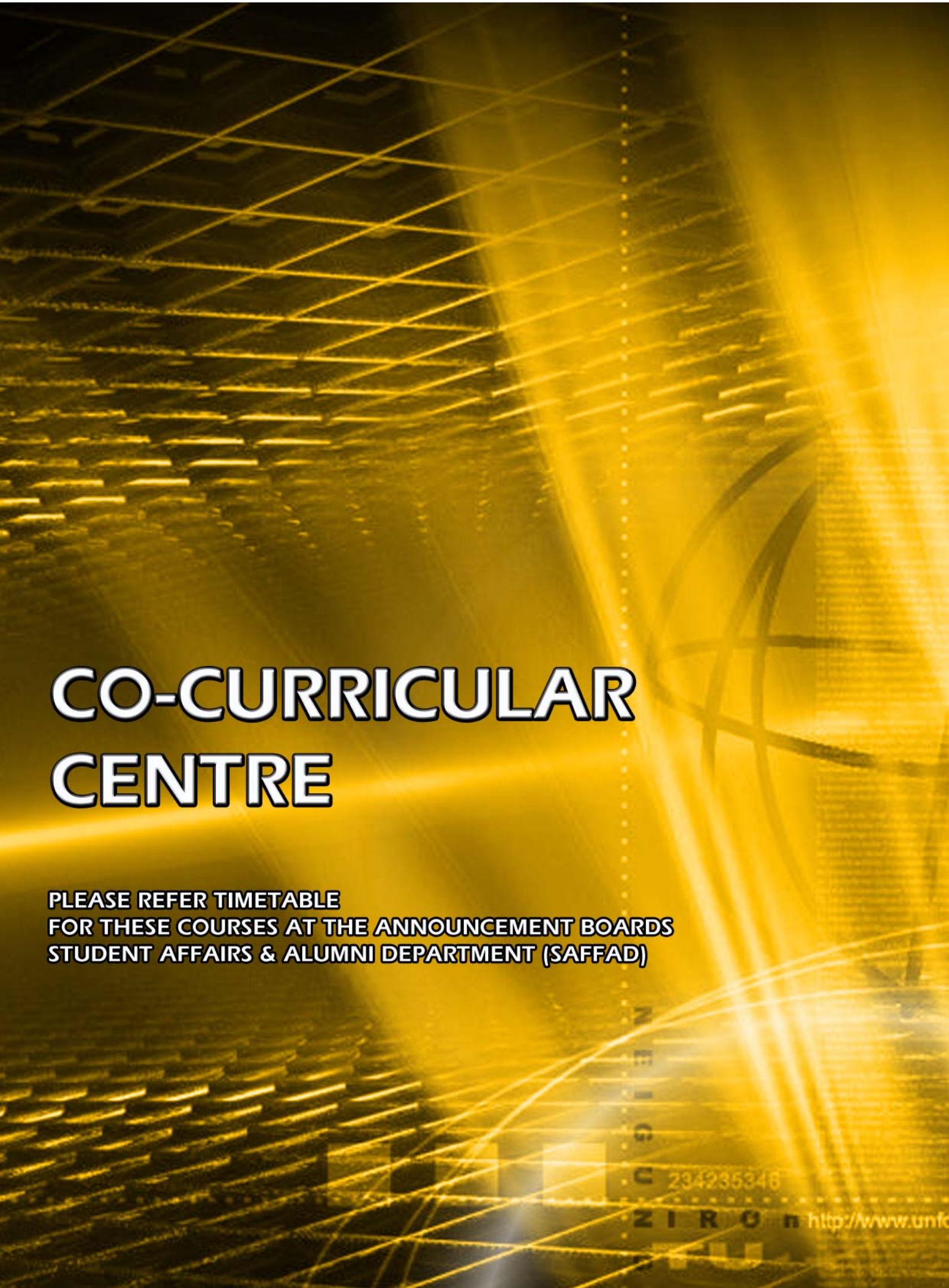
Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	17P	MON	08:00-08:50	BB03R102	L	30	N	01539 - RBI		UHL2322 UHL2422
			09:00-09:50	BB03R102	L	30	N			
		WED	08:00-08:50	BB02R71	B	30	N			
			09:00-09:50	BB02R71	B	30	N			
	18P	MON	10:00-10:50	BB03R102	L	30	N	01486 - SAJBH		
			11:00-11:50	BB03R102	L	30	N			
		WED	10:00-10:50	BB02R71	B	30	N			
			11:00-11:50	BB02R71	B	30	N			
	19P	MON	14:00-14:50	BB03R102	L	30	N	01486 - SAJBH		
			15:00-15:50	BB03R102	L	30	N			
		THU	14:00-14:50	BB02R71	B	30	N			
			15:00-15:50	BB02R71	B	30	N			
	20P	MON	16:00-16:50	BB03R102	L	30	N	01539 - RBI		
			17:00-17:50	BB03R102	L	30	N			
		THU	16:00-16:50	BB02R71	B	30	N			
			17:00-17:50	BB02R71	B	30	N			
	21P	THU	08:00-08:50	BB02R71	B	30	N	01486 - SAJBH		
			09:00-09:50	BB02R71	B	30	N			
		TUE	08:00-08:50	BB03R102	L	30	N			
			09:00-09:50	BB03R102	L	30	N			
	22P	THU	10:00-10:50	BB02R71	B	30	N	0156 - NRBMR		
			11:00-11:50	BB02R71	B	30	N			
		TUE	10:00-10:50	BB03R102	L	30	N			
			11:00-11:50	BB03R102	L	30	N			
	23P	FRI	08:00-08:50	BB02R71	B	30	N	01589 - NNFBMR		
			09:00-09:50	BB02R71	B	30	N			
		TUE	14:00-14:50	BB03R102	L	30	N			
			15:00-15:50	BB03R102	L	30	N			
	24P	FRI	10:00-10:50	BB02R71	B	30	N	01465 - NBAM		
			11:00-11:50	BB02R71	B	30	N			
		TUE	16:00-16:50	BB03R102	L	30	N			
			17:00-17:50	BB03R102	L	30	N			
	25P	MON	08:00-08:50	BB03R110	L	30	N	0827 - EBN		
			09:00-09:50	BB03R110	L	30	N			
		WED	08:00-08:50	BB02R73	B	30	N			
			09:00-09:50	BB02R73	B	30	N			
	26P	MON	10:00-10:50	BB03R110	L	30	N	01465 - NBAM		
			11:00-11:50	BB03R110	L	30	N			
		WED	10:00-10:50	BB02R73	B	30	N			
			11:00-11:50	BB02R73	B	30	N			
	27P	MON	14:00-14:50	BB03R110	L	30	N	0827 - EBN		
			15:00-15:50	BB03R110	L	30	N			
		THU	14:00-14:50	BB02R73	B	30	N			
			15:00-15:50	BB02R73	B	30	N			

Universiti Malaysia PAHANG
Engineering • Technology • Creativity

COURSE TIMETABLE

Faculty : **CENTRE FOR MODERN LANGUAGES & HUMAN SCIENCES**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
PEKAN	DEGREE		UHL2432	ENGLISH FOR PROFESSIONAL COMMUNICATION	SEM 1 18/19	28P	MON	16:00-16:50	BB03R110	L	30	N	0827 - EBN		
								17:00-17:50	BB03R110	L	30	N			
							THU	16:00-16:50	BB02R73	B	30	N			
								17:00-17:50	BB02R73	B	30	N			
						29P	THU	08:00-08:50	BB02R73	B	30	N	01589 - NNFBMR		
								09:00-09:50	BB02R73	B	30	N			
							TUE	08:00-08:50	BB03R110	L	30	N			
								09:00-09:50	BB03R110	L	30	N			
						30P	THU	10:00-10:50	BB02R73	B	30	N	0067 - ZBA		
								11:00-11:50	BB02R73	B	30	N			
							TUE	10:00-10:50	BB03R110	L	30	N			
								11:00-11:50	BB03R110	L	30	N			
						31P	FRI	08:00-08:50	BB02R73	B	30	N	0230 - NBO		
								09:00-09:50	BB02R73	B	30	N			
							TUE	14:00-14:50	BB03R110	L	30	N			
								15:00-15:50	BB03R110	L	30	N			
						32P	FRI	10:00-10:50	BB02R73	B	30	N	0230 - NBO		
								11:00-11:50	BB02R73	B	30	N			
							TUE	16:00-16:50	BB03R110	L	30	N			
								17:00-17:50	BB03R110	L	30	N			


CO-CURRICULAR
CENTRE
PLEASE REFER TIMETABLE
FOR THESE COURSES AT THE ANNOUNCEMENT BOARDS
STUDENT AFFAIRS & ALUMNI DEPARTMENT (SAFFAD)

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE	1	UQB1011	BRIGED SISWA (KOKURIKULUM I)	This course offers knowledge and leadership experience, communication, as well as teamwork. Important aspect of this course are physical fitness and also first aid. Students are exposed with activities that focus on developing decision making and problem solving skills.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	10G	WED	17:00-17:50	W-DK-02	L	38	N	0638 - MBMN		
			18:00-18:50	W-DK-02	L	38	N			
	11G	WED	17:00-17:50	W-DK-03	L	38	N	0638 - MBMN		
			18:00-18:50	W-DK-03	L	38	N			
	12G	WED	17:00-17:50	W-DK-04	L	38	N	0638 - MBMN		
			18:00-18:50	W-DK-04	L	38	N			
	13G	WED	17:00-17:50	W-DK-06	L	38	N	0638 - MBMN		
			18:00-18:50	W-DK-06	L	38	N			
	14G	WED	17:00-17:50	W-DK-06	L	38	N	0638 - MBMN		
			18:00-18:50	W-DK-06	L	38	N			
	15G	WED	17:00-17:50	W-DK-07	L	38	N	0638 - MBMN		
			18:00-18:50	W-DK-07	L	38	N			
	16G	WED	15:00-15:50	W-DK-08	L	38	N	0638 - MBMN		
			16:00-16:50	W-DK-08	L	38	N			
			17:00-17:50	W-DK-08	L	38	N			
			18:00-18:50	W-DK-08	L	38	N			
	17G	WED	15:00-15:50	W-DK-09	L	38	N	0638 - MBMN		
			16:00-16:50	W-DK-09	L	38	N			
			17:00-17:50	W-DK-09	L	38	N			
			18:00-18:50	W-DK-09	L	38	N			
	18G	WED	15:00-15:50	W-DK-10	L	38	N	0638 - MBMN		
			16:00-16:50	W-DK-10	L	38	N			
			17:00-17:50	W-DK-10	L	38	N			
			18:00-18:50	W-DK-10	L	38	N			
	19G	WED	15:00-15:50	W-DK-10	L	38	N	0638 - MBMN		
			16:00-16:50	W-DK-10	L	38	N			
			17:00-17:50	W-DK-10	L	38	N			
			18:00-18:50	W-DK-10	L	38	N			
	1G	WED	15:00-15:50	W-DK-01	L	38	N	0638 - MBMN		
			16:00-16:50	W-DK-01	L	38	N			
			17:00-17:50	W-DK-01	L	38	N			
			18:00-18:50	W-DK-01	L	38	N			
	2G	WED	15:00-15:50	W-DK-02	L	38	N	0638 - MBMN		
			16:00-16:50	W-DK-02	L	38	N			
			17:00-17:50	W-DK-02	L	38	N			
			18:00-18:50	W-DK-02	L	38	N			
	3G	WED	15:00-15:50	W-DK-03	L	38	N	0638 - MBMN		
			16:00-16:50	W-DK-03	L	38	N			
			17:00-17:50	W-DK-03	L	38	N			
			18:00-18:50	W-DK-03	L	38	N			
	4G	WED	15:00-15:50	W-DK-04	L	38	N	0638 - MBMN		
			16:00-16:50	W-DK-04	L	38	N			
			17:00-17:50	W-DK-04	L	38	N			
			18:00-18:50	W-DK-04	L	38	N			
	5G	WED	15:00-15:50	W-DK-05	L	38	N	0638 - MBMN		
			16:00-16:50	W-DK-05	L	38	N			
			17:00-17:50	W-DK-05	L	38	N			
			18:00-18:50	W-DK-05	L	38	N			

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis									Exam Schedule	Remark
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff		Pre-Requisite
GAMBANG	DEGREE	1	UQB1011	BRIGED SISWA (KOKURIKULUM I)	SEM 1 18/19	6G	WED	15:00-15:50	W-DK-06	L	38	N	0638 - MBMN		
								16:00-16:50	W-DK-06	L	38	N			
								17:00-17:50	W-DK-06	L	38	N			
								18:00-18:50	W-DK-06	L	38	N			
						7G	WED	15:00-15:50	W-DK-07	L	38	N	0638 - MBMN		
								16:00-16:50	W-DK-07	L	38	N			
								17:00-17:50	W-DK-07	L	38	N			
								18:00-18:50	W-DK-07	L	38	N			
						8G	WED	15:00-15:50	W-DK-08	L	38	N	0638 - MBMN		
								16:00-16:50	W-DK-08	L	38	N			
								17:00-17:50	W-DK-08	L	38	N			
								18:00-18:50	W-DK-08	L	38	N			
						9G	WED	15:00-15:50	W-DK-01	L	38	N	0638 - MBMN		
								16:00-16:50	W-DK-01	L	38	N			
								17:00-17:50	W-DK-01	L	38	N			
								18:00-18:50	W-DK-01	L	38	N			
		1	UQB1021	KOR SUKSIS 1	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in KOR SUKSIS and the important requirements for KOR SUKSIS. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	08:00-08:50	W-DK-15	L	70	N	0638 - MBMN		
								09:00-09:50	W-DK-15	L	70	N			
								10:00-10:50	W-DK-15	L	70	N			
								11:00-11:50	W-DK-15	L	70	N			
								12:00-12:50	W-DK-15	L	70	N			
								13:00-13:50	W-DK-15	L	70	N			
								14:00-14:50	W-DK-15	L	70	N			
								15:00-15:50	W-DK-15	L	70	N			
								16:00-16:50	W-DK-15	L	70	N			
								17:00-17:50	W-DK-15	L	70	N			
								18:00-18:50	W-DK-15	L	70	N			
		1	UQB1031	SISWA APM 1	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Siswa APM and the important requirements for Siswa APM. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	08:00-08:50	W-DK-14	L	70	N	0638 - MBMN		
								09:00-09:50	W-DK-14	L	70	N			
								10:00-10:50	W-DK-14	L	70	N			
								11:00-11:50	W-DK-14	L	70	N			
								12:00-12:50	W-DK-14	L	70	N			
								13:00-13:50	W-DK-14	L	70	N			
								14:00-14:50	W-DK-14	L	70	N			
								15:00-15:50	W-DK-14	L	70	N			
								16:00-16:50	W-DK-14	L	70	N			
								17:00-17:50	W-DK-14	L	70	N			
								18:00-18:50	W-DK-14	L	70	N			
		1	UQB1041	PALAPES LAUT 1											

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**UQB1041**	**PALAPES LAUT 1**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Palapes Laut and the important requirements for Palapes Laut. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	08:00-08:50	W-DK-04	L	70	N	0638 - MBMN		
								09:00-09:50	W-DK-04	L	70	N			
								10:00-10:50	W-DK-04	L	70	N			
								11:00-11:50	W-DK-04	L	70	N			
								12:00-12:50	W-DK-04	L	70	N			
								13:00-13:50	W-DK-04	L	70	N			
								14:00-14:50	W-DK-04	L	70	N			
								15:00-15:50	W-DK-04	L	70	N			
								16:00-16:50	W-DK-04	L	70	N			
								17:00-17:50	W-DK-04	L	70	N			
								18:00-18:50	W-DK-04	L	70	N			
								19:00-19:50	W-DK-04	L	70	N			
								20:00-20:50	W-DK-04	L	70	N			
								21:00-21:50	W-DK-04	L	70	N			
								22:00-22:50	W-DK-04	L	70	N			
		1	**UQB1051**	**PALAPES UDARA 1**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Palapes Udara and the important requirements for Palapes Udara. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	20:00-20:50	W-DK-15	L	70	N	0638 - MBMN		
								21:00-21:50	W-DK-15	L	70	N			
								22:00-22:50	W-DK-15	L	70	N			
								23:00-23:50	W-DK-15	L	70	N			
		1	**UQB1061**	**PALAPES DARAT 1**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in PALAPES DARAT I and the important requirements for PALAPES DARAT I. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	08:00-08:50	W-DK-15	L	70	N	0638 - MBMN		
								09:00-09:50	W-DK-15	L	70	N			
								10:00-10:50	W-DK-15	L	70	N			
								11:00-11:50	W-DK-15	L	70	N			
								12:00-12:50	W-DK-15	L	70	N			
								13:00-13:50	W-DK-15	L	70	N			
								14:00-14:50	W-DK-15	L	70	N			
								15:00-15:50	W-DK-15	L	70	N			
								16:00-16:50	W-DK-15	L	70	N			
								17:00-17:50	W-DK-15	L	70	N			
								18:00-18:50	W-DK-15	L	70	N			
		1	**UQD2021**	**CREATIVE ART**	THIS CO-CURRICULUM ACTIVITY WILL EXPOSED STUDENTS TO TRUE AND PRACTICAL EXPERIENCES OF CREATIVITY THROUGH INNOVATIVE OF ART AND MALAYSIAN HERITAGE. STUDENTS WILL DEVELOPS THEIR CREATIVITIES THROUGH THE MANY ELEMENTS OF CREATIVE ART.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-01	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-01	L	36	N			
		1	**UQN2031**	**ANYAMAN**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Anyaman and the important requirements for Anyaman. Students will also be										

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	UQN2031	ANYAMAN	exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-04	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-04	L	36	N			
		1	UQP2031	DEBATE (BAHASA MELAYU)	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Debate and the important requirements for Debate. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-07	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-07	L	36	N			
		1	UQP2061	KEPIMPINAN	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Leadership and the important requirements for Leadership. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-08	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-08	L	36	N			
		1	UQP2071	PENGURUSAN MAJLIS	This course is design to provide knowledge on event management. Students will be exposed to variety of event planning and execute mini projects. They will understand how to do research, plan design, coordinate and ultimately organizing event.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-09	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-09	L	36	N			
		1	UQS2011	KAYAK	The course is design to provide knowledge and skills in kayak. It introduces basic skills and the important requirement in kayaking. Safety in kayaking will also be exposed to students and at later stage kayak exploration/challenge will be integrated in projects and task.										
					SEM 1 18/19	1G	WED	14:00-14:50	W-DK-10	L	26	N	0638 - MBMN		
								15:00-15:50	W-DK-10	L	26	N			
						2G	WED	14:00-14:50	W-DK-10	L	36	N	0638 - MBMN		
								15:00-15:50	W-DK-10	L	36	N			
		1	UQS2021	TREKKING	The course is design to provide knowledge and skills in trekking. It introduces basic skills and the importance requirement in trekking. It emphasize on critical thinking, good management and the importance of team working.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-11	L	26	N	0638 - MBMN		
								16:00-16:50	W-DK-11	L	26	N			
						2G	WED	15:00-15:50	W-DK-12	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-12	L	36	N			
						3G	WED	17:00-17:50	W-DK-11	L	36	N	0638 - MBMN		
								18:00-18:50	W-DK-11	L	36	N			
						4G	WED	17:00-17:50	W-DK-12	L	36	N	0638 - MBMN		
								18:00-18:50	W-DK-12	L	36	N			
		1	UQS2031	SILAT OLAHRAGA	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Silat Olahraga and the important requirements for Silat Olahraga . Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-13	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-13	L	36	N			
		1	UQS2041	BOLA SEPAK	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Bola Sepak and the important requirements for Bola Sepak. Students will also be										

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	UQS2041	BOLA SEPAK	exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1G	WED	17:00-17:50	W-DK-13	L	36	N	0638 - MBMN		
								18:00-18:50	W-DK-13	L	36	N			
		1	UQS2051	HOKI 2	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Hockey and the important requirements for Hockey. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-13	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-13	L	36	N			
		1	UQS2081	ARCHERY	The course is design to provide knowledge and skills in archery. As part of modern archery, introduction to modern equipment and latest knowledge on the sport will be introduced. History and development of the game will be integrated in the course. Skills test will be conducted as students are required to learn important skills in the game of archery, critical thinking, good management and the impotence on team working.										
					SEM 1 18/19	1G	WED	14:00-14:50	W-DK-14	L	36	N	0638 - MBMN		
								15:00-15:50	W-DK-14	L	36	N			
		1	UQS2121	PAINTBALL	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Paintball and the important requirements for Paintball. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1G	WED	17:00-17:50	W-DK-16	L	36	N	0638 - MBMN		
								18:00-18:50	W-DK-16	L	36	N			
		1	UQS2161	FUTSAL	The course offers students opportunity to become more knowledge, basic, techniques and skill in futsal. In this course students can learn how to play futsal follow law of the game and how to protect from injury.										
					SEM 1 18/19	1G	WED	17:00-17:50	W-DK-17	L	36	N	0638 - MBMN		
								18:00-18:50	W-DK-17	L	36	N			
		2	UQB3021	KOR SUKSIS 3	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in KOR SUKSIS III and the important requirements for KOR SUKSIS III. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	08:00-08:50	W-DK-16	L	70	N	0638 - MBMN		UQB2021
								09:00-09:50	W-DK-16	L	70	N			
								10:00-10:50	W-DK-16	L	70	N			
								11:00-11:50	W-DK-16	L	70	N			
								12:00-12:50	W-DK-16	L	70	N			
								13:00-13:50	W-DK-16	L	70	N			
								14:00-14:50	W-DK-16	L	70	N			
								15:00-15:50	W-DK-16	L	70	N			
								16:00-16:50	W-DK-16	L	70	N			
								17:00-17:50	W-DK-16	L	70	N			
								18:00-18:50	W-DK-16	L	70	N			
		2	UQB3031	SISWA APM 3											

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**UQB3031**	**SISWA APM 3**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in KOR SISPA III and the important requirements for KOR SISPA III. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	20:00-20:50	W-DK-15	L	48	N	0638 - MBMN		UQB2031
								21:00-21:50	W-DK-15	L	48	N			
								22:00-22:50	W-DK-15	L	48	N			
								23:00-23:50	W-DK-15	L	48	N			
		2	**UQB3041**	**PALAPES LAUT 3**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in PALAPES LAUT III and the important requirements for PALAPES LAUT III. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	20:00-20:50	W-DK-15	L	55	N	0638 - MBMN		UQB2041
								21:00-21:50	W-DK-15	L	55	N			
								22:00-22:50	W-DK-15	L	55	N			
								23:00-23:50	W-DK-15	L	55	N			
		2	**UQB3051**	**PALAPES UDARA 3**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in PALAPES UDARA III and the important requirements for PALAPES UDARA III. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	08:00-08:50	W-DK-16	L	53	N	0638 - MBMN		UQB2051
								09:00-09:50	W-DK-16	L	53	N			
								10:00-10:50	W-DK-16	L	53	N			
								11:00-11:50	W-DK-16	L	53	N			
								12:00-12:50	W-DK-16	L	53	N			
								13:00-13:50	W-DK-16	L	53	N			
								14:00-14:50	W-DK-16	L	53	N			
								15:00-15:50	W-DK-16	L	53	N			
								16:00-16:50	W-DK-16	L	53	N			
								17:00-17:50	W-DK-16	L	53	N			
								18:00-18:50	W-DK-16	L	53	N			
		2	**UQB3061**	**PALAPES DARAT 3**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in PALAPES DARAT III and the important requirements for PALAPES DARAT III. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	08:00-08:50	W-DK-16	L	58		0638 - MBMN		UQB2061
								09:00-09:50	W-DK-16	L	58				
								10:00-10:50	W-DK-16	L	58				
								11:00-11:50	W-DK-16	L	58				
								12:00-12:50	W-DK-16	L	58				
								13:00-13:50	W-DK-16	L	58				
								14:00-14:50	W-DK-16	L	58				
								15:00-15:50	W-DK-16	L	58				
								16:00-16:50	W-DK-16	L	58				
								17:00-17:50	W-DK-16	L	58				
								18:00-18:50	W-DK-16	L	58				
		2	**UQB5051**	**PALAPES UDARA 5**											

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**UQB5051**	**PALAPES UDARA 5**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in PALAPES UDARA 5 and the important requirements for PALAPES UDARA 5. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	20:00-20:50	W-DK-16	L	52	N	0638 - MBMN		UQB4051
								21:00-21:50	W-DK-16	L	52	N			
								22:00-22:50	W-DK-16	L	52	N			
								23:00-23:50	W-DK-16	L	52	N			
		2	**UQN2011**	**MUZIK KOMPANG**	This course introduces kompang as a traditional musical genre. Students will be exposed to techniques of kompang playing. Historical facts on this wonderful traditional Malay music will be introduced. Appreciation on Malaysia unique cultural art will be installed through kompang performing activities.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-02	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-02	L	36	N			
		2	**UQN2021**	**NASYEED**	This course will introduce stundents to be concept of performing art from the Islamic perpective and the underlying principles of Islamic songs or nasyeed. Students will be exposed to correct techniques of singing nasyeed and song composition.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-03	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-03	L	36	N			
		2	**UQP2011**	**KAUNSELOR SISWA**	This course will introduce students to skills applied in Peer Counseling, from the history of peer counseling to its growth and influence on social development. Students will ber engaged to practical session among peers. To enhance knowledge, projects will be organized and conducted involving collages and neighbouring institutions of learning and schools.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-05	L	26	N	0638 - MBMN		
								16:00-16:50	W-DK-05	L	26	N			
		2	**UQP2021**	**IQRA**	The course is design to provide students with knowledge of Hijaiyah letters with appropriate techniques (Tartill). Tajwid (Correct Pronounciation) is embedded so they can read the Qur'an with correct techniques.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-06	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-06	L	36	N			
		2	**UQS2061**	**BOLA BALING**	This course is design to provide knowledge and skills in handball. History of the game and the latest development of the game will be integrated in the learning of the game. Skills test will be conducted as students are required to learn important skills in the game of handball, critical thinking, good management, the important of teamworking and how to prevent injuries.										
					SEM 1 18/19	1G	WED	17:00-17:50	W-DK-14	L	36	N	0638 - MBMN		
								18:00-18:50	W-DK-14	L	36	N			
		2	**UQS2091**	**FITNESS**	The course is design to provide knowledge and skills in fitness. Healthy living and healthy lifestyle will be introduced and part of the learning content. Anaerobic and aerobic concept will be exposed to students.										
					SEM 1 18/19	1G	WED	15:00-15:50	W-DK-15	L	36	N	0638 - MBMN		
								16:00-16:50	W-DK-15	L	36	N			
						2G	WED	17:00-17:50	W-DK-15	L	36	N	0638 - MBMN		
								18:00-18:50	W-DK-15	L	36	N			
		3	**UQB5021**	**KOR SUKSIS 5**											

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**UQB5021**	**KOR SUKSIS 5**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in KOR SUKSIS 5 and the important requirements for KOR SUKSIS 5. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	08:00-08:50	W-DK-14	L	46	N	0638 - MBMN		UQB4021
								09:00-09:50	W-DK-14	L	46	N			
								10:00-10:50	W-DK-14	L	46	N			
								11:00-11:50	W-DK-14	L	46	N			
								12:00-12:50	W-DK-14	L	46	N			
								13:00-13:50	W-DK-14	L	46	N			
								14:00-14:50	W-DK-14	L	46	N			
								15:00-15:50	W-DK-14	L	46	N			
								16:00-16:50	W-DK-14	L	46	N			
								17:00-17:50	W-DK-14	L	46	N			
								18:00-18:50	W-DK-14	L	46	N			
		3	**UQB5041**	**PALAPES LAUT 5**	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in PALAPES LAUT V and the important requirements for PALAPES LAUT V. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1	SAT	08:00-08:50	W-DK-16	L	47	N	0638 - MBMN		UQB4041
								09:00-09:50	W-DK-16	L	47	N			
								10:00-10:50	W-DK-16	L	47	N			
								11:00-11:50	W-DK-16	L	47	N			
								12:00-12:50	W-DK-16	L	47	N			
								13:00-13:50	W-DK-16	L	47	N			
								14:00-14:50	W-DK-16	L	47	N			
								15:00-15:50	W-DK-16	L	47	N			
								16:00-16:50	W-DK-16	L	47	N			
								17:00-17:50	W-DK-16	L	47	N			
								18:00-18:50	W-DK-16	L	47	N			
		3	**UQB5061**	**PALAPES DARAT 5**											
					SEM 1 18/19	1	SAT	20:00-20:50	W-DK-18	L	50	N	0638 - MBMN		UQB4061
								21:00-21:50	W-DK-18	L	50	N			
								22:00-22:50	W-DK-18	L	50	N			
								23:00-23:50	W-DK-18	L	50	N			
			UQP2081	**PENGURUSAN BENCANA**	These activities designed to provide knowledge on disaster preparedness and relief coordination know how. Disaster management will develop students awareness in relation to vulnerable people such as children elderly people, victims and people with disabilities and inculcate the spirit of volunteerism.										
					SEM 1 18/19	1G	WED	17:00-17:50	W-DK-10	L	36	N	0638 - MBMN		
								18:00-18:50	W-DK-10	L	36	N			
PEKAN	DEGREE	1	**UQB1011**	**BRIGED SISWA (KOKURIKULUM I)**											

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	UQB1011	BRIGED SISWA (KOKURIKULUM I)	This course offers knowledge and leadership experience, communication, as well as teamwork. Important aspect of this course are physical fitness and also first aid. Students are exposed with activities that focus on developing decision making and problem solving skills.										
					SEM 1 18/19	1P	WED	17:00-17:50	M20BK1	L	38	N	0638 - MBMN		
								18:00-18:50	M20BK1	L	38	N			
						2P	WED	17:00-17:50	M20BK2	L	38	N	0638 - MBMN		
								18:00-18:50	M20BK2	L	38	N			
						3P	WED	17:00-17:50	FKP-F-BK-01	L	38	N	0638 - MBMN		
								18:00-18:50	FKP-F-BK-01	L	38	N			
						4P	WED	17:00-17:50	FKP-F-BK-02	L	38	N	0638 - MBMN		
								18:00-18:50	FKP-F-BK-02	L	38	N			
						5P	WED	17:00-17:50	FKP-F-BK-03	L	38	N	0638 - MBMN		
								18:00-18:50	FKP-F-BK-03	L	38	N			
						6P	WED	17:00-17:50	FKP-F-BK-04	L	38	N	0638 - MBMN		
								18:00-18:50	FKP-F-BK-04	L	38	N			
						7P	WED	17:00-17:50	FKP-F-BK-05	L	38	N	0638 - MBMN		
								18:00-18:50	FKP-F-BK-05	L	38	N			
						8P	WED	17:00-17:50	FKP-F-BK-06	L	38	N	0638 - MBMN		
								18:00-18:50	FKP-F-BK-06	L	38	N			
		1	UQD2011	ROBOCON	This cource introduce students to basic robotics, rooting from the concepts and knowledge in science, technology, engineering and mathemathics (STEM). Students will be exposed to the open-source programming and robotics as well as coaching techniques in STEM Education. Throughout the cource, students will be assigned to mentor school children in developing electronics projects, including robotics, drones and of things (IoT)										
					SEM 1 18/19	1P	WED	15:00-15:50	E20BT1	L	26	N	0638 - MBMN		
								16:00-16:50	E20BT1	L	26	N			
						2P	WED	15:00-15:50	E20BT2	L	26	N	0638 - MBMN		
								16:00-16:50	E20BT2	L	26	N			
		1	UQP2071	PENGURUSAN MAJLIS	This course is design to provide knowledge on event management. Students will be exposed to variety of event planning and execute mini projects. They will understand how to do research, plan design, coordinate and ultimately organizing event.										
					SEM 1 18/19	1P	WED	15:00-15:50	E20BK2	L	36	N	0638 - MBMN		
								16:00-16:50	E20BK2	L	36	N			
		1	UQS2011	KAYAK	The course is design to provide knowledge and skills in kayak. It introduces basic skills and the important requirement in kayaking. Safety in kayaking will also be exposed to students and at later stage kayak exploration/challenge will be integrated in projects and task.										
					SEM 1 18/19	1P	WED	17:00-17:50	M21BK4	L	36	N	0638 - MBMN		
								18:00-18:50	M21BK4	L	36	N			
						2P	WED	17:00-17:50	M21BK4	L	36	N	0638 - MBMN		
								18:00-18:50	M21BK4	L	36	N			

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	UQS2021	TREKKING	The course is design to provide knowledge and skills in trekking. It introduces basic skills and the importance requirement in trekking. It emphasize on critical thinking, good management and the importance of team working.										
					SEM 1 18/19	1P	WED	15:00-15:50	E20BK2	L	26	N	0638 - MBMN		
								16:00-16:50	E20BK2	L	26	N			
		1	UQS2081	ARCHERY	The course is design to provide knowledge and skills in archery. As part of modern archery, introduction to modern equipment and latest knowledge on the sport will be introduced. History and development of the game will be integrated in the course. Skills test will be conducted as students are required to learn important skills in the game of archery, critical thinking, good management and the impotence on team working.										
					SEM 1 18/19	1P	WED	17:00-17:50	E21BK3	L	36	N	0638 - MBMN		
								18:00-18:50	E21BK3	L	36	N			
		1	UQS2141	RC SPEED BOAT	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in RC Speedboat and the important requirements for RC Speedboat. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1P	WED	15:00-15:50	M22BT7	L	36	N	0638 - MBMN		
								16:00-16:50	M22BT7	L	36	N			
		1	UQS2151	GOLF	This course is designed to provide students with the required knowledge, skills, competency, safety and teamworking skills in Golf and the important requirements for Golf. Students will also be exposed to knowledge in safety. Teamworking and leadership skills will be incorporated into projects and activities.										
					SEM 1 18/19	1P	WED	15:00-15:50	M20BK1	L	26	N	0638 - MBMN		
								16:00-16:50	M20BK1	L	26	N			
						2P	WED	15:00-15:50	M21BK8	L	36	N	0638 - MBMN		
								16:00-16:50	M21BK8	L	36	N			
		1	UQS2161	FUTSAL	The course offers students opportunity to become more knowledge, basic, techniques and skill in futsal. In this course students can learn how to play futsal follow law of the game and how to protect from injury.										
					SEM 1 18/19	1P	WED	14:00-14:50	M20BK7	L	36	N	0638 - MBMN		
								15:00-15:50	M20BK7	L	36	N			
		2	UQN2011	MUZIK KOMPANG	This course introduces kompang as a traditional musical genre. Students will be exposed to techniques of kompang playing. Historical facts on this wonderful traditional Malay music will be introduced. Appreciation on Malaysia unique cultural art will be installed through kompang performing activities.										
					SEM 1 18/19	1P	WED	15:00-15:50	M21BK3	L	36	N	0638 - MBMN		
								16:00-16:50	M21BK3	L	36	N			
		2	UQP2011	KAUNSELOR SISWA	This course will introduce students to skills applied in Peer Counseling, from the history of peer counseling to its growth and influence on social development. Students will ber engaged to practical session among peers. To enhance knowledge, projects will be organized and conducted involving collages and neighbouring institutions of learning and schools.										
					SEM 1 18/19	1P	WED	15:00-15:50	E21BK4	L	36	N	0638 - MBMN		
								16:00-16:50	E21BK4	L	36	N			
		2	UQS2061	BOLA BALING											

COURSE TIMETABLE

Faculty : **STUDENTS AFFAIRS & ALUMNI**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	**UQS2061**	**BOLA BALING**	This course is design to provide knowledge and skills in handball. History of the game and the latest development of the game will be integrated in the learning of the game. Skills test will be conducted as students are required to learn important skills in the game of handball, critical thinking, good management, the important of teamworking and how to prevent injuries.										
					SEM 1 18/19	1P	WED	14:00-14:50	E22BK5	L	36	N	0638 - MBMN		
								15:00-15:50	E22BK5	L	36	N			
		2	**UQS2091**	**FITNESS**	The course is design to provide knowledge and skills in fitness. Healthy living and healthy lifestyle will be introduced and part of the learning content. Anaerobic and aerobic concept will be exposed to students.										
					SEM 1 18/19	1P	WED	15:00-15:50	M22BK6	L	36	N	0638 - MBMN		
								16:00-16:50	M22BK6	L	36	N			
			UQP2081	**PENGURUSAN BENCANA**	These activities designed to provide knowledge on disaster preparedness and relief coordination know how. Disaster management will develop students awareness in relation to vulnerable people such as children elderly people, victims and people with disabilities and inculcate the spirit of volunteerism.										
					SEM 1 18/19	1P	WED	14:00-14:50	M22BK5	L	36	N	0638 - MBMN		
								15:00-15:50	M22BK5	L	36	N			


FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY (SERVICE COURSES)

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BUF1113**	**BASIC PHYSICS**	This course is intended to expose the central ideas and principles of physics to students requiring a general background in physics. It covers unit and measurements, kinematics, forces and Newton's law of motion, statics equilibrium, work, energy and power, fluid mechanics, electricity and magnetism.										SEKSYEN DIGAMBANG ADALAH 01 DAN 02, SEKSYEN DIPEKAN 03 DAN 04.
					SEM 1 18/19	01G	MON	13:00-13:50	W-DKU-S-01	L	60	N	01277 - NBA		
							THU	13:00-13:50	W-DKU-K-01	L	60	N			
							TUE	13:00-13:50	W-DKU-S-01	L	60	N			
		1	**BUM1113**	**TECHNICAL MATHEMATICS**	This course introduces and discusses the fundamental of mathematics focusing on providing a solid theoretical foundation for further work. Student are exposed to review of factoring, functions and graphs, trigonometric functions, analytic geometry, polar coordinates, 3 dimensional spaces and vector. Appropriate software is used by students to implement some of these ideas in practice.										
					SEM 1 18/19	01G	MON	14:00-14:50	W-DK-16	L	30	Y	0380 - NBMJ	03/01/2019 - AM	
							THU	14:00-14:50	W-DK-16	L	30	Y			
							TUE	14:00-14:50	W-DK-16	L	30	Y			
						02G	MON	15:00-15:50	W-DK-16	L	60	Y	0380 - NBMJ		
							THU	15:00-15:50	W-DK-16	L	60	Y			
							TUE	15:00-15:50	W-DK-16	L	60	Y			
						03G	MON	13:00-13:50	W-DK-06	L	60	Y	0380 - NBMJ		
							THU	13:00-13:50	W-DK-06	L	60	Y			
							TUE	13:00-13:50	W-DK-06	L	60	Y			
		1	**BUM1123**	**MATHEMATICS FOR MANAGEMENT**	This subject introduce the use of mathematical technique in the field of business administration and management. The topics introduce to the inequality, matrices, functions and the key business topics such as simple interest, compound interest, promissory notes, trade and cash discount, markup and markdown.										
					SEM 1 18/19	01	MON	12:00-12:50	Z01-0009	L	60	Y	0323 - NABMD	03/01/2019 - AM	
							THU	12:00-12:50	Z01-0009	L	60	Y			
							TUE	12:00-12:50	Z01-0009	L	60	Y			
						02	MON	13:00-13:50	W-DK-15	L	60	Y	0323 - NABMD		
							THU	13:00-13:50	W-DK-15	L	60	Y			
							TUE	13:00-13:50	W-DK-15	L	60	Y			
		1	**BUM1233**	**DISCRETE MATHEMATICS AND APPLICATIONS**	This subject introduces and discusses the fundamental of the discrete as apply to computer science, focusing on providing a basic theoretical foundation for further work. Students are exposed to logic and proof techniques, set theory, elementary number of theory, functions and relations, graph, tress, modelling computations and abstract algebra. This course integrates symbolic tools, graphical concepts, and numerical calculations.										KURSUS INI AKAN MULA DITAWARKAN PADA SESI 2016/2017 DAN HANYA TERPAKAI PADA AMBILAN PELAJAR 2016/2017 KE ATAS SAHAJA.
					SEM 1 18/19	01	MON	08:00-08:50	Z01-0007	L	60	Y	01793 - ASBAA		
							THU	08:00-08:50	Z01-0007	L	60	Y			
							TUE	08:00-08:50	Z01-0007	L	60	Y			
						02	MON	12:00-12:50	Z01-0003	L	60	Y	01793 - ASBAA		
							THU	12:00-12:50	Z01-0003	L	60	Y			
							TUE	12:00-12:50	Z01-0003	L	60	Y			
						03	MON	13:00-13:50	Z01-0010	L	60	Y	01793 - ASBAA		
							THU	13:00-13:50	Z01-0010	L	60	Y			
							TUE	13:00-13:50	Z01-0010	L	60	Y			
		1	**BUM2113**	**APPLIED MATHEMATICS**	This course introduces ordinary differential equations (analytically and numerically), Laplace transforms and Fourier series. Related applications are also discussed.										BAGI PROGRAM BAHARU FAKULTI TEKNOLOGI
					SEM 1									03/01/2019 - PM	

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	BUM2113	APPLIED MATHEMATICS		SEM 1 18/19	01G	MON	09:00-09:50	T-DK-06	L	60	Y	0547 - NBR	03/01/2019 - PM	
								THU	09:00-09:50	T-DK-06	L	60	Y			
								TUE	09:00-09:50	T-DK-06	L	60	Y			
							02G	MON	11:00-11:50	T-DK-06	L	60	Y	0547 - NBR		
								THU	11:00-11:50	T-DK-06	L	60	Y			
								TUE	11:00-11:50	T-DK-06	L	60	Y			
		1	BUM2123	APPLIED CALCULUS	This course introduces Polar Coordinates and Vector, Vector-Valued Functions, Partial Derivatives, and Multiple Integrals. Appropriate software is used by students to implement some of these ideas in practice.											SEKSYEN UNTUK DIGAMBANG BERMULA 01 SEHINGGA 06 DAN SEKSYEN UNTUK DIPEKAN BERMULA 07 SEHINGGA 12
						SEM 1 18/19	01G	MON	08:00-08:50	W-DK-18	L	60	Y	2313 - AAA	02/01/2019 - PM	
								THU	08:00-08:50	W-DK-18	L	60	Y			
								TUE	08:00-08:50	W-DK-18	L	60	Y			
							02G	MON	09:00-09:50	W-DK-18	L	60	Y	2313 - AAA		
								THU	09:00-09:50	W-DK-18	L	60	Y			
								TUE	09:00-09:50	W-DK-18	L	60	Y			
							03G	MON	12:00-12:50	W-DK-18	L	60	Y	0609 - SFBHAZ		
								THU	12:00-12:50	W-DK-18	L	60	Y			
								TUE	12:00-12:50	W-DK-18	L	60	Y			
							04G	MON	14:00-14:50	W-DK-18	L	60	Y	01226 - RBJ		
								THU	14:00-14:50	W-DK-18	L	60	Y			
								TUE	14:00-14:50	W-DK-18	L	60	Y			
							05G	MON	15:00-15:50	W-DK-18	L	60	Y	01226 - RBJ		
								THU	15:00-15:50	W-DK-18	L	60	Y			
								TUE	15:00-15:50	W-DK-18	L	60	Y			
							06G	MON	13:00-13:50	W-DK-08	L	60	Y	0609 - SFBHAZ		
								THU	13:00-13:50	W-DK-08	L	60	Y			
								TUE	13:00-13:50	W-DK-08	L	60	Y			
							13G	MON	12:00-12:50	Z01-0008	L	60	Y	01226 - RBJ 2313 - AAA		
								THU	12:00-12:50	Z01-0008	L	60	Y			
								TUE	12:00-12:50	Z01-0008	L	60	Y			
							14G	MON	15:00-15:50	Z01-0009	L	60	Y	0609 - SFBHAZ		
								THU	15:00-15:50	Z01-0009	L	60	Y			
								TUE	15:00-15:50	Z01-0009	L	60	Y			
							15G	MON	12:00-12:50	W-DK-08	L	60	Y	01637 - ARBMK		
								THU	12:00-12:50	W-DK-08	L	60	Y			
								TUE	12:00-12:50	W-DK-08	L	60	Y			
		1	BUM2133	ORDINARY DIFFERENTIAL EQUATIONS	This course introduces to the Ordinary differential equations, Laplace transform and Fourier series and their applications in solving engineering problems.											SEKSYEN UNTUK DIGAMBANG BERMULA 01 SEHINGGA 06 DAN SEKSYEN DIPEKAN BERMULA 07 SEHINGGA 12
						SEM 1 18/19	01G	MON	08:00-08:50	W-DK-16	L	60	Y	1996 - LABA	03/01/2019 - AM	
								THU	08:00-08:50	W-DK-16	L	60	Y			
								TUE	08:00-08:50	W-DK-16	L	60	Y			
							02G	MON	09:00-09:50	W-DK-16	L	60	Y	1996 - LABA		
								THU	09:00-09:50	W-DK-16	L	60	Y			
								TUE	09:00-09:50	W-DK-16	L	60	Y			
							03G	MON	13:00-13:50	W-DK-16	L	60	Y	1996 - LABA		
								THU	13:00-13:50	W-DK-16	L	60	Y			
								TUE	13:00-13:50	W-DK-16	L	60	Y			
							04G	MON	12:00-12:50	W-DK-16	L	60	Y	1996 - LABA		
								THU	12:00-12:50	W-DK-16	L	60	Y			
								TUE	12:00-12:50	W-DK-16	L	60	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	BUM2133	ORDINARY DIFFERENTIAL EQUATIONS		SEM 1 18/19	05G	MON	16:00-16:50	W-DK-16	L	60	Y	0632 - ZBI@M	03/01/2019 - AM	
								THU	16:00-16:50	W-DK-16	L	60	Y			
								TUE	16:00-16:50	W-DK-16	L	60	Y			
							06G	MON	13:00-13:50	W-DK-09	L	60	Y	0632 - ZBI@M		
								THU	13:00-13:50	W-DK-09	L	60	Y			
								TUE	13:00-13:50	W-DK-09	L	60	Y			
		2	BUM2313	NUMERICAL METHODS	This course introduces basic concepts of round-off and truncation errors, roots of equations, linear algebraic equations and matrices, curve fitting, numerical integration and ordinary differential equations of initial and boundary value problems. Appropriate software is used by students to implement some of these ideas in practice.											SEKSYEN DIGAMBANG BERMULA 01 SEHINGGA 03 DAN SEKSYEN DIPEKAN BERMULA 04 SEHINGGA 09
						SEM 1 18/19	01G	MON	12:00-12:50	W-DK-10	L	60	Y	01764 - NBA	03/01/2019 - PM	
								THU	12:00-12:50	W-DK-10	L	60	Y			
								TUE	12:00-12:50	W-DK-10	L	60	Y			
							02G	MON	13:00-13:50	W-DK-18	L	60	Y	01764 - NBA		
								THU	13:00-13:50	W-DK-18	L	60	Y			
								TUE	13:00-13:50	W-DK-18	L	60	Y			
							03G	MON	12:00-12:50	ZDK14	L	60	Y	01764 - NBA		
								THU	12:00-12:50	ZDK14	L	60	Y			
								TUE	12:00-12:50	ZDK14	L	60	Y			
		2	BUM2413	APPLIED STATISTICS	This course discusses on statistical problem-solving methodology and descriptive statistics; sampling distribution and confidence interval; hypothesis testing; analysis of variance (ANOVA); goodness-of fit test and contingency tables; regression and correlation including simple and multiple linear regressions. Statistical packages such as Microsoft Excel, SPSS, R Languange, S Plus, EViews and Minitab shall be used in this course.											SEKSYEN DIGAMBANG BERMULA 01 SEHINGGA 10 DAN SEKSYEN DIPEKAN BERMULA 11 SEHINGGA 16. SUBJEK INI HANYA DIAMBIL OLEH PELAJAR SESI 2010/2011 KEATAS SAHAJA.
						SEM 1 18/19	01G	MON	08:00-08:50	W-DK-17	L	60	Y	0281 - RBZ	02/01/2019 - AM	
								THU	08:00-08:50	W-DK-17	L	60	Y			
								TUE	08:00-08:50	W-DK-17	L	60	Y			
							02G	MON	09:00-09:50	W-DK-17	L	60	Y	01858 - MKBBMA		
								THU	09:00-09:50	W-DK-17	L	60	Y			
								TUE	09:00-09:50	W-DK-17	L	60	Y			
							03G	MON	10:00-10:50	W-DK-17	L	60	Y	01858 - MKBBMA		
								THU	10:00-10:50	W-DK-17	L	60	Y			
								TUE	10:00-10:50	W-DK-17	L	60	Y			
							04G	MON	11:00-11:50	W-DK-17	L	60	Y	0906 - SRBY		
								THU	11:00-11:50	W-DK-17	L	60	Y			
								TUE	11:00-11:50	W-DK-17	L	60	Y			
							05G	MON	12:00-12:50	W-DK-17	L	60	Y	01879 - KMNBKK		
								THU	12:00-12:50	W-DK-17	L	60	Y			
								TUE	12:00-12:50	W-DK-17	L	60	Y			
							06G	MON	13:00-13:50	W-DK-17	L	60	Y	01879 - KMNBKK		
								THU	13:00-13:50	W-DK-17	L	60	Y			
								TUE	13:00-13:50	W-DK-17	L	60	Y			
							07G	MON	14:00-14:50	W-DK-17	L	60	Y	01879 - KMNBKK		
								THU	14:00-14:50	W-DK-17	L	60	Y			
								TUE	14:00-14:50	W-DK-17	L	60	Y			
							08G	MON	15:00-15:50	W-DK-17	L	60	Y	01788 - CZL		
								THU	15:00-15:50	W-DK-17	L	60	Y			
								TUE	15:00-15:50	W-DK-17	L	60	Y			
							09G	MON	16:00-16:50	W-DK-17	L	60	Y	0472 - SZBS		
								THU	16:00-16:50	W-DK-17	L	60	Y			
								TUE	16:00-16:50	W-DK-17	L	60	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BUM2413**	**APPLIED STATISTICS**	**SEM 1 18/19**	10G	MON	12:00-12:50	ZDK11	L	60	Y	01788 - CZL	02/01/2019 - AM	
							THU	12:00-12:50	ZDK11	L	60	Y			
							TUE	12:00-12:50	ZDK11	L	60	Y			
						17G	MON	13:00-13:50	W-DK-11	L	60	Y	01858 - MKBBMA		
							THU	13:00-13:50	W-DK-11	L	60	Y			
							TUE	13:00-13:50	W-DK-11	L	60	Y			
						18G	MON	13:00-13:50	W-DK-04	L	60	Y	0906 - SRBY		
							THU	13:00-13:50	W-DK-04	L	60	Y			
							TUE	13:00-13:50	W-DK-04	L	60	Y			
						20G	MON	10:00-10:50	W-DK-18	L	60	Y	0906 - SRBY		
							THU	10:00-10:50	W-DK-18	L	60	Y			
							TUE	10:00-10:50	W-DK-18	L	60	Y			
						21G	MON	12:00-12:50	W-DK-15	L	40	Y	0472 - SZBS		
							THU	12:00-12:50	W-DK-15	L	40	Y			
							TUE	12:00-12:50	W-DK-15	L	40	Y			
						22G	MON	13:00-13:50	W-DK-10	L	60	Y	01788 - CZL		
							THU	13:00-13:50	W-DK-10	L	60	Y			
							TUE	13:00-13:50	W-DK-10	L	60	Y			
		2	**BUM2423**	**STATISTICS FOR MANAGEMENT**	This course discusses on statistical problem-solving methodology and descriptive statistics; sampling distribution and confidence interval; hypothesis testing; analysis of variance (ANOVA); goodness-of-fit test and contingency tables; regression and correlation including simple and multiple linear regressions. Statistical packages such as Microsoft Excel, SPSS, R Language, S Plus, EViews and Minitab shall be used in this course.										BAGI PROGRAM BAHARU FAKULTI TEKNOLOGI
					SEM 1 18/19	01	MON	12:00-12:50	BKO05	L	60	Y	01775 - NBA		
							THU	12:00-12:50	BKO05	L	60	Y			
							TUE	12:00-12:50	BKO05	L	60	Y			
						02	MON	13:00-13:50	BKO05	L	60	Y	01775 - NBA		
							THU	13:00-13:50	BKO05	L	60	Y			
							TUE	13:00-13:50	BKO05	L	60	Y			
			BUM1433	**DISCRETE STRUCTURE & APPLICATIONS**	This subject introduces and discusses the fundamental of the discrete as apply to computer science, focusing on providing a basic theoretical foundation for futher work. Students are exposed to basic countings; discrete probability; numerical, precision, accuracy and errors; graph; tress and modelling computations.This course integrates symbolic tools, graphical concepts and numerical calculations.										BAGI KURSUS INI ADALAH UNTUK PELAJAR SESI AMBILAN 2016/2017 FAKULTI SISTEM KOMPUTER & KEJURUTERAAN PERISIAN
					SEM 1 18/19	01	MON	10:00-10:50	BKO05	L	60	Y	0507 - MSBM		
							THU	10:00-10:50	ZDK14	L	60	Y			
							TUE	10:00-10:50	BKO05	L	60	Y			
						02	MON	12:00-12:50	Z01-0007	L	60	Y	0507 - MSBM		
							THU	12:00-12:50	Z01-0007	L	60	Y			
							TUE	12:00-12:50	Z01-0007	L	60	Y			
						03	MON	13:00-13:50	Z01-0007	L	60	Y	0507 - MSBM		
							THU	13:00-13:50	Z01-0007	L	60	Y			
							TUE	13:00-13:50	Z01-0007	L	60	Y			
						04	MON	13:00-13:50	Z01-0008	L	60	Y	2180 - ISBS		
							THU	13:00-13:50	Z01-0008	L	60	Y			
							TUE	13:00-13:50	Z01-0008	L	60	Y			
PEKAN	DEGREE	1	**BUF1113**	**BASIC PHYSICS**	This course is intended to expose the central ideas and principles of physics to students requiring a general background in physics. It covers unit and measurements, kinematics, forces and Newton's law of motion, statics equilibrium, work, energy and power, fluid mechanics, electricity and magnetism.										SEKSYEN DIGAMBANG ADALAH 01 DAN 02, SEKSYEN DIPEKAN 03 DAN 04.
					SEM 1 18/19										

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule / Pre-Requisite
PEKAN	DEGREE	1	BUF1113	BASIC PHYSICS	SEM 1 18/19	02P	MON	13:00-13:50	E00DK1	L	60	N	01277 - NBA	
							THU	13:00-13:50	E00DK1	L	60	N		
							TUE	13:00-13:50	E00DK1	L	60	N		
		1	BUM1113	TECHNICAL MATHEMATICS	This course introduces and discusses the fundamental of mathematics focusing on providing a solid theoretical foundation for further work. Student are exposed to review of factoring, functions and graphs, trigonometric functions, analytic geometry, polar coordinates, 3 dimensional spaces and vector. Appropriate software is used by students to implement some of these ideas in practice.									
					SEM 1 18/19	04P	MON	08:00-08:50	FKP-F-DK-03	L	60	Y	0523 - NBMS	03/01/2019 - AM
							THU	08:00-08:50	FKP-F-DK-03	L	60	Y		
							TUE	08:00-08:50	FKP-F-DK-03	L	60	Y		
						05P	MON	10:00-10:50	FKP-F-DK-03	L	60	Y	0523 - NBMS	
							THU	10:00-10:50	FKP-F-DK-03	L	60	Y		
							TUE	10:00-10:50	FKP-F-DK-03	L	60	Y		
		1	BUM2123	APPLIED CALCULUS	This course introduces Polar Coordinates and Vector, Vector-Valued Functions, Partial Derivatives, and Multiple Integrals. Appropriate software is used by students to implement some of these ideas in practice.									SEKSYEN UNTUK DIGAMBANG BERMULA 01 SEHINGGA 06 DAN SEKSYEN UNTUK DIPEKAN BERMULA 07 SEHINGGA 12
					SEM 1 18/19	07P	MON	08:00-08:50	M22BK6	L	60	Y	0993 - NIBJ	02/01/2019 - PM
							THU	08:00-08:50	M22BK6	L	60	Y		
							TUE	08:00-08:50	M22BK6	L	60	Y		
						08P	MON	09:00-09:50	M22BK6	L	60	Y	0993 - NIBJ	
							THU	09:00-09:50	M22BK6	L	60	Y		
							TUE	09:00-09:50	M22BK6	L	60	Y		
						09P	MON	11:00-11:50	M22BK6	L	60	Y	0993 - NIBJ	
							THU	11:00-11:50	M22BK6	L	60	Y		
							TUE	11:00-11:50	M22BK6	L	60	Y		
						10P	MON	14:00-14:50	M22BK6	L	10	Y	01824 - MABA	
							THU	14:00-14:50	M22BK6	L	10	Y		
							TUE	14:00-14:50	M22BK6	L	10	Y		
						11P	MON	15:00-15:50	M22BK6	L	60	Y	01824 - MABA	
							THU	15:00-15:50	M22BK6	L	60	Y		
							TUE	15:00-15:50	M22BK6	L	60	Y		
						12P	MON	13:00-13:50	M21BK8	L	60	Y	01824 - MABA	
							THU	13:00-13:50	M21BK8	L	60	Y		
							TUE	13:00-13:50	M21BK8	L	60	Y		
						M01	FRI	11:00-11:50	FKP-F-BK-06	L	0	Y	01637 - ARBMK 01764 - NBA	
								12:00-12:50	FKP-F-BK-06	L	0	Y	01824 - MABA	
							SAT	09:00-09:50	FKP-F-BK-06	L	0	Y		
								10:00-10:50	FKP-F-BK-06	L	0	Y		
								11:00-11:50	FKP-F-BK-06	L	0	Y		
		1	BUM2133	ORDINARY DIFFERENTIAL EQUATIONS	This course introduces to the Ordinary differential equations, Laplace transform and Fourier series and their applications in solving engineering problems.									SEKSYEN UNTUK DIGAMBANG BERMULA 01 SEHINGGA 06 DAN SEKSYEN DIPEKAN BERMULA 07 SEHINGGA 12

COURSE TIMETABLE

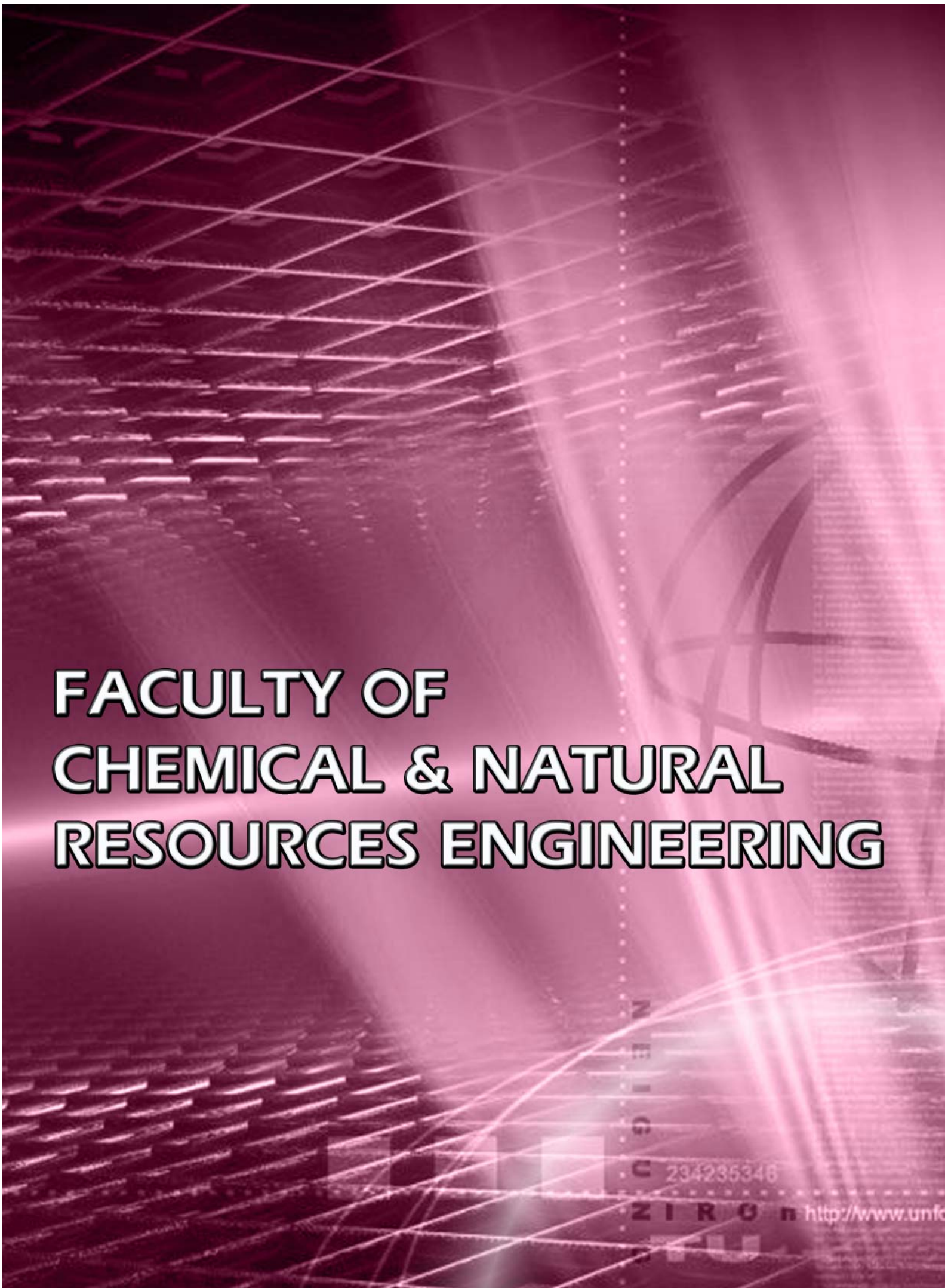
Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BUM2133**	**ORDINARY DIFFERENTIAL EQUATIONS**		**SEM 1 18/19**	07P	MON	08:00-08:50	M21BK3	L	60	Y	0486 - NBM	03/01/2019 - AM	
								THU	08:00-08:50	M21BK3	L	60	Y			
								TUE	08:00-08:50	M21BK3	L	60	Y			
							08P	MON	09:00-09:50	M21BK3	L	60	Y	0486 - NBM		
								THU	09:00-09:50	M21BK3	L	60	Y			
								TUE	09:00-09:50	M21BK3	L	60	Y			
							09P	MON	11:00-11:50	E21BK4	L	60	Y	2427 - NBMH		
								THU	11:00-11:50	E21BK4	L	60	Y			
								TUE	11:00-11:50	E21BK4	L	60	Y			
							10P	MON	14:00-14:50	M21BK3	L	60	Y	2427 - NBMH		
								THU	14:00-14:50	M21BK3	L	60	Y			
								TUE	14:00-14:50	M21BK3	L	60	Y			
							11P	MON	15:00-15:50	M21BK3	L	60	Y	2427 - NBMH		
								THU	15:00-15:50	M21BK3	L	60	Y			
								TUE	15:00-15:50	M21BK3	L	60	Y			
							12P	MON	16:00-16:50	M21BK3	L	60	Y	2427 - NBMH		
								THU	16:00-16:50	M21BK3	L	60	Y			
								TUE	16:00-16:50	M21BK3	L	60	Y			
		2	**BUM2313**	**NUMERICAL METHODS**	This course introduces basic concepts of round-off and truncation errors, roots of equations, linear algebraic equations and matrices, curve fitting, numerical integration and ordinary differential equations of initial and boundary value problems. Appropriate software is used by students to implement some of these ideas in practice.											SEKSYEN DIGAMBANG BERMULA 01 SEHINGGA 03 DAN SEKSYEN DIPEKAN BERMULA 04 SEHINGGA 09
						SEM 1 18/19	06P	MON	12:00-12:50	M21BK3	L	60	Y	01572 - NAZBMN	03/01/2019 - PM	
								THU	12:00-12:50	M21BK3	L	60	Y			
								TUE	12:00-12:50	M21BK3	L	60	Y			
							07P	MON	13:00-13:50	M21BK3	L	60	Y	01572 - NAZBMN		
								THU	13:00-13:50	M21BK3	L	60	Y			
								TUE	13:00-13:50	M21BK3	L	60	Y			
							08P	MON	10:00-10:50	M22BK6	L	60	Y	01572 - NAZBMN		
								THU	10:00-10:50	M22BK6	L	60	Y			
								TUE	10:00-10:50	M22BK6	L	60	Y			
							09P	MON	16:00-16:50	M22BK6	L	0	Y	2094 - NBMH		
								THU	16:00-16:50	M22BK6	L	0	Y			
								TUE	16:00-16:50	M22BK6	L	0	Y			
		2	**BUM2413**	**APPLIED STATISTICS**	This course discusses on statistical problem-solving methodology and descriptive statistics; sampling distribution and confidence interval; hypothesis testing; analysis of variance (ANOVA); goodness-of fit test and contingency tables; regression and correlation including simple and multiple linear regressions. Statistical packages such as Microsoft Excel, SPSS, R Languange, S Plus, EViews and Minitab shall be used in this course.											SEKSYEN DIGAMBANG BERMULA 01 SEHINGGA 10 DAN SEKSYEN DIPEKAN BERMULA 11 SEHINGGA 16. SUBJEK INI HANYA DIAMBIL OLEH PELAJAR SESI 2010/2011 KEATAS SAHAJA.
						SEM 1 18/19	11P	MON	08:00-08:50	E21BK4	L	60	Y	2428 - NZBMN	02/01/2019 - AM	
								THU	08:00-08:50	E21BK4	L	60	Y			
								TUE	08:00-08:50	E21BK4	L	60	Y			
							12P	MON	09:00-09:50	E21BK4	L	60	Y	2428 - NZBMN		
								THU	09:00-09:50	E21BK4	L	60	Y			
								TUE	09:00-09:50	E21BK4	L	60	Y			
							13P	MON	12:00-12:50	E21BK4	L	60	Y	2428 - NZBMN		
								THU	12:00-12:50	E21BK4	L	60	Y			
								TUE	12:00-12:50	E21BK4	L	60	Y			
							14P	MON	12:00-12:50	M22BK5	L	10	Y	2428 - NZBMN		
								THU	12:00-12:50	M22BK5	L	10	Y			
								TUE	12:00-12:50	M22BK5	L	10	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
PEKAN	DEGREE	2	**BUM2413**	**APPLIED STATISTICS**	**SEM 1 18/19**	15P	MON	13:00-13:50	E21BK4	L	60	Y	0747 - NBM	02/01/2019 - AM	
							THU	13:00-13:50	E21BK4	L	60	Y			
							TUE	13:00-13:50	E21BK4	L	60	Y			
						16P	MON	16:00-16:50	E21BK4	L	60	Y	0747 - NBM		
							THU	16:00-16:50	E21BK4	L	60	Y			
							TUE	16:00-16:50	E21BK4	L	60	Y			


FACULTY OF
CHEMICAL & NATURAL
RESOURCES ENGINEERING

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BKF1253**	**PHYSICAL CHEMISTRY**	This course discusses some introductory to thermodynamics in physical chemistry followed by continuation topics related to liquids and their mixtures, principles of chemical equilibrium and rate reactions. The solid surfaces including their applications will be also be discussed in this course. The development of key skills is facilitated by a program of tutorials and practical.										
					SEM 1 18/19	01	MON	10:00-10:50	W-DK-02	L	55	Y	TBA0001 - ES(	08/01/2019 - AM	
								11:00-11:50	W-DK-02	L	55	Y			
							WED	10:00-10:50	W-DK-02	L	55	Y			
						02	FRI	08:00-08:50	W-DK-02	L	55	Y	01614 - AHBS		
							THU	08:00-08:50	W-DK-02	L	55	Y			
								09:00-09:50	W-DK-02	L	55	Y			
						03	THU	16:00-16:50	W-DK-07	L	55	Y	2031 - VNDV		
							TUE	16:00-16:50	W-DK-07	L	55	Y			
								17:00-17:50	W-DK-07	L	55	Y			
		1	**BKF1313**	**ENGINEERING MECHANICS**	This subject will introduce students with concept of statics and dynamics and its application in related engineering field. The topics covered in this subject are static of particle, static of rigid body, distributed forces, analysis of structure, friction, kinematics and kinetics of particles. By completing the course, students will comprehend the basic mechanisms and applications of statics and dynamics in related engineering field.										
					SEM 1 18/19	01	MON	16:00-16:50	W-DK-02	L	55	Y	0149 - KBY	06/01/2019 - PM	
								17:00-17:50	W-DK-02	L	55	Y			
							TUE	16:00-16:50	W-DK-02	L	55	Y			
								17:00-17:50	W-DK-02	L	55	Y			
						02	TUE	08:00-08:50	W-DK-02	L	55	Y	01570 - HDBS		
								09:00-09:50	W-DK-02	L	55	Y			
							WED	08:00-08:50	W-DK-02	L	55	Y			
								09:00-09:50	W-DK-02	L	55	Y			
						03	FRI	10:00-10:50	W-DK-02	L	55	Y	TBA0001 - ES(		
								11:00-11:50	W-DK-02	L	55	Y			
							THU	11:00-11:50	W-DK-02	L	55	Y			
								12:00-12:50	W-DK-02	L	55	Y			
		1	**BKF1323**	**ORGANIC CHEMISTRY**	This course discuss the fundamental theory of the properties, synthesis and organic reactions where use the functional group as framework as a basic level courses with an organic chemical content. This course focuses on the key concepts of organic chemistry through a study of the reactions of selected nonfunctional aliphatic, alicyclic, cyclic and aromatic molecules. Particular emphasis is placed on the underlying mechanistic pathways that are involved and the stereochemistry of the molecular structure is also considered										
					SEM 1 18/19	01	FRI	09:00-09:50	W-DK-01	L	55	Y	0439 - AABMA	10/01/2019 - AM	
							MON	08:00-08:50	W-DK-01	L	55	Y			
								09:00-09:50	W-DK-01	L	55	Y			
						02	THU	10:00-10:50	W-DK-01	L	55	Y	TBA0001 - ES(		
							TUE	10:00-10:50	W-DK-01	L	55	Y			
								11:00-11:50	W-DK-01	L	55	Y			
						03	MON	16:00-16:50	W-DK-07	L	55	Y	TBA0001 - ES(		
								17:00-17:50	W-DK-07	L	55	Y			
							THU	17:00-17:50	W-DK-07	L	55	Y			
		1	**BKF1333**	**THERMODYNAMICS**											

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE	1	**BKF1333**	**THERMODYNAMICS**	This course is designed to introduce basic concept in thermodynamics. Topics cover are properties of pure substances, thermodynamics system, heat and work, the first law of thermodynamics for closed systems, open systems and their application in steady-flow and unsteady-flow processes, the second law of thermodynamics, entropy, introduction to refrigeration and steam power plant.										
					SEM 1 18/19	01	MON	16:00-16:50	W-DK-03	L	55	Y	0300 - JBG	12/01/2019 - PM	
								17:00-17:50	W-DK-03	L	55	Y			
							TUE	16:00-16:50	W-DK-03	L	55	Y			
								17:00-17:50	W-DK-03	L	55	Y			
						02	TUE	08:00-08:50	W-DK-01	L	55	Y	01768 - AIBN		
								09:00-09:50	W-DK-01	L	55	Y			
							WED	08:00-08:50	W-DK-03	L	55	Y			
								09:00-09:50	W-DK-03	L	55	Y			
						03	FRI	10:00-10:50	W-DK-01	L	55	Y	01570 - HDBS		
								11:00-11:50	W-DK-01	L	55	Y			
							THU	11:00-11:50	W-DK-03	L	55	Y			
								12:00-12:50	W-DK-03	L	55	Y			
		1	**BKF1513**	**ENGINEERING ETHICS & PROFESSIONALISM**	This subject gives an overview of engineering, the profession and its requirement in Malaysia scenario. Topics that will be included ethics, management and contribution of engineering also generic skills and study skills. Basic calculations, unit conversions, create an engineering graph and solving iterative problem using computer consisted in this subject as preparation as an engineering's student. Plant visit and seminar as an exposure to the real field of engineering.										
					SEM 1 18/19	01	FRI	09:00-09:50	W-DK-02	L	55	Y	01157 - MBBMP	12/01/2019 - AM	
							MON	08:00-08:50	W-DK-02	L	55	Y			
								09:00-09:50	W-DK-02	L	55	Y			
						02	THU	10:00-10:50	W-DK-02	L	55	Y	0332 - WMHBWY		
							TUE	10:00-10:50	W-DK-02	L	55	Y			
								11:00-11:50	W-DK-02	L	55	Y			
						03	FRI	15:00-15:50	W-DK-01	L	55	Y	TBA0001 - ES(		
							THU	14:00-14:50	W-DK-02	L	55	Y			
								15:00-15:50	W-DK-02	L	55	Y			
		1	**BKF1751**	**BASIC SCIENCE & ENGINEERING LAB**											

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BKF1751**	**BASIC SCIENCE & ENGINEERING LAB**	In basic engineering lab, students are required to perform laboratory works which covered the basic concept of physical and chemistry such as concepts of solubility and miscibility, buffer effect, heat determination and gravimetric analysis of chloride. The lab also contains experiments which cover the basic concepts of engineering such as pressure change analysis, head losses in piping system and material properties. The aim is to strengthen the student's fundamental knowledge as it covers some of the basic science and engineering subjects such as physical and organic chemistry, fluid mechanics, thermodynamics and science and engineering materials.										
					SEM 1 18/19	01	MON	14:00-14:50	FTA02L	B	30	N	0377 - NBR		
								15:00-15:50	FTA02L	B	30	N			
								16:00-16:50	FTA02L	B	30	N			
						02	TUE	14:00-14:50	FTA02L	B	30	N	0128 - FBA		
								15:00-15:50	FTA02L	B	30	N			
								16:00-16:50	FTA02L	B	30	N			
						03	WED	10:00-10:50	FTA02L	B	30	N	01107 - SBJ		
								11:00-11:50	FTA02L	B	30	N			
								12:00-12:50	FTA02L	B	30	N			
						04	THU	14:00-14:50	FTA02L	B	30	N	0528 - ABI		
								15:00-15:50	FTA02L	B	30	N			
								16:00-16:50	FTA02L	B	30	N			
						05	FRI	08:00-08:50	FTA02L	B	30	N	01547 - SNBI		
								09:00-09:50	FTA02L	B	30	N			
								10:00-10:50	FTA02L	B	30	N			
		1	**BTR1112**	**CHEMISTRY LABORATORY**	In chemistry laboratory the students are responsible to conduct the basic physical, organic and analytical chemistry experimentssuch as solubility, miscibility, chemical equilibrium, buffer and pH changes, calorimetry, solvent extraction, gravimetric, UV-VIS spectrometer, FTIR, DSC and gas chromotography. At the end of experiments, the students should be able to inculcate the critical thinking and able to work in safe working condition.										
					SEM 1 18/19	01	THU	09:00-09:50	FTA02L	B	30	N	1371 - HAAB		
								10:00-10:50	FTA02L	B	30	N			
								11:00-11:50	FTA02L	B	30	N			
								12:00-12:50	FTA02L	B	30	N			
		1	**BTR1123**	**PHYSICAL CHEMISTRY**	This courses discusses some introductory to thermodynamics in physical chemistry followed by continuation topics related to liquids and their mixtures, principles of chemical equilibrium and rate of reactions. The solid surfaces including their applications will also be discussed in this course. The development of key skills is facilitated by a program of tutorials and practical.										
					SEM 1 18/19	01	MON	08:00-08:50	V-BK-04	L	30	Y	01563 - NBA	08/01/2019 - AM	
								09:00-09:50	V-BK-04	L	30	Y			
							WED	08:00-08:50	V-BK-05	L	30	Y			
		1	**BTR1133**	**ORGANIC CHEMISTRY**	This course discuss the fundamental theory of the properties, synthesis and organic reactions where use the functional group as framework as a basic level courses with an organic chemical content. This course focuses on the key concepts of organic chemistry through a study of the reactions selected nonfunctional aliphatic, alicyclic, cyclic and aromatic molecules. Particular emphasis is placed on the underlying mechanistic pathway that are involved and their stereochemical consequences. The stereochemistry of the molecular structure is also considered.										
					SEM 1 18/19	01	FRI	10:00-10:50	V-BK-04	L	30	Y	0439 - AABMA	10/01/2019 - AM	
								11:00-11:50	V-BK-04	L	30	Y			
							TUE	10:00-10:50	V-BK-05	L	30	Y			
		1	**BTR1214**	**STATIC & STRENGTH OF MATERIALS**	This subject will introduce students with concept of statics and strength of materials and its application in related engineering field. The topics covered in this subject are static of particle, static of rigid body, distributed forces, analysis of structure, friction, stress and strain for axial forces, shear forces & bending										

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BTR1214**	**STATIC & STRENGTH OF MATERIALS**	moments in beam and torsion. Four laboratory works will be assigned in this subject. By completing the course, students will comprehend the basic mechanisms and applications of statics and strength of materials in related engineering field.										
					SEM 1 18/19	01	MON	14:00-14:50	FTA07L	B	30	Y	0149 - KBY	07/01/2019 - AM	
								15:00-15:50	FTA07L	B	30	Y			
							THU	17:00-17:50	W-DK-04	L	30	Y			
							TUE	14:00-14:50	W-DK-03	L	30	Y			
								15:00-15:50	W-DK-03	L	30	Y			
		1	**BTR1223**	**THERMODYNAMICS**	This course is designed to introduce basic concept in thermodynamic in a thorough way. Topics cover are properties of pure substances, thermodynamics system, heat transfer through conduction, convection and radiation, the first law of thermodynamics for closed systems, open systems and their application in steady-flow and unsteady-flow processes, the second law of thermodynamics, entropy, introduction to refrigeration and steam power plant.										
					SEM 1 18/19	01	FRI	10:00-10:50	FTA14L	B	30	Y	0117 - MBI	12/01/2019 - PM	
								11:00-11:50	FTA14L	B	30	Y			
							TUE	11:00-11:50	V-BK-05	L	30	Y			
								12:00-12:50	V-BK-05	L	30	Y			
		1	**BTR1234**	**ANALYTICAL CHEMISTRY**	The syllabus covers the basic knowledge and application of sample and data handling, calibration techniques, data evaluation and quality of analysis in analytical laboratory. It also deals with separation techniques and its basis application such as GC and HPLC. The introduction to the theory and application of spectroscopic techniques used in chemical analysis such as UV-Vis, FT-IR and AAS are discussed. The combinations of above techniques with their advantages are covered in this course.										
					SEM 1 18/19	01	MON	11:00-11:50	W-DK-03	L	30	Y	0530 - NIABAN	04/01/2019 - PM	
								12:00-12:50	W-DK-03	L	30	Y			
							WED	11:00-11:50	W-DK-05	L	30	Y			
								12:00-12:50	W-DK-05	L	30	Y			
		1	**BTR3152**	**ENGINEERING TECHNOLOGIST & SOCIETY**	This subject introduces to the students about personality and behaviors. Those are very important in their careers as engineering technologist. as well as their services given to public or to the community. The topic that will be included in this subject are professinalism, ethics, communication, management skill, and philosophy of engineering technology. This skill might be required in their future career to ensure their servics give a positive impacts to the sociiety. By completing this subject the student should understand the professional body involved in their careers and also understand how to be a professional engineering technologist in the future.										
					SEM 1 18/19	01	MON	16:00-16:50	V-BK-04	L	30	Y	0336 - ABA	05/01/2019 - AM	
								17:00-17:50	V-BK-04	L	30	Y			
		2	**BKC2463**	**SCIENCE & ENGINEERING MATERIALS**											

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BKC2463**	**SCIENCE & ENGINEERING MATERIALS**	This course is designed to provide knowledge and skill in the solving of materials problems encountered by the engineers in developing the new and improved materials used in chemical processes. The approach used is the correlation of engineering properties with atomic and microstructures, utilizing the analysis techniques of materials characterization and phase relationships. Topics include structure and properties of metallic and nonmetallic materials of construction; interrelations between chemical bonding, structure, and behaviour of materials, corrosion resistant materials, polymers and composites as construction materials, particularly for sustainable environment. Each of the materials classes (metals, ceramics, polymer and composites) is discussed in detail in this context.												
						SEM 1 18/19	01	MON	11:00-11:50	W-DK-04	L	55	Y	0614 - NBM	08/01/2019 - PM	
									12:00-12:50	W-DK-04	L	55	Y			
								TUE	12:00-12:50	W-DK-04	L	55	Y			
							02	THU	14:00-14:50	W-DK-04	L	55	Y	1475 - MDHB		
								TUE	14:00-14:50	W-DK-04	L	55	Y			
									15:00-15:50	W-DK-04	L	55	Y			
							03	TUE	08:00-08:50	W-DK-05	L	55	Y	01501 - SBG		
									09:00-09:50	W-DK-05	L	55	Y			
								WED	10:00-10:50	W-DK-05	L	55	Y			
		2	**BKF2143**	**COMPUTER PROGRAMMING FOR ENGINEERS**	This subject aims to introduce the fundamental element and feasibilities of the computer programming by using MATLAB mathematical computing program. Students will be taught on analyzing data, developing a program using m-file and using the command window. They will learn to solve general engineering mathematical equations in MATLAB, displaying the data via 2D and 3D graphs and to learn to develop the graphical user interface (GUI) for program.												
						SEM 1 18/19	01	TUE	14:00-14:50	FTA16L	B	30	N	01670 - RBJ		
									15:00-15:50	FTA16L	B	30	N			
									16:00-16:50	FTA16L	B	30	N			
							02	THU	10:00-10:50	FTA16L	B	30	N	0536 - RBAR		
									11:00-11:50	FTA16L	B	30	N			
									12:00-12:50	FTA16L	B	30	N			
							03	FRI	08:00-08:50	FTA16L	B	30	N	1542 - AG		
									09:00-09:50	FTA16L	B	30	N			
									10:00-10:50	FTA16L	B	30	N			
							04	THU	14:00-14:50	FTA16L	B	30	N	1542 - AG		
									15:00-15:50	FTA16L	B	30	N			
									16:00-16:50	FTA16L	B	30	N			
							05	MON	14:00-14:50	FTA16L	B	30	N	TBA0001 - ES(		
									15:00-15:50	FTA16L	B	30	N			
									16:00-16:50	FTA16L	B	30	N			
		2	**BKF2332**	**ELECTRICAL & INSTRUMENTATION TECHNOLOGY**	This course is designed to introduce the fundamental of electrical system principles for chemical engineering students. The underlying principles that will be covered in this course include an introduction to an electrical system, electrical safety, basic laws (Ohm's law, Kirchhoff laws, current/voltage divider, wye-delta transformation), simple direct current (d.c.) circuits, method of analysis, circuit theorems, single phase series and parallel circuits series, parallel combination of resistor, inductor and capacitor, power in AC circuit, single and multiphase systems and alternating current. Apart from that, student also introduce to the topics on instrumentation which include introduction to process instrumentation elements and instrumentation devices.												
						SEM 1 18/19	01	MON	14:00-14:50	W-DK-03	L	45	Y	0117 - MBI	05/01/2019 - PM	
									15:00-15:50	W-DK-03	L	45	Y			
							02	WED	11:00-11:50	W-DK-03	L	45	Y	01392 - NBAY		
									12:00-12:50	W-DK-03	L	45	Y			
							03	FRI	08:00-08:50	W-DK-03	L	45	Y	01674 - MFBA		
									09:00-09:50	W-DK-03	L	45	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BKF2343**	**MATERIAL & ENERGY BALANCE**	This course aims to equip students with basic chemical engineering principles such as different unit systems, unit conversion and process variables determination. This knowledge will then be applied extensively for material and energy balances for single or multiple unit operations of non-reactive and reactive chemical processes. In addition, students will also be exposed to the behavior of single phase and multiple phases and the equations that govern their characteristic, which represents the foundation of chemical separation engineering. Computer application using MS Excel to solve the material and energy balance also imbedded in this course.										
					SEM 1 18/19	01	MON	16:00-16:50	W-DK-04	L	45	Y	0528 - ABI	11/01/2019 - PM	
								17:00-17:50	W-DK-04	L	45	Y			
							TUE	16:00-16:50	W-DK-04	L	45	Y			
								17:00-17:50	W-DK-04	L	45	Y			
						02	THU	08:00-08:50	W-DK-04	L	45	Y	01352 - RBA		
								09:00-09:50	W-DK-04	L	45	Y			
							WED	08:00-08:50	W-DK-04	L	45	Y			
								09:00-09:50	W-DK-04	L	45	Y			
						03	FRI	10:00-10:50	W-DK-04	L	45	Y	0078 - MNBAS		
								11:00-11:50	W-DK-04	L	45	Y			
							THU	11:00-11:50	W-DK-04	L	45	Y			
								12:00-12:50	W-DK-04	L	45	Y			
						04	MON	11:00-11:50	W-DK-07	L	45	Y	TBA0001 - ES(		
								12:00-12:50	W-DK-07	L	45	Y			
							WED	11:00-11:50	W-DK-01	L	45	Y			
								12:00-12:50	W-DK-01	L	45	Y			
		2	**BKF2353**	**FLUID MECHANICS**	The objective of this course is to introduce the concept and use of fluid mechanics, both static and dynamics fluid. The covered topics are fluid properties, fluid static and dynamics, Bernoulli's equation and applications, momentum equation and its application, analysis of flow in pipeline system and dimensional analysis										
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-04	L	55	Y	0174 - SBAR	09/01/2019 - AM	
								09:00-09:50	W-DK-04	L	55	Y			
							TUE	08:00-08:50	W-DK-04	L	55	Y			
						02	TUE	10:00-10:50	W-DK-04	L	55	Y	1373 - AHN		
								11:00-11:50	W-DK-04	L	55	Y	2347 - MMF		
							WED	10:00-10:50	W-DK-04	L	55	Y			
						03	FRI	15:00-15:50	W-DK-04	L	55	Y	1373 - AHN		
							THU	15:00-15:50	W-DK-04	L	55	Y	2347 - MMF		
								16:00-16:50	W-DK-04	L	55	Y			
		2	**BKF2413**	**CHEMICAL ENGINEERING THERMODYNAMICS**											

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE	2	**BKF2413**	**CHEMICAL ENGINEERING THERMODYNAMICS**	This subject mainly covers the topics of pure substances, heat effects, thermodynamics properties, VLE,thermodynamics solution and chemical reaction equilibrium. The course entails the theory and applications of thermodynamics concept and deals with composition-dependent thermodynamics relations. This course requires conceptual thinking and requires greater mathematical sophistication to generate ideas and problem solving.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	MON	08:00-08:50	W-DK-03	L	55	Y	0233 - SBAR	07/01/2019 - AM	BKF1333
			09:00-09:50	W-DK-03	L	55	Y			
		TUE	08:00-08:50	W-DK-03	L	55	Y			
			09:00-09:50	W-DK-03	L	55	Y			
	02	MON	14:00-14:50	W-DK-01	L	55	Y	0751 - SKBAM		
			15:00-15:50	W-DK-01	L	55	Y			
		TUE	10:00-10:50	W-DK-03	L	55	Y			
			11:00-11:50	W-DK-03	L	55	Y			
	03	FRI	15:00-15:50	W-DK-03	L	55	Y	0318 - CCK		
			16:00-16:50	W-DK-03	L	55	Y			
		THU	14:00-14:50	W-DK-03	L	55	Y			
			15:00-15:50	W-DK-03	L	55	Y			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		2	**BKF2423**	**HEAT TRANSFER**	The objective of this course is to provide students with the concepts of heat transfer. This course will emphasize on the principles of the heat transfer in steady state by conduction, convection and radiation. Students will be exposed to the procedure for general problem solving and its application on heat exchanger. Experiments involve shell and tube heat exchanger and plate heat exchanger have been designed. Students will be given experiment objectives and conduct the experiment in group. Subsequently, the principles of unsteady-state convective heat transfer will be covered at the end of the course.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	FRI	15:00-15:50	FTA05L	B	45	Y	01561 - NHBH	04/01/2019 - AM	
			15:00-15:50	W-DK-07	L	45	Y			
			16:00-16:50	FTA05L	B	45	Y			
			16:00-16:50	W-DK-07	L	45	Y			
		TUE	08:00-08:50	W-DK-07	L	45	Y			
			09:00-09:50	W-DK-07	L	45	Y			
	02	THU	14:00-14:50	W-DK-07	L	45	Y	0542 - NABMA		
			15:00-15:50	W-DK-07	L	45	Y			
		WED	08:00-08:50	FTA05L	B	45	Y			
			08:00-08:50	W-DK-07	L	45	Y			
			09:00-09:50	FTA05L	B	45	Y			
			09:00-09:50	W-DK-07	L	45	Y			
	03	MON	14:00-14:50	W-DK-07	L	45	Y	01550 - NHBR@S		
			15:00-15:50	W-DK-07	L	45	Y			
		THU	11:00-11:50	FTA05L	B	45	Y			
			11:00-11:50	W-DK-07	L	45	Y			
			12:00-12:50	FTA05L	B	45	Y			
			12:00-12:50	W-DK-07	L	45	Y			

Campus	Level	Year	Code	Course Name
		2	**BKF2432**	**MASS TRANSFER**

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BKF2432**	**MASS TRANSFER**	This course is to provide students with the concepts of mass transfer. This course will emphasize on the principles of the mass transfer in gases, liquids, biological solutions and gels, and solids. Subsequently, the principles of unsteady state and convective mass transfer will be covered to establish knowledge of mass transfer. The students will be exposed to the procedure for general problem solving and its application on real system.										
					SEM 1 18/19	01	MON	10:00-10:50	W-DK-04	L	55	Y	01603 - NHBMY	06/01/2019 - AM	
							WED	11:00-11:50	W-DK-04	L	55	Y			
								12:00-12:50	W-DK-04	L	55	Y			
						02	MON	14:00-14:50	W-DK-04	L	55	Y	0128 - FBA		
								15:00-15:50	W-DK-04	L	55	Y			
							THU	10:00-10:50	W-DK-07	L	55	Y			
						03	FRI	08:00-08:50	W-DK-04	L	55	Y	0377 - NBR		
								09:00-09:50	W-DK-04	L	55	Y			
							TUE	12:00-12:50	W-DK-07	L	55	Y			
		2	**BKF2443**	**NUMERICAL METHODS & OPTIMIZATION**	This subject teaches the techniques by which mathematical problems are formulated so that they can be solved with arithmetic operations. Topics covered in this subject are roots of equation, systems of linear algebraic equations, optimization, curve fitting, numerical differentiation & integration, ordinary differential equation and partial differential equation. Some software packages are introduced to empower the students in problem solving.										
					SEM 1 18/19	01	MON	16:00-16:50	W-DK-01	L	55	Y	0441 - NBZ	10/01/2019 - PM	BUM2133
								17:00-17:50	W-DK-01	L	55	Y			
							TUE	16:00-16:50	W-DK-01	L	55	Y			
								17:00-17:50	W-DK-01	L	55	Y			
						02	THU	08:00-08:50	W-DK-01	L	55	Y	0450 - RBAS		
								09:00-09:50	W-DK-01	L	55	Y			
							WED	08:00-08:50	W-DK-01	L	55	Y			
								09:00-09:50	W-DK-01	L	55	Y			
						03	THU	11:00-11:50	W-DK-01	L	55	Y	0441 - NBZ		
								12:00-12:50	W-DK-01	L	55	Y			
							TUE	14:00-14:50	W-DK-01	L	55	Y			
								15:00-15:50	W-DK-01	L	55	Y			
		2	**BKF2453**	**CHEMICAL REACTION ENGINEERING I**	This subject covers the knowledge of the reaction kinetics and reactor design which distinguishes chemical engineer from chemist, technologyst and other engineers. The course introduces the basic design calculation and design of chemical reactors at ideal conditions. The topics covered in this subject are kinetics of homogenous reactions, chemical reactions in batch and continuous reactors, multiple reactions and reactor heat effect.										
					SEM 1 18/19	01	THU	08:00-08:50	W-DK-07	L	55	Y	0313 - MSBM	12/01/2019 - PM	BKF2343
								09:00-09:50	W-DK-07	L	55	Y			
							WED	08:00-08:50	W-DK-06	L	55	Y			
								09:00-09:50	W-DK-06	L	55	Y			
						02	MON	16:00-16:50	W-DK-06	L	55	Y	1648 - MMRK		
								17:00-17:50	W-DK-06	L	55	Y			
							TUE	16:00-16:50	W-DK-06	L	55	Y			
								17:00-17:50	W-DK-06	L	55	Y			
						03	FRI	15:00-15:50	W-DK-05	L	55	Y	0313 - MSBM		
								16:00-16:50	W-DK-05	L	55	Y	1648 - MMRK		
							THU	14:00-14:50	W-DK-01	L	55	Y			
								15:00-15:50	W-DK-01	L	55	Y			
		2	**BTR2113**	**FLUID MECHANICS**	This module will introduce students to the principals of fluid mechanics. Students will apply these principles to the solution of engineering problems such as pipe sizing and the selection of system components such as valves and pumps. The module goal is to enable the student to develop the										

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	BTR2113	FLUID MECHANICS	knowledge and analytical skills in solving practical problems of fluid mechanics, through applications to system design and performance studies.										
					SEM 1 18/19	01	THU	14:00-14:50	V-BK-05	L	30	Y	0114 - C@YGK	09/01/2019 - AM	
								15:00-15:50	V-BK-05	L	30	Y			
							WED	08:00-08:50	FTA02L	B	30	Y			
								09:00-09:50	FTA02L	B	30	Y			
		2	BTR2153	CHEMICAL PROCESSES PRINCIPLE											
					SEM 1 18/19	01	THU	10:00-10:50	W-DK-06	L	45	Y	TBA0001 - ES(		
								11:00-11:50	W-DK-06	L	45	Y			
							WED	10:00-10:50	W-DK-03	L	45	Y			
		2	BTR2213	TRANSPORT PHENOMENON IN POLYMER											
					SEM 1 18/19	01	MON	10:00-10:50	W-DK-06	L	45	Y	TBA0001 - ES(		
								11:00-11:50	W-DK-06	L	45	Y			
							TUE	12:00-12:50	W-DK-02	L	45	Y			
		2	BTR2253	COMPUTER PROGRAMMING FOR TECHNOLOGIST											
					SEM 1 18/19	01	THU	08:00-08:50	FTA16L	B	25	Y	TBA0001 - ES(		
								09:00-09:50	FTA16L	B	25	Y			
							WED	08:00-08:50	FTA16L	B	25	Y			
								09:00-09:50	FTA16L	B	25	Y			
						02	THU	08:00-08:50	FTA17L	B	25	Y	TBA0001 - ES(		
								09:00-09:50	FTA17L	B	25	Y			
							WED	08:00-08:50	FTA17L	B	25	Y			
								09:00-09:50	FTA17L	B	25	Y			
		3	BKC3492	SEPARATION PROCESS	This course aims to introduce the principles of typical unit operations involved in chemical and petrochemical industry such as drying of process material, adsorption and fixed-bed separation, membrane separation, mechanical-physical separation and crystallization. At the end of this course, it is expected that the students will understand theories, principles, calculations and basic design parameters associated with every unit operation.										
					SEM 1 18/19	01	MON	11:00-11:50	W-DK-05	L	55	Y	0581 - ZBJ	07/01/2019 - PM	BKF2343
								12:00-12:50	W-DK-05	L	55	Y			
						02	THU	16:00-16:50	W-DK-03	L	55	Y	0126 - AZBS		
								17:00-17:50	W-DK-03	L	55	Y			
						03	WED	11:00-11:50	W-DK-02	L	55	Y	1371 - HAAB		
								12:00-12:50	W-DK-02	L	55	Y			
		3	BKC3533	OSH IN CHEMICAL INDUSTRIES	This course is primarily to expose students with the fundamental concepts, practical aspects and applications of occupational safety and health (OSH) in chemical and biotechnology industries. Among others, the students will be taught the fundamental application and day-to-day aspects of OSH and at the same time, the management aspects of it. Local and international regulations of SH&E such as OSHA and FMA will also be covered. Case studies from several chemical and biotechnology industries globally will also be discussed in details.										
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-06	L	55	Y	0322 - MAKBMZ	11/01/2019 - AM	
								09:00-09:50	W-DK-06	L	55	Y			
							TUE	12:00-12:50	W-DK-06	L	55	Y			
						02	TUE	14:00-14:50	W-DK-06	L	55	Y	01022 - ABR		
								15:00-15:50	W-DK-06	L	55	Y			
							WED	12:00-12:50	W-DK-06	L	55	Y			
						03	FRI	10:00-10:50	W-DK-03	L	55	Y	0819 - IBI		
								11:00-11:50	W-DK-03	L	55	Y			
							THU	10:00-10:50	W-DK-03	L	55	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BKC3883**	**PROCESS INTEGRATION (E)**	This course deals with the concept of process integration consisting of mass integration, heat integration and cogeneration. The course uses pinch analysis to achieve the maximum both energy and mass recovery. The course also explains the integration and combination of power and steam.										
					SEM 1 18/19	01	MON	12:00-12:50	V-BK-05	L	25	N	1747 - AH		
							TUE	14:00-14:50	V-BK-07	L	25	N			
								15:00-15:50	V-BK-07	L	25	N			
		3	**BKF3142**	**PROCESS ENGINEERING ECONOMICS**	This course deals with cost analysis in engineering decision-making, the management aspects and control of complex projects. Engineering economics topics include cost estimation, time value of money, interest formulas and equivalence calculations, measures of investment worth, depreciation and income tax analysis.										
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-07	L	55	Y	01192 - MNBN	04/01/2019 - AM	
								09:00-09:50	W-DK-07	L	55	Y			
						02	TUE	14:00-14:50	W-DK-07	L	55	Y	0076 - MSZBMD		
								15:00-15:50	W-DK-07	L	55	Y			
						03	FRI	15:00-15:50	W-DK-02	L	55	Y	01352 - RBA		
								16:00-16:50	W-DK-02	L	55	Y			
		3	**BKF3413**	**PROCESS CONTROL & DYNAMIC**	This is an introductory level course in chemical process dynamics and control. The topics that will be included in this subject are fundamentals and concepts of control system, development of theoretical model for chemical and physicals processes, application of Laplace transform and transfer function, dynamic behavior of first order, second order and higher order chemical processes. In addition the feedback control system is also covered through the block diagram, design and analysis of control system, stability analysis, advanced process control based on multiloop control and piping and instrumentation diagram.										
					SEM 1 18/19	01	MON	16:00-16:50	W-DK-05	L	55	Y	0582 - NAFBAS	05/01/2019 - AM	BKF2343
								17:00-17:50	W-DK-05	L	55	Y			
							TUE	16:00-16:50	W-DK-05	L	55	Y			
								17:00-17:50	W-DK-05	L	55	Y			
						02	THU	08:00-08:50	W-DK-05	L	55	Y	0118 - NBH		
								09:00-09:50	W-DK-05	L	55	Y			
							WED	08:00-08:50	W-DK-05	L	55	Y			
								09:00-09:50	W-DK-05	L	55	Y			
						03	FRI	10:00-10:50	W-DK-05	L	55	Y	1496 - RK		
								11:00-11:50	W-DK-05	L	55	Y			
							THU	11:00-11:50	W-DK-05	L	55	Y			
								12:00-12:50	W-DK-05	L	55	Y			
		3	**BKF3463**	**UNIT OPERATION**											

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BKF3463**	**UNIT OPERATION**	The objective of this course is to provide students with concepts of separation processes and unit operation in chemical engineering. It will cover the gas-liquid, vapor-liquid, liquid-liquid and solid-liquid separation process. By completing the subject, students will understand the basic mechanisms, operations and basic design parameters of the selected unit operations such as evaporation, distillation, absorption, liquid extraction and leaching.										
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-05	L	45	Y	0541 - SBMSN	09/01/2019 - PM	BKF2343
								09:00-09:50	W-DK-05	L	45	Y			
							TUE	08:00-08:50	W-DK-06	L	45	Y			
								09:00-09:50	W-DK-06	L	45	Y			
						02	TUE	10:00-10:50	W-DK-07	L	45	Y	01646 - NSBAM		
								11:00-11:50	W-DK-07	L	45	Y			
							WED	10:00-10:50	W-DK-06	L	45	Y			
								11:00-11:50	W-DK-06	L	45	Y			
						03	MON	14:00-14:50	W-DK-05	L	45	Y	0538 - SBZAM		
								15:00-15:50	W-DK-05	L	45	Y			
							THU	14:00-14:50	W-DK-06	L	45	Y			
								15:00-15:50	W-DK-06	L	45	Y			
						04	FRI	16:00-16:50	W-DK-04	L	45	Y	01055 - FBAZ		
								17:00-17:50	W-DK-04	L	45	Y			
							TUE	14:00-14:50	W-DK-02	L	45	Y			
								15:00-15:50	W-DK-02	L	45	Y			
		3	**BKF3472**	**CHEMICAL REACTION ENGINEERING II**	This subject furthers the knowledge of chemical reactor. Topics to be covered are the heterogeneous systems of the catalytic reaction, including the effects which significantly influence the reactor performance, the study of the real scenario for nonideal reactors in industries, and introduction of biochemical reaction systems. The analysis of industrial chemical reactors frequently requires solution of non-linear algebraic and differential equations. Hence, modeling the nonideal reactor will be the crucial skill to fulfill the outcome requirement for each chemical engineer and researcher in chemical reaction engineering.										
					SEM 1 18/19	01	FRI	08:00-08:50	W-DK-05	L	55	Y	0532 - RBI	12/01/2019 - AM	BKF2453
								09:00-09:50	W-DK-05	L	55	Y			
						02	TUE	10:00-10:50	W-DK-05	L	55	Y	0456 - JHBHS		
								11:00-11:50	W-DK-05	L	55	Y	1648 - MMRK		
						03	THU	16:00-16:50	W-DK-05	L	55	Y	0456 - JHBHS		
								17:00-17:50	W-DK-05	L	55	Y	1648 - MMRK		
		3	**BKF3553**	**PROCESS SIMULATION & COMPUTER AIDED DESIGN**											

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BKF3553**	**PROCESS SIMULATION & COMPUTER AIDED DESIGN**	This particular course will introduce the usage of process simulation and flow sheeting software to students, i.e; Aspen Plus. This software wil be used to simulate steady state model for chemical and oil and gas processes. This subject is very important to prepare students for future usage of the advanced modeling tool in chemical engineering and other related fields involving design and simulation.										
					SEM 1 18/19	01	MON	09:00-09:50	FTA16L	B	30	N	0402 - MRBO		BKF2453 BKF3463
								10:00-10:50	FTA16L	B	30	N			
								11:00-11:50	FTA16L	B	30	N			
						02	TUE	14:00-14:50	FTA17L	B	30	N	0805 - CSY		
								15:00-15:50	FTA17L	B	30	N			
								16:00-16:50	FTA17L	B	30	N			
						03	THU	10:00-10:50	FTA17L	B	30	N	0527 - SBBA		
								11:00-11:50	FTA17L	B	30	N			
								12:00-12:50	FTA17L	B	30	N			
						04	MON	14:00-14:50	FTA17L	B	30	N	01075 - SBM		
								15:00-15:50	FTA17L	B	30	N			
								16:00-16:50	FTA17L	B	30	N			
						05	TUE	09:00-09:50	FTA16L	B	30	N	0536 - RBAR		
								10:00-10:50	FTA16L	B	30	N			
								11:00-11:50	FTA16L	B	30	N			
		3	**BKF3731**	**UNIT OPERATION LAB**	This laboratory course is offered to enhance student's understanding and application of theories learnt in Chemical Engineering Unit Operation by doing experiments. This lab includes experiment on absorption, solid liquid extraction, evaporation, crystallization, distillation and drying. In this lab, students are divided into small groups to run the experiment under supervision of the instructor (lecturer and technical staff). This lab aims to promote group work (60%) as well as individual excellence (40%). The main objective of this course is to develop student skills of presenting their findings with logical scientific based reasoning orally and in writing. Besides that, students will be exposed to environment and safety precaution related to unit operation.										
					SEM 1 18/19	01	MON	08:00-08:50	FTA05L	B	30	N	01646 - NSBAM		BKF3463
								09:00-09:50	FTA05L	B	30	N			
								10:00-10:50	FTA05L	B	30	N			
						02	TUE	10:00-10:50	FTA05L	B	30	N	0538 - SBZAM		
								11:00-11:50	FTA05L	B	30	N			
								12:00-12:50	FTA05L	B	30	N			
						03	TUE	14:00-14:50	FTA05L	B	30	N	0541 - SBMSN		
								15:00-15:50	FTA05L	B	30	N			
								16:00-16:50	FTA05L	B	30	N			
						04	THU	14:00-14:50	FTA05L	B	30	N	0317 - SBS		
								15:00-15:50	FTA05L	B	30	N			
								16:00-16:50	FTA05L	B	30	N			
						05	THU	08:00-08:50	FTA05L	B	30	N	0751 - SKBAM		
								09:00-09:50	FTA05L	B	30	N			
								10:00-10:50	FTA05L	B	30	N			
		3	**BKF3741**	**CHEMICAL REACTION ENGINEERING LAB**											

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BKF3741**	**CHEMICAL REACTION ENGINEERING LAB**	This lab is one of the most important labs in the chemical engineering study. In this lab, student will perform experiments to support their theoretical study of Chemical Reaction Engineering. It includes the experimental studies using different type of reactors for determining kinetic and RTD data.										
					SEM 1 18/19	01	MON	08:00-08:50	FTA04L	B	30	N	01561 - NHBH		BKF2453
								09:00-09:50	FTA04L	B	30	N			
								10:00-10:50	FTA04L	B	30	N			
						02	TUE	09:00-09:50	FTA04L	B	30	N	0229 - SNBH		
								10:00-10:50	FTA04L	B	30	N			
								11:00-11:50	FTA04L	B	30	N			
						03	WED	10:00-10:50	FTA04L	B	30	N	0772 - RBCM		
								11:00-11:50	FTA04L	B	30	N			
								12:00-12:50	FTA04L	B	30	N			
						04	THU	14:00-14:50	FTA04L	B	30	N	01050 - HBA		
								15:00-15:50	FTA04L	B	30	N			
								16:00-16:50	FTA04L	B	30	N			
		3	**BKF3791**	**PROCESS CONTROL & INSTRUMENTATION LAB**	This laboratory have been developed to address the key engineering educational challenge of realistic problem solving within the constraints of a typical lecture-style course in process dynamics and control. Students will conduct experiments based on two major process operations which are based on computer simulation and plant experimental works. In computer simulation, students will simulate a case study using Matlab software, Simulated Process Control (SPC) software and also operate a system on Distributed Control System (DCS). The students also run the experiment using pilot plant available in this laboratory. This application will encourage students to apply their process control theories into practical term and inculcate the critical thinking among the group members.										
					SEM 1 18/19	01	TUE	14:00-14:50	FTA03L	B	30	N	0402 - MRBO		BKF3413
								15:00-15:50	FTA03L	B	30	N			
								16:00-16:50	FTA03L	B	30	N			
						02	WED	10:00-10:50	FTA03L	B	30	N	1496 - RK		
								11:00-11:50	FTA03L	B	30	N			
								12:00-12:50	FTA03L	B	30	N			
						03	THU	09:00-09:50	FTA03L	B	30	N	0179 - MYBMY		
								10:00-10:50	FTA03L	B	30	N			
								11:00-11:50	FTA03L	B	30	N			
						04	FRI	08:00-08:50	FTA03L	B	30	N	0118 - NBH		
								09:00-09:50	FTA03L	B	30	N			
								10:00-10:50	FTA03L	B	30	N			
						05	THU	14:00-14:50	FTA03L	B	30	N	01121 - ZIBMA		
								15:00-15:50	FTA03L	B	30	N			
								16:00-16:50	FTA03L	B	30	N			
		3	**BKG3433**	**GAS TRANSMISSION & DISTRIBUTION (E)**	This course aims to provide fundamentals knowledage to design gas transmission and distribution pipeline system. These include gas pipeline design, engineering, fabrication, installation,testing and commissioning as well as gas pipeline networking analysis. The students will also will be exposed on the requirements for installation codes and standards used in the design and installation. Other relevent topics such as welding,corrosion control, odorizer system and gas metering skids will also be introduce to the students.										
					SEM 1 18/19	01	MON	10:00-10:50	V-BK-04	L	25	Y	01191 - MZBMN	02/01/2019 - PM	
							WED	10:00-10:50	V-BK-05	L	25	Y	1822 - ZBY		
								11:00-11:50	V-BK-05	L	25	Y			
		3	**BKG3453**	**GAS PROCESSING & LIQUEFACTION (E)**	In this subject, two main parts including upstream and downstream processes of natural gas are covered. The course mainly focuses on the treatment processes involving in transforming raw hydrocarbon gas produced from offshore fields into several valuable products. In fact, the natural gas processes such as										

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BKG3453**	**GAS PROCESSING & LIQUEFACTION (E)**	hydrocarbon gas processing, conditioning and liquefaction are vital for meeting the pipeline specifications and customer requirements. The common natural gas processes, namely; dry or steam reforming of natural gas and Fischer-Tropsch synthesis (FTS) are also discussed in this subject.										
					SEM 1 18/19	01	FRI	15:00-15:50	V-BK-07	L	25	Y	2031 - VNDV	31/12/2018 - AM	
								16:00-16:50	V-BK-07	L	25	Y			
							THU	16:00-16:50	V-BK-05	L	25	Y			
		4	**BKB3413**	**APPLIED BIOCHEMISTRY (E)**	The subject provides an overview of fundamental concepts in microbiology, biochemistry and its application in biotechnology industries. The subject covers on the microorganism, cell cultures, and major biomolecules in living systems. The student will be exposed to metabolic pathway of aerobic respiration, enzyme catalyzed reaction, cell culture behavior and good manufacturing practices. The course will also emphasize on the laboratory skills which includes basic biology and biochemistry analysis.										
					SEM 1 18/19	01	MON	10:00-10:50	FTA10L	B	25	N	TBA0001 - ES(		
								10:00-10:50	FTA10L	B	30	N			
								10:00-10:50	V-BK-07	L	25	N			
								11:00-11:50	FTA10L	B	25	N			
								11:00-11:50	FTA10L	B	30	N			
								11:00-11:50	V-BK-07	L	25	N			
								12:00-12:50	FTA10L	B	25	N			
								12:00-12:50	FTA10L	B	30	N			
								12:00-12:50	V-BK-07	L	25	N			
		4	**BKB3443**	**BIOPROCESS TECHNOLOGY (E)**	This subject covers the basic concepts of bioreactor operational mode and its culture kinetics. This subject also emphasizes on the application of transport phenomena in bioreactor, scale up, monitoring and control of bioreactor. This subject also includes the introduction of the unit operations that commonly employed to separate biological products. An idealized process of bioseparation consists of four phases which are the removal of insoluble products, the isolation of desired biological products or concentration, the purification and lastly, polishing of biological products. The basic methods that will be covered in this course include filtration, centrifugation, cell disruption, precipitation, extraction, adsorption, and chromatography. In addition, an overview on the complete train of bioseparation will also be introduced.										
					SEM 1 18/19	01	MON	16:00-16:50	V-BK-05	L	25	N	0586 - NBMZ		
								17:00-17:50	V-BK-05	L	25	N			
							THU	08:00-08:50	V-BK-05	L	25	N			
		4	**BKC3653**	**MEMBRANE TECHNOLOGY (E)**	This subject is primarily to expose students to the membrane separation process which involves liquid and gas separation. The students will be taught the type of membranes (i.e. microfiltration, ultrafiltration, nanofiltration and reverse osmosis), membrane module and material, membrane manufacturing mainly for phase inversion technique other new techniques (interfacial polymerization, grafting, coating etc.) and a few concepts such as transport theory, concentration polarization, osmosis phenomenon etc. Membrane characterization and performance will be taught as well including physical characterization, number of modules, required membrane area for feed processing, etc. Some common case studies and applications will be delivered in this subject to expose the students to the current and future technology for membrane separation process (i.e. forward osmosis).										
					SEM 1 18/19	01	MON	16:00-16:50	V-BK-07	L	25	N	0694 - RBN		
								17:00-17:50	V-BK-07	L	25	N			
							TUE	17:00-17:50	V-BK-04	L	25	N			
		4	**BKC3683**	**WASTEWATER TREATMENT (E)**	This subject covers the basic concept of water and wastewater treatment methods that include physical, chemical, biological and advances treatment methods. The physical, chemical and biological characteristics of water and wastewater are introduced briefly in this course. The project field work will be carried out for the students to get the exposure in this field.										
					SEM 1 18/19	01	FRI	15:00-15:50	V-BK-05	L	25	Y	1503 - SN	02/01/2019 - AM	
								16:00-16:50	V-BK-05	L	25	Y			
							THU	17:00-17:50	V-BK-05	L	25	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	**BKC3713**	**PROCESS OPTIMIZATION (E)**	This subject introduces and develops techniques in formulating and solving optimization problems. Emphases will be given in optimization basics, both unconstrained and constrained optimizations, linear programming, non-linear programming, and mixed integer programming. Applications of those concepts will be shown in solving optimization issues in chemical processes such as reaction, separation, heat transfer, and other related systems.										
					SEM 1 18/19	01	THU	08:00-08:50	V-BK-07	L	25	N	0360 - AHBAR		
								09:00-09:50	V-BK-07	L	25	N			
							TUE	12:00-12:50	V-BK-04	L	25	N			
		4	**BKC3783**	**OIL & GAS TECHNOLOGY (E)**	This course introduces the concept of upstream, midstream and downstream activities of the oil and gas industry. By the end of this course, students should be able to identify and describe the main branches of petroleum exploration and exploitation activities such as geology, drilling, reservoir engineering and production. Students should also be able to explain the stages and process of hydrocarbon formation, how it is found and later produced. Exposure to the reservoir and production engineering calculations will be provided to illustrate the applications of engineering principles in oil and gas production activities. To complete the understanding of the oil and gas life cycle, the midstream and downstream aspects of the oil and gas industry such as, topsides facilities, refinery operations, gas processing, product transportation as well as economy aspects and current issues affecting the industry will also be covered.										
					SEM 1 18/19	01	TUE	11:00-11:50	V-BK-07	L	25	Y	01547 - SNBI 01843 - ZBH	31/12/2018 - PM	
								12:00-12:50	V-BK-07	L	25	Y			
							WED	08:00-08:50	V-BK-07	L	25	Y			
		4	**BKC3833**	**RECYCLING TECHNOLOGY (E)**	This course aims to give a perspective on the use of chemical engineering knowledge in the recycling industry. Students will be taught on the overall issues of wastes, waste management and regulation related to it. Emphasis will be given on the awareness of recycling activities in Malaysia and other parts of the world, showing the technologies involved in doing the recycling. Students will have the opportunity to prepare and present the market survey and business plan on a chosen topic of interest in recycling of waste material in Malaysia, which require them to search for the most feasible recycling activity that can convince financial institution to finance the project. Students are also required to visit a related recycling plant to understand the nature of the business. At the end of this course, it is expected that the students will be able to appreciate the importance of recycling, the nature of recycling industry and bring the interest to them to venture into recycling business after completing their studies.										
					SEM 1 18/19	01	FRI	08:00-08:50	V-BK-07	L	25	N	01460 - MNBR 0533 - RBMY		
								09:00-09:50	V-BK-07	L	25	N			
							THU	10:00-10:50	V-BK-07	L	25	N			
		4	**BKC3853**	**PROCESS MONITORING (E)**	This is an introductory level course of statistical-based process monitoring, which includes univariate and multivariate-based systems. The topics covered are introduction to process monitoring, statistical process control (SPC), multivariate statistical process monitoring (MSPM) and also industrial monitoring applications. In particular, the last chapter mainly expose the students with variety applications of monitoring approaches as well as reviewing the issues of various monitoring extensions.										
					SEM 1 18/19	01	FRI	17:00-17:50	V-BK-05	L	25	N	0179 - MYBMY		
							THU	14:00-14:50	V-BK-07	L	25	N			
								15:00-15:50	V-BK-07	L	25	N			
		4	**BKC3893**	**SCALE-UP OF CHEMICAL PROCESS (E)**	This subject covers the aspects of scale-up of chemical and biological processes and commercialization. The course introduces the basic concept and application of scale-up of chemical and biotechnology-related processes. The topics cover in this subject are introduction to the theory of scale-up; modeling and simulation; pilot plant; reactor scale-up; unit operation scale-up; fine/specialty chemical processes scale-up.										
					SEM 1 18/19	01	TUE	10:00-10:50	V-BK-07	L	25	N	01280 - NSBS		BKF3463 BKF2453
							WED	11:00-11:50	V-BK-07	L	25	N			
								12:00-12:50	V-BK-07	L	25	N			
		4	**BKC4543**	**ENVIRONMENTAL ENGINEERING**	This subject is designed to introduce to the students the principles and testing techniques of the										

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	**BKC4543**	**ENVIRONMENTAL ENGINEERING**	environmental engineering. Topics includes introduction of environmental engineering, wastewater quality management, wastewater treatment, air, solid waste treatment and management. The techniques covered involved in environmental samples testing, and an ability to critically evaluate data from a sampling program. Skills gained will be directly applicable to careers in environmental engineering both in data collection and managing field assessments.										
					SEM 1 18/19	01	TUE	08:00-08:50	FTA15L	B	45	Y	01609 - NBA	10/01/2019 - AM	
								08:00-08:50	V-BK-04	L	45	Y			
								09:00-09:50	FTA15L	B	45	Y			
								09:00-09:50	V-BK-04	L	45	Y			
								10:00-10:50	FTA15L	B	45	Y			
								10:00-10:50	V-BK-04	L	45	Y			
						02	THU	14:00-14:50	FTA15L	B	45	Y	1503 - SN		
								14:00-14:50	V-BK-04	L	45	Y			
								15:00-15:50	FTA15L	B	45	Y			
								15:00-15:50	V-BK-04	L	45	Y			
								16:00-16:50	FTA15L	B	45	Y			
								16:00-16:50	V-BK-04	L	45	Y			
						03	THU	08:00-08:50	FTA15L	B	45	Y	01613 - SHNBS		
								08:00-08:50	V-BK-04	L	45	Y			
								09:00-09:50	FTA15L	B	45	Y			
								09:00-09:50	V-BK-04	L	45	Y			
								10:00-10:50	FTA15L	B	45	Y			
								10:00-10:50	V-BK-04	L	45	Y			
						04	TUE	14:00-14:50	FTA15L	B	45	Y	0228 - ABAA		
								14:00-14:50	V-BK-04	L	45	Y			
								15:00-15:50	FTA15L	B	45	Y			
								15:00-15:50	V-BK-04	L	45	Y			
								16:00-16:50	FTA15L	B	45	Y			
								16:00-16:50	V-BK-04	L	45	Y			
		4	**BKC4653**	**POLYMER TECHNOLOGY (E)**	This course will provide in depth knowledge of polymer science and technology. It will polymerization reaction, kinetics, reactor, synthesis and processing technique of different types of plastics, rubber and composites. It will also deal with the current issues on polymer. Upon completing this course, students will be able to explain how polymers are processed into end-products and can suggest specific applications for specific polymers.										
					SEM 1 18/19	01	FRI	15:00-15:50	V-BK-04	L	25	Y	1475 - MDHB	03/01/2019 - PM	
							THU	16:00-16:50	V-BK-07	L	25	Y			
								17:00-17:50	V-BK-07	L	25	Y			
		4	**BKC4663**	**ULTRASONICS (E)**	This course aims to introduce the complete fundamental physics of ultrasonics, describe in detail equipment and procedures for chemical process systems. The principles of ultrasonics operations involved in chemical and biotechnological processes such as filtration, extraction processes, fermentation, enzymatic hydrolysis, gas-liquid mass transfer, miscellaneous chemical effects and applications. At the end of this course, it is expected that the students will understand theories, principles, calculation for the basic mechanisms, basic design parameters and applications of ultrasonics and are able to solve chemical engineering problems related to them.										
					SEM 1 18/19	01	MON	12:00-12:50	W-DK-02	L	30	N	0126 - AZBS		
							THU	11:00-11:50	V-BK-07	L	30	N			
								12:00-12:50	V-BK-07	L	30	N			
		4	**BKC4683**	**FOOD ENGINEERING (E)**	This course is designed to introduce the applications of certain unit operations in the processing of different types of food products. The principles and methods of heating and dehydration, refrigeration and freezing, are discussed with emphasis on their applications in the processing of dairy, fruit and										

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	**BKC4683**	**FOOD ENGINEERING (E)**	vegetables, eggs, poultry, meat and fish products. The course will also provide an appreciation on the importance of food packaging, food safety and hygiene.										
					SEM 1 18/19	01	FRI	10:00-10:50	V-BK-07	L	30	Y	0548 - FBMS	03/01/2019 - AM	
								11:00-11:50	V-BK-07	L	30	Y			
							THU	09:00-09:50	V-BK-05	L	30	Y			
		4	**BKC4913**	**PROCESS & PLANT DESIGN I**	The lessons from the previous subjects would be used by the students here to make all necessary engineering decisions in synthesizing the process flow diagram. By implementing optimization approach using the economic potential strategies, the decisions are analyzed by integrating material and energy balance through four hierarchical steps beginning with mode decision and ending with separation train decision. The students would have to use engineering calculations including design equations and heat integration by the aid of the simulation software. The environmental impact posed by the process would also need to be considered during the process synthesis. At the end of this subject, the students are expected to come out with their own process flow diagrams whether as a grassroot plant or a retrofit plant.										
					SEM 1 18/19	01	MON	10:00-10:50	W-DKU-K-01	L	120	N	0532 - RBI		BKF3463 BKF3472 BKF3553 BKC3533
								11:00-11:50	W-DKU-K-01	L	120	N			
								12:00-12:50	W-DKU-K-01	L	120	N			
						02	THU	10:00-10:50	W-DKU-K-01	L	120	N	0532 - RBI		
								11:00-11:50	W-DKU-K-01	L	120	N			
								12:00-12:50	W-DKU-K-01	L	120	N			
		4	**BKF4812**	**PROCESS ENGINEERING MANAGEMENT**	This course is designed to provide an introduction to process engineering management whereby the emphasis is on operation and project management fundamental. It covers topics such as planning, tools and techniques, constraints, quality and risk management as well as roles and responsibilities of operation/project manager. Upon completion of the course, the student should be able to apply the essential knowledge on the management of the operation and project implementation.										
					SEM 1 18/19	01	MON	14:00-14:50	W-DK-02	L	55	Y	01022 - ABR	06/01/2019 - PM	
								15:00-15:50	W-DK-02	L	55	Y			
						02	FRI	10:00-10:50	W-DK-06	L	55	Y	01157 - MBBMP		
								11:00-11:50	W-DK-06	L	55	Y			
						03	THU	16:00-16:50	W-DK-06	L	55	Y	01192 - MNBN		
								17:00-17:50	W-DK-06	L	55	Y			
		4	**BKG4463**	**GAS STORAGE & RETICULATION (E)**	This subject aims to enable students to identify various types of storing methods of liquefied petroleum gas (LPG), natural gases (NG) and liquefied natural gas (LNG). Besides that, the understanding of gas reticulation system is provided. Students will be provided with a working knowledge to design the gas storage and reticulation systems.										
					SEM 1 18/19	01	TUE	14:00-14:50	V-BK-05	L	25	N	0527 - SBBA		
								15:00-15:50	V-BK-05	L	25	N			
							WED	12:00-12:50	V-BK-05	L	25	N			
NO TIMETABLE	DEGREE	4	**BKC3922**	**UNDERGRADUATE RESEARCH PROJECT I**											

COURSE TIMETABLE

Faculty : **FACULTY OF CHEMICAL & NATURAL RESOURCES ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
					Sem / Sec / Day / Time / Loc / Mode / Cap / Exam / Staff / Exam Schedule	Pre-Requisite
NO TIMETABLE	DEGREE	4	**BKC3922**	**UNDERGRADUATE RESEARCH PROJECT I**	This course is designed to expose the students to a research project. They have to apply all the knowledge they have learned in the program to complete the research project. Each student will be supervised by at least one lecturer or two lecturers (main supervisor and co-supervisor). During the research project I, the students will be able to do a literature survey and prepare a draft which contains objective of the project, problem statement, literature survey, solving techniques, methodology, preliminary results, treatment of results and list of reference publications. At the end of this subject, the students are required to present the draft in a short seminar which will be evaluated by a faculty's panel.	
					SEM 1 18/19 01 — 70 — N — TBA	BKF3463
		4	**BKC4944**	**UNDERGRADUATE RESEARCH PROJECT II**	This subject is the continuation of the subject Research Project I. In this subject, the students are required to conduct the research, collect and analyze data, discuss the findings and form the conclusions. At the end of this semester, the students are required to produce a research project report and present it to faculty's evaluation panel.	
					SEM 1 18/19 01 — 147 — N — TBA	BKC3922 BKG3922 BKB3922
		4	**BKF4916**	**INDUSTRIAL TRAINING**	In industrial training the students should gain insight into the industrial practice, in order to visualize the tasks and possibilities of their later occupation work. All students are required to undergo 10 weeks of industrial training during the end of the semester of the third academic year. The performance of each student during the periods of his/her Industrial training is evaluated jointly by the faculty staff, and the representatives from employer organizations. The student is required to maintain proper records and submit reports on the training received by him/her. The industrial training report should cover all periods of approved employment. The report document is expected to demonstrate development of practical and professional skills in Engineering through technical experience and application of theoretical knowledge. Development of skills in dealing with people, and communication skills are part of the subject objectives. The student should be able to present the report to university supervisor, as a complement to their degree.	
					SEM 1 18/19 01 — 0 — N — TBA	BKC3533 BKF3463


FACULTY OF
CIVIL ENGINEERING &
EARTH RESOURCES

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE	1	**BAA1112**	**ENGINEERING DRAWING**	This subject aims to expose the students to the civil engineering drawing. Students should be able to describe, discuss and analyse the information and conventions as presented in the civil engineering drawings. The learning approach of civil engineering drawings is integrated through series of hands-on tutorial. The students should be able to draw engineering drawings through selected exercises manually and generate engineering drawings using the application of software packages such as autocad.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	THU	08:00-08:50	FKASA11A	B	30	N	0283 - CHT		
			09:00-09:50	FKASA11A	B	30	N			
		TUE	08:00-08:50	FKASA11A	B	30	N			
			09:00-09:50	FKASA11A	B	30	N			
	02	FRI	10:00-10:50	FKASA11B	B	30	N	01829 - LKS		
			11:00-11:50	FKASA11B	B	30	N			
		WED	10:00-10:50	FKASA11B	B	30	N			
			11:00-11:50	FKASA11B	B	30	N			
	03	THU	08:00-08:50	FKASA11B	B	30	N	01804 - NFBA		
			09:00-09:50	FKASA11B	B	30	N			
		TUE	08:00-08:50	FKASA11B	B	30	N			
			09:00-09:50	FKASA11B	B	30	N			
	04	FRI	10:00-10:50	FKASA11A	B	30	N	01808 - MIBA		
			11:00-11:50	FKASA11A	B	30	N			
		WED	10:00-10:50	FKASA11A	B	30	N			
			11:00-11:50	FKASA11A	B	30	N			
	05	THU	14:00-14:50	FKASA11B	B	30	N	01804 - NFBA		
			15:00-15:50	FKASA11B	B	30	N			
		TUE	14:00-14:50	FKASA11B	B	30	N			
			15:00-15:50	FKASA11B	B	30	N			
	06	MON	16:00-16:50	FKASA11A	B	30	N	01808 - MIBA		
			17:00-17:50	FKASA11A	B	30	N			
		THU	16:00-16:50	FKASA11A	B	30	N			
			17:00-17:50	FKASA11A	B	30	N			
	07	THU	14:00-14:50	FKASA11A	B	30	N	0283 - CHT		
			15:00-15:50	FKASA11A	B	30	N			
		TUE	14:00-14:50	FKASA11A	B	30	N			
			15:00-15:50	FKASA11A	B	30	N			
	08	MON	16:00-16:50	FKASA11B	B	30	N	01829 - LKS		
			17:00-17:50	FKASA11B	B	30	N			
		THU	16:00-16:50	FKASA11B	B	30	N			
			17:00-17:50	FKASA11B	B	30	N			

Campus	Level	Year	Code	Course Name
		1	**BAA1113**	**ENGINEERING MECHANICS**

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BAA1113**	**ENGINEERING MECHANICS**	Engineering Mechanics is the fundamental of most engineering courses that introduces students to the concept of statics and dynamics. Statics is the study of forces on particles or bodies which are at rest or moving at a constant velocity, and the forces are in balance or in static equilibrium. Dynamics is the study of forces on moving bodies, and the forces are in dynamic equilibrium. Both concept of mechanics is useful when it comes to analyze stress, designing of machines,structures and hydraulics. At the end of the course, students are expected to be able to analyze any problems in stactics and dynamics of particles and rigid bodies and apply the basic principles to find solution.										
					SEM 1 18/19	01	MON	10:00-10:50	W-DK-08	L	60	Y	0400 - RBO	04/01/2019 - AM	
								11:00-11:50	W-DK-08	L	60	Y			
							WED	10:00-10:50	W-DK-08	L	60	Y			
						02	THU	09:00-09:50	W-DK-08	L	60	Y	01878 - MBAS		
							TUE	08:00-08:50	W-DK-08	L	60	Y			
								09:00-09:50	W-DK-08	L	60	Y			
						03	FRI	15:00-15:50	W-DK-10	L	60	Y	01878 - MBAS		
							MON	14:00-14:50	W-DK-08	L	60	Y			
								15:00-15:50	W-DK-08	L	60	Y			
						04	THU	16:00-16:50	W-DK-08	L	60	Y	0400 - RBO		
							TUE	16:00-16:50	W-DK-08	L	60	Y			
								17:00-17:50	W-DK-08	L	60	Y			
		1	**BAA1133**	**MECHANICS OF MATERIALS**	The aims of this course are the study of the behavior of engineering or structural elements subjected to loads. It is provides an introduction on elastic stress and strain analysis, axial deformations and analysis of column. Thus, properties and behavior of engineering materials including stress-strain relations will be analyzed. This course also deals with the analysis of direct and torsional shear stresses and their deformation; shear force and bending moment of beam also the stresses in beams; transformations of stresses.										
					SEM 1 18/19	01	MON	10:00-10:50	W-DK-09	L	60	Y	01804 - NFBA	10/01/2019 - AM	BAA1113
								11:00-11:50	W-DK-09	L	60	Y			
							WED	10:00-10:50	W-DK-09	L	60	Y			
						02	MON	18:00-18:50	W-DK-08	L	40	Y	01804 - NFBA		
							WED	13:00-13:50	W-DK-08	L	40	Y			
								14:00-14:50	W-DK-08	L	40	Y			
		1	**BAA1312**	**CIVIL ENGINEERING MATERIALS**	Civil Engineering Materials is a compulsory subject that introduces students to the materials commonly used in construction industry. Students will explore the fundamental properties of each material and use them to identify the suitability of one material in a civil engineering construction. At the end of the course, students are expected to be able to provide a basic analysis and present a solution to the problematic construction material based on the engineering properties and sustainability aspect point of view.										
					SEM 1 18/19	01	MON	14:00-14:50	W-DK-09	L	60	Y	0400 - RBO	05/01/2019 - AM	
								15:00-15:50	W-DK-09	L	60	Y			
						02	FRI	08:00-08:50	W-DK-08	L	60	Y	0689 - ESBAW		
								09:00-09:50	W-DK-08	L	60	Y			
		1	**BAA1322**	**CONSTRUCTION ENGINEERING**	This compulsory and basic subject will introduce the students to the world of construction industry. As an introduction, students are given information on the current situations in construction industries including the main person in-charge and their role in the project. The students will be taught the fundamental knowledge on elements involved in construction work process that would lead towards completion of strong and stable structure at the end of project. Students who are successfully complete this course will be equipped with basic and fundamental knowledge that a civil engineer should have.										
					SEM 1 18/19	01	FRI	08:00-08:50	W-DK-09	L	60	Y	0170 - KBM	06/01/2019 - AM	
								09:00-09:50	W-DK-09	L	60	Y			
						02	TUE	14:00-14:50	W-DK-09	L	60	Y	0170 - KBM		
								15:00-15:50	W-DK-09	L	60	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BAA1323**	**ENGINEERING SURVEYING**	This subject will expose to the civil engineering students the role of survey engineering in their field. The subject topics encompasses introduction to the engineering surveying, surveying equipment, measurement unit, bearing/angle and distance measurement for horizontal control, coordinate system, area & volume calculation, mass transfer diagram & mass transfer measure and the final setting out for construction work.										
					SEM 1 18/19	01	MON	16:00-16:50	W-DK-08	L	60	Y	0283 - CHT	09/01/2019 - AM	
								17:00-17:50	W-DK-08	L	60	Y			
							THU	16:00-16:50	W-DK-09	L	60	Y			
		1	**BAA1912**	**ENGINEERING SURVEYING FIELDWORK**	This course will enable students learn appropriate skills to conduct practical fieldworks in the area of linear survey, theodolite traverse, Levelling, topographical and site survey, curve ranging, computation and setting-out.										
					SEM 1 18/19	01	MON	08:00-08:50	FKASA5	B	60	N	0283 - CHT		
								09:00-09:50	FKASA5	B	60	N			
								10:00-10:50	FKASA5	B	60	N			
								11:00-11:50	FKASA5	B	60	N			
		1	**BAA1931**	**ENGINEERING LABORATORY I**	This ENGINEERING LAB I covers material testing. The experiments are complimentary to the theory that students have learned in the classroom and also to expose them to the practice work at the construction industry.										
					SEM 1 18/19	01	FRI	10:00-10:50	FKASA1	B	60	N	01878 - MBAS		
								11:00-11:50	FKASA1	B	60	N			
						02	FRI	15:00-15:50	FKASA1	B	60	N	01878 - MBAS		
								16:00-16:50	FKASA1	B	60	N			
		1	**BAA2012**	**COMPUTER PROGRAMMING**	The topics learned in this course are variables and data types, input/output instruction, assignment instruction, decision instruction, repetition instruction, functions, arrays, string and reading/writing from text files.										
					SEM 1 18/19	01	WED	09:00-09:50	W-DK-08	L	60	N	0340 - M@SKBS		
						01A	MON	08:00-08:50	FKASA11A	B	30	N	0340 - M@SKBS		
								09:00-09:50	FKASA11A	B	30	N			
						01B	MON	08:00-08:50	FKASA11B	B	30	N	0340 - M@SKBS		
								09:00-09:50	FKASA11B	B	30	N			
						02	THU	15:00-15:50	W-DK-09	L	60	N	0340 - M@SKBS		
						02A	MON	14:00-14:50	FKASA11A	B	30	N	0340 - M@SKBS		
								15:00-15:50	FKASA11A	B	30	N			
						02B	MON	14:00-14:50	FKASA11B	B	30	N	0340 - M@SKBS		
								15:00-15:50	FKASA11B	B	30	N			
		2	**BAA2113**	**THEORY OF STRUCTURES**											

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BAA2113**	**THEORY OF STRUCTURES**	In this course students will be introduced to the analysis of statically determinate and indeterminate structures. The course covers the fundamental concepts of determining the structural stability and determinacy, analysis of statically determinate beams and frames, trusses and arches. Also to determine the deflection of beam and truss, and the analysis of indeterminate beams and frames										
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-09	L	60	Y	2286 - GAJ	08/01/2019 - AM	BAA1133
								09:00-09:50	W-DK-09	L	60	Y			
							WED	08:00-08:50	W-DK-09	L	60	Y			
						02	FRI	15:00-15:50	W-DK-11	L	60	Y	01232 - SBMA		
							MON	14:00-14:50	FKASA6	L	60	Y			
								15:00-15:50	FKASA6	L	60	Y			
						03	FRI	11:00-11:50	W-DK-11	L	60	Y	2286 - GAJ		
							TUE	10:00-10:50	W-DK-10	L	60	Y			
								11:00-11:50	W-DK-10	L	60	Y			
						04	FRI	16:00-16:50	W-DK-09	L	60	Y	01394 - ABA		
							MON	16:00-16:50	W-DK-09	L	60	Y			
								17:00-17:50	W-DK-09	L	60	Y			
		2	**BAA2123**	**STRUCTURAL ANALYSIS**	Structure Analysis is the continuity studies of the Theory of Structures course that exposes the advanced analysis in the civil engineering structures and laboratory works. The course focuses on analyzing statically indeterminate trusses, arches and cables and determines the displacement by using the Stiffness Matrix method for trusses, beams and frames. The principles and methods used to meet the objectives are drawn from prerequisite courses in mechanics, physics and mathematics.										
					SEM 1 18/19	01	FRI	10:00-10:50	W-DK-09	L	60	Y	01232 - SBMA	10/01/2019 - AM	BAA2113
							THU	10:00-10:50	W-DK-08	L	60	Y			
								11:00-11:50	W-DK-08	L	60	Y			
		2	**BAA2213**	**REINFORCED CONCRETE DESIGN I**	This course covers the introduction of reinforced concrete design, the limit state principles, ultimate strength analysis and flexural design. Shear, bond and torsion, analysis and design of beams and solid slab, staircases and introduction to axial column design. Using codes require for design and detailing. Group design project for double storey house.										
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-11	L	60	Y	0075 - FBMY	04/01/2019 - PM	BAA2113
								09:00-09:50	W-DK-11	L	60	Y			
						01A	FRI	08:00-08:50	W-DK-11	T	60	Y	0075 - FBMY		
								09:00-09:50	W-DK-11	T	60	Y			
						02	MON	10:00-10:50	W-DK-11	L	60	Y	01500 - SMBSM		
								11:00-11:50	W-DK-11	L	60	Y			
						02A	WED	10:00-10:50	W-DK-11	T	60	Y	01500 - SMBSM		
								11:00-11:50	W-DK-11	T	60	Y			
						03	MON	14:00-14:50	W-DK-11	L	60	Y	01569 - CSC		
								15:00-15:50	W-DK-11	L	60	Y			
						03A	THU	14:00-14:50	FKASA6	T	60	Y	01569 - CSC		
								15:00-15:50	FKASA6	T	60	Y			
						04	TUE	16:00-16:50	W-DK-11	L	60	Y	01569 - CSC		
								17:00-17:50	W-DK-11	L	60	Y			
						04A	FRI	16:00-16:50	FKASA6	T	60	Y	01569 - CSC		
								17:00-17:50	FKASA6	T	60	Y			
		2	**BAA2413**	**HIGHWAY & TRAFFIC ENGINEERING**											

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BAA2413**	**HIGHWAY & TRAFFIC ENGINEERING**	This course is design to introduce students on the basic understandubf of highway and traffic engineering with an emphasis on the design standards that being used in Malaysia. Topics covered are malaysia road network, traffic engineering studies which includes fundamentals principles of traffic flow and capacity analalysis, traffic signal system, highway materials and properties, surfaces mix design and road geometric design.										
					SEM 1 18/19	01	FRI	11:00-11:50	W-DK-10	L	60	Y	01894 - KABM	05/01/2019 - AM	
							THU	10:00-10:50	W-DK-11	L	60	Y	0659 - ABHI		
								11:00-11:50	W-DK-11	L	60	Y			
						02	FRI	16:00-16:50	W-DK-11	L	60	Y	01894 - KABM		
							THU	16:00-16:50	W-DK-11	L	60	Y	0659 - ABHI		
								17:00-17:50	W-DK-11	L	60	Y			
		2	**BAA2513**	**SOIL MECHANICS & GEOLOGY**	Soil Mechanics provides students with a basic knowledge of the fundamental concepts of soil behaviour and gives an introduction into general geotechnical engineering. The course describes: the relationship between soils and its geological origins and demonstrates the significance of the particles size distribution and mineralogy; soil description; phase relationships; classification of soil; compaction of soil; soil permeability and principle of effective stress; stress distribution and shear strength of soil.										
					SEM 1 18/19	01	MON	08:00-08:50	FKASA6	L	60	Y	0388 - YAD	06/01/2019 - PM	BAA1113
								09:00-09:50	FKASA6	L	60	Y			
							WED	08:00-08:50	FKASA6	L	60	Y			
						02	THU	14:00-14:50	W-DK-11	L	60	Y	0388 - YAD		
							TUE	14:00-14:50	W-DK-10	L	60	Y			
								15:00-15:50	W-DK-10	L	60	Y			
		2	**BAA2713**	**FLUIDS MECHANICS**	To introduce the fundamental principles of fluid mechanics, the basic equations governing fluid statics and fluid kinematic, and the methods of solving engineering problems related to fluid mechanics										
					SEM 1 18/19	01	MON	10:00-10:50	W-DK-10	L	60	Y	01617 - NNABT	04/01/2019 - PM	
								11:00-11:50	W-DK-10	L	60	Y			
							TUE	10:00-10:50	W-DK-09	L	60	Y			
						02	THU	09:00-09:50	W-DK-09	L	60	Y	01676 - JIAG		
							WED	08:00-08:50	W-DK-10	L	60	Y			
								09:00-09:50	W-DK-10	L	60	Y			
						03	THU	17:00-17:50	W-DK-08	L	60	Y	0285 - SRBS		
							TUE	16:00-16:50	W-DK-09	L	60	Y			
								17:00-17:50	W-DK-09	L	60	Y			
						04	FRI	15:00-15:50	W-DK-08	L	60	Y	01676 - JIAG		
							THU	14:00-14:50	W-DK-10	L	60	Y			
								15:00-15:50	W-DK-10	L	60	Y			
		2	**BAA2723**	**HYDRAULICS**	This course introduces the concept and use of equations for open drainage and flow analyses (uniform & non-uniform flow) in open channel. It also covers the various phenomena such as hydraulic jump and backwater, specific energy and specific force concept application, analyses of hydraulics machinery principles and dimensional analysis & hydraulic similarity concepts. The application software package (such as: HEC-RAS) will be introduced in this course.										
					SEM 1 18/19	01	THU	08:00-08:50	W-DK-09	L	50	Y	0430 - NABAAG	09/01/2019 - AM	BAA2713
							TUE	08:00-08:50	FKASA5	L	50	Y			
								09:00-09:50	FKASA5	L	50	Y			
						02	THU	09:00-09:50	FKASA6	L	50	Y	0430 - NABAAG		
							WED	08:00-08:50	W-DK-11	L	50	Y			
								09:00-09:50	W-DK-11	L	50	Y			
		2	**BAA2921**	**ENGINEERING LABORATORY II**											

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BAA2921**	**ENGINEERING LABORATORY II**	This ENGINEERING LAB II covers Structure laboratory testing. The experiments are complimentary to the theory that students have learned in the classroom and also to expose them to the practice work at the construction industry.										
					SEM 1 18/19	01	THU	14:00-14:50	FKASA1	B	60	N	0342 - MSHBS		BAA1133
								15:00-15:50	FKASA1	B	60	N			
						02	WED	10:00-10:50	FKASA1	B	60	N	0342 - MSHBS		
								11:00-11:50	FKASA1	B	60	N			
		2	**BAA2941**	**ENGINEERING LABORATORY III**	Engineering Lab III covers the laboratory testing for the courses Fluid Mechanics, Hydraulics, Hydrology as well as Environmental Engineering. All the experiments are complementary to the basic theory that students have learned in the classroom and also exposes them to the practical work in real world application in the civil engineering field.										
					SEM 1 18/19	01	MON	10:00-10:50	FKASA1	B	60	N	01562 - NSK		BAA2713
								11:00-11:50	FKASA1	B	60	N			
						02	TUE	14:00-14:50	FKASA1	B	60	N	01562 - NSK		
								15:00-15:50	FKASA1	B	60	N			
		3	**BAA3012**	**LAW OF CONTRACT & ESTIMATION**	The course covers topics of tendering, contract, condition of contract, contract administration/ management, contract procurement, estimation, taking-off and the importance of information technology in estimation work.										
					SEM 1 18/19	01	TUE	08:00-08:50	W-DK-11	L	60	Y	01573 - DSI	05/01/2019 - AM	
								09:00-09:50	W-DK-11	L	60	Y			
						02	MON	16:00-16:50	W-DK-11	L	60	Y	01829 - LKS		
								17:00-17:50	W-DK-11	L	60	Y			
		3	**BAA3023**	**PROJECT MANAGEMENT IN CONSTRUCTION**	To introduce the concept of project management which will cover the life cycle of the projects, roles of project manager, type of project organization, resource management, techniques of planning and scheduling, monitoring and controlling and types of software for project planning and scheduling that have been practiced in construction industry.										
					SEM 1 18/19	01	TUE	08:00-08:50	W-DK-10	L	60	Y	0371 - NIBR	07/01/2019 - AM	
								09:00-09:50	W-DK-10	L	60	Y			
							WED	09:00-09:50	W-DK-09	L	60	Y			
						02	FRI	16:00-16:50	W-DK-10	L	60	Y	2246 - IPM		
							TUE	16:00-16:50	W-DK-10	L	60	Y			
								17:00-17:50	W-DK-10	L	60	Y			
		3	**BAA3213**	**REINFORCED CONCRETE DESIGN II**	This course covers the analysis of RC structure frame analysis & design of column, shallow foundation, retaining wall and introduction to prestressed concrete design and also typical design of a reinforced concrete building under the design project.										
					SEM 1 18/19	01	TUE	08:00-08:50	FKASA6	L	60	Y	01232 - SBMA	10/01/2019 - AM	BAA2213
								09:00-09:50	FKASA6	L	60	Y			
						01A	FRI	08:00-08:50	FKASA6	T	60	Y	01232 - SBMA		
								09:00-09:50	FKASA6	T	60	Y			
		3	**BAA3223**	**STEEL & TIMBER DESIGN**											

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BAA3223**	**STEEL & TIMBER DESIGN**	This Course Covers The Analysis and Design Steel Structures to EC3 For Beams, Column, Connections, Trusses, Compression Members and Tension Members. This Course Is Also Covered An Introduction to Timber Design to Malaysian Standard MS 544 Part 2 : 2001										
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-10	L	60	Y	01836 - SBWA	06/01/2019 - AM	BAA2113
								09:00-09:50	W-DK-10	L	60	Y			
							THU	08:00-08:50	W-DK-08	L	60	Y			
						02	THU	14:00-14:50	FKASA3	L	60	Y	0342 - MSHBS		
							TUE	14:00-14:50	FKASA3	L	60	Y			
								15:00-15:50	FKASA3	L	60	Y			
						03	THU	08:00-08:50	FKASA5	L	60	Y	0645 - NABMK		
								09:00-09:50	FKASA5	L	60	Y			
							WED	08:00-08:50	W-DK-08	L	60	Y			
		3	**BAA3312**	**BUILDING SERVICES & MAINTENANCE**	This course will provide the fundamental knowledge of engineering design of the building services and maintenance in building through a specific design project										
					SEM 1 18/19	01	TUE	10:00-10:50	FKASA3	L	60	N	0682 - OBJ		
								11:00-11:50	FKASA3	L	60	N			
						02	FRI	15:00-15:50	FKASA5	L	60	N	0682 - OBJ		
								16:00-16:50	FKASA5	L	60	N			
		3	**BAA3322**	**ENGINEERING ECONOMICS**	This subject covers the principles and applications of economic analysis in the field of engineering to make sound decision among alternatives.										
					SEM 1 18/19	01	TUE	10:00-10:50	FKASA6	L	60	Y	1674 - MSI	08/01/2019 - AM	
								11:00-11:50	FKASA6	L	60	Y			
						02	MON	16:00-16:50	FKASA3	L	60	Y	1674 - MSI		
								17:00-17:50	FKASA3	L	60	Y			
		3	**BAA3513**	**GEOTECHNICAL ENGINEERING**	This subject provides further discussion and explanation related to soil engineering application. The topics cover in the subjects includes the compressibility & consolidation settlement, shear strength, lateral earth pressure, slope stability, site investigation and environmental geotechnics. At the end of this course, student should be able to have ample knowledge regarding the soil engineering application and behaviour.										
					SEM 1 18/19	01	FRI	08:00-08:50	W-DK-10	L	60	Y	01894 - KABM	04/01/2019 - PM	BAA2513
							THU	08:00-08:50	W-DK-10	L	60	Y			
								09:00-09:50	W-DK-10	L	60	Y			
						02	THU	14:00-14:50	W-DK-09	L	60	Y	0641 - MBH		
							TUE	14:00-14:50	W-DK-08	L	60	Y			
								15:00-15:50	W-DK-08	L	60	Y			
						03	MON	08:00-08:50	FKASA3	L	59	Y	01894 - KABM		
								09:00-09:50	FKASA3	L	59	Y			
							WED	09:00-09:50	FKASA3	L	59	Y			
		3	**BAA3613**	**ENVIRONMENTAL ENGINEERING**											

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BAA3613**	**ENVIRONMENTAL ENGINEERING**	This course is an introduction to the different aspects of environmental engineering. The course outline is divided into seven main topics: Water Quality, Water Treatment Engineering, Wastewater Treatment Engineering, Water Pollution, Air Pollution, Noise Pollution and Solid Waste Management in which contemporary issues and principles of sustainable development are highlighted.										
					SEM 1 18/19	01	FRI	09:00-09:50	W-DK-10	L	50	Y	0736 - SBS	04/01/2019 - AM	
							THU	08:00-08:50	W-DK-11	L	50	Y			
								09:00-09:50	W-DK-11	L	50	Y			
						02	THU	15:00-15:50	W-DK-11	L	50	Y	01562 - NSK		
							TUE	14:00-14:50	W-DK-11	L	50	Y			
								15:00-15:50	W-DK-11	L	50	Y			
						03	TUE	08:00-08:50	W-DK-09	L	50	Y	0736 - SBS		
								09:00-09:50	W-DK-09	L	50	Y			
							WED	08:00-08:50	FKASA3	L	50	Y			
		3	**BAA3713**	**HYDROLOGY & WATER RESOURCES**	This course will be introduced the application of hydrological theory to solve problem in water resources engineering. The knowledge in hydrology will be used in planning, development, management and design of water resources project. This course also introduces the knowledge of reservoir management, engineering economy and determination of water demand requirement in water resources planning.										
					SEM 1 18/19	01	FRI	10:00-10:50	W-DK-10	L	60	Y	0169 - HBAH	05/01/2019 - PM	BAA2713
							THU	10:00-10:50	W-DK-10	L	60	Y			
								11:00-11:50	W-DK-10	L	60	Y			
						02	FRI	17:00-17:50	W-DK-11	L	60	Y	0169 - HBAH		
							THU	16:00-16:50	W-DK-10	L	60	Y			
								17:00-17:50	W-DK-10	L	60	Y			
		3	**BAA3921**	**ENGINEERING LABORATORY IV**	This ENGINEERING LAB IV covers Highway & Traffic and Soil Mechanics & Geotechnical laboratory testing. The experiments are complimentary to the theory that students have learned in the classroom and also to expose them to the practice work at the construction industry.										
					SEM 1 18/19	01	WED	16:00-16:50	FKASA1	B	120	N	0388 - YAD		BAA2513 BAA2413
								17:00-17:50	FKASA1	B	120	N			
		3	**BAA3922**	**RESEARCH METHODOLOGY & PRE - PROJECT**	Students are required to attend a research workshop at the beginning of the course, where they will be taught on how to do research; research methodology, conducting literature review, data sampling, collection, analysis, and interpretation. Students will be guided by their respective supervisors on how to plan for the research, which will be conducted later in PSM 2 course (BAA4914). Students will have to carry out weekly discussion with their supervisors on the research topic, objective, scope, research program, and the extent of the development of the research proposal. A report and a presentation of the research proposal are required at the end of the course.										
					SEM 1 18/19	01	WED	12:00-12:50	W-DKU-K-01	L	240	N	01617 - NNABT		
		4	**BAA4023**	**PROJECT FOR PROFESSIONAL PRACTICES**											

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	**BAA4023**	**PROJECT FOR PROFESSIONAL PRACTICES**	Project Professional Practise is a Capstone Design Project that offering experience in multi-disciplinary project-based learning. This course are design to ensure minimum proficiency and equipment of the upcoming graduate. This course are conducted with numbers of partners from industry which is involve engineer, architect, surveyor, town planner, contractor and etc. in the direction of giving real exposure to the student. Students are expected to take this course in the final year of study by which time most of the required courses should have been taken. The capstone experience is an essential component in the 4-year undergraduate civil engineering program. The course provides an opportunity for students to integrate and apply their knowledge acquired so far. The course comprises a comprehensive group design project and a series of seminars from expert. At the end of courses the students will be able to recognise the importance of proposing a viable and workable development project and appreciate the importance of integration and synthesis of various discipline of civil engineering knowledge										
					SEM 1 18/19	01	WED	08:00-08:50	FKASA5	L	60	N	0371 - NIBR 0501 - MIBA FPU0010 - WNBWA		BAA2113 BAA3213
								09:00-09:50	FKASA5	L	60	N			
						02	WED	08:00-08:50	FKASA5	L	60	N	0371 - NIBR 0501 - MIBA FPU0010 - WNBWA		
								09:00-09:50	FKASA5	L	60	N			
		4	**BAA4222**	**ENGINEERS IN SOCIETY**	Qualified engineers of tomorrow will need to be market conscious, commercially adept, enviromentally sensitive and responsive to needs of society. They must also be good communicators, organizers amd managers. Therefore, this course is designed to enrich the students and intended to introduce them to the professional practice of civil engineering, with emphasis on the roles of practicing engineers, professional practice organization, engineering ethics, professional registration and teamwork & communication skills. This course will cover six scopes which is engineering ethic & professionalism, planning for development, safety & health, environmental & sustainability, quality in construction, and teamwork & communication. The course features several guest speakers and all are civil engineering practicioners and professional, providing the students an opportunity to interact with professionals in their major field of interest.										
					SEM 1 18/19	01	WED	14:00-14:50	FKASA5	L	120	N	01808 - MIBA		
								15:00-15:50	FKASA5	L	120	N			
		4	**BAA4233**	**FINITE ELEMENT ANALYSIS**	This course will expose to students various techniques in analyzing common structures using stiffness methods, truss equations and beam equations. Students are taught how to analyze frame structures using frame and grid equations. In addition, finite element analysis procedures such as plane stress, plane strain stiffness equations and linear-strain triangle equations will be delivered in class. Axisymmetric elements and isoparametric formulations are second last topic for this course. Towards the end, students will learn various ways in analyzing three-dimensional stress and use finite elements software - ANSYS to solve structural engineering problems.										
					SEM 1 18/19	01	MON	14:00-14:50	W-DK-10	L	60	Y	2286 - GAJ	09/01/2019 - PM	BAA2123
								15:00-15:50	W-DK-10	L	60	Y			
							THU	15:00-15:50	W-DK-08	L	60	Y			
		4	**BAA4243**	**ADVANCED CONCRETE MATERIALS**											

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	**BAA4243**	**ADVANCED CONCRETE MATERIALS**	This course will introduce the students to the concepts, characterization, application and advantages of the recent concrete technology in construction as well as concrete durability in detail. The early part of the course will cover on the utilization of blended cement in concrete technology before introducing the student to the special concretes made using Portland cement and concrete produced not using Portland cement. The course will also touch on the durability aspect of concrete in terms of causes of deterioration, mechanism of attack as well as method to overcome the problem. Others topics that will also be included are quality control for durability of concrete and repairs of concrete structures.										
					SEM 1 18/19	01	MON	14:00-14:50	FKASA3	L	60	Y	0170 - KBM	10/01/2019 - PM	
								15:00-15:50	FKASA3	L	60	Y			
							THU	15:00-15:50	FKASA3	L	60	Y			
		4	**BAA4253**	**BRIDGE ENGINEERING**	This course covers on prestressed concrete bridge design, prestressing system, loss of prestress for bridge beams, analysis and design of section for flexural, shear and also principles and design of prestressed concrete members for prestressed concrete bridge. The course also covers prestressed concrete one-way slab and two-ways slab design for prestressed concrete bridge.										
					SEM 1 18/19	01	FRI	10:00-10:50	W-DK-11	L	60	Y	0283 - CHT	05/01/2019 - PM	BAA2213
							TUE	10:00-10:50	W-DK-11	L	60	Y			
								11:00-11:50	W-DK-11	L	60	Y			
		4	**BAA4313**	**GEOGRAPHICAL INFORMATION SYSTEM**	The goal of this course is to give knowledge and understanding about application of Geographical Information System (GIS) in Civil Engineering. The main content of this course is about an application of GIS in civil engineering. Amongst the main topics discussed are; a) Fundamental and development of GIS in civil engineering b) Data processing such as data capture, data management, spatial analysis, data manipulation and data output. c) Current application of GIS in civil engineering (focus in Malaysia)										
					SEM 1 18/19	01	THU	10:00-10:50	FKASA5	L	60	Y	0501 - MIBA	07/01/2019 - PM	
							TUE	10:00-10:50	FKASA5	L	60	Y			
								11:00-11:50	FKASA5	L	60	Y			
		4	**BAA4513**	**FOUNDATION ENGINEERING**	Focuses on geotechnical design of shallow and deep foundations, including spread footings, mats, driven piles, and drilled piers. Coverage includes bearing capacity, settlement, group effects, and lateral load capacity of the various foundation types. Additional topics include subsurface exploration, construction of deep foundations, and analysis of pile behavior using wave equation and dynamic monitoring methods. Prereqs., CVEN 3718 or instructor consent. Same as CVEN 5728.										
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-08	L	60	Y	01896 - HBA	06/01/2019 - PM	BAA3513
								09:00-09:50	W-DK-08	L	60	Y			
							THU	08:00-08:50	FKASA6	L	60	Y			
						02	THU	14:00-14:50	FKASA5	L	60	Y	01896 - HBA		
							TUE	14:00-14:50	FKASA6	L	60	Y			
								15:00-15:50	FKASA6	L	60	Y			
		4	**BAA4723**	**APPLIED HYDRAULICS ENGINEERING**											

COURSE TIMETABLE

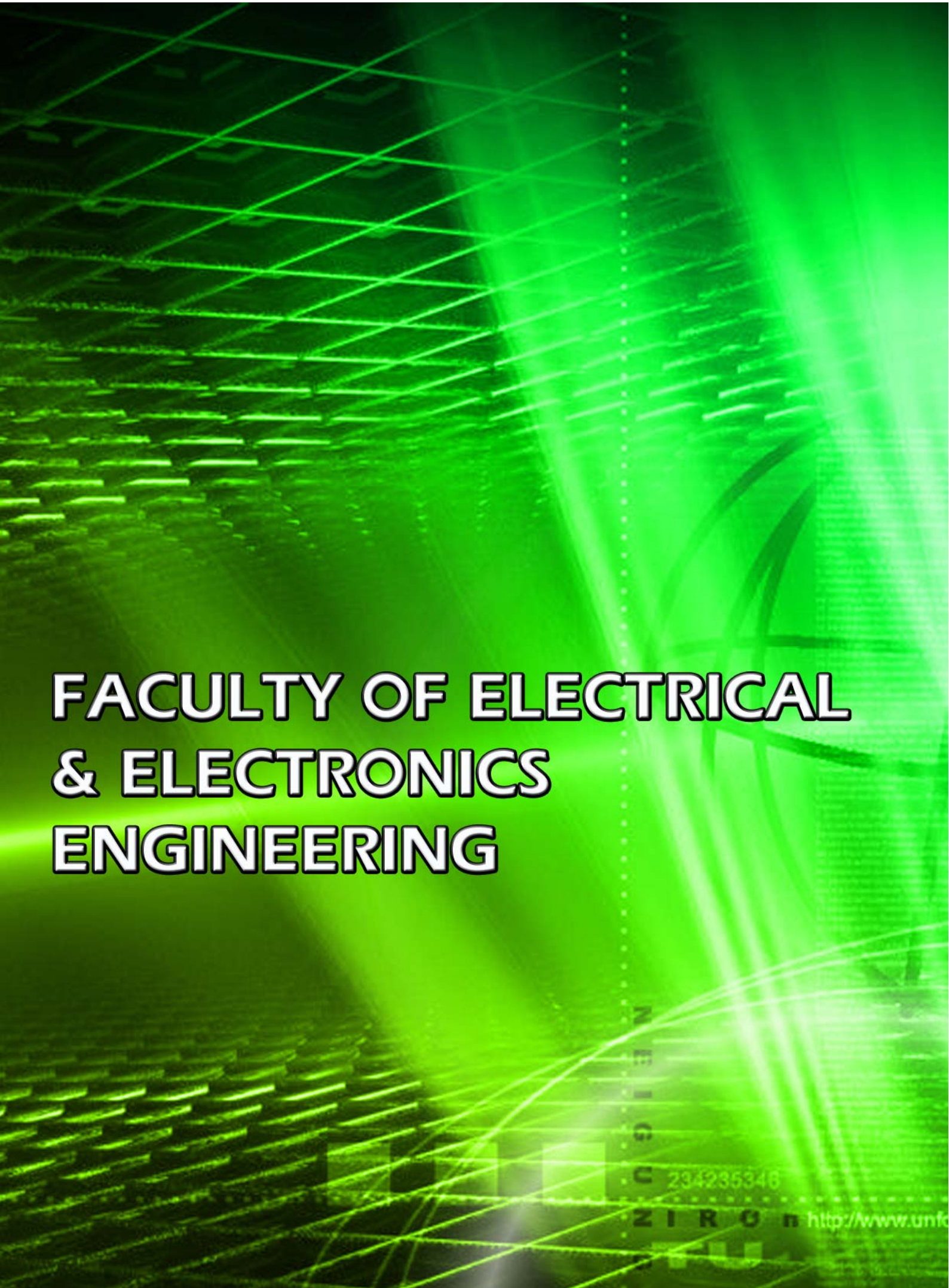
Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	BAA4723	APPLIED HYDRAULICS ENGINEERING	This course is to provide students with the advanced principles in applied methods towards hydraulic problems. It covers application and analysis of urban stormwater facilities, sedimentation processes and erosion problems which will equips the students with the skills on techniques of hydraulics analysis. Few examples and case studies from the MSMA 2nd Edition will be introduced as a guideline to assist and expose student in real world applications.										
					SEM 1 18/19	01	MON	10:00-10:50	FKASA2	L	60	Y	0435 - NBO	07/01/2019 - AM	BAA2723
								11:00-11:50	FKASA2	L	60	Y			
							THU	10:00-10:50	FKASA2	L	60	Y			
		4	BAE4443	WASTE MANAGEMENT	Waste management is the module focuses on waste management such as solid waste management. In this module student will be exposed on the regulation, processes and design for safe waste management begin from generation, storage, and transportation until disposal of solid waste. In this subject, the students will be introduced to the sustainability technique of waste management such as the application of Life Cycle Assessment (LCA). It is important for student to learn and understand this subject in order to develop clean and safe environment for human and health.										
					SEM 1 18/19	01	FRI	10:00-10:50	FKASA3	L	60	Y	0092 - EBA	07/01/2019 - PM	
							THU	10:00-10:50	FKASA3	L	60	Y			
								11:00-11:50	FKASA3	L	60	Y			
		4	BAE4613	ENVIRONMENTAL MANAGEMENT	This subject covers various topic from water, air, noise and solid waste which contribute to pollution during constructions works. Rules and regulation from Department of Environmental also will be addressed together with environmental impact assessment (EIA) before the construction works and environmental management planning (EMP) during construction works. International standards and GIS application also will be highlighted with latest development, technology and applications.										
					SEM 1 18/19	01	MON	16:00-16:50	FKASA6	L	60	Y	0515 - ASBAR	08/01/2019 - PM	
								17:00-17:50	FKASA6	L	60	Y			
							TUE	16:00-16:50	FKASA6	L	60	Y			
		4	BAE4813	ADVANCED HYDROLOGY & WATER RESOURCES	This course is to provide students with the knowledge in advanced hydrological methods towards water resources problems. It equips the students with the skills on techniques of hydrological and water resources data analysis, modeling and prediction. This course begins with advanced methods in runoff model, hydrograph analysis and flood routing analysis. Other topics will be covered are probability and frequency analysis, the introduction of Urban Stormwater Management Manual for Malaysia (MSMA) in stormwater quantity control and water resources management including water uses, policy and regulation, system and economics analysis of water resources system. The knowledge in this course will be used in planning, development, management and design of water resources project.										
					SEM 1 18/19	01	THU	08:00-08:50	FKASA2	L	60	Y	0285 - SRBS	09/01/2019 - PM	BAA3713
							TUE	08:00-08:50	FKASA2	L	60	Y			
								09:00-09:50	FKASA2	L	60	Y			
			BAA4323	BUILDING INFORMATION MODELLING	This course focuses on theoretical and technical knowledge of Building Information Modelling (BIM). The theoretical aspect emphasises on the fundamental concept of BIM. It covers the three crucial elements of People, Process and Technology. In the process element, the student will learn about the different stages of BIM delivery. Additionally, BIM standards and BIM manual of work process are also be included to provide a better understanding. In the people elements, the focus of teaching concentrates on different responsibilities of BIM associated roles. It covers the function of each role to deliver the BIM scope of work effectively. Lastly, the technology elements focus specifically on the technical aspect of BIM. It will covers four interconnected activities of delivery to use 3D Parametric Authoring Tools. (INPUT, SETUP, MODELLING, OUTPUT) . At the end of the class, the students should be able to produce 3D Information rich BIM models.										
					SEM 1 18/19	01	MON	10:00-10:50	FKASA3	L	60	Y	0341 - ATBH	08/01/2019 - PM	
								11:00-11:50	FKASA3	L	60	Y			
							WED	10:00-10:50	FKASA3	L	60	Y			
			BAA4413	TRANSPORTATION ENGINEERING	This course provide students with knowledge in transportation engineering in whole towards enhancing										

COURSE TIMETABLE

Faculty : **FACULTY OF CIVIL ENGINEERING & EARTH RESOURCES**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BAA4413**	**TRANSPORTATION ENGINEERING**	the students skills on technique of transportatiom facilities design, surfaces design, evaluation of advance horizontal curve design and design of super elevation of the road. besides that students will also learn on the different method in designing road thickness layer. Subsequently, students will be taught on the enhance knowledge on capacity design for basic freeway and ramp where finally concept of trip modelling will be introduced to the students.										
					SEM 1 18/19	01	MON	16:00-16:50	FKASA5	L	60	Y	0180 - ISBMR	08/01/2019 - PM	
								17:00-17:50	FKASA5	L	60	Y			
							THU	16:00-16:50	FKASA5	L	60	Y			
			BAA4523	**SOIL IMPROVEMENT**	This course deals with the principles of ground improvement and soil stabilization. Amongst the topics covered are mechanical compaction, preloading and vertical drain, dynamic deep compaction, vibro compaction and replacement, grouting, deep soil mixing, earth reinforcement, tiebacks, soil nailing and sustainability in ground improvement.										
					SEM 1 18/19	01	MON	14:00-14:50	FKASA2	L	60	Y	01474 - MYBMT	09/01/2019 - AM	BAA2513 BAA3513
								15:00-15:50	FKASA2	L	60	Y			
							THU	15:00-15:50	FKASA2	L	60	Y			
			BAA4833	**BUSINESS FOR ENGINEERING AND CONSTRUCTION**	The module provides an introduction to Business Skills for Engineers in Construction practice. It highlights how management theory and established practice. It highlights how management theory and established practice and procedures are applied to support the non core buiness of an organisation. It also develops an understanding of the requirement of a contractor in relation to the management of services which support an organisation.										
					SEM 1 18/19	01	MON	10:00-10:50	FKASA6	L	60	Y	0342 - MSHBS	10/01/2019 - PM	
								11:00-11:50	FKASA6	L	60	Y			
							THU	10:00-10:50	FKASA6	L	60	Y			
NO TIMETABLE	DEGREE	2	**BAA1131**	**ENGINEERING SURVEYING CAMP**	This engineering surveying camp encompasses; carry out horizontal and vertical control survey, detailing survey to locate of man-made and natural features, preparation of site plan, related computation and setting-out simple construction work.										
					SEM 1 18/19	SESI 1					131	N	TBA		BAA1912
		3	**BAA4976**	**INDUSTRIAL TRAINING**	This course involves placement of students in relevant industry for approximate 10 weeks duration to get real-world working experience. Every student will be assigned an advisor/lecturer from the faculty who will co-operate with the industrial counterpart. At the end of the industrial training, students need to submit report. In addition, the respective industrial counterpart need to evaluate and provide comments on the students performances. CIDB structured module will be used as a part of evaluation.										
					SEM 1 18/19	01					200		TBA		BAA3023 BAA3012 BAA3513 BAA2723 BAA2213
		4	**BAA4914**	**FINAL YEAR PROJECT**	After successfully completing Research Methodology and Pre-Project (BAA3922), students will continue to proceed with the subsequent tasks of the proposed project program. They have to undertake data collection and conduct experiment or survey, tabulate and analyze the results, and conclude their project findings. They must constantly report and carry out discussion with their supervisors on the extent of the development of their project. At the end of the course, students have to submit the final thesis and present their findings to the examiners.										
					SEM 1 18/19	01					120	N	TBA		BAA3922


FACULTY OF ELECTRICAL
& ELECTRONICS
ENGINEERING

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE	1	**BEE1133**	**CIRCUIT ANALYSIS I**	This course introduces the basic concepts and engineering methods of DC and AC circuit analysis. The contents include Ohm's Law, Kirchhoff's Law, series and parallel circuits, Mesh and Nodal analysis, Thevenins and Nortons theorems, and responses of First Order circuits.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	MON	08:00-08:50	E20BK1	L	30	Y	0310 - NBAG		
			09:00-09:50	E20BK1	L	30	Y			
		WED	08:00-08:50	E20BK1	L	30	Y			
			09:00-09:50	E20BK1	L	30	Y			
	01A	WED	08:00-08:50	E12-F16A	B	30	Y	0310 - NBAG		
			09:00-09:50	E12-F16A	B	30	Y			
	02	THU	10:00-10:50	E20BK1	L	30	Y	0125 - HBA		
			11:00-11:50	E20BK1	L	30	Y			
		TUE	10:00-10:50	E20BK1	L	30	Y			
			11:00-11:50	E20BK1	L	30	Y			
	02A	THU	10:00-10:50	E12-F16A	B	30	Y	0125 - HBA		
			11:00-11:50	E12-F16A	B	30	Y			
	03	MON	14:00-14:50	E22BK6	L	30	Y	0134 - NRHBA		
			15:00-15:50	E22BK6	L	30	Y			
		TUE	14:00-14:50	E22BK6	L	30	Y			
			15:00-15:50	E22BK6	L	30	Y			
	03A	TUE	14:00-14:50	E12-F16A	B	30	Y	0134 - NRHBA		
			15:00-15:50	E12-F16A	B	30	Y			
	04	FRI	15:00-15:50	E21BK3	L	30	Y	01811 - NBAT@Y		
			16:00-16:50	E21BK3	L	30	Y			
		TUE	16:00-16:50	E20BK1	L	30	Y			
			17:00-17:50	E20BK1	L	30	Y			
	04A	FRI	15:00-15:50	E12-F16A	B	30	Y	01811 - NBAT@Y		
			16:00-16:50	E12-F16A	B	30	Y			
	05	FRI	08:00-08:50	E20BT1	L	30	Y	01315 - YBAW		
			09:00-09:50	E20BT1	L	30	Y			
		TUE	08:00-08:50	E21BK3	L	30	Y			
			09:00-09:50	E21BK3	L	30	Y			
	05A	TUE	08:00-08:50	E12-F16A	B	30	Y	01315 - YBAW		
			09:00-09:50	E12-F16A	B	30	Y			

Campus	Level	Year	Code	Course Name
		1	**BEE1213**	**DIGITAL ELECTRONICS**

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE	1	**BEE1213**	**DIGITAL ELECTRONICS**	This course emphasizes on the fundamental of digital electronics. The student is first taught about the number system and logic gates before introducing them to digital IC technology. Then they are exposed to both combinational logic network and combinational MSI logic. In concurrence with this, the fundamental of sequential logic, flip-flop, counter and shift register will be taught. Finally, the memory devices are introduced.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	MON	10:00-10:50	E20BK1	L	30	Y	01064 - NBS		
			11:00-11:50	E20BK1	L	30	Y			
		WED	10:00-10:50	E20BK1	L	30	Y			
			11:00-11:50	E20BK1	L	30	Y			
	01A	WED	10:00-10:50	E12-F17A	B	30	Y	01064 - NBS		
			11:00-11:50	E12-F17A	B	30	Y			
	02	MON	16:00-16:50	E20BK1	L	30	Y	0676 - NFBZ		
			17:00-17:50	E20BK1	L	30	Y			
		THU	16:00-16:50	E20BK1	L	30	Y			
			17:00-17:50	E20BK1	L	30	Y			
	02A	MON	16:00-16:50	E12-F17A	B	30	Y	0676 - NFBZ		
			17:00-17:50	E12-F17A	B	30	Y			
	03	FRI	08:00-08:50	E21BK4	L	30	Y	0676 - NFBZ		
			09:00-09:50	E21BK4	L	30	Y			
		TUE	08:00-08:50	E20BK1	L	30	Y			
			09:00-09:50	E20BK1	L	30	Y			
	03A	FRI	08:00-08:50	E12-F17A	B	30	Y	0676 - NFBZ		
			09:00-09:50	E12-F17A	B	30	Y			
	04	FRI	10:00-10:50	E21BK4	L	30	Y	01323 - FBN		
			11:00-11:50	E21BK4	L	30	Y			
		THU	14:00-14:50	E20BT2	L	30	Y			
			15:00-15:50	E20BT2	L	30	Y			
	04A	THU	14:00-14:50	E12-F17A	B	30	Y	01323 - FBN		
			15:00-15:50	E12-F17A	B	30	Y			
	05	FRI	15:00-15:50	E21BK4	L	30	Y	0277 - MRBD		
			16:00-16:50	E21BK4	L	30	Y			
		TUE	16:00-16:50	E21BK3	L	30	Y			
			17:00-17:50	E21BK3	L	30	Y			
	05A	TUE	16:00-16:50	E12-F17A	B	30	Y	0277 - MRBD		
			17:00-17:50	E12-F17A	B	30	Y			

Campus	Level	Year	Code	Course Name
		1	**BEE1223**	**COMPUTER PROGRAMMING & APPLICATION**

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE	1	**BEE1223**	**COMPUTER PROGRAMMING & APPLICATION**	This course presents the C programming language for electrical & electronic engineer. The contents emphasis not only on the theoretical knowledge of programming but also the practical implementation in real-life situation. Students will learn basic structure of computer programming and exposed to method for basic hardware-software interfacing.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	MON	08:00-08:50	E00-F01	B	30	N	01346 - MFBMJ		
			09:00-09:50	E00-F01	B	30	N			
		WED	08:00-08:50	E00-F01	B	30	N			
			08:00-08:50	E10-F02B	B	30	N			
			09:00-09:50	E00-F01	B	30	N			
			09:00-09:50	E10-F02B	B	30	N			
	02	THU	10:00-10:50	E00-F01	B	30	N	01066 - MBY		
			10:00-10:50	E10-F02B	B	30	N			
			11:00-11:50	E00-F01	B	30	N			
			11:00-11:50	E10-F02B	B	30	N			
		TUE	10:00-10:50	E00-F01	B	30	N			
			11:00-11:50	E00-F01	B	30	N			
	03	MON	14:00-14:50	E00-F01	B	30	N	0087 - MSBB		
			15:00-15:50	E00-F01	B	30	N			
		TUE	14:00-14:50	E00-F01	B	30	N			
			14:00-14:50	E10-F02B	B	30	N			
			15:00-15:50	E00-F01	B	30	N			
			15:00-15:50	E10-F02B	B	30	N			
	04	FRI	15:00-15:50	E00-F01	B	30	N	2047 - IIMA		
			15:00-15:50	E10-F02B	B	30	N			
			16:00-16:50	E00-F01	B	30	N			
			16:00-16:50	E10-F02B	B	30	N			
		TUE	16:00-16:50	E00-F01	B	30	N			
			17:00-17:50	E00-F01	B	30	N			
	05	FRI	10:00-10:50	E00-F01	B	30	N	0470 - AIBH		
			11:00-11:50	E00-F01	B	30	N			
		THU	14:00-14:50	E00-F01	B	30	N			
			14:00-14:50	E10-F02B	B	30	N			
			15:00-15:50	E00-F01	B	30	N			
			15:00-15:50	E10-F02B	B	30	N			

1	**BEE1313**	**INSTRUMENTATION & MEASUREMENTS**		

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BEE1313**	**INSTRUMENTATION & MEASUREMENTS**	This course introduces students to the principles of instrumentation and measurements, determination of error that caused by the meters. The students will be exposed to the architecture and the operation of DC and AC meters, oscilloscope, signal generator, sensors and transducers, analysis of DC and AC meters and introduction to signal conditioning.										
					SEM 1 18/19	01	MON	10:00-10:50	E20BK2	L	30	Y	01315 - YBAW		
								11:00-11:50	E20BK2	L	30	Y			
							WED	10:00-10:50	E20BK2	L	30	Y			
								11:00-11:50	E20BK2	L	30	Y			
						01A	WED	10:00-10:50	E10-F07A	B	30	Y	01315 - YBAW		
								11:00-11:50	E10-F07A	B	30	Y			
						02	MON	16:00-16:50	E20BK2	L	30	Y	0125 - HBA		
								17:00-17:50	E20BK2	L	30	Y			
							THU	16:00-16:50	E20BK2	L	30	Y			
								17:00-17:50	E20BK2	L	30	Y			
						02A	MON	16:00-16:50	E10-F07A	B	30	Y	0125 - HBA		
								17:00-17:50	E10-F07A	B	30	Y			
						03	FRI	08:00-08:50	E00DK3	L	30	Y	01849 - WNABWS		
								09:00-09:50	E00DK3	L	30	Y			
							TUE	08:00-08:50	E20BK2	L	30	Y			
								09:00-09:50	E20BK2	L	30	Y			
						03A	TUE	08:00-08:50	E10-F07A	B	30	Y	01849 - WNABWS		
								09:00-09:50	E10-F07A	B	30	Y			
		1	**BEE1961**	**MOTOR CONTROL**	This course exposes students to various types of three phase induction motor starter circuit. The students also will learn about the principle of electrical motor and its protection system.										
					SEM 1 18/19	01	MON	14:00-14:50	E10-F03A	B	30	N	01317 - MIBMR		
								15:00-15:50	E10-F03A	B	30	N			
						02	FRI	10:00-10:50	E10-F03A	B	30	N	01317 - MIBMR		
								11:00-11:50	E10-F03A	B	30	N			
		1	**BEE1971**	**LOW VOLTAGE ELECTRICAL INSTALLATION**	This course introduces students to the single phase and three phase wiring and installation. The students will learn about supply system, rules and regulation, wiring system and electrical protection system. They are also will practice in applying trunking and conduits for electrical wiring as well as doing fitting and installation of electrical system devices. Then, they will conduct inspection and testing on their wiring and installation as safety conformation and fulfill the regulations.										
					SEM 1 18/19	01	MON	10:00-10:50	E20-F20	B	30	N	01317 - MIBMR		
								11:00-11:50	E20-F20	B	30	N			
						02	THU	08:00-08:50	E20-F20	B	30	N	01781 - ASBMS		
								09:00-09:50	E20-F20	B	30	N			
						03	TUE	14:00-14:50	E20-F20	B	30	N	01781 - ASBMS		
								15:00-15:50	E20-F20	B	30	N			
		1	**BEE4632**	**MAINTENANCE TECHNOLOGY**	This course exposed students to the various maintenance strategies and current technologies available for solving maintenance problems in the industry. Besides, it also introduces students to many failure analysis techniques for finding solution to different maintenance problem. On top of that, maintenance data management using computerized maintenance management software is also embedded as technology tool. Maintenance solution is approach with the consideration of sustainable development in related issue using appropriate tools and techniques.										
					SEM 1 18/19	01	MON	14:00-14:50	E00DK3	L	30	N	0382 - ABAH		
								15:00-15:50	E00DK3	L	30	N			
						02	FRI	10:00-10:50	E20BT2	L	30	N	0382 - ABAH		
								11:00-11:50	E20BT2	L	30	N			

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	**BEE1143**	**CIRCUIT ANALYSIS II**	This course provides the basic concepts and engineering methods of AC circuits. The contents include applications of Mesh and Nodal analysis, Superposition and Source Transformation Theorems, Thevenin and Norton Theorem. Resonant circuit, second order circuit and Balanced 3-phase circuits are also covered.										
					SEM 1 18/19	01	MON	12:00-12:50	E20BK1	L	30	Y	0077 - MBM		BEE1133
								13:00-13:50	E20BK1	L	30	Y			
							THU	12:00-12:50	E20BK1	L	30	Y			
								13:00-13:50	E20BK1	L	30	Y			
						01A	MON	12:00-12:50	E12-F16A	B	30	Y	0077 - MBM		
								13:00-13:50	E12-F16A	B	30	Y			
		2	**BEE2213**	**ANALOG ELECTRONICS I**	This course introduces the fundamental of semiconductor devices which are diodes and transistors. It also describes BJT transistors operational characteristic that covers the DC and AC analysis. In addition, the various type of BJT configuration will be examined and analyzed. Furthermore, the analysis of the amplifier circuit will be extended to its frequency response.										
					SEM 1 18/19	01	MON	08:00-08:50	E20BK2	L	30	Y	0062 - SBR		BEE1133
								09:00-09:50	E20BK2	L	30	Y			
							WED	08:00-08:50	E20BK2	L	30	Y			
								09:00-09:50	E20BK2	L	30	Y			
						01A	WED	08:00-08:50	E12-F08B	B	30	Y	0062 - SBR		
								09:00-09:50	E12-F08B	B	30	Y			
						02	THU	10:00-10:50	E20BK2	L	30	Y	0241 - RBS		
								11:00-11:50	E20BK2	L	30	Y			
							TUE	10:00-10:50	E20BK2	L	30	Y			
								11:00-11:50	E20BK2	L	30	Y			
						02A	TUE	10:00-10:50	E12-F08B	B	30	Y	0241 - RBS		
								11:00-11:50	E12-F08B	B	30	Y			
						03	FRI	15:00-15:50	E20BK2	L	30	Y	01782 - MSBAK		
								16:00-16:50	E20BK2	L	30	Y			
							TUE	16:00-16:50	E20BK2	L	30	Y			
								17:00-17:50	E20BK2	L	30	Y			
						03A	FRI	15:00-15:50	E12-F08B	B	30	Y	01782 - MSBAK		
								16:00-16:50	E12-F08B	B	30	Y			
		2	**BEE2931**	**BASIC PROGRAMMABLE LOGIC CONTROLLER**	This course covered the fundamental of Programmable Logic Controller (PLC) including input and output component, memory address, wiring diagram, troubleshooting and design of ladder diagram.										
					SEM 1 18/19	01	FRI	08:00-08:50	E10-F05A	B	30	N	01156 - NBF		
								09:00-09:50	E10-F05A	B	30	N			
						02	THU	14:00-14:50	E10-F05A	B	30	N	0055 - MBMN		
								15:00-15:50	E10-F05A	B	30	N			
						03	TUE	14:00-14:50	E10-F05A	B	30	N	0055 - MBMN		
								15:00-15:50	E10-F05A	B	30	N			
						04	WED	10:00-10:50	E10-F05A	B	30	N	01156 - NBF		
								11:00-11:50	E10-F05A	B	30	N			
		2	**BEE3113**	**ELECTROMAGNETIC FIELDS THEORY**											

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE	2	**BEE3113**	**ELECTROMAGNETIC FIELDS THEORY**	This course introduces students on the importance and the applications of the Electromagnetic Fields Theory in the Electrical Engineering courses. The syllabus covered includes the concepts of electrostatic field, magnetostatic field and electromagnetic field (time varying field).	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	THU	08:00-08:50	E22BK5	L	30	Y	01761 - MMBS		
			09:00-09:50	E22BK5	L	30	Y			
		TUE	08:00-08:50	E22BK5	L	30	Y			
			09:00-09:50	E22BK5	L	30	Y			
	01A	THU	08:00-08:50	E11-F10A	B	30	Y	01761 - MMBS		
			09:00-09:50	E11-F10A	B	30	Y			
	02	MON	10:00-10:50	E22BK5	L	30	Y	0453 - MSBR		
			11:00-11:50	E22BK5	L	30	Y			
		WED	10:00-10:50	E22BK5	L	30	Y			
			11:00-11:50	E22BK5	L	30	Y			
	02A	WED	10:00-10:50	E11-F10A	B	30	Y	0453 - MSBR		
			11:00-11:50	E11-F10A	B	30	Y			
	03	FRI	08:00-08:50	E20BK2	L	30	Y	0837 - MABA		
			09:00-09:50	E20BK2	L	30	Y			
		WED	14:00-14:50	E20BK1	L	30	Y			
			15:00-15:50	E20BK1	L	30	Y			
	03A	FRI	08:00-08:50	E11-F10A	B	30	Y	0837 - MABA		
			09:00-09:50	E11-F10A	B	30	Y			
	04	MON	16:00-16:50	E22BK5	L	30	Y	0453 - MSBR		
			17:00-17:50	E22BK5	L	30	Y			
		THU	16:00-16:50	E22BK5	L	30	Y			
			17:00-17:50	E22BK5	L	30	Y			
	04A	THU	16:00-16:50	E11-F10A	B	30	Y	0453 - MSBR		
			17:00-17:50	E11-F10A	B	30	Y			

Campus	Level	Year	Code	Course Name
		2	**BEE3413**	**PRINCIPLES OF COMMUNICATION SYSTEMS**

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	**BEE3413**	**PRINCIPLES OF COMMUNICATION SYSTEMS**	This course introduces theories in the area of communication systems. Topics covered include the basic elements of communications, signal analysis, amplitude modulation, angle modulations and digital modulations, as well as transmission channels and noise impact on the modulation system. Finally, some emergence of digital communication technologies are presented and compared.										
					SEM 1 18/19	01	THU	10:00-10:50	E22BK5	L	30	Y	0579 - MHBMA		
								11:00-11:50	E22BK5	L	30	Y			
							TUE	10:00-10:50	E22BK5	L	30	Y			
								11:00-11:50	E22BK5	L	30	Y			
						01A	THU	10:00-10:50	E11-F13A	B	30	Y	0579 - MHBMA		
								11:00-11:50	E11-F13A	B	30	Y			
						02	FRI	15:00-15:50	E22BK5	L	30	Y	0464 - ARBZ		
								16:00-16:50	E22BK5	L	30	Y			
							WED	16:00-16:50	E22BK5	L	30	Y			
								17:00-17:50	E22BK5	L	30	Y			
						02A	WED	16:00-16:50	E11-F13A	B	30	Y	0464 - ARBZ		
								17:00-17:50	E11-F13A	B	30	Y			
						03	FRI	10:00-10:50	E20BT1	L	30	Y	01052 - NBMR		
								11:00-11:50	E20BT1	L	30	Y			
							THU	12:00-12:50	E22BK6	L	30	Y			
								13:00-13:50	E22BK6	L	30	Y			
						03A	FRI	10:00-10:50	E11-F13A	B	30	Y	01052 - NBMR		
								11:00-11:50	E11-F13A	B	30	Y			
						04	MON	14:00-14:50	E20BT2	L	30	Y	0049 - RBM		
								15:00-15:50	E20BT2	L	30	Y			
							WED	08:00-08:50	E20BT1	L	30	Y			
								09:00-09:50	E20BT1	L	30	Y			
						04A	MON	14:00-14:50	E11-F13A	B	30	Y	0049 - RBM		
								15:00-15:50	E11-F13A	B	30	Y			
		2	**BEE3941**	**MICROCONTROLLER APPLICATIONS**	This course exposes students to the microcontroller in term of programming and hardware configurations. Beginning with understanding of microcontroller architecture, the programming software is applied to configure for several applications such as DI, DO, AI, ADC, and PWM. In addition, students are exposed to the integration between microcontroller and external devices.										
					SEM 1 18/19	01	THU	10:00-10:50	E11-F11A	B	30	N	01346 - MFBMJ		
								11:00-11:50	E11-F11A	B	30	N			
						02	TUE	14:00-14:50	E11-F11A	B	30	N	01346 - MFBMJ		
								15:00-15:50	E11-F11A	B	30	N			
		2	**BEE4641**	**ENGINEERS & SOCIETY**	This course is to enable student to gain a deeper understanding of the ethical and laws issues and dilemmas that arise in one or more areas in professional conduct and their responsibility to society. It also intended to develop students to understand the academic responsibility and accountability of a profession in engineering and the organizational activities of professional engineering institutions.										
					SEM 1 18/19	01	MON	14:00-14:50	E21BK3	L	30	N	2346 - SK		BEE1611
								15:00-15:50	E21BK3	L	30	N			
						02	THU	12:00-12:50	E21BK3	L	30	N	01777 - NABO		
								13:00-13:50	E21BK3	L	30	N			
		3	**BEE1611**	**OCCUPATIONAL SAFETY & HEALTH**											

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BEE1611**	**OCCUPATIONAL SAFETY & HEALTH**	The course aims to ensure worker safety and health by working with employers to create better working environments. Outreach, education and compliance assistance enable OSHA to play a vital role in preventing on-the-job injuries and illnesses. At the end of this course, students will be able to establish safety and health programs by analyzing, identifying and correcting workplace hazards.										
					SEM 1 18/19	01	MON	14:00-14:50	E20BK2	L	30	N	0464 - ARBZ		
								15:00-15:50	E20BK2	L	30	N			
						02	FRI	10:00-10:50	E20BK2	L	30	N	0464 - ARBZ		
								11:00-11:50	E20BK2	L	30	N			
		3	**BEE2123**	**ELECTRICAL MACHINES**	This course introduces the fundamental concepts and principles of transformer and various types of electrical machines. It is intended for students to understand fundamental aspects of rotating electrical machines. The first part of the course is a quick review of some electromagnetism fundamental while the following will deal with the transformers and different types of electrical machines.										
					SEM 1 18/19	01	THU	08:00-08:50	E20BT1	L	30	Y	0102 - MRBM		
								09:00-09:50	E20BT1	L	30	Y			
							TUE	08:00-08:50	E20BT1	L	30	Y			
								09:00-09:50	E20BT1	L	30	Y			
						01A	THU	08:00-08:50	E10-F04B	B	30	Y	0102 - MRBM		
								09:00-09:50	E10-F04B	B	30	Y			
						02	MON	10:00-10:50	E21BK3	L	30	Y	0134 - NRHBA		
								11:00-11:50	E21BK3	L	30	Y			
							WED	10:00-10:50	E21BK3	L	30	Y			
								11:00-11:50	E21BK3	L	30	Y			
						02A	WED	10:00-10:50	E10-F04B	B	30	Y	0134 - NRHBA		
								11:00-11:50	E10-F04B	B	30	Y			
						03	FRI	08:00-08:50	E21BK3	L	30	Y	01850 - NHBR		
								09:00-09:50	E21BK3	L	30	Y			
							WED	14:00-14:50	E21BK3	L	30	Y			
								15:00-15:50	E21BK3	L	30	Y			
						03A	FRI	08:00-08:50	E10-F04B	B	30	Y	01850 - NHBR		
								09:00-09:50	E10-F04B	B	30	Y			
						04	MON	16:00-16:50	E00DK1	L	30	Y	01557 - AIBM		
								17:00-17:50	E00DK1	L	30	Y			
							THU	16:00-16:50	E21BK3	L	30	Y			
								17:00-17:50	E21BK3	L	30	Y			
						04A	MON	16:00-16:50	E10-F04B	B	30	Y	01557 - AIBM		
								17:00-17:50	E10-F04B	B	30	Y			
		3	**BEE2143**	**SIGNALS & NETWORKS**											

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite

PEKAN | **DEGREE** | 3 | **BEE2143** | **SIGNALS & NETWORKS**

This course introduces the students to various signals transformation techniques and its application to electrical circuits. This includes Fourier Series, Fourier Transforms and Laplace Transform. The concept of frequency response is introduced in filter.

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	FRI	08:00-08:50	E00DK2	L	30	Y	01356 - RBH		BUM2133 BET1542 BET1553
			09:00-09:50	E00DK2	L	30	Y			
		WED	08:00-08:50	E00DK2	L	30	Y			
			09:00-09:50	E00DK2	L	30	Y			
	01A	FRI	08:00-08:50	E11-F08A	B	30	Y	01356 - RBH		
			09:00-09:50	E11-F08A	B	30	Y			
	02	THU	14:00-14:50	E20BK1	L	30	Y	01853 - SMBS		
			15:00-15:50	E20BK1	L	30	Y			
		TUE	14:00-14:50	E20BK1	L	30	Y			
			15:00-15:50	E20BK1	L	30	Y			
	02A	THU	14:00-14:50	E11-F08A	B	30	Y	01853 - SMBS		
			15:00-15:50	E11-F08A	B	30	Y			
	03	MON	10:00-10:50	E20BT1	L	30	Y	01853 - SMBS		
			11:00-11:50	E20BT1	L	30	Y			
		WED	10:00-10:50	E21BK4	L	30	Y			
			11:00-11:50	E21BK4	L	30	Y			
	03A	MON	10:00-10:50	E11-F08A	B	30	Y	01853 - SMBS		
			11:00-11:50	E11-F08A	B	30	Y			

3 | **BEE2223** | **MICROPROCESSOR**

The aim of this course is to introduce to a microprocessor and embedded system. Students will be provided with an in-depth understanding of the internal architecture of the microprocessor and the embedded system. In addition, they are exposed with various instruction sets either in assembly or high level language in order to develop an efficient program. Basic hardware and interfacing design with a range of typical microprocessor peripheral is also introduced.

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	FRI	08:00-08:50	E21BT3	L	40	Y	0045 - BBM		BEE1213
			09:00-09:50	E21BT3	L	40	Y			
		WED	08:00-08:50	E22BK5	L	40	Y			
			09:00-09:50	E22BK5	L	40	Y			
	01A	FRI	08:00-08:50	E11-F12A	B	40	Y	0045 - BBM		
			09:00-09:50	E11-F12A	B	40	Y			
	02	THU	14:00-14:50	E22BK5	L	40	Y	0014 - NMKBNY		
			15:00-15:50	E22BK5	L	40	Y			
		TUE	14:00-14:50	E22BK5	L	40	Y			
			15:00-15:50	E22BK5	L	40	Y			
	02A	THU	14:00-14:50	E11-F12A	B	40	Y	0014 - NMKBNY		
			15:00-15:50	E11-F12A	B	40	Y			
	03	MON	10:00-10:50	E00DK1	L	40	Y	0014 - NMKBNY		
			11:00-11:50	E00DK1	L	40	Y			
		WED	10:00-10:50	E00DK3	L	40	Y			
			11:00-11:50	E00DK3	L	40	Y			
	03A	WED	10:00-10:50	E11-F12A	B	40	Y	0014 - NMKBNY		
			11:00-11:50	E11-F12A	B	40	Y			

3 | **BEE2233** | **ANALOG ELECTRONICS II**

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BEE2233**	**ANALOG ELECTRONICS II**	This course introduces the fundamental of semiconductor devices which are transistors. It also describes Field-Effect Transistor (FET) operational characteristic that covers the DC and AC analysis. Some important devices such as op-amp and active filters are also introduced. Towards the end of this course, students are exposed to the applications of these semiconductor devices. During the laboratory sessions, students are expected to demonstrate and troubleshoot basic semiconductor device circuits.										
					SEM 1 18/19	01	MON	08:00-08:50	E21BK3	L	30	Y	01348 - IHBM		BEE2213
								09:00-09:50	E21BK3	L	30	Y			
							WED	08:00-08:50	E21BK3	L	30	Y			
								09:00-09:50	E21BK3	L	30	Y			
						01A	MON	08:00-08:50	E12-F08B	B	30	Y	01348 - IHBM		
								09:00-09:50	E12-F08B	B	30	Y			
						02	THU	10:00-10:50	E21BK3	L	30	Y	0585 - MABZ		
								11:00-11:50	E21BK3	L	30	Y			
							TUE	10:00-10:50	E21BK3	L	30	Y			
								11:00-11:50	E21BK3	L	30	Y			
						02A	THU	10:00-10:50	E12-F08B	B	30	Y	0585 - MABZ		
								11:00-11:50	E12-F08B	B	30	Y			
						03	FRI	15:00-15:50	E20BT2	L	30	Y	0066 - BBH		
								16:00-16:50	E20BT2	L	30	Y			
							TUE	16:00-16:50	E20BT1	L	30	Y			
								17:00-17:50	E20BT1	L	30	Y			
						03A	TUE	16:00-16:50	E12-F08B	B	30	Y	0066 - BBH		
								17:00-17:50	E12-F08B	B	30	Y			
		3	**BEE3133**	**ELECTRICAL POWER SYSTEMS**	This course introduces the fundamental of electrical power system which are the overview of power system, generation, transmission lines, distribution, representation of components, basic power system analysis.										
					SEM 1 18/19	01	MON	08:00-08:50	E22BK5	L	30	Y	0629 - MRBA		BEE1133 BEE1113
								09:00-09:50	E22BK5	L	30	Y			
							TUE	08:00-08:50	E00DK2	L	30	Y			
								09:00-09:50	E00DK2	L	30	Y			
						01A	TUE	08:00-08:50	E10-F02A	B	30	Y	0629 - MRBA		
								09:00-09:50	E10-F02A	B	30	Y			
						02	MON	16:00-16:50	E00DK2	L	30	Y	0636 - RBI		
								17:00-17:50	E00DK2	L	30	Y			
							TUE	16:00-16:50	E22BK5	L	30	Y			
								17:00-17:50	E22BK5	L	30	Y			
						02A	TUE	16:00-16:50	E10-F02A	B	30	Y	0636 - RBI		
								17:00-17:50	E10-F02A	B	30	Y			
						03	THU	14:00-14:50	E22BK6	L	30	Y	0888 - OBA		
								15:00-15:50	E22BK6	L	30	Y			
							WED	12:00-12:50	E21BK4	L	30	Y			
								13:00-13:50	E21BK4	L	30	Y			
						03A	THU	14:00-14:50	E10-F02A	B	30	Y	0888 - OBA		
								15:00-15:50	E10-F02A	B	30	Y			
		3	**BEE3143**	**POWER SYSTEM ANALYSIS**											

Universiti Malaysia PAHANG
Engineering • Technology • Creativity

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BEE3143**	**POWER SYSTEM ANALYSIS**	This course introduces students to the fundamental concepts of power system analysis which covered the power flow problem analysis, balanced and unbalanced fault analysis and stability evaluation. Students will be exposed to the problems commonly encountered in power system engineering practice, analysis and techniques applied to solve some practical problems in power systems.										
					SEM 1 18/19	01	MON	10:00-10:50	E22BK6	L	30	Y	0888 - OBA		BEE3133
								11:00-11:50	E22BK6	L	30	Y			
							WED	08:00-08:50	E22BK6	L	30	Y			
								09:00-09:50	E22BK6	L	30	Y			
						01A	WED	08:00-08:50	E11-F11A	B	30	Y	0888 - OBA		
								09:00-09:50	E11-F11A	B	30	Y			
		3	**BEE3233**	**ELECTRONICS SYSTEM DESIGN**	In this course, digital design is taught at a higher level of abstraction than BEE1213. It provides an in-depth coverage of systematical development and synthesis of digital system with emphasis on Field Programmable Gate Array (FPGA) technology. It covers with the proper planning techniques, design strategy and tools, functional verification and system implementation. The information gained can be applied to any digital design by using a top-down synthesis design approach. Through this course, student will be able to create digital design faster, shorten development time and lower the development costs.										
					SEM 1 18/19	01	THU	16:00-16:50	E00DK2	L	30	Y	0561 - RMTBRI		BEE1213
								17:00-17:50	E00DK2	L	30	Y			
							WED	14:00-14:50	E00DK2	L	30	Y			
								15:00-15:50	E00DK2	L	30	Y			
						01A	THU	16:00-16:50	E11-F11A	B	30	Y	0561 - RMTBRI		
								17:00-17:50	E11-F11A	B	30	Y			
						02	THU	08:00-08:50	E00DK2	L	30	Y	0068 - MRBO		
								09:00-09:50	E00DK2	L	30	Y			
							TUE	12:00-12:50	E20BK1	L	30	Y			
								13:00-13:50	E20BK1	L	30	Y			
						02A	THU	08:00-08:50	E11-F11A	B	30	Y	0068 - MRBO		
								09:00-09:50	E11-F11A	B	30	Y			
		3	**BEE3313**	**PRINCIPLES OF CONTROL SYSTEMS**	This course introduces students to the control system technology, mathematical models of feedback systems. The students will be exposed to transient and steady-state analysis, root locus, frequency response and analysis design of compensator.										
					SEM 1 18/19	01	THU	10:00-10:50	E00DK2	L	30	Y	0237 - MFBA		
								11:00-11:50	E00DK2	L	30	Y			
							TUE	10:00-10:50	E00DK2	L	30	Y			
								11:00-11:50	E00DK2	L	30	Y			
						01A	TUE	10:00-10:50	E10-F07A	B	30	Y	0237 - MFBA		
								11:00-11:50	E10-F07A	B	30	Y			
						02	FRI	15:00-15:50	E00DK2	L	30	Y	0352 - ANKBN		
								16:00-16:50	E00DK2	L	30	Y			
							WED	16:00-16:50	E00DK2	L	30	Y			
								17:00-17:50	E00DK2	L	30	Y			
						02A	FRI	15:00-15:50	E10-F07A	B	30	Y	0352 - ANKBN		
								16:00-16:50	E10-F07A	B	30	Y			
						03	FRI	10:00-10:50	E22BK6	L	30	Y	1987 - DP		
								11:00-11:50	E22BK6	L	30	Y			
							THU	12:00-12:50	E20BK2	L	30	Y			
								13:00-13:50	E20BK2	L	30	Y			
						03A	FRI	10:00-10:50	E10-F07A	B	30	Y	1987 - DP		
								11:00-11:50	E10-F07A	B	30	Y			
		3	**BEE4143**	**POWER SYSTEM PROTECTION & HIGH VOLTAGE**	This course introduces students to the concept of power system protection and high voltage engineering. It covers in detail the components of power system protections and relay coordination. The theory of high										

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BEE4143**	**POWER SYSTEM PROTECTION & HIGH VOLTAGE**	voltage engineering will also be covered in this course.										
					SEM 1 18/19	01	MON	10:00-10:50	E00DK3	L	30	Y	01557 - AIBM		BEE3133
								11:00-11:50	E00DK3	L	30	Y			
							WED	08:00-08:50	E00DK3	L	30	Y			
								09:00-09:50	E00DK3	L	30	Y			
						01A	MON	10:00-10:50	E10-F02A	B	30	Y	01557 - AIBM		
								11:00-11:50	E10-F02A	B	30	Y			
		3	**BEE4213**	**MULTIMEDIA TECHNOLOGY & APPLICATIONS**	This course introduces the basic principles, attributes and characteristics of typography, colour, images, animation, sound and video as elements of multimedia. It also introduces how multimedia can be used in digital technology and various application areas.Student also will be exposed with a variety of multimedia software and tools used to develop multimedia products.										
					SEM 1 18/19	01	FRI	08:00-08:50	E22BK6	L	30	Y	0580 - MZBI		
								09:00-09:50	E22BK6	L	30	Y			
							WED	10:00-10:50	E22BK6	L	30	Y			
								11:00-11:50	E22BK6	L	30	Y			
						01A	WED	10:00-10:50	E11-F11A	B	30	Y	0580 - MZBI		
								11:00-11:50	E11-F11A	B	30	Y			
						02	THU	08:00-08:50	E20BK2	L	30	Y	01348 - IHBM		
								09:00-09:50	E20BK2	L	30	Y			
							TUE	12:00-12:50	E21BK3	L	30	Y			
								13:00-13:50	E21BK3	L	30	Y			
						02A	TUE	12:00-12:50	E11-F11A	B	30	Y	01348 - IHBM		
								13:00-13:50	E11-F11A	B	30	Y			
		3	**BEE4323**	**EMBEDDED CONTROLLER TECHNOLOGY**	This course is an introduction to a microcontroller and is designed to give the students a fundamental understanding of the microcontroller-based system. It provides an introduction to the architecture and the design of hardware and software for the Motorola M68HC11. Various instruction sets and internal features are explained. Its applications as a single chip controller are discussed and its interfacing with various I/O devices is demonstrated.										
					SEM 1 18/19	01	FRI	08:00-08:50	E20BK1	L	30	Y	01108 - ASBA		BEE1213
								09:00-09:50	E20BK1	L	30	Y			
							WED	10:00-10:50	E00DK2	L	30	Y			
								11:00-11:50	E00DK2	L	30	Y			
						01A	WED	10:00-10:50	E11-F11A	B	30	Y	01108 - ASBA		
								11:00-11:50	E11-F11A	B	30	Y			
						02	THU	08:00-08:50	E00DK3	L	30	Y	01108 - ASBA		
								09:00-09:50	E00DK3	L	30	Y			
							TUE	12:00-12:50	E20BT1	L	30	Y			
								13:00-13:50	E20BT1	L	30	Y			
						02A	TUE	12:00-12:50	E11-F11A	B	30	Y	01108 - ASBA		
								13:00-13:50	E11-F11A	B	30	Y			
		3	**BEE4343**	**PROCESS CONTROL**											

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BEE4343**	**PROCESS CONTROL**	The course introduces students to establishing the process performance through methods of specifying and measuring process performance. With basic overview of the control loop and its components, this leads students for designing process control loops, process control improvement and techniques to assist in the process of identifying the potential for improved process control performance in team with important consideration of professional engineering practice.										
					SEM 1 18/19	01	MON	08:00-08:50	E00DK3	L	30	Y	0206 - MSBN		
								09:00-09:50	E00DK3	L	30	Y			
							TUE	08:00-08:50	E00DK3	L	30	Y			
								09:00-09:50	E00DK3	L	30	Y			
						01A	MON	08:00-08:50	E11-F13B	B	30	Y	0206 - MSBN		
								09:00-09:50	E11-F13B	B	30	Y			
		4	**BEE4113**	**ELECTRICAL INSTALLATION DESIGN**	This course provides knowledge in electrical installation design especially for commercial buildings. It explores the basic estimation and design procedure based on various codes of practice and standards. Student will be introduced to design a few basic systems in electrical installation such as lighting, protection system, grounding and lightning protection. Students also involve in problem solving and troubleshooting technique when they study on system inspection and testing.										
					SEM 1 18/19	01	MON	12:00-12:50	E20BK2	L	30	Y	0552 - RBA		
								13:00-13:50	E20BK2	L	30	Y			
							TUE	14:00-14:50	E20BK2	L	30	Y			
								15:00-15:50	E20BK2	L	30	Y			
						01A	MON	12:00-12:50	E10-F06A	B	30	Y	0552 - RBA		
								13:00-13:50	E10-F06A	B	30	Y			
		4	**BEE4153**	**POWER QUALITY**	This course is an introduction to power quality disturbances. It first introduces the concept of power quality and then quantifies the particular power quality disturbances that fall within the wider umbrella of electromagnetic phenomena. It provides a strong foundation for better understanding of the underlying principles of each power quality problem. Students are exposed to power quality solutions, standards, monitoring tools, grounding practices and distributed generation.										
					SEM 1 18/19	01	MON	16:00-16:50	E00DK3	L	30	Y	0143 - HBD		
								17:00-17:50	E00DK3	L	30	Y			
							TUE	16:00-16:50	E00DK3	L	30	Y			
								17:00-17:50	E00DK3	L	30	Y			
						01A	TUE	16:00-16:50	E30-F22A	B	30	Y	0143 - HBD		
								17:00-17:50	E30-F22A	B	30	Y			
		4	**BEE4163**	**ALTERNATIVE ENERGY**	This course introduces students to the alternative energy theories and concepts of some components and energy utilization in electric power system industries. It covers energy conversion, utilization and storage system for renewable technologies such as solar, wind, biomass, fuel cell, wave and etc. However, this course emphasis on the fundamental of PV system design and installation. It also touches upon the impacts of alternative energy to the environment										
					SEM 1 18/19	01	MON	12:00-12:50	E21BK3	L	30	Y	0522 - MSBJ		
								13:00-13:50	E21BK3	L	30	Y			
							TUE	14:00-14:50	E21BK3	L	30	Y			
								15:00-15:50	E21BK3	L	30	Y			
						01A	MON	12:00-12:50	E11-F11B	B	30	Y	0522 - MSBJ		
								13:00-13:50	E11-F11B	B	30	Y			
						02A	WED	14:00-14:50	E11-F11B	B	30	Y	01781 - ASBMS		
								15:00-15:50	E11-F11B	B	30	Y			
		4	**BEE4173**	**POWER SYSTEM OPERATION & CONTROL**											

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE	4	**BEE4173**	**POWER SYSTEM OPERATION & CONTROL**	This course presents the concept of power system operation and control. Students will be exposed to the concept of power system management to meet load demand at optimal operating cost and various ways in controlling electrical power.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	THU	10:00-10:50	E22BK6	L	30	Y	01493 - MHBS		BEE3133
			11:00-11:50	E22BK6	L	30	Y			
		TUE	10:00-10:50	E22BK6	L	30	Y			
			11:00-11:50	E22BK6	L	30	Y			
	01A	THU	10:00-10:50	E10-F02A	B	30	Y	01493 - MHBS		
			11:00-11:50	E10-F02A	B	30	Y			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		4	**BEE4223**	**POWER ELECTRONICS & DRIVE SYSTEMS**	The primary objective of this course is to give students a foundation of knowledge, understanding, analysis and design of power electronics circuits for conversion and control of electrical energy. The course presents concepts, fundamentals analysis tools, practical consideration for design, and a range of power electronics applications. Practical experiments in the laboratory will also be conducted. Students will be exposed to the power converter, PWM switching techniques, DC and induction motor drives.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	THU	16:00-16:50	E00DK3	L	30	Y	0087 - MSBB		BEE2213
			17:00-17:50	E00DK3	L	30	Y			
		WED	14:00-14:50	E00DK3	L	30	Y			
			15:00-15:50	E00DK3	L	30	Y			
	01A	WED	14:00-14:50	E10-F02A	B	30	Y	0087 - MSBB		
			15:00-15:50	E10-F02A	B	30	Y			
	02	THU	08:00-08:50	E22BK6	L	30	Y	0347 - AZBA		
			09:00-09:50	E22BK6	L	30	Y			
		TUE	12:00-12:50	E22BK6	L	30	Y			
			13:00-13:50	E22BK6	L	30	Y			
	02A	THU	08:00-08:50	E10-F02A	B	30	Y	0347 - AZBA		
			09:00-09:50	E10-F02A	B	30	Y			
	03	FRI	08:00-08:50	E20BT2	L	30	Y	0653 - NBJ		
			09:00-09:50	E20BT2	L	30	Y			
		MON	14:00-14:50	E20BK1	L	30	Y			
			15:00-15:50	E20BK1	L	30	Y			
	03A	MON	14:00-14:50	E10-F02A	B	30	Y	0653 - NBJ		
			15:00-15:50	E10-F02A	B	30	Y			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		4	**BEE4233**	**DATA COMMUNICATIONS**	This course emphasizes the importance and the applications of the Data Communications in the Electrical & Electronics Engineering courses. The syllabus covers data communications, communication networks and TCP/IP protocol suite.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	THU	14:00-14:50	E20BK2	L	30	Y	2346 - SK		
			15:00-15:50	E20BK2	L	30	Y			
		WED	12:00-12:50	E20BK2	L	30	Y			
			13:00-13:50	E20BK2	L	30	Y			
	01A	WED	12:00-12:50	E11-F08A	B	30	Y	2346 - SK		
			13:00-13:50	E11-F08A	B	30	Y			

Campus	Level	Year	Code	Course Name
		4	**BEE4253**	**COMPUTER VISION SYSTEMS**

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**BEE4253**	**COMPUTER VISION SYSTEMS**	This course introduces students to the principles of Computer Vision which includes image formation and low level image processing, theory and techniques for extracting features from images, measuring shape and location, and recognizing and classifying objects. Student will be exposed to design project using image processing software.										
					SEM 1 18/19	01	MON	16:00-16:50	E22BK6	L	30	Y	0088 - KHBG		
								17:00-17:50	E22BK6	L	30	Y			
							TUE	16:00-16:50	E22BK6	L	30	Y			
								17:00-17:50	E22BK6	L	30	Y			
						01A	TUE	16:00-16:50	E11-F11A	B	30	Y	0088 - KHBG		
								17:00-17:50	E11-F11A	B	30	Y			
		4	**BEE4273**	**HIGH VOLTAGE DIRECT CURRENT & FACTS**	This course deals with the operation of HVDC transmission, power conversion in HVDC transmission, analysis of HVDC converters. The FACTS devices are introduced in this course. The concept used and operation analysis are taught.										
					SEM 1 18/19	01	THU	16:00-16:50	E22BK6	L	30	Y	0347 - AZBA		
								17:00-17:50	E22BK6	L	30	Y			
							WED	14:00-14:50	E22BK6	L	30	Y			
								15:00-15:50	E22BK6	L	30	Y			
						01A	THU	16:00-16:50	E30F21	B	30	Y	0347 - AZBA		
								17:00-17:50	E30F21	B	30	Y			
		4	**BEE4333**	**INTELLIGENT CONTROL**	This course introduces students to the principles of Artificial Intelligence which includes Expert System, Fuzzy Logic, Artificial Neural Networks and Genetic Algorithm. Project based exercise will be also included in order to have a better understanding on the course.										
					SEM 1 18/19	01	THU	14:00-14:50	E21BK3	L	30	Y	0310 - NBAG		
								15:00-15:50	E21BK3	L	30	Y			
							WED	12:00-12:50	E21BK3	L	30	Y			
								13:00-13:50	E21BK3	L	30	Y			
						01A	WED	12:00-12:50	E00-F01	B	30	Y	0310 - NBAG		
								13:00-13:50	E00-F01	B	30	Y			
						02	MON	08:00-08:50	E20BT1	L	30	Y	1987 - DP		
								09:00-09:50	E20BT1	L	30	Y			
							TUE	08:00-08:50	E21BT3	L	30	Y			
								09:00-09:50	E21BT3	L	30	Y			
						02A	TUE	08:00-08:50	E00-F01	B	30	Y	1987 - DP		
								09:00-09:50	E00-F01	B	30	Y			
		4	**BEE4413**	**DIGITAL SIGNAL PROCESSING**											

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**BEE4413**	**DIGITAL SIGNAL PROCESSING**	This course introduces students to the fundamentals of Digital Signal Processing (DSP) including sampling theorems, z-transform, Linear Time-invariant (LTI) systems analysis, Discrete-Time Systems (DTS) structures, filter structure, filter design and Discrete Fourier Transform (DFT). This course also exposes students to computational tools in solving engineering problems related to DSP and its applications.										
					SEM 1 18/19	01	FRI	15:00-15:50	E22BK6	L	30	Y	0345 - NBS		
								16:00-16:50	E22BK6	L	30	Y			
							WED	16:00-16:50	E22BK6	L	30	Y			
								17:00-17:50	E22BK6	L	30	Y			
						01A	FRI	15:00-15:50	E12-F17A	B	30	Y	0345 - NBS		
								16:00-16:50	E12-F17A	B	30	Y			
						02	THU	08:00-08:50	E20BK1	L	30	Y	01498 - ZBI		
								09:00-09:50	E20BK1	L	30	Y			
							TUE	12:00-12:50	E20BK2	L	30	Y			
								13:00-13:50	E20BK2	L	30	Y			
						02A	TUE	12:00-12:50	E12-F17A	B	30	Y	01498 - ZBI		
								13:00-13:50	E12-F17A	B	30	Y			
						03	MON	14:00-14:50	E20BT1	L	30	Y	01752 - AABMF		
								15:00-15:50	E20BT1	L	30	Y			
							WED	10:00-10:50	E20BT2	L	30	Y			
								11:00-11:50	E20BT2	L	30	Y			
						03A	MON	14:00-14:50	E12-F17A	B	30	Y	01752 - AABMF		
								15:00-15:50	E12-F17A	B	30	Y			
		4	**BEE4423**	**RF CIRCUIT DESIGN**	This course emphasizes on the theory and principles of designing RF circuit in communication electronics system. The design of the RF circuit involves transmission line theory & waveguide, network analysis, impedance matching, active & passive RF circuits such as RF Filters, amplifiers, RF mixers and RF oscillators.										
					SEM 1 18/19	01	MON	10:00-10:50	E00DK2	L	30	Y	01782 - MSBAK		
								11:00-11:50	E00DK2	L	30	Y			
							WED	08:00-08:50	E00DK1	L	30	Y			
								09:00-09:50	E00DK1	L	30	Y			
						01A	WED	08:00-08:50	E11-F13A	B	30	Y	01782 - MSBAK		
								09:00-09:50	E11-F13A	B	30	Y			
		4	**BEE4433**	**ANTENNA & PROPAGATION**	In this course the student will be exposed to the parameters of antenna such as radiation pattern, impedance matching techniques, Practical antenna design, Antenna measurement technique and Introduction to Radio wave Propagation.										
					SEM 1 18/19	01	MON	12:00-12:50	E22BK5	L	30	Y	01052 - NBMR		
								13:00-13:50	E22BK5	L	30	Y			
							TUE	14:00-14:50	E20BT1	L	30	Y			
								15:00-15:50	E20BT1	L	30	Y			
						01A	TUE	14:00-14:50	E11-F13A	B	30	Y	01052 - NBMR		
								15:00-15:50	E11-F13A	B	30	Y			
		4	**BEE4523**	**INDUSTRIAL INSTRUMENTATION**											

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

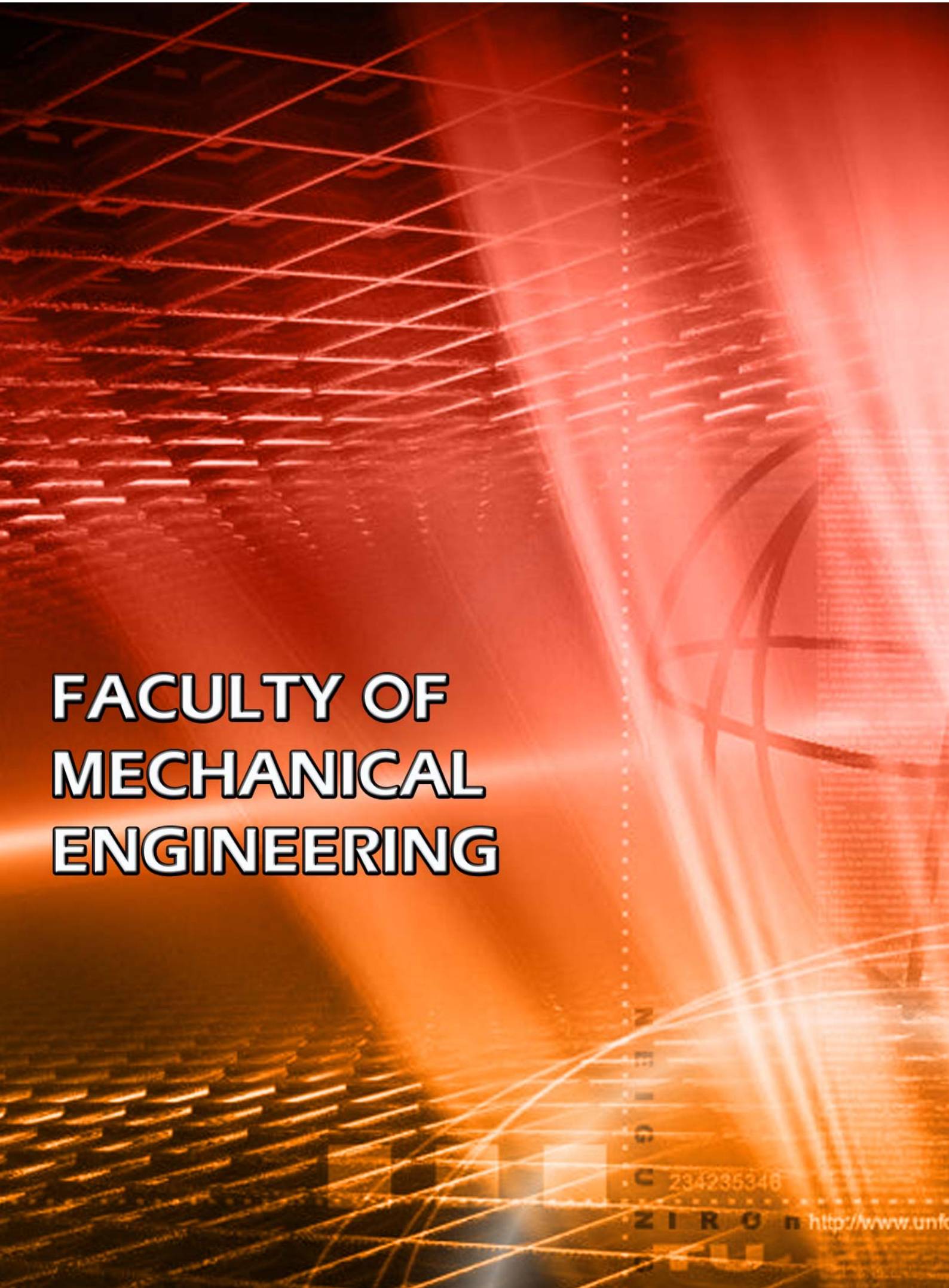
Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark: Pre-Requisite
PEKAN	DEGREE	4	**BEE4523**	**INDUSTRIAL INSTRUMENTATION**	This subject introduces students to the principles of instrumentation and measurements, determination of industrial instrumentation, including its purpose and structure from a practical viewpoint. The course is a `nuts and bolts? course for the needs of life-long learning in the common industrial instrumentation elements which concentrates on measuring data for process control system.											
						SEM 1 18/19	01	THU	10:00-10:50	E20BT1	L	30	Y	0277 - MRBD		
									11:00-11:50	E20BT1	L	30	Y			
								TUE	10:00-10:50	E20BT2	L	30	Y			
									11:00-11:50	E20BT2	L	30	Y			
							01A	TUE	10:00-10:50	E10-F07B	B	30	Y	0277 - MRBD		
									11:00-11:50	E10-F07B	B	30	Y			
		4	**BEE4553**	**VLSI DESIGN & PROCESS**	This course introduces the fundamental of VLSI design which involves CMOS technology and fabrication process as well. The analysis on the characteristics of a CMOS transistor will also be discussed. The basic designing of a VLSI circuit such as sketching the stick diagram, schematics and layout design will be learned. The basic IC fabrication process such as Thermal Oxidation, Photolithography, Etching, Dopant Diffusion and Metal Evaporation will be included as well. Towards the end of this course, students are exposed to the applications of these process of designing a VLSI circuit and the process it needs to be taken to fabricate it. During the laboratory sessions, students are expected to apply these design and fabrication process on the software that has been provided.											
						SEM 1 18/19	01	MON	10:00-10:50	E20BT2	L	30	Y	0351 - FBS		
									11:00-11:50	E20BT2	L	30	Y			
								WED	08:00-08:50	E21BK4	L	30	Y			
									09:00-09:50	E21BK4	L	30	Y			
							01A	MON	10:00-10:50	E11-F12A	B	30	Y	0351 - FBS		
									11:00-11:50	E11-F12A	B	30	Y			
		4	**BEE4712**	**ENGINEERING PROJECT I**	This course introduces and exposes students to acquire and apply knowledge of sciences and electrical & electronics engineering fundamentals through individual project assessment. The students will learn how to identify, formulate and provide effective solution to engineering problem.											
						SEM 1 18/19	01	MON	18:00-18:50	E20BT2	L	400	N	01781 - ASBMS 0561 - RMTBRI		BEE1143 BEE1213 BEE1223 BEE1313 BEE2223 BEE2233
									19:00-19:50	E20BT2	L	400	N			
		4	**BEE4724**	**ENGINEERING PROJECT II**	This course introduces students to acquire and apply knowledge of sciences and electrical & electronics engineering fundamentals through individual project assessment. The students will learn to design and evaluate the performance of a system using integrated and interdisciplinary approaches.											
						SEM 1 18/19	01	TUE	18:00-18:50	E20BT2	L	200	N	01781 - ASBMS 0561 - RMTBRI		BEE4712
									19:00-19:50	E20BT2	L	200	N			
								WED	18:00-18:50	E20BT2	L	200	N			
									19:00-19:50	E20BT2	L	200	N			
			BEE1111	**PROJECT MANAGEMENT**	This course introduces students to the principles of managing a project systematically. Several approaches and techniques of proper project management are covered in wide range of functions.											
						SEM 1 18/19	01	MON	14:00-14:50	E21BK4	L	30	N	01777 - NABO		
							02	FRI	10:00-10:50	E00DK2	L	30	N	01777 - NABO		
NO TIMETABLE	DEGREE	3	**BEE3805**	**INDUSTRIAL TRAINING (HW)**												

COURSE TIMETABLE

Faculty : **FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
NO TIMETABLE	DEGREE	3	**BEE3805**	**INDUSTRIAL TRAINING (HW)**	In industrial training the students should gain insight into industrial practice, in order to visualize the tasks and possibilities of their later occupation work. All students are required to undergo an industrial training for a certain period that has been agreed by the faculty during last semester of the academic year. The performance of each student during the periods of his/her industrial training is evaluated by the faculty staff, and the representatives from employer organization.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01					200	N	TBA		


FACULTY OF
MECHANICAL
ENGINEERING

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BMM1011**	**INTRODUCTION TO ENGINEERING**	Introduction to Engineering introduces students to the range of engineering disciplines, emerging technologies and the engineering method of problem-solving, as well as sustainability and other issues associated with the practice of engineering. This introduction is made through a mix of lectures, group-based activities, site visits, and presentations from practising engineers. Since a key attribute of successful professional engineers is the ability to communicate effectively, the course focuses on improving core engineering communication skills.										
					SEM 1 18/19	01	MON	12:00-12:50	M00DK1	L	200	N	VP0012 - HBI		
		1	**BMM1312**	**COMPUTER PROGRAMMING**	This course introduces input and output, variables, constants, arithmetic operations and mathematical functions, user-defined functions, selection making decision and repetitive construct, and array data structure. The programming language used for the course is C language.										
					SEM 1 18/19	02	MON	16:00-16:50	M20BK7	L	40	N	01780 - ABMH		
						02A	TUE	16:00-16:50	M00H1	B	30	N	01780 - ABMH		
								17:00-17:50	M00H1	B	30	N			
						02B	THU	16:00-16:50	M00H1	B	10	N	01780 - ABMH		
								17:00-17:50	M00H1	B	10	N			
		1	**BMM1313**	**COMPUTER PROGRAMMING**	This course introduces to Computers and Computing Fundamentals, Program Structure, Printing, Comments, Variables, Arithmetic Operations, Math Functions, Input/ Output, Control Structure, Looping, Functions, Numeric Arrays, User Friendly Interface and their application on solving engineering problems. C programming language is utilized in this course.										
					SEM 1 18/19	01	WED	08:00-08:50	M22BK6	L	50	N	01834 - MIBI		
								09:00-09:50	M22BK6	L	50	N			
						01A	THU	08:00-08:50	M00H1	B	25	N	01834 - MIBI		
								09:00-09:50	M00H1	B	25	N			
						01B	FRI	08:00-08:50	M00H1	B	25	N	01834 - MIBI		
								09:00-09:50	M00H1	B	25	N			
						02	WED	10:00-10:50	M22BK6	L	50	N	01856 - MJBMM		
								11:00-11:50	M22BK6	L	50	N			
						02A	TUE	10:00-10:50	M00H1	B	25	N	01856 - MJBMM		
								11:00-11:50	M00H1	B	25	N			
						02B	THU	10:00-10:50	M00H1	B	25	N	01856 - MJBMM		
								11:00-11:50	M00H1	B	25	N			
						03	FRI	15:00-15:50	M22BK5	L	50	N	01146 - MABMR		
								16:00-16:50	M22BK5	L	50	N			
						03A	TUE	14:00-14:50	M00H1	B	25	N	01146 - MABMR		
								15:00-15:50	M00H1	B	25	N			
						03B	THU	14:00-14:50	M00H1	B	25	N	01146 - MABMR		
								15:00-15:50	M00H1	B	25	N			
		1	**BMM1511**	**ENGINEERING MECHANICS LAB 1**											

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BMM1511**	**ENGINEERING MECHANICS LAB 1**	This lab introduces the engineering materials and statics principles through practical experiments. The covered topics for engineering materials experiments comprise steel microstructure microscopy, Vickers hardness test, rapid quenching and tempering of plain carbon steel, creep test and impact test. The statics experiments covered are forces resolutions in basic roof truss and crane jib, moments application in bell crank lever, precision friction measurement and friction forces on an inclined plane.										
					SEM 1 18/19	01	MON	08:00-08:50	M11F6	B	30	N	01716 - AZBM		BMM1532 BMM1523
								08:00-08:50	M20F9A	B	30	N	0624 - MABH		BMM1563
								09:00-09:50	M11F6	B	30	N			
								09:00-09:50	M20F9A	B	30	N			
						02	TUE	10:00-10:50	M11F6	B	30	N	01709 - NABR		
								10:00-10:50	M20F9A	B	30	N	0679 - NABA		
								11:00-11:50	M11F6	B	30	N			
								11:00-11:50	M20F9A	B	30	N			
						03	WED	10:00-10:50	M11F6	B	30	N	01716 - AZBM		
								10:00-10:50	M20F9A	B	30	N	01837 - NZBK		
								11:00-11:50	M11F6	B	30	N			
								11:00-11:50	M20F9A	B	30	N			
						04	MON	16:00-16:50	M11F6	B	30	N	01716 - AZBM		
								16:00-16:50	M20F9A	B	30	N	0679 - NABA		
								17:00-17:50	M11F6	B	30	N			
								17:00-17:50	M20F9A	B	30	N			
						05	THU	14:00-14:50	M11F6	B	30	N	01709 - NABR		
								14:00-14:50	M20F9A	B	30	N	0529 - WSBWH		
								15:00-15:50	M11F6	B	30	N			
								15:00-15:50	M20F9A	B	30	N			
						06	FRI	15:00-15:50	M11F6	B	30	N	01716 - AZBM		
								15:00-15:50	M20F9A	B	30	N	1966 - DB		
								16:00-16:50	M11F6	B	30	N			
								16:00-16:50	M20F9A	B	30	N			
		1	**BMM1523**	**ENGINEERING MATERIALS**	This course is an introduction to materials science and engineering. Students are expected to have understanding on crystal structure, mechanical and physical properties of materials, phase diagrams, phase transformation and strengthening mechanism of metal alloys, also application and processing of metals, ceramics, polymers and composites.										
					SEM 1 18/19	01	MON	08:00-08:50	M20BK2	L	60	Y	2078 - TK	05/01/2019 - AM	
								09:00-09:50	M20BK2	L	60	Y			
							WED	08:00-08:50	M20BK2	L	60	Y			
						02	FRI	15:00-15:50	M20BK2	L	60	Y	01837 - NZBK		
							THU	14:00-14:50	M20BK2	L	60	Y			
								15:00-15:50	M20BK2	L	60	Y			
						03	TUE	10:00-10:50	M20BK1	L	60	Y	0814 - SHBT		
								11:00-11:50	M20BK1	L	60	Y			
							WED	10:00-10:50	M20BK1	L	60	Y			
						04	MON	14:00-14:50	M22BK5	L	60	Y	0633 - RBJ		
								15:00-15:50	M22BK5	L	60	Y			
							TUE	14:00-14:50	M21BK4	L	60	Y			
						05	FRI	08:00-08:50	M21BK3	L	60	Y	0679 - NABA		
								09:00-09:50	M21BK3	L	60	Y			
							WED	08:00-08:50	M21BK3	L	60	Y			
		1	**BMM1533**	**STRENGTH OF MATERIALS 1**											

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BMM1533**	**STRENGTH OF MATERIALS 1**	This course introduces the concept of stress, stress and strain under axial loading, torsion, pure bending, analysis and design of beams for bending, shearing stresses in beam and thin-walled members.										FOR BMM PROGRAM ONLY.
					SEM 1 18/19	01	TUE	10:00-10:50	DPM	L	60	Y	1966 - DB	04/01/2019 - PM	BMM1532 BMM1563
								11:00-11:50	DPM	L	60	Y			
							WED	10:00-10:50	M21BK8	L	60	Y			
						02	FRI	09:00-09:50	M20BK1	L	15	Y	2078 - TK		
							THU	08:00-08:50	M20BK1	L	15	Y			
								09:00-09:50	M20BK1	L	15	Y			
						03	MON	14:00-14:50	M20BK1	L	30	Y	01496 - SRABI		
								15:00-15:50	M20BK1	L	30	Y			
							TUE	15:00-15:50	M20BK1	L	30	Y			
		1	**BMM1543**	**STRENGTH OF MATERIALS**	This course introduces the concept of stress, stress and strain under axial loading, torsion, pure bending, analysis and design of beams for bending, shearing stresses in beam and thin-walled members										FOR BMA PROGRAM ONLY.
					SEM 1 18/19	02	FRI	09:00-09:50	M20BK1	L	30	Y	2078 - TK	04/01/2019 - PM	BMM1532 BMM1563
							THU	08:00-08:50	M20BK1	L	30	Y			
								09:00-09:50	M20BK1	L	30	Y			
						03	MON	14:00-14:50	M20BK1	L	30	Y	01496 - SRABI		
								15:00-15:50	M20BK1	L	30	Y			
							TUE	15:00-15:50	M20BK1	L	30	Y			
		1	**BMM1553**	**DYNAMICS**	This course introduces kinematics (motion of rigid body) inclusive of absolute and relative motion (displacement, velocity and acceleration) and dynamics (forces, work, energy, inertia and momentum).										
					SEM 1 18/19	01	TUE	08:00-08:50	M20BK2	L	50	Y	01565 - UKBJ	04/01/2019 - AM	BMM1532 BMM1563
								09:00-09:50	M20BK2	L	50	Y			
							WED	09:00-09:50	M20BK2	L	50	Y			
						02	FRI	10:00-10:50	M20BK2	L	50	Y	2064 - NABNM		
							THU	10:00-10:50	M20BK2	L	50	Y			
								11:00-11:50	M20BK2	L	50	Y			
						03	MON	14:00-14:50	M21BK8	L	50	Y	2064 - NABNM		
								15:00-15:50	M21BK8	L	50	Y			
							THU	15:00-15:50	M21BK8	L	50	Y			
						04	FRI	16:00-16:50	M20BK7	L	40	Y	0612 - JBA		
							TUE	16:00-16:50	M20BK7	L	40	Y			
								17:00-17:50	M20BK7	L	40	Y			
		1	**BMM1563**	**STATICS**											

Universiti Malaysia PAHANG
Engineering • Technology • Creativity

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BMM1563**	**STATICS**	An introduction to solving engineering static problem, involving: force vector, equilibrium of particle and rigid body, friction effect on rigid body equilibrium, structural analysis, frame and machines, centroids, center of gravity and moment of inertia.										
					SEM 1 18/19	01	MON	08:00-08:50	M20BK1	L	60	Y	0680 - NBAR	04/01/2019 - AM	
								09:00-09:50	M20BK1	L	60	Y			
							WED	08:00-08:50	DPM	L	60	Y			
								09:00-09:50	DPM	T	60	Y			
						02	FRI	15:00-15:50	M20BK1	L	60	Y	01678 - MHBY		
								16:00-16:50	M20BK1	T	60	Y			
							THU	14:00-14:50	M20BK1	L	60	Y			
								15:00-15:50	M20BK1	L	60	Y			
						03	THU	16:00-16:50	M20BK7	L	60	Y	01827 - ASBMY		
								17:00-17:50	M20BK7	T	60	Y			
							TUE	16:00-16:50	M20BK1	L	60	Y			
								17:00-17:50	M20BK1	L	60	Y			
						04	MON	10:00-10:50	M20BK7	L	60	Y	0306 - SNABSA		
								11:00-11:50	M20BK7	L	60	Y			
							WED	11:00-11:50	M21BK8	L	60	Y			
								12:00-12:50	M21BK8	T	60	Y			
		1	**BMM1811**	**MECHANICAL LABORATORY 1**	This course introduces students with safe working habits, identify common materials used in metal fabrication, reading blueprints, identification, care & use basic measuring instruments, layout methods and basic hand tools. Emphasis is placed on operation of metrology, benchwork and lathe project.										
					SEM 1 18/19	01	TUE	08:00-08:50	M30F3	B	30	N	01318 - MHBM 0378 - MABA		
								08:00-08:50	M40F8B	B	30	N			
								09:00-09:50	M30F3	B	30	N			
								09:00-09:50	M40F8B	B	30	N			
								10:00-10:50	M30F3	B	30	N			
								10:00-10:50	M40F8B	B	30	N			
						02	WED	10:00-10:50	M30F3	B	30	N	0732 - MBMY 0812 - IBMS		
								10:00-10:50	M40F8B	B	30	N			
								11:00-11:50	M30F3	B	30	N			
								11:00-11:50	M40F8B	B	30	N			
								12:00-12:50	M30F3	B	30	N			
								12:00-12:50	M40F8B	B	30	N			
						03	MON	15:00-15:50	M30F3	B	30	N	01495 - MFBB 0378 - MABA		
								15:00-15:50	M40F8B	B	30	N			
								16:00-16:50	M30F3	B	30	N			
								16:00-16:50	M40F8B	B	30	N			
								17:00-17:50	M30F3	B	30	N			
								17:00-17:50	M40F8B	B	30	N			
						04	FRI	08:00-08:50	M30F3	B	30	N	01318 - MHBM 0177 - ABAA		
								08:00-08:50	M40F8B	B	30	N			
								09:00-09:50	M30F3	B	30	N			
								09:00-09:50	M40F8B	B	30	N			
								10:00-10:50	M30F3	B	30	N			
								10:00-10:50	M40F8B	B	30	N			
						05	TUE	15:00-15:50	M30F3	B	30	N	0378 - MABA 0989 - NHBJ		
								15:00-15:50	M40F8B	B	30	N			
								16:00-16:50	M30F3	B	30	N			
								16:00-16:50	M40F8B	B	30	N			
								17:00-17:50	M30F3	B	30	N			
								17:00-17:50	M40F8B	B	30	N			

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BMM1821**	**MECHANICAL LABORATORY 2**	This course introduces student basic application of the dial indicator, gauge block, gauges, measuring instruments, milling machines and processes, and surface grinding machines and processes.										
					SEM 1 18/19	01	TUE	08:00-08:50	M30F4	B	30	N	01038 - CKENBCKH 0177 - ABAA		
								09:00-09:50	M30F4	B	30	N			
								10:00-10:50	M30F4	B	30	N			
						02	WED	10:00-10:50	M30F4	B	30	N	01496 - SRABI 0912 - NSBNA		
								11:00-11:50	M30F4	B	30	N			
								12:00-12:50	M30F4	B	30	N			
						03	MON	15:00-15:50	M30F4	B	30	N	0556 - HBCH 0814 - SHBT		
								16:00-16:50	M30F4	B	30	N			
								17:00-17:50	M30F4	B	30	N			
						05	FRI	08:00-08:50	M30F4	B	30	N	0213 - JBM 0912 - NSBNA		
								09:00-09:50	M30F4	B	30	N			
								10:00-10:50	M30F4	B	30	N			
		2	**BMA2312**	**INTRODUCTION TO AUTOMOTIVE ENGINEERING**	This course introduces workshop safety, the workings of automotive engines and the supporting systems, the workings of the automotive electrical, electronic and HVAC systems, the operation of the drive train, and the whole automotive chassis.										
					SEM 1 18/19	01	WED	10:00-10:50	M21BK3	L	60	Y	2093 - FYH	07/01/2019 - AM	
								11:00-11:50	M21BK3	L	60	Y			
						01	THU	10:00-10:50	M30F5	B	60	Y	TBA		
								11:00-11:50	M30F5	B	60	Y			
						01A	MON	10:00-10:50	M30F5	B	30	Y	0889 - MIBMS 2093 - FYH		
								11:00-11:50	M30F5	B	30	Y			
						01B	THU	10:00-10:50	M30F5	B	30	Y	0889 - MIBMS 2093 - FYH		
								11:00-11:50	M30F5	B	30	Y			
		2	**BMA2523**	**INTERNAL COMBUSTION ENGINE**	This course provides the foundation understanding on the fundamental of internal combustion engine which including design, operating parameters, thermo-chemistry reaction for various combustion cycles, emission formation, effect to environment and its control method. By accomplish significance project such as component assembly, flow, performance, emission test and etc. student own a platform to build up professional techniques to design, conduct and validating experiments.										
					SEM 1 18/19	01	FRI	10:00-10:50	M21BK3	L	60	Y	0611 - DAR	09/01/2019 - AM	BMM2673
								11:00-11:50	M21BK3	L	60	Y			
						01A	MON	10:00-10:50	M30F24	B	30	Y	0611 - DAR 0622 - MIBMR		
								11:00-11:50	M30F24	B	30	Y			
						01B	TUE	10:00-10:50	M30F24	B	30	Y	0611 - DAR 0889 - MIBMS		
								11:00-11:50	M30F24	B	30	Y			
		2	**BMM2433**	**ELECTRICAL & ELECTRONIC TECHNOLOGY**											

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	**BMM2433**	**ELECTRICAL & ELECTRONIC TECHNOLOGY**	This course introduces fundamental of electric circuit, circuit network analysis, inductance, capacitance, magnetic field and DC motor. The electronics technology covers diodes, bipolar junction transistor (BJT), operational amplifiers and digital logic circuits.										
					SEM 1 18/19	01	MON	10:00-10:50	M20BK1	L	60	Y	0137 - ARBR	05/01/2019 - AM	
								11:00-11:50	M20BK1	L	60	Y			
						01A	TUE	10:00-10:50	M12F12	B	30	Y	01167 - ZBA		
								11:00-11:50	M12F12	B	30	Y	0137 - ARBR		
						01B	WED	10:00-10:50	M12F12	B	30	Y	01167 - ZBA		
								11:00-11:50	M12F12	B	30	Y	0137 - ARBR		
						02	THU	14:00-14:50	M20BK7	L	60	Y	0137 - ARBR		
								15:00-15:50	M20BK7	L	60	Y			
						02A	MON	14:00-14:50	M12F12	B	30	Y	0137 - ARBR		
								15:00-15:50	M12F12	B	30	Y	01709 - NABR		
						02B	TUE	14:00-14:50	M12F12	B	30	Y	0137 - ARBR		
								15:00-15:50	M12F12	B	30	Y	01709 - NABR		
						03	WED	08:00-08:50	M20BK7	L	60	Y	01855 - MHBJ		
								09:00-09:50	M20BK7	L	60	Y			
						03A	MON	08:00-08:50	M12F12	B	30	Y	01709 - NABR		
								09:00-09:50	M12F12	B	30	Y	01855 - MHBJ		
						03B	THU	08:00-08:50	M12F12	B	30	Y	01709 - NABR		
								09:00-09:50	M12F12	B	30	Y	01855 - MHBJ		
		2	**BMM2533**	**FLUIDS MECHANICS 1**	The objective of the course is to introduces knowledge and understanding about principle, properties and basic methods of fluid mechanics, and provide some understanding and analysis of some problems related to fluid mechanics. The subject covers topics such as concept of pressure and flow with its application, stability of floating bodies, and fluid in motion analysis, fluid momentum analysis, flow measurement devices, fluid friction in piping system and dimensional analysis. The students are also expected to do mini project dealing with problem regarding the course outcomes.										
					SEM 1 18/19	01	TUE	10:00-10:50	M20BK7	L	45	Y	01831 - EABA	06/01/2019 - AM	
								11:00-11:50	M20BK7	L	45	Y			
							WED	11:00-11:50	M20BK7	L	45	Y			
						02	MON	14:00-14:50	M21BK4	L	60	Y	0362 - MFBAR		
								15:00-15:50	M21BK4	L	60	Y			
							TUE	15:00-15:50	M21BK4	L	60	Y			
						03	FRI	08:00-08:50	M20BK7	L	60	Y	0812 - IBMS		
							THU	08:00-08:50	M20BK7	L	60	Y			
								09:00-09:50	M20BK7	L	60	Y			
		2	**BMM2613**	**COMPUTER AIDED DESIGN**	This course introduces graphical communication, basic technical drawing, fundamentals of drawing, 2D & 3D drawing command, parts assembling and animation.										
					SEM 1 18/19	01	FRI	08:00-08:50	M11F1A	B	30	N	0989 - NHBJ		
								09:00-09:50	M11F1A	B	30	N			
							WED	08:00-08:50	M11F1A	L	30	N			
								09:00-09:50	M11F1A	L	30	N			
						06	FRI	15:00-15:50	M11F1A	B	30	N	0491 - SBMS		
								16:00-16:50	M11F1A	B	30	N			
							MON	14:00-14:50	M11F1A	L	30	N			
								15:00-15:50	M11F1A	L	30	N			

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	**BMM2673**	**THERMODYNAMICS**	This course focuses on the application of thermodynamics fundamentals in various engineering system including properties of pure substance, perpetual motion machine, first law, second law and entropy.										
					SEM 1 18/19	01	MON	14:00-14:50	M20BK2	L	45	Y	0519 - ABAK	05/01/2019 - PM	
								15:00-15:50	M20BK2	L	45	Y			
							TUE	15:00-15:50	M20BK2	L	45	Y			
						02	FRI	09:00-09:50	M20BK2	L	60	Y	01774 - MABH		
							THU	08:00-08:50	M20BK2	L	60	Y			
								09:00-09:50	M20BK2	L	60	Y			
						03	TUE	10:00-10:50	M20BK2	L	60	Y	2390 - SK		
								11:00-11:50	M20BK2	L	60	Y			
							WED	10:00-10:50	M20BK2	L	60	Y			
		2	**BMM2683**	**APPLIED THERMODYNAMICS**	This course focuses on fundamental, application and evaluation of various engineering thermodynamics systems. The course covers gas and vapour power cycles, refrigeration and heat pump, air conditioning system, and the concepts of chemical reactions in combustion process.										FOR BMM PROGRAM ONLY
					SEM 1 18/19	01	MON	10:00-10:50	M22BK5	L	60	Y	0138 - MYBT	05/01/2019 - PM	BMM2673 BMM2513
								11:00-11:50	M22BK5	L	60	Y			
							WED	10:00-10:50	M22BK5	L	60	Y			
						02	FRI	09:00-09:50	M22BK5	L	60	Y	0817 - KAK		
							THU	08:00-08:50	M22BK5	L	60	Y			
								09:00-09:50	M22BK5	L	60	Y			
						03	THU	15:00-15:50	M22BK5	L	60	Y	2093 - FYH		
							TUE	14:00-14:50	M22BK5	L	60	Y			
								15:00-15:50	M22BK5	L	60	Y			
		3	**BMA3623**	**ENGINE DESIGN**	This course extends the knowledge on mechanics of materials towards engine components design. The design of essential machine elements is demonstrated. The internal combustion engines kinematics and dynamics are analysed. The design of internal combustion engine components is examined. Finally, computer-aided engineering tools are utilised in analysing internal combustion engine components.										FOR BMA PROGRAM ONLY.
					SEM 1 18/19	01	FRI	10:00-10:50	M21BK8	L	60	Y	0362 - MFBAR	04/01/2019 - PM	BMM1543
								11:00-11:50	M21BK8	L	60	Y			
							THU	12:00-12:50	M21BK8	L	60	Y			
		3	**BMM2521**	**ENGINEERING MECHANICS LAB 2**											

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BMM2521**	**ENGINEERING MECHANICS LAB 2**	This lab course introduces students to basic properties of material and kinetics and kinematics of particles and rigid bodies through a series of experiment. Students will conduct experiment of tensile, compression, torsion, fatigue, bending moment, shearing stress, transformation of stress and strain in material lab. Experiment on dynamic aspect includes inertia in rotational motion and rolling disc on an incline plane. Students will learn experimental technique, data collection, analysis of results and presentations of results.										
					SEM 1 18/19	02	WED	08:00-08:50	M11F6	B	30	N	0620 - NABAR 0897 - JBJ		BMM1533 BMM1553 BMM1543 BMM1553
								08:00-08:50	M20F9A	B	30	N			
								08:00-08:50	M20F9B	B	30	N			
								09:00-09:50	M11F6	B	30	N			
								09:00-09:50	M20F9A	B	30	N			
								09:00-09:50	M20F9B	B	30	N			
						03	THU	10:00-10:50	M11F6	B	30	N	01716 - AZBM 2078 - TK		
								10:00-10:50	M20F9A	B	30	N			
								10:00-10:50	M20F9B	B	30	N			
								11:00-11:50	M11F6	B	30	N			
								11:00-11:50	M20F9A	B	30	N			
								11:00-11:50	M20F9B	B	30	N			
						04	FRI	10:00-10:50	M11F6	B	30	N	01716 - AZBM 0620 - NABAR		
								10:00-10:50	M20F9A	B	30	N			
								10:00-10:50	M20F9B	B	30	N			
								11:00-11:50	M11F6	B	30	N			
								11:00-11:50	M20F9A	B	30	N			
								11:00-11:50	M20F9B	B	30	N			
						05	MON	14:00-14:50	M11F6	B	30	N	0897 - JBJ 2078 - TK		
								14:00-14:50	M20F9A	B	30	N			
								14:00-14:50	M20F9B	B	30	N			
								15:00-15:50	M11F6	B	30	N			
								15:00-15:50	M20F9A	B	30	N			
								15:00-15:50	M20F9B	B	30	N			
						06	THU	16:00-16:50	M11F6	B	30	N	0679 - NABA 0897 - JBJ		
								16:00-16:50	M20F9A	B	30	N			
								16:00-16:50	M20F9B	B	30	N			
								17:00-17:50	M11F6	B	30	N			
								17:00-17:50	M20F9A	B	30	N			
								17:00-17:50	M20F9B	B	30	N			
		3	**BMM2543**	**FLUIDS MECHANICS 2**	This course provides the students with the principal concepts and methods of fluid mechanics. The topics covered include flow over immersed bodies, boundary layer analysis, compressible fluids flow, and application in pumps and turbines. Students will work to formulate the models necessary to study, analyze, and design fluid systems through the application of these concepts, and to develop the problem-solving skills essential to good engineering practice of fluid mechanics in practical applications.										
					SEM 1 18/19	01	FRI	09:00-09:50	M21BK8	L	60	Y	1965 - ANO	06/01/2019 - AM	BMM2533
							WED	08:00-08:50	M21BK8	L	60	Y			
								09:00-09:50	M21BK8	L	60	Y			
						02	MON	10:00-10:50	M21BK8	L	60	Y	0808 - MZBS		
								11:00-11:50	M21BK8	L	60	Y			
							THU	11:00-11:50	M21BK8	L	60	Y			
						03	THU	14:00-14:50	M22BK5	L	60	Y	0666 - ABAA		
							TUE	14:00-14:50	M21BK8	L	60	Y			
								15:00-15:50	M21BK8	L	60	Y			
		3	**BMM2583**	**STRENGTH OF MATERIALS 2**	This course introduces students to establish understanding in solid body mechanics including analysing shearing stresses in beams and thin-walled members, understanding transformation of stress and strain										THIS CODE IS START FROM BACTH 2014 ONLY.

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BMM2583**	**STRENGTH OF MATERIALS 2**	state, calculating stresses under combined loading, and analysing effect of force to the deflection of beams and buckling of columns.										
					SEM 1 18/19	01	MON	10:00-10:50	M21BK4	L	60	Y	0652 - DNBAS	04/01/2019 - PM	BMM1533 BMM1563
								11:00-11:50	M21BK4	L	60	Y			
							WED	11:00-11:50	M20BK2	L	60	Y			
						02	FRI	08:00-08:50	M21BK4	L	60	Y	1984 - JPS		
							THU	08:00-08:50	M21BK4	L	60	Y			
								09:00-09:50	M21BK4	L	60	Y			
						03	THU	16:00-16:50	M21BK4	L	60	Y	1966 - DB		
							TUE	16:00-16:50	M21BK4	L	60	Y			
								17:00-17:50	M21BK4	L	60	Y			
		3	**BMM3023**	**ENGINEERING MANAGEMENT & SAFETY**	This course covers the basic management knowledge, safety and engineering economy. The management part will examine key issues in project management and organization. OSHA 1994, Factories and Machinery Act 1967, and basic principles of accident prevention and occupational health will be covered in safety part. In engineering economy, students are exposed to engineering economic principles and method of engineering economic analysis. At the end, student will manage an engineering project, implement an effective safety program and also perform engineering economic analysis.										
					SEM 1 18/19	01	FRI	11:00-11:50	M00DK1	L	80	N	0575 - MRBM		
							WED	11:00-11:50	M00DK1	L	80	N			
								12:00-12:50	M00DK1	L	80	N			
		3	**BMM3511**	**ENGINEERING THERMO-FLUID LAB**	This lab introduces the students to fundamental concepts of thermo-fluids, and heat transfer experimentation, from the virtual instrumentation and data acquisition requirements to subsequent data analysis techniques. It cover the areas of properties of first law and second law of thermodynamics, ideal gas law and perfect gas characteristics, flow patterns over different immersed bodies, fluid flow determination and validation of Bernoulli¿s theorem, friction losses in pipes, heat conduction and heat convection.									FOR BMA PROGRAM ONLY.	
					SEM 1 18/19	01	MON	14:00-14:50	M10F10	B	30	N	0758 - MSBS		BMM2543 BMM2673
								14:00-14:50	M10F25	B	30	N	1965 - ANO		
								15:00-15:50	M10F10	B	30	N			
								15:00-15:50	M10F25	B	30	N			
						02	WED	08:00-08:50	M10F10	B	30	N	01774 - MABH		
								08:00-08:50	M10F25	B	30	N	0758 - MSBS		
								09:00-09:50	M10F10	B	30	N			
								09:00-09:50	M10F25	B	30	N			
		3	**BMM3513**	**HEAT TRANSFER**											

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BMM3513**	**HEAT TRANSFER**	The basic modes of thermal energy transfer viz., conduction, convection and radiation are introduced with emphasis on understanding the fundamental concepts to be used in analysing and solving real-life problems. The applicability of 1-D heat conduction in various geometries, the validity of one dimensional heat conduction in fins, the distinction between steady and unsteady states, the concept of boundary layer, the analogy between fluid flow and convective heat transfer, the distinction between free and forced convection, the properties of materials which are responsible for energy transfer by radiation, the principles in the design of heat exchangers with emphasized on fundamental concepts and design methods.										
					SEM 1 18/19	01	MON	08:00-08:50	M21BK8	L	60	Y	0243 - RBAB	09/01/2019 - PM	BMM2673 BMM2683
								09:00-09:50	M21BK8	L	60	Y			BMM2673
							TUE	09:00-09:50	M21BK8	L	60	Y			BMM2513 BMM2523
						02	THU	10:00-10:50	M21BK8	L	60	Y	0141 - AABA		
							TUE	10:00-10:50	M21BK8	L	60	Y			
								11:00-11:50	M21BK8	L	60	Y			
						03	FRI	16:00-16:50	M21BK8	L	60	Y	0607 - WABWH		
							THU	16:00-16:50	M21BK8	L	60	Y			
								17:00-17:50	M21BK8	L	60	Y			
		3	**BMM3521**	**ENGINEERING FLUIDS MECHANICS LAB**	This course introduces to fundamental concepts of fluid mechanics experimentation, the virtual instrumentation and data acquisition requirements to subsequent data analysis techniques. The fields of study being emphasized include topics such as flow pattern over immersed bodies, fluid flow determination and validation of Bernoulli¿s theorem, friction losses in pipes, turbomachinery and pump performance analysis.										
					SEM 1 18/19	01	MON	08:00-08:50	M10F10	B	30	N	01168 - MPBR		BMM2543 BMM2533
								09:00-09:50	M10F10	B	30	N	01831 - EABA		
						02	TUE	10:00-10:50	M10F10	B	30	N	01168 - MPBR		
								11:00-11:50	M10F10	B	30	N	0362 - MFBAR		
						03	WED	12:00-12:50	M10F10	B	30	N	01168 - MPBR		
								13:00-13:50	M10F10	B	30	N	0519 - ABAK		
						04	THU	14:00-14:50	M10F10	B	30	N	01168 - MPBR		
								15:00-15:50	M10F10	B	30	N	2390 - SK		
						05	FRI	10:00-10:50	M10F10	B	30	N	01168 - MPBR		
								11:00-11:50	M10F10	B	30	N	0519 - ABAK		
		3	**BMM3531**	**ENGINEERING THERMODYNAMICS LAB**											

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BMM3531**	**ENGINEERING THERMODYNAMICS LAB**	This lab introduces practical applications in thermodynamics and heat transfer disciplines. It cover the areas of properties of pure substance, first law and second law of thermodynamics, ideal gas law and perfect gas characteristics, gas compressors, refrigeration cycles, heat conduction, heat convection, as well as heat radiation.										
					SEM 1 18/19	01	MON	08:00-08:50	M10F25	B	30	N	0611 - DAR		BMM2513 BMM2523 BMM2673 BMM2683
								09:00-09:50	M10F25	B	30	N	0898 - NBA		
						02	TUE	10:00-10:50	M10F25	B	30	N	0138 - MYBT		
								11:00-11:50	M10F25	B	30	N	0898 - NBA		
						03	WED	11:00-11:50	M10F25	B	30	N	01495 - MFBB		
								12:00-12:50	M10F25	B	30	N	0898 - NBA		
						04	THU	14:00-14:50	M10F25	B	30	N	0611 - DAR		
								15:00-15:50	M10F25	B	30	N	0898 - NBA		
						05	FRI	10:00-10:50	M10F25	B	30	N	0138 - MYBT		
								11:00-11:50	M10F25	B	30	N	0898 - NBA		
		3	**BMM3532**	**MEASUREMENT & INSTRUMENTATION**	This course introduces the principles of measurement, signal analysis and provides the students hands-on laboratory experience with a variety (or selected) transducers and instruments (including `virtual instruments¿). Students also expose on how to write professional technical reports.										
					SEM 1 18/19	01	MON	10:00-10:50	M20BK2	L	60	Y	0626 - MFBH	06/01/2019 - PM	
								11:00-11:50	M20BK2	L	60	Y			
						02	TUE	16:00-16:50	M20BK2	L	45	Y	0626 - MFBH		
								17:00-17:50	M20BK2	L	45	Y			
						03	THU	08:00-08:50	M21BK8	L	60	Y	01341 - MBL		
								09:00-09:50	M21BK8	L	60	Y			
		3	**BMM3553**	**MECHANICAL VIBRATIONS**											

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BMM3553**	**MECHANICAL VIBRATIONS**	This course introduces fundamental of vibration, un-damped vibration single degree of freedom (SDOF), damped vibration single degree of freedom (SDOF), two degree of freedom (2DOF) multi degree of freedom (MDOF) and some applications of vibrations in engineering.											
						SEM 1 18/19	01	MON	09:00-09:50	M20BK7	L	60	Y	01038 - CKENBCKH	08/01/2019 - AM	BMM1532 BMM1553 BMM1563 BMM1553
								TUE	08:00-08:50	M20BK7	L	60	Y			
									09:00-09:50	M20BK7	L	60	Y			
							01A	THU	09:00-09:50	M10F22	B	30	Y	01038 - CKENBCKH 0892 - KABS		
							01B	FRI	09:00-09:50	M10F22	B	30	Y	01038 - CKENBCKH 0892 - KABS		
							02	FRI	11:00-11:50	M20BK7	L	60	Y	01069 - NWK		
								THU	10:00-10:50	M20BK7	L	60	Y			
									11:00-11:50	M20BK7	L	60	Y			
							02A	MON	11:00-11:50	M10F22	B	30	Y	01069 - NWK 0892 - KABS		
							02B	WED	11:00-11:50	M10F22	B	30	Y	01069 - NWK 0892 - KABS		
							03	MON	14:00-14:50	M20BK7	L	60	Y	0738 - ZBM		
									15:00-15:50	M20BK7	L	60	Y			
								TUE	14:00-14:50	M20BK7	L	60	Y			
							03A	THU	15:00-15:50	M10F22	B	30	Y	0738 - ZBM 0892 - KABS		
							03B	FRI	15:00-15:50	M10F22	B	30	Y	0738 - ZBM 0892 - KABS		
		3	**BMM3562**	**FINITE ELEMENT METHOD**	This course covers the basics of Finite Element Method, related to continuum mechanics, theory of Finite Element Method, application of FEM to solve solid mechanics/structural problems, and finite element analysis of real world problems using selected FE software(s). The theory will be covered in the lecture and the application will be covered in the laboratory work.											
						SEM 1 18/19	01	MON	09:00-09:50	M22BK5	L	60	N	0213 - JBM		BMM1563 BMM1533 BMM1532 BMM1533 BMM1563 BMM1543
							01A	TUE	08:00-08:50	M11F1B	B	30	N	0213 - JBM		
									09:00-09:50	M11F1B	B	30	N			
							01B	WED	08:00-08:50	M11F1B	B	30	N	0213 - JBM		
									09:00-09:50	M11F1B	B	30	N			
							02	TUE	11:00-11:50	M22BK5	L	60	N	0213 - JBM		
							02A	MON	10:00-10:50	M11F1B	B	30	N	0213 - JBM		
									11:00-11:50	M11F1B	B	30	N			
							02B	WED	10:00-10:50	M11F1B	B	30	N	0213 - JBM		
									11:00-11:50	M11F1B	B	30	N			
							03	THU	16:00-16:50	M22BK5	L	60	N	0491 - SBMS		
							03A	MON	16:00-16:50	M11F1B	B	30	N	0563 - ASBS		
									17:00-17:50	M11F1B	B	30	N			
							03B	FRI	15:00-15:50	M11F1B	B	30	N	0563 - ASBS		
									16:00-16:50	M11F1B	B	30	N			

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
PEKAN	DEGREE	3	**BMM3611**	**MANUFACTURING PROCESSES LAB**	This lab provides hands-on experience for students to learn about manufacturing processes with emphasized on safety requirements, knowledge on engineering material application and processing tools/machines. At the end of this course, student activities during lab activities will be evaluated based on their technical report.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	MON	10:00-10:50	M10F2	B	30	N	01328 - ZABZ 0330 - ABM 0358 - KABAJ 0364 - MRBK 0575 - MRBM 0647 - MRBMA		BMM3643 NXUBMM3643
			10:00-10:50	M40F15	B	30	N			
			10:00-10:50	M40F16	B	30	N			
			10:00-10:50	M40F17	B	30	N			
			10:00-10:50	M40F19	B	30	N			
			10:00-10:50	M40F8A	B	30	N			
			11:00-11:50	M10F2	B	30	N			
			11:00-11:50	M40F15	B	30	N			
			11:00-11:50	M40F16	B	30	N			
			11:00-11:50	M40F17	B	30	N			
			11:00-11:50	M40F19	B	30	N			
			11:00-11:50	M40F8A	B	30	N			
			12:00-12:50	M10F2	B	30	N			
			12:00-12:50	M40F15	B	30	N			
			12:00-12:50	M40F16	B	30	N			
			12:00-12:50	M40F17	B	30	N			
			12:00-12:50	M40F19	B	30	N			
			12:00-12:50	M40F8A	B	30	N			
	02	MON	10:00-10:50	M10F2	B	30	N	01328 - ZABZ 0330 - ABM 0358 - KABAJ 0364 - MRBK 0647 - MRBMA 0992 - MAS		
			10:00-10:50	M40F15	B	30	N			
			10:00-10:50	M40F16	B	30	N			
			10:00-10:50	M40F17	B	30	N			
			10:00-10:50	M40F19	B	30	N			
			10:00-10:50	M40F8A	B	30	N			
			11:00-11:50	M10F2	B	30	N			
			11:00-11:50	M40F15	B	30	N			
			11:00-11:50	M40F16	B	30	N			
			11:00-11:50	M40F17	B	30	N			
			11:00-11:50	M40F19	B	30	N			
			11:00-11:50	M40F8A	B	30	N			
			12:00-12:50	M10F2	B	30	N			
			12:00-12:50	M40F15	B	30	N			
			12:00-12:50	M40F16	B	30	N			
			12:00-12:50	M40F17	B	30	N			
			12:00-12:50	M40F19	B	30	N			
			12:00-12:50	M40F8A	B	30	N			

Universiti Malaysia PAHANG
Engineering • Technology • Creativity

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis									Exam Schedule	Remark
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff		Pre-Requisite
PEKAN	DEGREE	3	BMM3611	MANUFACTURING PROCESSES LAB	SEM 1 18/19	03	TUE	14:00-14:50	M10F2	B	30	N	0330 - ABM 0358 - KABAJ 0364 - MRBK 0647 - MRBMA 0663 - AHBA 0758 - MSBS		
								14:00-14:50	M40F15	B	30	N			
								14:00-14:50	M40F16	B	30	N			
								14:00-14:50	M40F17	B	30	N			
								14:00-14:50	M40F19	B	30	N			
								14:00-14:50	M40F8A	B	30	N			
								15:00-15:50	M10F2	B	30	N			
								15:00-15:50	M40F15	B	30	N			
								15:00-15:50	M40F16	B	30	N			
								15:00-15:50	M40F17	B	30	N			
								15:00-15:50	M40F19	B	30	N			
								15:00-15:50	M40F8A	B	30	N			
								16:00-16:50	M10F2	B	30	N			
								16:00-16:50	M40F15	B	30	N			
								16:00-16:50	M40F16	B	30	N			
								16:00-16:50	M40F17	B	30	N			
								16:00-16:50	M40F19	B	30	N			
								16:00-16:50	M40F8A	B	30	N			
						04	TUE	14:00-14:50	M10F2	B	30	N	01167 - ZBA 0330 - ABM 0358 - KABAJ 0364 - MRBK 0647 - MRBMA 0663 - AHBA 0758 - MSBS		
								14:00-14:50	M40F15	B	30	N			
								14:00-14:50	M40F16	B	30	N			
								14:00-14:50	M40F17	B	30	N			
								14:00-14:50	M40F19	B	30	N			
								14:00-14:50	M40F8A	B	30	N			
								15:00-15:50	M10F2	B	30	N			
								15:00-15:50	M40F15	B	30	N			
								15:00-15:50	M40F16	B	30	N			
								15:00-15:50	M40F17	B	30	N			
								15:00-15:50	M40F19	B	30	N			
								15:00-15:50	M40F8A	B	30	N			
								16:00-16:50	M10F2	B	30	N			
								16:00-16:50	M40F15	B	30	N			
								16:00-16:50	M40F16	B	30	N			
								16:00-16:50	M40F17	B	30	N			
								16:00-16:50	M40F19	B	30	N			
								16:00-16:50	M40F8A	B	30	N			
						05	THU	14:00-14:50	M10F2	B	30	N	01328 - ZABZ 01496 - SRABI 0330 - ABM 0364 - MRBK 0647 - MRBMA 0897 - JBJ		
								14:00-14:50	M40F15	B	30	N			
								14:00-14:50	M40F16	B	30	N			
								14:00-14:50	M40F17	B	30	N			
								14:00-14:50	M40F19	B	30	N			
								14:00-14:50	M40F8A	B	30	N			
								15:00-15:50	M10F2	B	30	N			
								15:00-15:50	M40F15	B	30	N			
								15:00-15:50	M40F16	B	30	N			
								15:00-15:50	M40F17	B	30	N			
								15:00-15:50	M40F19	B	30	N			
								15:00-15:50	M40F8A	B	30	N			
								16:00-16:50	M10F2	B	30	N			
								16:00-16:50	M40F15	B	30	N			
								16:00-16:50	M40F16	B	30	N			
								16:00-16:50	M40F17	B	30	N			
								16:00-16:50	M40F19	B	30	N			
								16:00-16:50	M40F8A	B	30	N			

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BMM3613**	**AUTOMATIC CONTROL**	This course introduces linear, time-invariant (LTI) control system modeling, analysis and design. The covered topics are frequency domain modeling of mechanical, electrical and electro-mechanical systems; time response analysis, frequency response analysis, stability analysis and steady-state analysis. Control system design and analysis utilizing Bode Plot technique, Nyquist technique, and PID controller.										
					SEM 1 18/19	01	MON	08:00-08:50	M21BK4	L	45	Y	01856 - MJBMM	07/01/2019 - AM	BMM1553
								09:00-09:50	M21BK4	L	45	Y			
							WED	08:00-08:50	M21BK4	T	45	Y			
								09:00-09:50	M21BK4	T	45	Y			
						02	TUE	10:00-10:50	M21BK4	L	60	Y	01565 - UKBJ		
								11:00-11:50	M21BK4	L	60	Y			
							WED	10:00-10:50	M21BK4	T	60	Y			
								11:00-11:50	M21BK4	T	60	Y			
						03	FRI	15:00-15:50	M21BK4	T	60	Y	01318 - MHBM		
								16:00-16:50	M21BK4	T	60	Y			
							THU	14:00-14:50	M21BK4	L	60	Y			
								15:00-15:50	M21BK4	L	60	Y			
		3	**BMM3623**	**MECHANICAL DESIGN**	This course is an introduction to analysis of static and fatigue failure and design of machine elements/mechanical components. Students are exposed to design of machine elements/mechanical components including shafts, keys, springs, bolts and nuts, screws, welding, bearings, belts and chains, clutches and brakes.										FOR BMM PROGRAM ONLY.
					SEM 1 18/19	01	FRI	09:00-09:50	M21BK4	L	60	Y	0273 - FRBMR	04/01/2019 - PM	BMM1563 BMM1543 BMM1532 BMM1533 BMM1563 BMM1533 BMM2583
							TUE	08:00-08:50	M21BK4	L	60	Y			
								09:00-09:50	M21BK4	L	60	Y			
						02	FRI	11:00-11:50	M21BK4	L	45	Y	0375 - MRZBMS		
							THU	10:00-10:50	M21BK4	L	45	Y			
								11:00-11:50	M21BK4	L	45	Y			
						03	MON	16:00-16:50	M21BK4	L	60	Y	0375 - MRZBMS		
								17:00-17:50	M21BK4	L	60	Y			
							THU	17:00-17:50	M21BK4	L	60	Y			
		3	**BMM3633**	**INDUSTRIAL ENGINEERING**	his course introduces Industrial engineering, productivity, total quality management lean manufacturing, work study, human factors engineering, production planning and control, inventory management and engineering management.										
					SEM 1 18/19	01	TUE	08:00-08:50	M22BK5	L	60	Y	0814 - SHBT	06/01/2019 - AM	
								09:00-09:50	M22BK5	L	60	Y			
							WED	09:00-09:50	M22BK5	L	60	Y			
						02	FRI	11:00-11:50	M22BK5	L	60	Y	0640 - NSBMS		
							THU	10:00-10:50	M22BK5	L	60	Y			
								11:00-11:50	M22BK5	L	60	Y			
						03	MON	16:00-16:50	M22BK5	L	60	Y	0292 - MFFBAR		
								17:00-17:50	M22BK5	L	60	Y			
							TUE	16:00-16:50	M22BK5	L	60	Y			
		3	**BMM3643**	**MANUFACTURING PROCESSES**											

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BMM3643**	**MANUFACTURING PROCESSES**	This course introduces students to manufacturing processes used for converting raw materials into finished products. Various processes, machinery, and operations will be examined with emphasis placed on understanding engineering materials and processing parameters that influence design considerations, product quality, and production costs. Sustainable manufacturing process will be discussed in student project presentation.										
					SEM 1 18/19	01	TUE	08:00-08:50	M20BK1	L	60	Y	0663 - AHBA	10/01/2019 - AM	
								09:00-09:50	M20BK1	L	60	Y			
							WED	09:00-09:50	M20BK1	L	60	Y			
						02	FRI	10:00-10:50	M20BK1	L	60	Y	0624 - MABH		
							THU	10:00-10:50	M20BK1	L	60	Y			
								11:00-11:50	M20BK1	L	60	Y			
						03	MON	16:00-16:50	M20BK1	L	45	Y	0817 - KAK		
								17:00-17:50	M20BK1	L	45	Y			
							THU	16:00-16:50	M20BK1	L	45	Y			
		4	**BMA4723**	**VEHICLE DYNAMICS**	This course focuses on the fundamental of vehicle dynamics, vehicle acceleration and braking performance, mechanics of pneumatic tires, vehicle ride, cornering characteristics. suspension and steering system behaviour. By accomplish a series of laboratories such as car handling, acceleration, braking, double lane change and suspension performance, student are able to build up independent skill in design, conduct and validate experiment results.										
					SEM 1 18/19	01	THU	08:00-08:50	FKM L1	L	45	Y	01681 - MHBP	10/01/2019 - AM	BMM1553
								09:00-09:50	FKM L1	L	45	Y			
						01A	TUE	08:00-08:50	M30F21C	B	25	Y	01681 - MHBP		
								09:00-09:50	M30F21C	B	25	Y	0889 - MIBMS		
						01B	WED	08:00-08:50	M30F21C	B	20	Y	01681 - MHBP		
								09:00-09:50	M30F21C	B	20	Y	0622 - MIBMR		
		4	**BMA4763**	**VEHICLE NOISE AND VIBRATION**	This course introduces to automotive NVH, fundamental of noise, vehicle noise source, exterior and interior noise vehicle, vibration modal analysis, normal mode finite element analysis, experimental modal analysis and source of vehicle vibration.										
					SEM 1 18/19	01A	TUE	11:00-11:50	M10F22	B	23	Y	0139 - MSBMS	08/01/2019 - AM	BMM3553
								12:00-12:50	M10F22	B	23	Y	0892 - KABS		NXUBMM3553
						01B	THU	11:00-11:50	M10F22	B	22	Y	0139 - MSBMS		
								12:00-12:50	M10F22	B	22	Y	0892 - KABS		
		4	**BMA4823**	**ENERGY EFFICIENT VEHICLE**	Energy Efficient Vehicle or EEV is a new concept of categorise automotive technology towards the low fuel consumption, alternative and sustainable automotive system. Under the EEV definition, there are multiple approaches, technology, alternative fuels, materials and etc. In this course, some foundation of automotive highlighted and followed by sustainability of different green technology, electrification and detail hybrid electric vehicle design, operation, construction and diagnosis										
					SEM 1 18/19	01	THU	11:00-11:50	M30F21C	L	30	Y	0357 - GLM	11/01/2019 - PM	
							TUE	10:00-10:50	M30F21C	L	30	Y			
								11:00-11:50	M30F21C	L	30	Y			
		4	**BMM4021**	**ENGINEER AND SOCIETY**	This course introduces the engineering profession, local industries sector, issues in local industries, ethics and public responsibility, engineer and law, and contract law.										For batch starting 2014 only.
					SEM 1 18/19	01	THU	12:00-12:50	M00DK1	L	100	N	VP0012 - HBI		
		4	**BMM4623**	**MECHANICAL SYSTEM DESIGN**	This course prepares a detailed comprehensive design project considering the different stages of their design, manufacturing and assembly. The students will learn about project management, communication,										

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**BMM4623**	**MECHANICAL SYSTEM DESIGN**	documentation, working in teams, design methodology. Design of mechanical engineering systems components, including problem definition, analysis, and synthesis, and develop a computational as well as the physical model of their design. The projects challenge students to apply the knowledge and skills they learned throughout their degree to real-world problems. Application of the design process to solve an engineering problem which includes interdisciplinary parameters such as human factors, engineering economy, safety, environmental, and societal aspects of their design, etc. The students work in small teams under the close supervision of faculty members. Each team produces detailed drawings, comprehensive specifications, a presentation, and a prototype of the proposed design. They also write design reports and prepare posters describing their work. All reports are expected to meet professional standards.										
					SEM 1 18/19	01	FRI	16:00-16:50	M00DK1	L	60	N	0137 - ARBR 0575 - MRBM		BMM3623 BMM1533 BMM1532 NXUBMM3623 BMM2582 BMM1533 BMM2582 BMM1543 BMM1563
								17:00-17:50	M00DK1	L	60	N			
								18:00-18:50	M00DK1	L	60	N			
								19:00-19:50	M00DK1	L	60	N			
		4	**BMM4693**	**BIOMECHANICS**	This course introduces the principles and application of biomechanics, statics, dynamics, kinetics and identifies instrumentation used for measuring kinetics and kinematics quantities. Concept and theories of human skeletal, human upper and lower extremities and human spine from a biomechanical perspective.										
					SEM 1 18/19	01	THU	14:00-14:50	M21BT5	L	30	Y	01033 - MAHBMA	08/01/2019 - PM	
							TUE	14:00-14:50	M21BT5	L	30	Y			
								15:00-15:50	M21BT5	L	30	Y			
		4	**BMM4703**	**HYDRAULICS AND PNEUMATICS**	This course introduces hydraulic and pneumatic systems, including the theoretical knowledge, components and the circuit design. Beside the basic hydraulic and pneumatic system, this course also introduces the electro fluid power system, as well as programmable logic controller (PLC) to control the system.										
					SEM 1 18/19	01	MON	08:00-08:50	M21BT5	L	30	Y	0292 - MFFBAR	10/01/2019 - PM	BMM2543
								09:00-09:50	M21BT5	L	30	Y			
						01A	WED	08:00-08:50	M12F13	B	30	Y	0292 - MFFBAR		
								09:00-09:50	M12F13	B	30	Y			
		4	**BMM4733**	**POWER PLANT TECHNOLOGY**	This course discusses power plant systems such as steam turbines, gas turbines, combined cycle power plants and sustainable energy power systems. This course also covers fuels and combustions, economics of power generation, and environmental issues on power generation.										
					SEM 1 18/19	01	THU	15:00-15:50	M22BT8	L	30	Y	01495 - MFBB	11/01/2019 - AM	BMM2523 BMM2543 BMM2683 BMM2543
								16:00-16:50	M22BT8	L	30	Y			
							TUE	16:00-16:50	M22BT8	L	30	Y			
		4	**BMM4763**	**FATIGUE DESIGN AND ANALYSIS**	Introduction to factors affecting fatigue behaviour and characteristics of design approach. Study on cycle counting techniques. Fatigue design methods including stress-life, strain-life and Linear elastic fracture mechanics methods under constant and variable amplitude loadings.										
					SEM 1 18/19	01	FRI	10:00-10:50	M21BT5	L	30	Y	01146 - MABMR	09/01/2019 - AM	BMM3563 BMM3562
								11:00-11:50	M21BT5	L	30	Y			
						01	TUE	10:00-10:50	M11F1B	B	30	Y	0563 - ASBS		
								11:00-11:50	M11F1B	B	30	Y			
		4	**BMM4783**	**COMPUTATIONAL FLUID DYNAMICS**	This subject is to introduce the fundamental and application of simulation of fluid mechanics phenomenon and solving fluids problem via simulation. Holistic approaches of programming and commercial software are essentials towards solving, analyzing and evaluating the results of fluid mechanics problem-based simulation. The objective of this subject is to provide the basic of simulation focusing on fluid problem which is from mathematical model such as Navier Stokes equation and solve it numerically with the aid of programming software. The next step is to understand and utilize commercial software to solve										

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**BMM4783**	**COMPUTATIONAL FLUID DYNAMICS**	engineering fluid problem base on actual physical shape appearance which is more complex boundaries.										
					SEM 1 18/19	01	FRI	10:00-10:50	M11F1B	B	30	Y	1965 - ANO	07/01/2019 - PM	BMM1312 BMM2543 BMM1313
								11:00-11:50	M11F1B	B	30	Y			
							MON	10:00-10:50	M21BT5	L	30	Y			
								11:00-11:50	M21BT5	L	30	Y			
		4	**BMM4793**	**WELDING AND JOINING TECHNOLOGY**	This course introduces about welding & joining technology. The topic includes the overview of welding processes, fusion welding, arc physics, solid state welding, soldering, brazing as well as welding design, welding defects and its countermeasure. It also includes quality management system in welding and defect detection technology.										
					SEM 1 18/19	01	MON	10:00-10:50	M22BT8	L	30	Y	0151 - MBI@M	07/01/2019 - PM	BMM3643
								11:00-11:50	M22BT8	L	30	Y			
							THU	10:00-10:50	M22BT8	L	30	Y			
		4	**BMM4803**	**CORROSION SCIENCE AND ENGINEERING**	The course is aimed to investigate the fundamental causes of corrosion problems and materials failures. Emphasis on studying electrochemical reactions of corrosion process, material selections and corrosion protections. In the laboratory, students involve with experiments to evaluate corrosion reactions, environmental failure, and basic methods for protection of materials.										
					SEM 1 18/19	01	MON	08:00-08:50	M22BT8	L	30	Y	0612 - JBA	10/01/2019 - PM	
								09:00-09:50	M22BT8	L	30	Y			
							TUE	09:00-09:50	M22BT8	L	30	Y			
		4	**BMM4813**	**ERGONOMICS**	This course introduces students to ergonomics principles and their application in the design of work, equipment and the workplace. Consideration is given to musculoskeletal disorders, manual handling, and ergonomics aspects of the workplace.										
					SEM 1 18/19	01	THU	16:00-16:50	FKM L1	L	30	Y	0640 - NSBMS	08/01/2019 - PM	
							TUE	15:00-15:50	FKM L1	L	30	Y			
								16:00-16:50	FKM L1	L	30	Y			
		4	**BMM4833**	**QUALITY ENGINEERING**	This course introduces students to fundamentals of quality management and statistical quality improvement concepts. A practical state-of-the-art approach is stressed to ensure sufficient theory is presented to develop robust understandings on quality principles to monitor, control, improve product and processes.										
					SEM 1 18/19	01	THU	11:00-11:50	M21BT5	L	30	Y	0992 - MAS	11/01/2019 - PM	BMM3633
							TUE	10:00-10:50	M21BT5	L	30	Y			
								11:00-11:50	M21BT5	L	30	Y			
		4	**BMM4843**	**PLASTICS INJECTION TECHNOLOGY**	This course is an introduction to the plastic injection mould design for producing thermoplastic materials. It focuses on the basic of plastic injection mould and its¿ machine, proper selection of thermoplastic materials, calculation and design of mould based on the proposed plastic product design. It uses CAD software for designing and modeling of the mould and uses CAE Moldflow simulation tool to optimize the correlation of the mould design with the injection moulding process. Designed mould would be fabricated and plastic products are produced by injecting the fabricated mould with plastic injection moulding machine.										
					SEM 1 18/19	01	THU	10:00-10:50	M11F1B	T	30	Y	0358 - KABAJ	11/01/2019 - PM	BMM2613 BMM1811 BMM1821
							TUE	10:00-10:50	M40F18	B	30	Y	0529 - WSBWH		
								11:00-11:50	M40F18	B	30	Y			
						01	THU	10:00-10:50	M11F1B	L	30	Y	0529 - WSBWH		
							WED	10:00-10:50	M21BT5	L	30	Y			
								11:00-11:50	M21BT5	L	30	Y			
		4	**BMM4853**	**AIR CONDITIONING AND REFRIGERATION**	The course content covers the topics such as basic heat transfer, and the working fluid thermodynamics, vapour compression and absorption system of refrigeration, psychrometric charts and its use, cooling load calculations, study of air conditioning components, ducting and piping, pumps and fans and blowers,										

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**BMM4853**	**AIR CONDITIONING AND REFRIGERATION**	cooling coils and dehumidification process, expansion valves, evaporation and condensation process, temperature control systems; noise and vibration controls in air conditioning. The practical project work will include design and calculate the cooling load requirement of a building air conditioning system using PBL methodology.										
					SEM 1 18/19	01	FRI	10:00-10:50	M22BT8	L	30	Y	01678 - MHBY	09/01/2019 - AM	BMM2683 BMM2523
							WED	10:00-10:50	M22BT8	L	30	Y			
								11:00-11:50	M22BT8	L	30	Y			
		4	**BMM4912**	**FINAL YEAR PROJECT 1**	The final year project focuses on the real professional approach to engineering studies. Students will utilise their engineering knowledge and technical skill from the previous training to solve engineering and for integration of subject areas is strongly encouraged throughout the program.										FOR BMM PROGRAM ONLY.
					SEM 1 18/19	01	WED	17:00-17:50	M00DK1	L	300	N	0611 - DAR 0666 - ABAA		
								18:00-18:50	M00DK1	L	300	N			
		4	**BMM4924**	**FINAL YEAR PROJECT 2**	The final year project focuses on the real professional approach to engineering studies. Students will utilise their engineering knowledge and technical skill to solve an engineering problems. For this reason, the use of projects as a transport for teaching and for integration of subject area is strongly encouraged throughout the programme.										FOR BMM PROGRAM ONLY.
					SEM 1 18/19	01	WED	17:00-17:50	M00DK1	L	50	N	0611 - DAR 0666 - ABAA		BMM4912
								18:00-18:50	M00DK1	L	50	N			
			BMA4704	**INTEGRATED DESIGN PROJECT**	This course prepares a detailed comprehensive design project considering the different stages of their design, manufacturing and assembly. The students will learn about project management, communication, documentation, working in teams, design methodology. Design of mechanical engineering systems components, including problem definition, analysis, and synthesis, and develop a computational as well as the physical model of their design. The projects challenge students to apply the knowledge and skills they learned throughout their degree to real-world problems. Application of the design process to solve an engineering problem which includes interdisciplinary parameters such as human factors, engineering economy, safety, environmental, and societal aspects of their design, etc. The students work in small teams under the close supervision of faculty members. Each team produces detailed drawings, comprehensive specifications, a presentation, and a prototype of the proposed design. They also write design reports and prepare posters describing their work. All reports are expected to meet professional standards.										FOR BMA PROGRAM ONLY.
					SEM 1 18/19	01	FRI	16:00-16:50	M00DK1	L	60	N	0137 - ARBR		BMA3623 BMM1543 BMM3623 BMM2583 BMM1533 NXUBMM3623
								17:00-17:50	M00DK1	L	60	N			
								18:00-18:50	M00DK1	L	60	N			
								19:00-19:50	M00DK1	L	60	N			
			BMA4833	**AUTOMOTIVE ELECTRIC AND ELECTRONICS**	This course covers comprehensive overview in the area of automotive electrical and electronics and familiarises students with both analytical and computational approaches in evaluating and designing vehicle electrical and electronics components and systems as well as innovative approach in automotive electronics systems.										
					SEM 1 18/19	01	THU	15:00-15:50	M21BT5	L	30	Y	01088 - MRBH	05/01/2019 - AM	
								16:00-16:50	M21BT5	L	30	Y			
							TUE	16:00-16:50	M21BT5	L	30	Y			
			BMA4863	**MOTORSPORT ENGINEERING**											

COURSE TIMETABLE

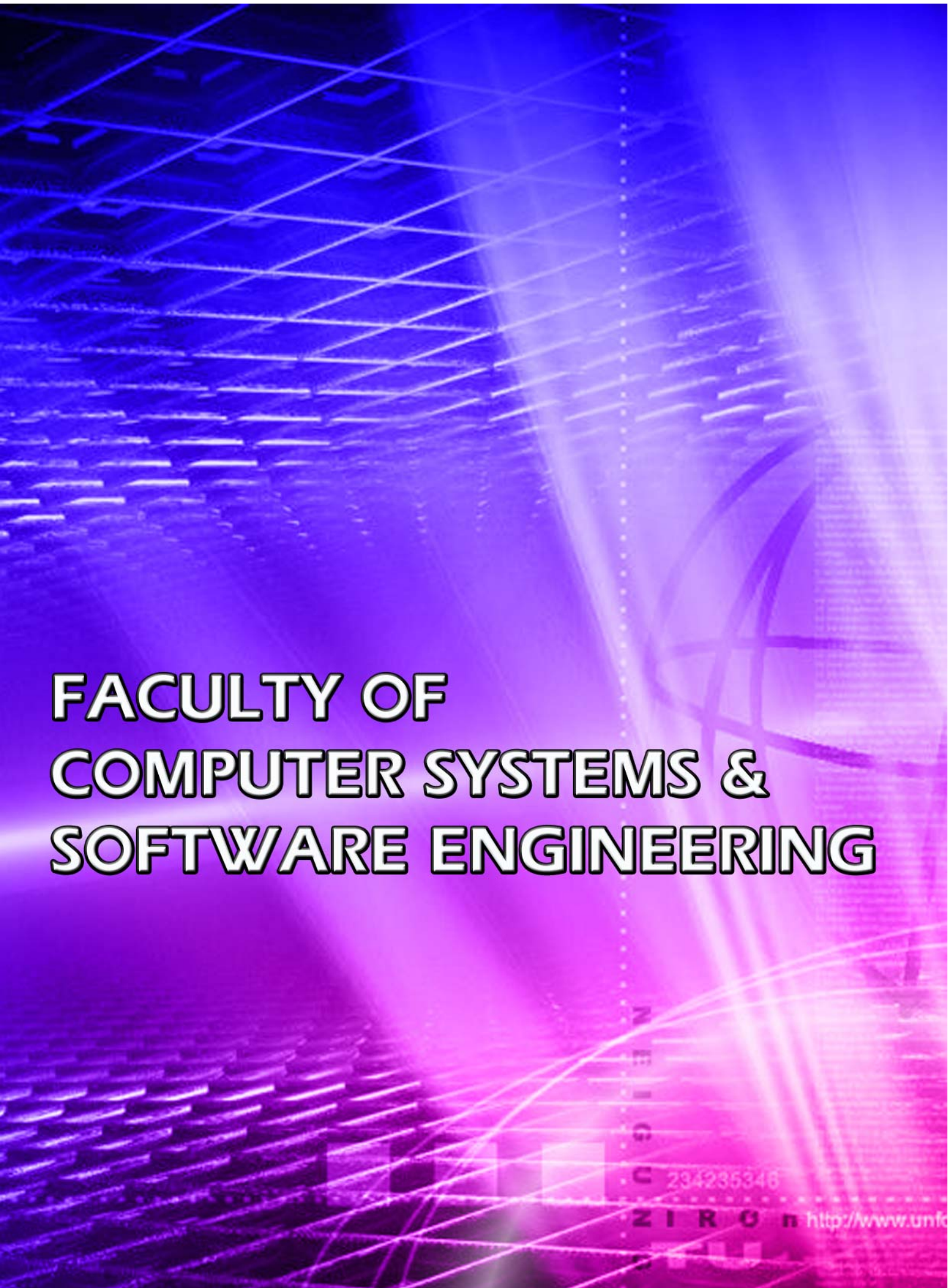
Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		**BMA4863**	**MOTORSPORT ENGINEERING**	This course focuses on the introduction to motorsports engineering, types of racing engines, advanced vehicle materials and structure, and manufacturing technique extant in this field. It also covers the modification as enhancement in motorsport system feature, racing theories and strategies, regulation and safety in motorsports engineering.										
					SEM 1 18/19	01	FRI	08:00-08:50	FKM L1	L	30	Y	01583 - ABA	10/01/2019 - AM	BMM1563 BMM1553
								09:00-09:50	FKM L1	L	30	Y			
							WED	08:00-08:50	M30F5	B	30	Y			
								09:00-09:50	M30F5	B	30	Y			
			BMA4873	**RAILWAY TECHNOLOGY**	This course provides an overview on railway technology including permanent way/track, rolling stocks, signalling and train control, electrification system and railway communication and information technology systems. The current issues, challenges and future technologies are also covered in this course.										
					SEM 1 18/19	01	FRI	11:00-11:50	FKM L1	L	30	Y	01774 - MABH	11/01/2019 - AM	
							THU	10:00-10:50	FKM L1	L	30	Y			
								11:00-11:50	FKM L1	L	30	Y			
			BMA4912	**FINAL YEAR PROJECT 1**	The final year project focuses on the real professional approach to engineering studies. Students will utilise their engineering knowledge and technical skill from the previous training to solve engineering and for integration of subject areas is strongly encouraged throughout the program.										FOR BMA PROGRAM ONLY.
					SEM 1 18/19	01	WED	17:00-17:50	M00DK1	L	60	N	0611 - DAR 0666 - ABAA		
								18:00-18:50	M00DK1	L	60	N			
			BMA4924	**FINAL YEAR PROJECT 2**	The final year project focuses on the real professional approach to engineering studies. Students will utilise their engineering knowledge and technical skill to solve an engineering problems. For this reason, the use of projects as a transport for teaching and for integration of subject area is strongly encouraged throughout the programme.										FOR BMA PROGRAM ONLY.
					SEM 1 18/19	01	WED	17:00-17:50	M00DK1	L	30	N	0611 - DAR 0666 - ABAA		BMA4912
								18:00-18:50	M00DK1	L	30	N			
			BMM2612	**COMPUTER AIDED DESIGN**	Computer Aided Design provides comprehensive introduction to Computer-Aided Design software. It is an introductory level where the students will learn the basics of technical drawing and use the software to create two-dimensional design in engineering. Students shall be able to demonstrate competency in sketching a model and using certain standard features available in the CAD environment for creating, manipulating and modifying assigned objects or elements. Students shall be able to change object properties and to undertake printing or plotting activity associated with the delivery outputs.										
					SEM 1 18/19	01	THU	08:00-08:50	M11F1A	B	30	N	0738 - ZBM		
								09:00-09:50	M11F1A	B	30	N			
							TUE	09:00-09:50	M11F1A	L	30	N			
						02	THU	14:00-14:50	M11F1A	B	30	N	0621 - HBAS		
								15:00-15:50	M11F1A	B	30	N			
							TUE	14:00-14:50	M11F1A	L	30	N			
						03	MON	16:00-16:50	M11F1A	L	30	N	0624 - MABH		
							TUE	16:00-16:50	M11F1A	B	30	N			
								17:00-17:50	M11F1A	B	30	N			
						04	MON	10:00-10:50	M11F1A	L	30	N	0621 - HBAS		
							WED	10:00-10:50	M11F1A	B	30	N			
								11:00-11:50	M11F1A	B	30	N			
			BMM4704	**INTEGRATED DESIGN PROJECT**	This course prepares a detailed comprehensive design project considering the different stages of their design, manufacturing and assembly. The students will learn about project management, communication, documentation, working in teams, design methodology. Design of mechanical engineering systems components, including problem definition, analysis, and synthesis, and develop a computational as well										FOR BMM PROGRAM ONLY.

COURSE TIMETABLE

Faculty : **FACULTY OF MECHANICAL ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		**BMM4704**	**INTEGRATED DESIGN PROJECT**	as the physical model of their design. The projects challenge students to apply the knowledge and skills they learned throughout their degree to real-world problems. Application of the design process to solve an engineering problem which includes interdisciplinary parameters such as human factors, engineering economy, safety, environmental, and societal aspects of their design, etc. The students work in small teams under the close supervision of faculty members. Each team produces detailed drawings, comprehensive specifications, a presentation, and a prototype of the proposed design. They also write design reports and prepare posters describing their work. All reports are expected to meet professional standards.										
					SEM 1 18/19	01	FRI	16:00-16:50	M00DK1	L	120	N	0575 - MRBM		NXUBMM3623 BMM3623 BMM2583 BMM1533 BMA3623 BMM1543 BMM1563
								17:00-17:50	M00DK1	L	120	N			
								18:00-18:50	M00DK1	L	120	N			
								19:00-19:50	M00DK1	L	120	N			
			BMM4823	**PRODUCTION PLANNING CONTROL**	This course introduces production planning and control, forecasting, aggregate planning, production scheduling, Just-in-Time production, inventory management, material requirements planning. Simulation on production operation using Witness software is assigned										
					SEM 1 18/19	01	THU	14:00-14:50	M21F7	B	30	N	0635 - ANBMR		BMM3633
								15:00-15:50	M21F7	B	30	N			
NO TIMETABLE	DEGREE		**BMM3996**	**INDUSTRIAL TRAINING**	This training exposes the students to professional skills and experience in aspect of mechanical engineering practice. The exposure will help to produce an excellent, responsible and good attitude.									Pre-requisites : more than 70 credit taken.	
					SEM 1 18/19	01BM M					180	N	TBA		BMM2582 BMM2523 BMM3643 BMM2583 BMM2543 BMM2683
						02BM A					70	N	TBA		


FACULTY OF
COMPUTER SYSTEMS &
SOFTWARE ENGINEERING

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BCI1143**	**PROBLEM SOLVING**	This course expose to the students with the appropriate computing methods in solving problem through programming approach, which consists of programming design, algorithm, pseudo code, flow chart and logic structure.										
					SEM 1 18/19	01	MON	14:00-14:50	Z01-0003	L	60	Y	01866 - SBM@A	05/01/2019 - AM	
								15:00-15:50	Z01-0003	L	60	Y			
						01A	THU	14:00-14:50	FSK22	B	30	Y	01866 - SBM@A		
								15:00-15:50	FSK22	B	30	Y			
						01B	FRI	15:00-15:50	FSK22	B	30	Y	01866 - SBM@A		
								16:00-16:50	FSK22	B	30	Y			
						02	WED	10:00-10:50	Z01-0004	L	60	Y	01866 - SBM@A		
								11:00-11:50	Z01-0004	L	60	Y			
						02A	MON	10:00-10:50	FSK20	B	30	Y	01866 - SBM@A		
								11:00-11:50	FSK20	B	30	Y			
						02B	TUE	10:00-10:50	FSK22	B	30	Y	01805 - NABS		
								11:00-11:50	FSK22	B	30	Y			
						03	MON	10:00-10:50	Z01-0004	L	60	Y	01805 - NABS		
								11:00-11:50	Z01-0004	L	60	Y			
						03A	MON	14:00-14:50	FSK20	B	30	Y	0539 - NABA		
								15:00-15:50	FSK20	B	30	Y			
						03B	FRI	10:00-10:50	FSK21	B	30	Y	0539 - NABA		
								11:00-11:50	FSK21	B	30	Y			
						04	WED	10:00-10:50	Z01-0005	L	60	Y	0539 - NABA		
								11:00-11:50	Z01-0005	L	60	Y			
						04A	MON	16:00-16:50	FSK23	B	30	Y	0550 - ABR		
								17:00-17:50	FSK23	B	30	Y			
						04B	THU	16:00-16:50	FSK22	B	30	Y	0550 - ABR		
								17:00-17:50	FSK22	B	30	Y			
						05	MON	10:00-10:50	Z01-0007	L	60	Y	01862 - DNAEP		
								11:00-11:50	Z01-0007	L	60	Y			
						05A	THU	10:00-10:50	FSK22	B	30	Y	01862 - DNAEP		
								11:00-11:50	FSK22	B	30	Y			
						05B	FRI	10:00-10:50	FSK20	B	30	Y	01862 - DNAEP		
								11:00-11:50	FSK20	B	30	Y			
						06	FRI	15:00-15:50	Z01-0004	L	60	Y	01862 - DNAEP		
								16:00-16:50	Z01-0004	L	60	Y			
						06A	WED	10:00-10:50	FSK22	B	30	Y	01862 - DNAEP		
								11:00-11:50	FSK22	B	30	Y			
						06B	TUE	08:00-08:50	FSK22	B	30	Y	01862 - DNAEP		
								09:00-09:50	FSK22	B	30	Y			
		1	**BCN1043**	**COMPUTER ARCHITECTURE & ORGANIZATION**											

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BCN1043**	**COMPUTER ARCHITECTURE & ORGANIZATION**	This course discusses the component, structure and function of a computer. It expose student with the architecture and organization of a computer. This subject covers on the numbering system and the representation of data, the internal and external computer communication through system buses and Input and Output, computer storage, internal architecture of Central Processing Unit, Logic Gates and Boolean Algebra. Assembly languages are expose to student for better understanding of the computer structure and component as a whole.										
					SEM 1 18/19	01	MON	10:00-10:50	Z01-0002	L	60	Y	01679 - SFBK	06/01/2019 - PM	
								11:00-11:50	Z01-0002	L	60	Y			
						01A	THU	10:00-10:50	FSK7B	B	30	Y	01679 - SFBK		
								11:00-11:50	FSK7B	B	30	Y			
						01B	TUE	10:00-10:50	FSK7B	B	30	Y	01679 - SFBK		
								11:00-11:50	FSK7B	B	30	Y			
						02	THU	14:00-14:50	Z01-0002	L	60	Y	01679 - SFBK		
								15:00-15:50	Z01-0002	L	60	Y			
						02A	MON	14:00-14:50	FSK7B	B	30	Y	01679 - SFBK		
								15:00-15:50	FSK7B	B	30	Y			
						02B	TUE	14:00-14:50	FSK7B	B	30	Y	01679 - SFBK		
								15:00-15:50	FSK7B	B	30	Y			
						03	FRI	08:00-08:50	Z01-0010	L	60	Y	2329 - MR		
								09:00-09:50	Z01-0010	L	60	Y			
						03A	MON	16:00-16:50	FSK7B	B	30	Y	2329 - MR		
								17:00-17:50	FSK7B	B	30	Y			
						03B	TUE	16:00-16:50	FSK7B	B	30	Y	2329 - MR		
								17:00-17:50	FSK7B	B	30	Y			
						04	WED	08:00-08:50	Z01-0006	L	60	Y	2329 - MR		
								09:00-09:50	Z01-0006	L	60	Y			
						04A	THU	08:00-08:50	FSK7B	B	30	Y	2329 - MR		
								09:00-09:50	FSK7B	B	30	Y			
						04B	FRI	10:00-10:50	FSK7B	B	30	Y	2329 - MR		
								11:00-11:50	FSK7B	B	30	Y			
						05	TUE	16:00-16:50	Z01-0005	L	60	Y	01868 - AFBZA		
								17:00-17:50	Z01-0005	L	60	Y			
						05A	MON	10:00-10:50	FSK7B	B	30	Y	01868 - AFBZA		
								11:00-11:50	FSK7B	B	30	Y			
						05B	FRI	15:00-15:50	FSK7B	B	30	Y	01868 - AFBZA		
								16:00-16:50	FSK7B	B	30	Y			
						06	MON	08:00-08:50	Z01-0005	L	60	Y	01868 - AFBZA		
								09:00-09:50	Z01-0005	L	60	Y			
						06A	THU	16:00-16:50	FSK7B	B	30	Y	01868 - AFBZA		
								17:00-17:50	FSK7B	B	30	Y			
						06B	THU	14:00-14:50	FSK7B	B	30	Y	01868 - AFBZA		
								15:00-15:50	FSK7B	B	30	Y			
		1	**BCN1063**	**STRUCTURED NETWORKS CABLING**											

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BCN1063**	**STRUCTURED NETWORKS CABLING**	This course introduces structured cabling for Local Area Network (LAN). Students are exposed to the fundamental of computer network, network topology, network devices and cabling tools, Copper cabling, Fiber Optic cabling, Simple LAN Device Installation, Wide Area Network Connection and network troubleshooting and documentation.										
					SEM 1 18/19	01	MON	14:00-14:50	FSK3	B	30	N	01308 - RBJ		
								15:00-15:50	FSK3	B	30	N			
							TUE	14:00-14:50	FSK3	B	30	N			
								15:00-15:50	FSK3	B	30	N			
							WED	10:00-10:50	Z01-0009	L	30	N			
						02	FRI	08:00-08:50	FSK3	B	30	N	01308 - RBJ		
								09:00-09:50	FSK3	B	30	N			
							THU	08:00-08:50	FSK3	B	30	N			
								09:00-09:50	FSK3	B	30	N			
							TUE	10:00-10:50	Z01-0006	L	30	N			
						03	FRI	15:00-15:50	Z01-0003	L	30	N	0142 - ABS		
							TUE	08:00-08:50	FSK3	B	30	N			
								09:00-09:50	FSK3	B	30	N			
							WED	08:00-08:50	FSK3	B	30	N			
								09:00-09:50	FSK3	B	30	N			
						04	FRI	15:00-15:50	FSK3	B	30	N	01308 - RBJ		
								16:00-16:50	FSK3	B	30	N			
							MON	16:00-16:50	Z01-0004	L	30	N			
							THU	16:00-16:50	FSK3	B	30	N			
								17:00-17:50	FSK3	B	30	N			
		1	**BCN2053**	**OPERATING SYSTEMS**	This subject introduces the various data and control structures necessary for the design and implementation of modern computer operating systems. Memory, Processor, File, Device and Network Management are explored as the basic of all Operating Systems.										
					SEM 1 18/19	1A	MON	10:00-10:50	FSK1	B	30	Y	TBA0001 - ES(	07/01/2019 - PM	
								11:00-11:50	FSK1	B	30	Y			
		1	**BCS1023**	**PROGRAMMING TECHNIQUES**	This course discusses on understanding problems and translating them into computer solution techniques using programming language. This course enables students to apply programming techniques, write programming codes from given problems and execute programming codes successfully.										
					SEM 1 18/19	07	WED	08:00-08:50	Z01-0008	L	60	Y	0019 - ABK	11/01/2019 - PM	
								09:00-09:50	Z01-0008	L	60	Y			
						07A	THU	16:00-16:50	FSK23	B	30	Y	2136 - THAR		
								17:00-17:50	FSK23	B	30	Y			
						07B	THU	14:00-14:50	FSK23	B	30	Y	0053 - TABAK		
								15:00-15:50	FSK23	B	30	Y			
						08	MON	16:00-16:50	Z01-0003	L	60	Y	0019 - ABK		
								17:00-17:50	Z01-0003	L	60	Y			
						08A	FRI	15:00-15:50	FSK21	B	30	Y	2136 - THAR		
								16:00-16:50	FSK21	B	30	Y			
						08B	TUE	14:00-14:50	FSK24	B	30	Y	TBA0001 - ES(		
								15:00-15:50	FSK24	B	30	Y			
		1	**BCS1033**	**SOFTWARE ENGINEERING**											

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BCS1033**	**SOFTWARE ENGINEERING**	This course presents an introduction to software engineering concepts including: software engineering paradigms, requirements specification, design, software verification and validation, software evolution and reliability.										
					SEM 1 18/19	01	TUE	10:00-10:50	Z01-0004	L	60	Y	TBA0001 - ES(	04/01/2019 - PM	
								11:00-11:50	Z01-0004	L	60	Y			
						01A	WED	10:00-10:50	FSK27	B	30	Y	TBA0001 - ES(		
								10:00-10:50	FSK27	T	30	Y			
								11:00-11:50	FSK27	B	30	Y			
								11:00-11:50	FSK27	T	30	Y			
						01B	FRI	10:00-10:50	FSK24	T	30	Y	TBA0001 - ES(		
								11:00-11:50	FSK24	T	30	Y			
						02	TUE	16:00-16:50	Z01-0002	L	60	Y	TBA0001 - ES(		
								17:00-17:50	Z01-0002	L	60	Y			
						02A	THU	16:00-16:50	FSK24	T	30	Y	TBA0001 - ES(		
								17:00-17:50	FSK24	T	30	Y			
						02B	FRI	15:00-15:50	FSK27	T	30	Y	TBA0001 - ES(		
								16:00-16:50	FSK27	T	30	Y			
						03	MON	16:00-16:50	Z01-0010	L	90	Y	TBA0001 - ES(		
								17:00-17:50	Z01-0010	L	90	Y			
						03A	THU	14:00-14:50	FSK25	T	30	Y	TBA0001 - ES(		
								15:00-15:50	FSK25	T	30	Y			
						03B	TUE	08:00-08:50	FSK26	T	30	Y	TBA0001 - ES(		
								09:00-09:50	FSK26	T	30	Y			
						04	THU	16:00-16:50	Z01-0002	L	60	Y	TBA0001 - ES(		
								17:00-17:50	Z01-0002	L	60	Y			
						04A	MON	08:00-08:50	FSK26	T	30	Y	TBA0001 - ES(		
								09:00-09:50	FSK26	T	30	Y			
						04B	TUE	08:00-08:50	FSK26	T	30	Y	TBA0001 - ES(		
								09:00-09:50	FSK26	T	30	Y			
		1	**BCS1133**	**SYSTEMS ANALYSIS & DESIGN**	This course describes the concepts and methods of information system analysis and design, with an emphasis on system analysis methods and tools. The course focuses on the issues and management technique involved in analysis, design and implementation of information system										
					SEM 1 18/19	01	WED	10:00-10:50	Z01-0003	L	60	Y	0052 - RBAH	06/01/2019 - AM	
								11:00-11:50	Z01-0003	L	60	Y			
						02	TUE	14:00-14:50	Z01-0002	L	60	Y	0063 - ABA		
								15:00-15:50	Z01-0002	L	60	Y			
						1A	MON	16:00-16:50	FSK25	B	30	Y	0052 - RBAH		
								17:00-17:50	FSK25	B	30	Y			
						1B	TUE	16:00-16:50	FSK25	B	30	Y	0052 - RBAH		
								17:00-17:50	FSK25	B	30	Y			
						2A	THU	16:00-16:50	FSK27	B	30	Y	0063 - ABA		
								17:00-17:50	FSK27	B	30	Y			
						2B	MON	08:00-08:50	FSK25	B	30	Y	0063 - ABA		
								09:00-09:50	FSK25	B	30	Y			
		2	**BCI2023**	**DATABASE SYSTEMS**											

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE	2	**BCI2023**	**DATABASE SYSTEMS**	The course emphasizes on the importance of data to an organization and how the data should be managed. Database management system (DBMS) will be viewed as a solution to the problems of file processing system. Aspects of relational database design will be covered in details. This includes database development life cycle, database architecture, data models, and normalization process. Several query languages such as relational algebra and Structured Query Language (SQL) will be discussed, but the emphasis is on SQL. Students will be given a real life problem to design and develop a database application system. In the later part of the course students will be exposed to the latest developments in database architecture.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	WED	08:00-08:50	Z01-0007	L	60	Y	0120 - NBA	04/01/2019 - AM	
			09:00-09:50	Z01-0007	L	60	Y			
	01A	THU	08:00-08:50	FSK21	B	30	Y	0120 - NBA		
			09:00-09:50	FSK21	B	30	Y			
	01B	FRI	08:00-08:50	FSK21	B	30	Y	01842 - NSABZ		
			09:00-09:50	FSK21	B	30	Y			
	02	MON	14:00-14:50	Z01-0008	L	60	Y	01746 - MABI		
			15:00-15:50	Z01-0008	L	60	Y			
	02A	TUE	14:00-14:50	FSK21	B	30	Y	01746 - MABI		
			15:00-15:50	FSK21	B	30	Y			
	02B	THU	14:00-14:50	FSK21	B	30	Y	01842 - NSABZ		
			15:00-15:50	FSK21	B	30	Y			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		2	**BCM2053**	**COMPUTER GRAPHICS**	This course is designed to expose the student to the concept of digital graphic technology. This includes understanding and designing aspects by using a computer graphics application. The student will be exposed to the skill of using a computer graphics application. Through this course, the students will expose to explore on the latest graphics design context which will focus on the `graphic thinking' and `creative design process'.	ELECTIVE FOR BCN & BCG

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	TUE	14:00-14:50	Z01-0010	L	90	Y	2331 - MMA	12/01/2019 - PM	
			15:00-15:50	Z01-0010	L	90	Y			
	01A	THU	16:00-16:50	FSK15	B	30	Y	2331 - MMA		
			17:00-17:50	FSK15	B	30	Y			
	01B	MON	08:00-08:50	FSK15	B	30	Y	2331 - MMA		
			09:00-09:50	FSK15	B	30	Y			
	01C	FRI	10:00-10:50	FSK15	B	30	Y	2331 - MMA		
			11:00-11:50	FSK15	B	30	Y			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		2	**BCN1053**	**DATA COMMUNICATION & NETWORKING**	This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	MON	08:00-08:50	Z01-0002	L	30	Y	2287 - MSA	11/01/2019 - AM	
			09:00-09:50	Z01-0002	L	30	Y			
	01A	TUE	08:00-08:50	FSK2	B	30	Y	2287 - MSA		
			09:00-09:50	FSK2	B	30	Y			

Campus	Level	Year	Code	Course Name
		2	**BCN2083**	**COMPUTER NETWORKS**

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE	2	**BCN2083**	**COMPUTER NETWORKS**	The primary focus of this course is on LAN redundancy and dynamic routing. This course focuses on switching and routing protocols and concepts used to improve redundancy, propagate information, and secure the portion of the network where most users access network services. Switching technologies are relatively straightforward to implement; however, as with routing, the underlying protocols and algorithms are often quite complicated. This course will go to great lengths to explain the underlying processes of the common Layer 2 and layer 3 technologies. Each concept will be introduced within the context of a single topology for each chapter.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	THU	10:00-10:50	Z01-0004	L	30	Y	0198 - SBN	05/01/2019 - PM	BCN1053
			11:00-11:50	Z01-0004	L	30	Y			
	01A	WED	10:00-10:50	FSK2	B	30	Y	0198 - SBN		
			11:00-11:50	FSK2	B	30	Y			
			12:00-12:50	FSK2	B	30	Y			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		2	**BCN2193**	**NETWORK TECHNOLOGIES**	This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv2, virtual LANs, inter-VLAN routing, static routing, ACL, DHCP, NAT and Device Discovery, Management and Maintanance in both IPv4 and IPv6 networks.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	TUE	16:00-16:50	Z01-0004	L	60	Y	1986 - LB	05/01/2019 - PM	BCN1053
			17:00-17:50	Z01-0004	L	60	Y			
	01A	TUE	10:00-10:50	FSK11	B	30	Y	0198 - SBN		
			11:00-11:50	FSK11	B	30	Y			
			12:00-12:50	FSK11	B	30	Y			
	01B	THU	10:00-10:50	FSK11	B	30	Y	1986 - LB		
			11:00-11:50	FSK11	B	30	Y			
			12:00-12:50	FSK11	B	30	Y			
	02	MON	10:00-10:50	Z01-0003	L	60	Y	0080 - MFBZ		
			11:00-11:50	Z01-0003	L	60	Y	1986 - LB		
	02A	MON	14:00-14:50	FSK11	B	30	Y	1986 - LB		
			15:00-15:50	FSK11	B	30	Y			
			16:00-16:50	FSK11	B	30	Y			
	02B	FRI	08:00-08:50	FSK11	B	30	Y	0080 - MFBZ		
			09:00-09:50	FSK11	B	30	Y			
			10:00-10:50	FSK11	B	30	Y			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
		2	**BCN3133**	**COMPUTER ETHICS & POLICIES**	This course introduces an overview of how computers have affected the society and how will it affect it in the future by raising different ethical issues. Student will learn how to examine various ethical issues related to computer use. These will include piracy, hacking, viruses, responsibility and liability for the use of software, cyberporn, computerized invasion of privacy, computers in the workplace, and the protection of intellectual properties. This course will also consider many of the moral and professional issues that those who work with computers might encounter in the real life.	CORE PROGRAM FOR BCN, ELECTIVE FOR BCG & BCS

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	TUE	08:00-08:50	Z01-0010	L	90	Y	2148 - MAR	11/01/2019 - PM	
			09:00-09:50	Z01-0010	L	90	Y			
		WED	12:00-12:50	Z01-0010	L	90	Y			

Campus	Level	Year	Code	Course Name
		2	**BCS2143**	**OBJECT ORIENTED PROGRAMMING**

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark: Pre-Requisite
GAMBANG	DEGREE	2	**BCS2143**	**OBJECT ORIENTED PROGRAMMING**	This course provides an introduction to the concepts of object orientation and object-oriented programming (OOP) techniques using any object-oriented programming language such as JAVA. It will emphasize on the use of OOP characteristic that expose students to Unified Modelling Language (UML) design, class and object, inheritance, polymorphism, exception handling and Graphical User Interface (GUI) and event driven programming.											
						SEM 1 18/19	01	WED	08:00-08:50	Z01-0005	L	60	Y	01195 - MHBMH	09/01/2019 - AM	BCS1023
									09:00-09:50	Z01-0005	L	60	Y			BCI1023
							01A	THU	08:00-08:50	FSK22	B	30	Y	01195 - MHBMH		
									09:00-09:50	FSK22	B	30	Y			
							01B	FRI	08:00-08:50	FSK22	B	30	Y	01195 - MHBMH		
									09:00-09:50	FSK22	B	30	Y			
							02	MON	14:00-14:50	Z01-0010	L	60	Y	0025 - RBM		
									15:00-15:50	Z01-0010	L	60	Y	01195 - MHBMH		
							02A	TUE	14:00-14:50	FSK22	B	30	Y	01195 - MHBMH		
									15:00-15:50	FSK22	B	30	Y			
							02B	MON	10:00-10:50	FSK24	B	30	Y	0025 - RBM		
									11:00-11:50	FSK24	B	30	Y			
							03	MON	10:00-10:50	Z01-0005	L	60	Y	01842 - NSABZ		
									11:00-11:50	Z01-0005	L	60	Y			
							03A	THU	16:00-16:50	FSK20	B	30	Y	01842 - NSABZ		
									17:00-17:50	FSK20	B	30	Y			
							03B	TUE	14:00-14:50	FSK20	B	30	Y	2015 - AAMA		
									15:00-15:50	FSK20	B	30	Y			
							04	THU	08:00-08:50	Z01-0005	L	60	Y	2349 - V M		
									09:00-09:50	Z01-0005	L	60	Y			
							04A	FRI	10:00-10:50	FSK22	B	30	Y	TBA0001 - ES(		
									11:00-11:50	FSK22	B	30	Y			
							04B	TUE	10:00-10:50	FSK21	B	30	Y	01842 - NSABZ		
									11:00-11:50	FSK21	B	30	Y			
							05	FRI	15:00-15:50	Z01-0002	L	60	Y	TBA0001 - ES(		
									16:00-16:50	Z01-0002	L	60	Y			
							05A	MON	16:00-16:50	FSK20	B	30	Y	TBA0001 - ES(		
									17:00-17:50	FSK20	B	30	Y			
							05B	TUE	16:00-16:50	FSK21	B	30	Y	TBA0001 - ES(		
									17:00-17:50	FSK21	B	30	Y			
		2	**BCS2213**	**FORMAL METHOD**												

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE	2	**BCS2213**	**FORMAL METHOD**	This course introduces Formal Methods, which can be used in developing software specifications. Formal Methods is the software specification technique that is used to ensure the software or system to be developed is being validated before it is actually developed. Therefore any bugs can be detected at early stage in order to reduce the cost of the development. Formal Methods are introduced in formal notations using appropriate techniques, methods and tools.	ELECTIVE FOR BCN & BCG

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	MON	10:00-10:50	Z01-0010	L	60	Y	TBA0001 - ES(	05/01/2019 - AM	
			11:00-11:50	Z01-0010	L	60	Y			
	01A	TUE	08:00-08:50	FSK25	B	30	Y	TBA0001 - ES(		
			09:00-09:50	FSK25	B	30	Y			
	01B	WED	08:00-08:50	FSK25	B	30	Y	TBA0001 - ES(		
			09:00-09:50	FSK25	B	30	Y			
	02	THU	10:00-10:50	Z01-0002	L	60	Y	TBA0001 - ES(		
			11:00-11:50	Z01-0002	L	60	Y			
	02A	MON	14:00-14:50	FSK26	B	30	Y	TBA0001 - ES(		
			15:00-15:50	FSK26	B	30	Y			
	02B	FRI	15:00-15:50	FSK27	B	30	Y	TBA0001 - ES(		
			16:00-16:50	FSK27	B	30	Y			
	03	MON	16:00-16:50	Z01-0005	L	60	Y	TBA0001 - ES(		
			17:00-17:50	Z01-0005	L	60	Y			
	03A	TUE	16:00-16:50	FSK27	B	30	Y	TBA0001 - ES(		
			17:00-17:50	FSK27	B	30	Y			
	03B	FRI	10:00-10:50	FSK26	B	30	Y	TBA0001 - ES(		
			11:00-11:50	FSK26	B	30	Y			

Year	Code	Course Name
2	**BCS2233**	**SOFTWARE REQUIREMENT WORKSHOP**

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BCS2233**	**SOFTWARE REQUIREMENT WORKSHOP**	This course exposes the student to software requirement stages. It will concentrate on discovering and eliciting requirements techniques, languages and models for representing requirements, requirement documentation standard, handling requirement changes and writing Software Requirement Specifications (SRS) customize from any standard.										
					SEM 1 18/19	01	MON	10:00-10:50	FSK28	B	30	N	0044 - RBAB		BCS1133
								11:00-11:50	FSK28	B	30	N			
								12:00-12:50	FSK28	B	30	N			
							WED	10:00-10:50	FSK28	B	30	N			
								11:00-11:50	FSK28	B	30	N			
								12:00-12:50	FSK28	B	30	N			
						02	FRI	10:00-10:50	FSK28	B	30	N	0052 - RBAH		
								11:00-11:50	FSK28	B	30	N			
								12:00-12:50	FSK28	B	30	N			
							TUE	10:00-10:50	FSK28	B	30	N			
								11:00-11:50	FSK28	B	30	N			
								12:00-12:50	FSK28	B	30	N			
						03	MON	14:00-14:50	FSK28	B	30	N	0044 - RBAB		
								15:00-15:50	FSK28	B	30	N			
								16:00-16:50	FSK28	B	30	N			
							THU	14:00-14:50	FSK28	B	30	N			
								15:00-15:50	FSK28	B	30	N			
								16:00-16:50	FSK28	B	30	N			
						04	THU	08:00-08:50	FSK28	B	30	N	0549 - FBZ		
								09:00-09:50	FSK28	B	30	N			
								10:00-10:50	FSK28	B	30	N			
							TUE	14:00-14:50	FSK28	B	30	N			
								15:00-15:50	FSK28	B	30	N			
								16:00-16:50	FSK28	B	30	N			
						05	MON	08:00-08:50	FSK27	B	30	N	0549 - FBZ		
								09:00-09:50	FSK27	B	30	N			
								10:00-10:50	FSK27	B	30	N			
								15:00-15:50	FSK27	B	30	N			
								16:00-16:50	FSK27	B	30	N			
								17:00-17:50	FSK27	B	30	N			
		2	**BCS2313**	**ARTIFICIAL INTELLIGENCE TECHNIQUES**	This course introduces student to the theory and practice of the Artificial Intelligence (AI). Student are expose to the main artificial intelligence topics including the fundamental issues, search trategies, knowledge representation and reasoning, advanced search, agents, machine learning and robotics. Practical examples of how artificial intelligence is applied to commercial, scientific and consumer applications will be covered.										ELECTIVE FOR BCN & BCG
					SEM 1 18/19	01	TUE	10:00-10:50	Z01-0005	L	60	Y	0595 - ASBF	08/01/2019 - AM	
								11:00-11:50	Z01-0005	L	60	Y			
						01A	THU	16:00-16:50	FSK26	B	30	Y	0595 - ASBF		
								17:00-17:50	FSK26	B	30	Y			
						01B	FRI	08:00-08:50	FSK26	B	30	Y	0595 - ASBF		
								09:00-09:50	FSK26	B	30	Y			
		2	**BCS2343**	**SOFTWARE DESIGN WORKSHOP**											

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BCS2343**	**SOFTWARE DESIGN WORKSHOP**	This course introduces the students how to develop software development documents ¿Software Design Description (SDD) and their system development process. Continue from previous project/problems , students must produce Software Design Description document follow certains standards.										
					SEM 1 18/19	01	MON	10:00-10:50	FSK15	B	30	N	01770 - ABMA		BCS2333 BCS2233
								11:00-11:50	FSK15	B	30	N			
								12:00-12:50	FSK15	B	30	N			
							WED	10:00-10:50	FSK25	B	30	N			
								11:00-11:50	FSK25	B	30	N			
								12:00-12:50	FSK25	B	30	N			
		3	**BCI2313**	**ALGORITHM & COMPLEXITY**	Algorithm design and analysis is a fundamental and important part of computer science. This course introduces students to advanced techniques for the design and analysis of algorithms and explorers a variety of applications.										
					SEM 1 18/19	01	MON	16:00-16:50	Z01-0002	L	60	N	01840 - MFBD		BCI1093 BCI1023 BCS1093
								17:00-17:50	Z01-0002	L	60	N			
						01A	TUE	16:00-16:50	FSK22	B	30	N	01840 - MFBD		
								17:00-17:50	FSK22	B	30	N			
						01B	THU	16:00-16:50	FSK21	B	30	N	01840 - MFBD		
								17:00-17:50	FSK21	B	30	N			
						02	TUE	10:00-10:50	Z01-0002	L	60	N	01840 - MFBD		
								11:00-11:50	Z01-0002	L	60	N			
						02A	MON	10:00-10:50	FSK21	B	30	N	01840 - MFBD		
								11:00-11:50	FSK21	B	30	N			
						02B	WED	10:00-10:50	FSK23	B	30	N	01889 - RBS		
								11:00-11:50	FSK23	B	30	N			
						03	WED	08:00-08:50	Z01-0009	L	60	N	01889 - RBS		
								09:00-09:50	Z01-0009	L	60	N			
						03A	THU	08:00-08:50	FSK20	B	30	N	01889 - RBS		
								09:00-09:50	FSK20	B	30	N			
						03B	FRI	15:00-15:50	FSK20	B	30	N	01889 - RBS		
								16:00-16:50	FSK20	B	30	N			
		3	**BCI3913**	**STRUCTURED QUERY LANGUAGE**	Understanding the basic concepts of relational databases ensure refined code by developers. This course helps the participants to write subqueries, combine multiple queries into a single query using SET operators and report aggregated data using group functions. Controlling privileges at the object and system level are also dealt with in detail. This course covers creating indexes and constraints, and altering existing schema objects. Additionally, participants learn how to create and query external tables. In order to query and manipulate data within the database, to use the dictionary views to retrieve metadata and create reports about their schema objects, participants get to understand the advanced features of SQL. Some of the date-time functions available in the Oracle Database are also covered. This course also discusses how to use the regular expression support in SQL.										ELECTIVE FOR ALL PROGRAM
					SEM 1 18/19	01	TUE	08:00-08:50	Z01-0008	L	60	Y	0010 - RBAA	06/01/2019 - PM	BCI2023
								09:00-09:50	Z01-0008	L	60	Y			
						01A	THU	08:00-08:50	FSK23	B	30	Y	0010 - RBAA		
								09:00-09:50	FSK23	B	30	Y			
						01B	TUE	16:00-16:50	FSK23	B	30	Y	0010 - RBAA		
								17:00-17:50	FSK23	B	30	Y			
		3	**BCM2063**	**IMAGE PROCESSING**	This course discusses about the processing of digital images. The techniques covers are reading image enhance the image quality and manipulate the image. Several image processing methods will be touch in										CORE PROGRAM FOR BCG, ELECTIVE FOR BCS & BCN ONLY

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BCM2063**	**IMAGE PROCESSING**	this course. Programming skill and creativity is a required whereby students are compulsory to do one related mini project in order to complete this course.										
					SEM 1 18/19	01	MON	14:00-14:50	Z01-0002	L	60	Y	2309 - FE	10/01/2019 - AM	
								15:00-15:50	Z01-0002	L	60	Y			
						01A	WED	10:00-10:50	FSK15	B	30	Y	2309 - FE		
								11:00-11:50	FSK15	B	30	Y			
						01B	THU	10:00-10:50	FSK15	B	30	Y	2309 - FE		
								11:00-11:50	FSK15	B	30	Y			
		3	**BCM3103**	**VIRTUAL REALITY**	This module introduces the concepts of virtual reality and enables the students to gain hands-on experience by developing their own virtual reality applications. The student will learn about the virtual reality architecture, devices, modeling, augmented reality and applications of virtual reality in various fields.										
					SEM 1 18/19	01	THU	14:00-14:50	Z01-0005	L	90	Y	2136 - THAR	13/01/2019 - AM	
								15:00-15:50	Z01-0005	L	90	Y			
						01A	MON	14:00-14:50	FSK19	B	30	Y	2136 - THAR		
								15:00-15:50	FSK19	B	30	Y			
						01B	TUE	14:00-14:50	FSK19	B	30	Y	2136 - THAR		
								15:00-15:50	FSK19	B	30	Y			
						01C	FRI	08:00-08:50	FSK19	B	30	Y	TBA0001 - ES(		
								09:00-09:50	FSK19	B	30	Y			
		3	**BCM3123**	**DATA VISUALIZATION**	Topics include the introduction to data visualization. It focuses on the visualization techniques and method that have a broad applicability in visualization applications. This course also covers the dataset concept by describing the most frequently used types of datasets in visualization. Students will be exposed to the various data processing stages that form the visualization process: data acquisition, data filtering, data mapping and rendering.										
					SEM 1 18/19	01	TUE	08:00-08:50	Z01-0006	L	60	Y	0064 - ABA	12/01/2019 - AM	
								09:00-09:50	Z01-0006	L	60	Y			
						01A	WED	08:00-08:50	FSK14	B	30	Y	0064 - ABA		
								09:00-09:50	FSK14	B	30	Y			
						01B	FRI	08:00-08:50	FSK14	B	30	Y	0064 - ABA		
								09:00-09:50	FSK14	B	30	Y			
		3	**BCN2023**	**DATA & NETWORK SECURITY**											

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BCN2023**	**DATA & NETWORK SECURITY**	The course introduces fundamental of data and network security. Course's chapters explain information security concepts, fundamentals, purposes, implementation and discussion in their respective areas related to data and network security. Topics include: foundational concepts in security, principles of secure design ,threats and attacks, malware, cryptographic tools, network securing, and intrusion detection and prevention systems.										
					SEM 1 18/19	01	MON	14:00-14:50	Z01-0004	L	60	Y	0153 - N@KBMN	10/01/2019 - PM	
								15:00-15:50	Z01-0004	L	60	Y			
						01A	THU	14:00-14:50	FSK11	B	30	Y	0153 - N@KBMN		
								15:00-15:50	FSK11	B	30	Y			
						01B	TUE	16:00-16:50	FSK12	B	30	Y	0153 - N@KBMN		
								17:00-17:50	FSK12	B	30	Y			
						02	MON	10:00-10:50	Z01-0006	L	60	Y	0153 - N@KBMN		
								11:00-11:50	Z01-0006	L	60	Y			
						02A	FRI	15:00-15:50	FSK11	B	30	Y	0153 - N@KBMN		
								16:00-16:50	FSK11	B	30	Y			
						02B	WED	10:00-10:50	FSK11	B	30	Y	0153 - N@KBMN		
								11:00-11:50	FSK11	B	30	Y			
						03	MON	08:00-08:50	Z01-0003	L	60	Y	2329 - MR		
								09:00-09:50	Z01-0003	L	60	Y			
						03A	TUE	08:00-08:50	FSK11	B	30	Y	2329 - MR		
								09:00-09:50	FSK11	B	30	Y			
						03B	WED	08:00-08:50	FSK11	B	30	Y	2329 - MR		
								09:00-09:50	FSK11	B	30	Y			
		3	**BCN2093**	**NETWORK ANALYSIS & DESIGN**	This course focuses on analysis and design of enterprise networks that are reliable, secure and manageable. It includes top-down network design methodology to design networks that meet customer¿s business and technical goals, analyzationof business and technical requirements, examine traffic flow and Quality of Service (QoS) requirements, and production of RFP documentation with relevant procedure steps for case study/project to fulfil this subject requirement.										
					SEM 1 18/19	01	MON	14:00-14:50	Z01-0005	L	60	Y	0121 - JBS	04/01/2019 - AM	
								15:00-15:50	Z01-0005	L	60	Y			
						01A	WED	10:00-10:50	FSK12	B	30	Y	0121 - JBS		
								11:00-11:50	FSK12	B	30	Y			
						01B	TUE	14:00-14:50	FSK12	B	30	Y	0121 - JBS		
								15:00-15:50	FSK12	B	30	Y			
						02	TUE	10:00-10:50	Z01-0003	L	60	Y	0121 - JBS		
								11:00-11:50	Z01-0003	L	60	Y			
						02A	FRI	10:00-10:50	FSK12	B	30	Y	0121 - JBS		
								11:00-11:50	FSK12	B	30	Y			
						02B	THU	08:00-08:50	FSK1	B	30	Y	0121 - JBS		
								09:00-09:50	FSK1	B	30	Y			
		3	**BCN3023**	**NETWORK MANAGEMENT**											

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BCN3023**	**NETWORK MANAGEMENT**	This course introduces the overview of network management to familiarize student with network management systems and the five areas of network management. Student will learn a practical means of desigining and evaluating a network management system for particular networking environment. Student also equipped with the example of simple, complex and advanced tools for each category of network management so that they could determine that a particular functionality would be useful and might want to pursue its development.										
					SEM 1 18/19	01	FRI	08:00-08:50	Z01-0005	L	60	Y	0121 - JBS	09/01/2019 - PM	
								09:00-09:50	Z01-0005	L	60	Y			
						1A	MON	08:00-08:50	FSK2	B	30	Y	0121 - JBS		
								09:00-09:50	FSK2	B	30	Y			
						1B	TUE	14:00-14:50	FSK2	B	30	Y	0015 - CYBY		
								15:00-15:50	FSK2	B	30	Y			
		3	**BCN3043**	**NETWORK SERVICE ADMINISTRATION**											
					SEM 1 18/19	01	WED	08:00-08:50	Z01-0002	L	60	Y	TBA0001 - ES(	06/01/2019 - AM	
								09:00-09:50	Z01-0002	L	60	Y			
						01A	MON	10:00-10:50	FSK12	B	30	Y	TBA0001 - ES(		
								11:00-11:50	FSK12	B	30	Y			
						01B	THU	10:00-10:50	FSK12	B	30	Y	TBA0001 - ES(		
								11:00-11:50	FSK12	B	30	Y			
						02	FRI	15:00-15:50	Z01-0005	L	60	Y	TBA0001 - ES(		
								16:00-16:50	Z01-0005	L	60	Y			
						02A	THU	16:00-16:50	FSK12	B	30	Y	TBA0001 - ES(		
								17:00-17:50	FSK12	B	30	Y			
						02B	MON	14:00-14:50	FSK12	B	30	Y	TBA0001 - ES(		
								15:00-15:50	FSK12	B	30	Y			
		3	**BCN3063**	**DISTRIBUTED & PARALLEL COMPUTING**											
					SEM 1 18/19	01	WED	10:00-10:50	Z01-0006	L	30	Y	TBA0001 - ES(	03/01/2019 - AM	BCN1053 BCN2053
								11:00-11:50	Z01-0006	L	30	Y			
						01A	MON	10:00-10:50	FSK2	B	30	Y	TBA0001 - ES(		
								11:00-11:50	FSK2	B	30	Y			
		3	**BCN3113**	**ETHICAL HACKING**	This course will immerse the student into an interactive environment where they will be shown how to scan, test, hack and secure their own systems. The lab intensive environment gives each student in-depth knowledge and practical experience with the current essential security systems. Students will begin by understanding how perimeter defenses work and then be lead into scanning and attacking their own networks, no real network is harmed. Students then learn how intruders escalate privileges and what steps can be taken to secure a system.										ELECTIVE FOR ALL PROGRAM
					SEM 1 18/19	01	WED	10:00-10:50	Z01-0007	L	60	Y	2122 - AAA	13/01/2019 - PM	
								11:00-11:50	Z01-0007	L	60	Y			
						01A	TUE	11:00-11:50	FSK12	B	30	Y	2122 - AAA		
								12:00-12:50	FSK12	B	30	Y			
						01B	FRI	08:00-08:50	FSK12	B	30	Y	2122 - AAA		
								09:00-09:50	FSK12	B	30	Y			
		3	**BCN3203**	**WAN TECHNOLOGY**											

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BCN3203**	**WAN TECHNOLOGY**	This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students also develop the knowledge and skills needed to implement IPSec and virtual private network (VPN) operations in a complex network											
						SEM 1 18/19	01	MON	10:00-10:50	Z01-0008	L	60	Y	01445 - IEBK	07/01/2019 - AM	BCN1053
									11:00-11:50	Z01-0008	L	60	Y			
							01A	TUE	10:00-10:50	FSK2	B	30	Y	01445 - IEBK		
									11:00-11:50	FSK2	B	30	Y			
									12:00-12:50	FSK2	B	30	Y			
							01B	FRI	10:00-10:50	FSK2	B	30	Y	01445 - IEBK		
									11:00-11:50	FSK2	B	30	Y			
									12:00-12:50	FSK2	B	30	Y			
							02	MON	14:00-14:50	Z01-0006	L	60	Y	TBA0001 - ES(		
									15:00-15:50	Z01-0006	L	60	Y			
							02A	TUE	14:00-14:50	FSK11	B	30	Y	TBA0001 - ES(		
									15:00-15:50	FSK11	B	30	Y			
									16:00-16:50	FSK11	B	30	Y			
							02B	THU	14:00-14:50	FSK2	B	30	Y	TBA0001 - ES(		
									15:00-15:50	FSK2	B	30	Y			
									16:00-16:50	FSK2	B	30	Y			
		3	**BCS2173**	**HUMAN COMPUTER INTERACTION**	This course provides an introduction to Human-Computer Interaction (HCI). HCI is concerned with understanding, designing, implementing and evaluating user-interfaces so that the students have better support users in carrying out their tasks. On completing this course, the students will have knowledge of the theoretical foundations of designing for interaction between humans and computers. They will also have practical experience in implementing and evaluating graphical user interfaces.											ELECTIVE FOR BCN ONLY
						SEM 1 18/19	01	THU	10:00-10:50	Z01-0005	L	60	Y	0043 - MBAM	07/01/2019 - AM	
									11:00-11:50	Z01-0005	L	60	Y			
							01A	MON	10:00-10:50	FSK26	B	30	Y	0043 - MBAM		
									11:00-11:50	FSK26	B	30	Y			
							01B	TUE	10:00-10:50	FSK25	B	30	Y	0043 - MBAM		
									11:00-11:50	FSK25	B	30	Y			
							02	TUE	16:00-16:50	Z01-0007	L	60	Y	0043 - MBAM		
									17:00-17:50	Z01-0007	L	60	Y			
							02A	THU	16:00-16:50	FSK25	B	30	Y	0043 - MBAM		
									17:00-17:50	FSK25	B	30	Y			
							02B	FRI	15:00-15:50	FSK25	B	30	Y	0043 - MBAM		
									16:00-16:50	FSK25	B	30	Y			
							03	TUE	08:00-08:50	Z01-0003	L	60	Y	0543 - RBMS		
									09:00-09:50	Z01-0003	L	60	Y			
							03A	FRI	10:00-10:50	FSK25	B	30	Y	0543 - RBMS		
									11:00-11:50	FSK25	B	30	Y			
							03B	THU	08:00-08:50	FSK25	B	30	Y	0543 - RBMS		
									09:00-09:50	FSK25	B	30	Y			
							04	WED	08:00-08:50	Z01-0004	L	60	Y	0543 - RBMS		
									09:00-09:50	Z01-0004	L	60	Y			
							04A	MON	14:00-14:50	FSK25	B	30	Y	0543 - RBMS		
									15:00-15:50	FSK25	B	30	Y			
							04B	FRI	08:00-08:50	FSK25	B	30	Y	0543 - RBMS		
									09:00-09:50	FSK25	B	30	Y			
		3	**BCS3233**	**SOFTWARE TESTING**												

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BCS3233**	**SOFTWARE TESTING**											
					SEM 1 18/19	01	THU	08:00-08:50	Z01-0002	L	60	Y	TBA0001 - ES(	07/01/2019 - PM	BCS1033
								09:00-09:50	Z01-0002	L	60	Y			BCS1133
						01A	TUE	08:00-08:50	FSK27	B	30	Y	TBA0001 - ES(		
								09:00-09:50	FSK27	B	30	Y			
						01B	WED	08:00-08:50	FSK27	B	30	Y	TBA0001 - ES(		
								09:00-09:50	FSK27	B	30	Y			
						02	WED	10:00-10:50	Z01-0010	L	60	Y	TBA0001 - ES(		
								11:00-11:50	Z01-0010	L	60	Y			
						02A	TUE	14:00-14:50	FSK27	B	30	Y	TBA0001 - ES(		
								15:00-15:50	FSK27	B	30	Y			
						02B	THU	14:00-14:50	FSK26	B	30	Y	TBA0001 - ES(		
								15:00-15:50	FSK26	B	30	Y			
						03	FRI	15:00-15:50	Z01-0007	L	60	Y	TBA0001 - ES(		
								16:00-16:50	Z01-0007	L	60	Y			
						03A	MON	16:00-16:50	FSK26	B	30	Y	TBA0001 - ES(		
								17:00-17:50	FSK26	B	30	Y			
						03B	TUE	10:00-10:50	FSK27	B	30	Y	TBA0001 - ES(		
								11:00-11:50	FSK27	B	30	Y			
		3	**BCS3263**	**SOFTWARE QUALITY ASSURANCE**	This course introduces students to the Software Quality Assurance (SQA) Processes, models, standards, metrics, and techniques for developing quality software, for assessing software quality, and for maintaining the quality of software. Students will be able to understand the relationship between software quality assurance and software engineering. It allows students to learn how to plan for the SQA process in early stage of of software project and develop a complete SQA plan as a guidline for the team members who will work on the SQA process.										
					SEM 1 18/19	01	MON	16:00-16:50	Z01-0007	L	60	Y	2277 - MAA	04/01/2019 - AM	BCS1133
								17:00-17:50	Z01-0007	L	60	Y			
						01A	FRI	15:00-15:50	FSK26	B	30	Y	2277 - MAA		
								16:00-16:50	FSK26	B	30	Y			
						01B	TUE	14:00-14:50	FSK25	B	30	Y	2277 - MAA		
								15:00-15:50	FSK25	B	30	Y			
						02	WED	10:00-10:50	Z01-0008	L	60	Y	TBA0001 - ES(		
								11:00-11:50	Z01-0008	L	60	Y			
						02A	THU	10:00-10:50	FSK25	B	30	Y	TBA0001 - ES(		
								11:00-11:50	FSK25	B	30	Y			
						02B	FRI	10:00-10:50	FSK27	B	30	Y	TBA0001 - ES(		
								11:00-11:50	FSK27	B	30	Y			
		3	**BCS3293**	**SOFTWARE CONFIGURATION MANAGEMENT**	This course introduces Software configuration Management tool which has critical impact on the software quality. The course presents the principal concepts of SCM. It comprises the core activities to implement SCM along with the software development life cycle phases. It enables understanding of how SCM functions as a controlling tool to track and implement changes to existing documentation and software product components, and how to set a configuartion plan that describes all the work in the SCM process.										
					SEM 1 18/19	01	TUE	08:00-08:50	Z01-0004	L	60	Y	2273 - HKK	05/01/2019 - PM	BCS1133
								09:00-09:50	Z01-0004	L	60	Y			
						01	TUE	14:00-14:50	FSK5	B	60	Y	TBA		
								15:00-15:50	FSK5	B	60	Y			
						01A	TUE	14:00-14:50	FSK26	B	30	Y	2273 - HKK		
								15:00-15:50	FSK26	B	30	Y			
						01B	TUE	16:00-16:50	FSK26	B	30	Y	2273 - HKK		
								17:00-17:50	FSK26	B	30	Y			

Universiti Malaysia PAHANG
Engineering • Technology • Creativity

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BCI1093**	**DATA STRUCTURE & ALGORITHMS**	This course is designed to expose the students to the data structures and algorithm. It provide theoretical basis in data structures and the application of data structures is based on standard algorithms. Students must also be able to transform the data structure and algorithms problems into the computer programs.										
					SEM 1 18/19	01	MON	08:00-08:50	Z01-0010	L	60	Y	0544 - JBS	08/01/2019 - PM	BCI1023
								09:00-09:50	Z01-0010	L	60	Y			BCS1023
						01A	TUE	08:00-08:50	FSK20	B	30	Y	0544 - JBS		
								09:00-09:50	FSK20	B	30	Y			
						01B	WED	08:00-08:50	FSK20	B	30	Y	0544 - JBS		
								09:00-09:50	FSK20	B	30	Y			
						02	TUE	10:00-10:50	Z01-0010	L	60	Y	0544 - JBS		
								11:00-11:50	Z01-0010	L	60	Y			
						02A	WED	10:00-10:50	FSK20	B	30	Y	0544 - JBS		
								11:00-11:50	FSK20	B	30	Y			
						02B	THU	10:00-10:50	FSK23	B	30	Y	01100 - ZRBMA		
								11:00-11:50	FSK23	B	30	Y			
						03	TUE	08:00-08:50	Z01-0002	L	60	Y	0132 - MABM@H		
								09:00-09:50	Z01-0002	L	60	Y			
						03A	MON	08:00-08:50	FSK20	B	30	Y	0132 - MABM@H		
								09:00-09:50	FSK20	B	30	Y			
						03B	THU	10:00-10:50	FSK20	B	30	Y	0132 - MABM@H		
								11:00-11:50	FSK20	B	30	Y			
						04	THU	08:00-08:50	Z01-0008	L	60	Y	0132 - MABM@H		
								09:00-09:50	Z01-0008	L	60	Y			
						04A	TUE	10:00-10:50	FSK20	B	30	Y	0132 - MABM@H		
								11:00-11:50	FSK20	B	30	Y			
						04B	FRI	08:00-08:50	FSK20	B	30	Y	01801 - KAM		
								09:00-09:50	FSK20	B	30	Y			
						05	THU	14:00-14:50	Z01-0003	L	60	Y	01801 - KAM		
								15:00-15:50	Z01-0003	L	60	Y			
						05A	MON	16:00-16:50	FSK22	B	30	Y	01801 - KAM		
								17:00-17:50	FSK22	B	30	Y			
						05B	TUE	16:00-16:50	FSK20	B	30	Y	0027 - ZBM		
								17:00-17:50	FSK20	B	30	Y			
						06	FRI	08:00-08:50	Z01-0003	L	60	Y	0027 - ZBM		
								09:00-09:50	Z01-0003	L	60	Y			
						06A	MON	14:00-14:50	FSK24	B	30	Y	2309 - FE		
								15:00-15:50	FSK24	B	30	Y			
						06B	THU	14:00-14:50	FSK24	B	30	Y	2309 - FE		
								15:00-15:50	FSK24	B	30	Y			
			BCI3283	**MOBILE APPLICATION DEVELOPMENT**											
					SEM 1 18/19	01	THU	10:00-10:50	Z01-0003	L	60	Y	2178 - MFM	09/01/2019 - PM	BCI1023
								11:00-11:50	Z01-0003	L	60	Y			BCS2143
						01A	MON	08:00-08:50	FSK21	B	30	Y	2178 - MFM		
								09:00-09:50	FSK21	B	30	Y			
						01B	FRI	10:00-10:50	FSK23	B	30	Y	2178 - MFM		
								11:00-11:50	FSK23	B	30	Y			
						02	TUE	16:00-16:50	Z01-0002	L	60	Y	2178 - MFM		
								17:00-17:50	Z01-0002	L	60	Y			
						02A	FRI	15:00-15:50	FSK23	B	30	Y	2178 - MFM		
								16:00-16:50	FSK23	B	30	Y			
						02B	MON	16:00-16:50	FSK21	B	30	Y	0053 - TABAK		
								17:00-17:50	FSK21	B	30	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BCM3203	COMPUTER GAME PROGRAMMING II											
					SEM 1 18/19	01	TUE	08:00-08:50	Z01-0005	L	90	Y	TBA0001 - ES(	11/01/2019 - AM	BCM3163
								09:00-09:50	Z01-0005	L	90	Y			
						01A	MON	14:00-14:50	FSK14	B	30	Y	TBA0001 - ES(		
								15:00-15:50	FSK14	B	30	Y			
						01B	THU	08:00-08:50	FSK14	B	30	Y	TBA0001 - ES(		
								09:00-09:50	FSK14	B	30	Y			
						01C	FRI	10:00-10:50	FSK14	B	30	Y	TBA0001 - ES(		
								11:00-11:50	FSK14	B	30	Y			
			BCN3193	COMPUTER FORENSICS & INVESTIGATION	The primary focus of this course is to give students instruction in the principle knowledge of Computer Forensics, and the need to be observed by the computer forensic investigator in order to successfully identify, secure, analyse and present digital evidence. This course will enable students to relate the principle and practice of computer forensic, which builds on that foundation simultaneosly enhance the skills of the IT security professional.										
					SEM 1 18/19	01	MON	08:00-08:50	Z01-0006	L	60	Y	2122 - AAA	09/01/2019 - AM	
								09:00-09:50	Z01-0006	L	60	Y			
						01A	THU	14:00-14:50	FSK12	B	30	Y	2122 - AAA		
								15:00-15:50	FSK12	B	30	Y			
						01B	WED	08:00-08:50	FSK12	B	30	Y	2122 - AAA		
								09:00-09:50	FSK12	B	30	Y			
			BCS2243	WEB ENGINEERING	This course introduces the fundamental process in developing web applications; the associated concepts, methods, techniques and tools. Students are required to develop a web/Internet application based on web engineering concepts.										
					SEM 1 18/19	01	MON	08:00-08:50	Z01-0004	L	60	Y	TBA0001 - ES(		BCI1023 BCS1133 BCS1023
								09:00-09:50	Z01-0004	L	60	Y			
						01A	FRI	08:00-08:50	FSK27	B	30	Y	TBA0001 - ES(		
								09:00-09:50	FSK27	B	30	Y			
						01B	WED	08:00-08:50	FSK26	B	30	Y	TBA0001 - ES(		
								09:00-09:50	FSK26	B	30	Y			
						02	TUE	14:00-14:50	Z01-0003	L	60	Y	TBA0001 - ES(		
								15:00-15:50	Z01-0003	L	60	Y			
						02A	MON	14:00-14:50	FSK22	B	30	Y	TBA0001 - ES(		
								15:00-15:50	FSK22	B	30	Y			
						02B	THU	15:00-15:50	FSK20	B	30	Y	TBA0001 - ES(		
								16:00-16:50	FSK20	B	30	Y			
NO TIMETABLE	DEGREE	1	BCI1023	PROGRAMMING TECHNIQUES	This course discusses on understanding problems and translating them into computer solution techniques using programming language. This course enables students to apply programming techniques, write programming codes from given problems and execute programming codes successfully.										
					SEM 1 18/19	01					30	Y	TBA	11/01/2019 - PM	BCI1143
		3	BCC3013	UNDERGRADUATE PROJECT 1	This course aim to give chances for the student to practice and apply their knowledge and skills that they gain during their study in the university. Student will learn to identify problem, analyze the problem, give general solution, collect the required data regarding specific solution and do research on the solution. Finally student will be able to produce report proposal and solve the problem identified. During the course, student will be supervised by their supervisor in order to guide and monitor the students project progress and to ensure that they can achieve the course objective.										
					SEM 1 18/19	01					350	N	TBA		
		3	BCC3026	UNDERGRADUATE PROJECT II	This course aim to give chances for the student to practice and apply their knowledge and skills that they gain during their study in the university. Student will learn to identify problem, analyze the problem, give										

COURSE TIMETABLE

Faculty : **FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
NO TIMETABLE	DEGREE	3	**BCC3026**	**UNDERGRADUATE PROJECT II**	general solution, collect the required data regarding specific solution and do research on the solution. Finally student will be able to produce report proposal and solve the problem identified. During the course, student will be supervised by their supervisor in order to guide and monitor the students¿ project progress and to ensure that they can achieve the course objective.										
					SEM 1 18/19	01					350	N	TBA		
		4	**BCC4018**	**INDUSTRIAL TRAINING**	This course aim to give chances for the student to practice and apply their knowledge and skills that they gain during their study. During the placement, we expect students to keep a log book, in which they make regular entries describing the work they are undertaking. Student also supervised by industrial and university supervisor to guide and ensure that they can do their work as good as possible and achieved the objective for this course.										
					SEM 1 18/19	01					350		TBA		
		4	**BCC4024**	**INDUSTRIAL TRAINING REPORT**	This course aim to give chances for the student to practice and apply their knowledge and skills that they gain during their study. During the placement, we expect students to keep a log book, in which they make regular entries describing the work they are undertaking. Student also supervised by industrial and university supervisor to guide and ensure that they can do their work as good as possible and achieved the objective for this course.										
					SEM 1 18/19	01					350		TBA		


FACULTY OF
INDUSTRIAL SCIENCES
& TECHNOLOGY

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	BSB1102	BIOPHYSICAL CHEMISTRY	The goal of this course is to emphasize the principle and biochemical calculation that are commonly used in biological studies including preparation of buffers and solutions, acids and bases chemistry, aqueous ionic equilibrium, bioenergetics and kinetics. All of the assigments in this course are carried out in group to develop team work skills among the students. Besides that, this course emphasized on information managing skills and lifelong learning by gathering the information on biophysical chemistry application from various sources.										
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-13	L	45	Y	01475 - TSH	04/01/2019 - AM	
								09:00-09:50	W-DK-13	L	45	Y			
		1	BSB1112	INDUSTRIAL BIOTECHNOLOGY	This multi-disciplinary course provides student to introduction policy, scope and research area in industrial biotechnology sector in Malaysia and global scenario. This subject focus on interaction between scientific discovery, applications and challenge impact in biotechnology. There are four focus field includes industrial microbiology, agricultural, healthcare, biomaterial, enzyme and bioinformatics potential process will be discussed. Students also will be exposed to important and related components in commercialization such as issues, biosafety, bioethics, regulations, intelectual rights, facilities and expertise needed in biotechnology industries.										
					SEM 1 18/19	01	WED	12:00-12:50	W-DK-15	L	60	Y	1723 - NG	05/01/2019 - AM	
								13:00-13:50	W-DK-15	L	60	Y			
		1	BSB1113	BIOCHEMISTRY	The course is designed to study the physical and biochemical characteristics of biomolecules including nucleic acids, proteins, carbohydrates and lipids. Important pathways for biosynthesis and degradation of nucleic acids, proteins, carbohydrates and lipids will be discussed. Production of energy from carbohydrate and lipids and the related metabolisms will also be discussed. Besides that, the principle of cellular signaling in living organisms also will be described in this course.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSB1402/BIOCHEMISTRY LAB	
					SEM 1 18/19	01	THU	11:00-11:50	W-DK-12	L	45	Y	01574 - JVAP	07/01/2019 - AM	
								12:00-12:50	W-DK-12	L	45	Y			
							WED	11:00-11:50	W-DK-12	L	45	Y			
		1	BSB1133	ORGANIC CHEMISTRY	In this course we will be introduced to the basic fundamental principles of organic chemistry. Structure, properties and stereochemistry of organic molecules and basic organic reaction to prepare common functional groups will be studied.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSB1412/ORGANIC CHEMISTRY LAB	
					SEM 1 18/19	01	FRI	15:00-15:50	W-DK-17	L	45	Y	01467 - MFBFA		
							TUE	14:00-14:50	W-DK-15	L	45	Y			
								15:00-15:50	W-DK-15	L	45	Y			
		1	BSB1173	MICROBIOLOGY	This course introduces basic concepts in microbiology, techniques and microscopy. Discussion includes microorganism characteristics and classification, structures, growth, nutrient requirement and metabolisms, physical and chemical control of microorganisms.									KOD KURSUS UNTUK PELAJAR AMBILAN SESI 2013/2014	
					SEM 1 18/19	01	FRI	11:00-11:50	W-DK-18	L	45	Y	01031 - MALBA	08/01/2019 - AM	
							WED	10:00-10:50	W-DK-18	L	45	Y			
								11:00-11:50	W-DK-18	L	45	Y			
		1	BSB1402	BIOCHEMISTRY LABORATORY	The course introduces student with the basic calculation and techniques that are commonly used in a biochemical lab. The principle of spectrophotometry and the application of spectrophotometry in biochemistry. Several quantitative and qualitative tests on important biomolecules such as Lowry assay, Bradford assay and DNS assay.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSB1113/BIOCHEMSITRY	
					SEM 1 18/19	01	FRI	08:00-08:50	FIST-L-BC	B	30	N	01475 - TSH 01815 - ANMBR F0034 - HFBA		
								09:00-09:50	FIST-L-BC	B	30	N			
								10:00-10:50	FIST-L-BC	B	30	N			
						02	FRI	15:00-15:50	FIST-L-BC	B	30	N	01475 - TSH 01815 - ANMBR F0034 - HFBA		
								16:00-16:50	FIST-L-BC	B	30	N			
								17:00-17:50	FIST-L-BC	B	30	N			

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BSB1412**	**ORGANIC CHEMISTRY LABORATORY**	Practical comprises several laboratory experiments related to organic chemistry. In organic chemistry experiments, students are exposed to melting point determination and mixture melting points, extraction, distillation, isolation and crystallization.										SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSB1133/ORGANIC CHEMISTRY
					SEM 1 18/19	01	THU	08:00-08:50	FIST-L-OCL	B	30	N	01467 - MFBFA		
								09:00-09:50	FIST-L-OCL	B	30	N			
								10:00-10:50	FIST-L-OCL	B	30	N			
						02	THU	14:00-14:50	FIST-L-OCL	B	30	N	01467 - MFBFA		
								15:00-15:50	FIST-L-OCL	B	30	N			
								16:00-16:50	FIST-L-OCL	B	30	N			
		1	**BSB1432**	**MICROBIOLOGY LABORATORY**	This course covers practical in experiments and analyses in microbiology laboratory. Emphasis on basic techniques in handling microorganisms, including aseptic technique, media preparation, inoculation and isolation of pure culture. Analysis and control of microbial growth, and biochemical and morphological characterization, will also be carried out.										
					SEM 1 18/19	01	MON	14:00-14:50	FIST-L-MB	B	23	N	01031 - MALBA 01331 - LCM 1683 - EAMS		
								14:00-14:50	FIST-L-MB	B	30	N			
								15:00-15:50	FIST-L-MB	B	23	N			
								15:00-15:50	FIST-L-MB	B	30	N			
								16:00-16:50	FIST-L-MB	B	23	N			
								16:00-16:50	FIST-L-MB	B	30	N			
						02	TUE	08:00-08:50	FIST-L-MB	B	24	N	01031 - MALBA 01331 - LCM 1683 - EAMS		
								08:00-08:50	FIST-L-MB	B	30	N			
								09:00-09:50	FIST-L-MB	B	24	N			
								09:00-09:50	FIST-L-MB	B	30	N			
								10:00-10:50	FIST-L-MB	B	24	N			
								10:00-10:50	FIST-L-MB	B	30	N			
		1	**BSF1212**	**LABORATORY SAFETY MANAGEMENT**	This course exposes students to basic concepts of industrial and laboratory safety. Topics include quality systems for laboratory management, occupational health & safety and acts and related regulations. Students will be introduced to laboratory and industrial safety, laboratory and industrial accident, safety policy and procedure, emergency response plan, introduction to basic toxicology and first aid.										
					SEM 1 18/19	01	WED	08:00-08:50	W-DKU-S-01	L	30	Y	01814 - ANBM VP0019 - JRV	13/01/2019 - AM	
								09:00-09:50	W-DKU-S-01	L	30	Y			
						02	WED	08:00-08:50	W-DKU-S-01	L	30	Y	01814 - ANBM VP0019 - JRV		
								09:00-09:50	W-DKU-S-01	L	30	Y			
						03	WED	08:00-08:50	W-DKU-S-01	L	30	Y	01814 - ANBM VP0019 - JRV		
								09:00-09:50	W-DKU-S-01	L	30	Y			
		1	**BSK1103**	**ORGANIC CHEMISTRY**	This course discuss the fundamental theory of properties, synthesis and organic reactions where use the functional group as framework. Focus on the key concepts of organic chemistry through a study of the reactions of selected functional groups. Particular emphasis is placed on the underlying some mechanistic pathways that are involved. The stereochemistry of the molecular structure is also considered. The development of key skills is facilitated by a program of consultancy and practical.										SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSK1402/ORGANIC CHEMISTRY LAB

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis										Remark
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE	1	BSK1103	ORGANIC CHEMISTRY	SEM 1 18/19	01	THU	16:00-16:50	W-DK-13	L	45	Y	01892 - MFFBMA	04/01/2019 - AM	
								17:00-17:50	W-DK-13	L	45	Y			
							TUE	14:00-14:50	W-DK-13	L	45	Y			
		1	BSK1133	PHYSICAL CHEMISTRY	The course discusses the concepts and fundamental principles of physical chemistry. These include the properties of solid, liquid and gas, chemical equilibrium, dissolution and solution properties, chemical colloid and surface, thermodynamics, chemical kinetics and catalyst. In order to achieve technical development in the advanced technologies that requires the ultimate precision of atomic level, it is indispensable to understand the physical phenomena involved in the Industrial technology on the basis of fundamental principles.										
					SEM 1 18/19	01	FRI	08:00-08:50	W-DK-13	L	45	Y	01817 - YML	05/01/2019 - AM	
								09:00-09:50	W-DK-13	L	45	Y			
							TUE	11:00-11:50	W-DK-13	L	45	Y			
		1	BSK1143	INORGANIC CHEMISTRY	The objective of this course is to give the student a basic understanding of theoretical inorganic chemistry and to apply this understanding to problem solving involving critical thinking. The topics covered in this course include periodic trends, foundations of bonding theory, basic coordination chemistry, chemistry of the main group elements and block d elements. Some of the important concepts in bioinorganic chemistry as well as nanomaterials, nanoscience and nanotechnology will be discussed. This basic understanding is to prepare the student for additional coursework, either in chemistry or in other disciplines, and to help the student function in a technological society.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSK1422/ INORGANIC CHEMISTRY LAB	
					SEM 1 18/19	01	MON	14:00-14:50	W-DK-13	L	45	Y	1605 - FS	07/01/2019 - AM	
							WED	10:00-10:50	W-DK-13	L	45	Y			
								11:00-11:50	W-DK-13	L	45	Y			
		1	BSK1153	ANALYTICAL CHEMISTRY	This course will provide students with a basic understanding of analytical chemistry and major aspects of quantitative chemical analysis. The course is an introductory part of a series of analytical chemistry courses for industrial chemistry program. It will concentrate upon descriptive analytical chemistry and analytical methods based on chemical equilibrium which include precipitation and volumetric analysis.										
					SEM 1 18/19	01	FRI	10:00-10:50	W-DK-13	L	45	Y	01737 - WNBWI	06/01/2019 - PM	
							THU	08:00-08:50	W-DK-13	L	45	Y			
								09:00-09:50	W-DK-13	L	45	Y			
		1	BSK1402	ORGANIC CHEMISTRY LABORATORY	Practical comprises several laboratory experiments related to organic chemistry. In organic chemistry experiments, students are exposed to melting point determination, extraction, distillation, isolation, crystallization, determination of optical activity and identification of an organic functionla groups.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSK1103/ORGANIC CHEMISTRY I	
					SEM 1 18/19	01	MON	08:00-08:50	FIST-L-OCL	B	22	N	01291 - NBAS		
								09:00-09:50	FIST-L-OCL	B	22	N			
								10:00-10:50	FIST-L-OCL	B	22	N			
						02	MON	15:00-15:50	FIST-L-OCL	B	23	N	01892 - MFFBMA		
								16:00-16:50	FIST-L-OCL	B	23	N			
								17:00-17:50	FIST-L-OCL	B	23	N			
		1	BSK1412	PHYSICAL CHEMISTRY LABORATORY	Practical comprises laboratory experiments involving theory in the physical chemistry course. Students will be exposed to chemical equilibrium, thermochemistry, calorimetry, electrochemistry and kinetic theory of gases and various experiments related to physical chemistry concepts.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSK1133/PHYSICAL CHEMISTRY	
					SEM 1 18/19										

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BSK1412**	**PHYSICAL CHEMISTRY LABORATORY**		**SEM 1 18/19**	01	MON	08:00-08:50	FIST-L-PCL	B	22	N	01817 - YML		
									09:00-09:50	FIST-L-PCL	B	22	N			
									10:00-10:50	FIST-L-PCL	B	22	N			
							02	MON	15:00-15:50	FIST-L-PCL	B	23	N	01305 - NNBH		
									16:00-16:50	FIST-L-PCL	B	23	N			
									17:00-17:50	FIST-L-PCL	B	23	N			
		1	**BSK1422**	**INORGANIC CHEMISTRY LABORATORY**	This course will provide the students a clear idea of the reactivity of the elements in different groups from 1A to VII A in the periodic table. The students willalso learn to prepare inorganic complexes.											SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSK1143/INORGANIC CHEMISTRY I
						SEM 1 18/19	01	TUE	08:00-08:50	FIST-L-IOCL	B	22	N	1605 - FS		
									09:00-09:50	FIST-L-IOCL	B	22	N			
									10:00-10:50	FIST-L-IOCL	B	22	N			
							02	TUE	15:00-15:50	FIST-L-IOCL	B	23	N	1605 - FS		
									16:00-16:50	FIST-L-IOCL	B	23	N			
									17:00-17:50	FIST-L-IOCL	B	23	N			
		1	**BSK1432**	**ANALYTICAL CHEMISTRY LABORATORY**	The objective of this course is to provide students with a basic skills of analytical chemistry field, the science of chemical characterization and measurement. The course is an introductory part of a series of analytical chemistry courses for industrial chemistry majors. It will concentrate upon descriptive analytical chemistry and analytical methods based on chemical equilibriums which include precipitation, volumetric and thermal analysis. A brief introduction to instrumental methods, separation methods, instruments calibration and methods validation, process analytical chemistry as well as good laboratory practice will also be practice in lab.											SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSK1133/ANALYTICAL CHEMSITRY
						SEM 1 18/19	01	TUE	08:00-08:50	FIST-L-ACL	B	22	N	01388 - TJH		
									09:00-09:50	FIST-L-ACL	B	22	N			
									10:00-10:50	FIST-L-ACL	B	22	N			
							02	TUE	15:00-15:50	FIST-L-ACL	B	23	N	01737 - WNBWI 01823 - AZBAH		
									16:00-16:50	FIST-L-ACL	B	23	N			
									17:00-17:50	FIST-L-ACL	B	23	N			
		1	**BSP1163**	**ELECTRICITY, MAGNETISM & OPTICS**	This course is focused on three basic principle of physics in Electricity, Magnetism and Optics. Topic covered in this course including electric charge, electric field, Gauss's law and electric potential , While in macroscopic view of electricity, student will learned about the capacitance, dielectric, currrent,resistance, EMF and also direct current circuits. In magnetism, topic such as magnetic field, magnetic force, source of magnetic field and electromagnetic induction will be discusses. Whereas, student also will be exposed to the basic optics such as the nature and propagation of light, interference, diffraction and polarization.											KURSUS BAHARU BERMULA PADA SEMESTER 1 2016/2017
						SEM 1 18/19	01	FRI	09:00-09:50	W-DK-15	L	60	Y	01671 - MHBM	05/01/2019 - AM	
									10:00-10:50	W-DK-15	L	60	Y			
								TUE	11:00-11:50	W-DK-15	L	60	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BSP1422**	**PHYSICS LABORATORY**	Learners are introduced to practical and hands-on activities; inclusive of (i) manipulation of instruments to conduct guided experiments, and (ii) composition of technical report. Learners need to conduct and perform the experiments based on the theory and principle learned in Mechanics & Thermodynamics and Electricity, Magnetism & Optics. Learners are expected to perform eight experiments (in groups); vis., Newton¿s Law of Motion with Cobra-3, Projectile Motion, Heat Capacity of Metals with Cobra-3, Thermal Expansion in Solids and Liquids, Density of Liquids, Kirchhoff's Law, Coulomb¿s Law, Electrical Field and Potentials in the Plate Capacitor, Dielectric Constant of Different Materials, Transformer and Diffraction of Light at a Slit and Edge experiments. Experiment demonstration, and safety talk is scheduled to be delivered by senior academician, and trained technical staff respectively; during second week of academic semester. Laboratory manual is given to each learner; which consists of theory, background of experiment, series of instructions, objectives, problem statement, and references. An online forum platform (accessible via kalam.ump.edu.my) is developed for discussions purposes. Learners are divided in group of three and will be assessed based on (i) peer review, (ii) technical report, and (iii) ability to manipulate instruments (which will be carried out during a practical test).									KURSUS BAHARU BERMULA PADA SEMESTER 1 2016/2017
					SEM 1 18/19	01	MON	09:00-09:50	FIST-L-PL	B	30	N	01664 - FHBZ 01671 - MHBM		
								10:00-10:50	FIST-L-PL	B	30	N			
								11:00-11:50	FIST-L-PL	B	30	N			
						02	MON	15:00-15:50	FIST-L-PL	B	30	N	01664 - FHBZ 01671 - MHBM		
								16:00-16:50	FIST-L-PL	B	30	N			
								17:00-17:50	FIST-L-PL	B	30	N			
		2	**BSB2122**	**GENETICS**	The course will provide the students with a strong background in the basic concepts of genetics. Students will be introduced to the brief history pertaining to genetics, cell division and chromosomes. Apart from that, the students will be exposed to the Mendelian Law of Inheritance, gene interaction including epistasis, sex lingkage and determination, crossing, inbreeding, hetrosis and environmental effect on genetics. Other topics to be discussed include genetic application and mechanism in race and species diversification formation. Population genetics and evolutionary genetics will also be discussed.									KOD BAHARU BERMULA SESI 2013/2014
					SEM 1 18/19	01	WED	08:00-08:50	W-DK-12	L	45	Y	F0034 - HFBA		
								09:00-09:50	W-DK-12	L	45	Y			
		2	**BSB2143**	**ENZYME TECHNOLOGY**	This course provides the theory and knowledge relevant to the enzymology principles including fundamental properties of enzymes, enzyme catalytic mechanisms and enzyme kinetics. Techniques employed in enzymes purification and characterization are also emphasized in this course. Students will also be introduced to the theory as well as applications of enzyme technology in food, medical, and household industries. Finally this course serves to provide an awareness of the current and possible future applications of enzyme technologies. This course also emphasizes on the development of attitude and capability of the students to work in a group and gather information on the related field for life long learning.									SUBJEK INI PERLU DIAMBIL BERSAMA BSB2492/ENZYME TECHNOLOGY LABORATORY
					SEM 1 18/19	01	MON	08:00-08:50	W-DK-12	L	45	Y	2104 - AK	11/01/2019 - AM	
								09:00-09:50	W-DK-12	L	45	Y			
							THU	08:00-08:50	W-DK-12	L	45	Y			
		2	**BSB2173**	**BIOANALYTICAL CHEMISTRY**	This course introduces spectroscopic methods for matrix characterization, principles of electrophoresis, isoelectric focusing, capillary electrophoresis, centrifugation methods, chromatography and mass spectrometry of biomolecules.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSB2442/BIOANALYTICAL CHEMISTRY
					SEM 1 18/19	01	FRI	08:00-08:50	W-DK-12	L	45	Y	01424 - MHBAR	12/01/2019 - AM	
							TUE	08:00-08:50	W-DK-12	L	45	Y			
								09:00-09:50	W-DK-12	L	45	Y			
		2	**BSB2442**	**BIOANALYTICAL CHEMISTRY LABORATORY**	This course introduces spectroscopic methods for matrix characterization, principles of electrophoresis, isoelectric focusing, capillary electrophoresis, centrifugation methods, chromatography and mass spectrometry of biomolecules.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSB2173/BIOANALYTICAL CHEMISTRY

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BSB2442**	**BIOANALYTICAL CHEMISTRY LABORATORY**											
					SEM 1 18/19	01	THU	08:00-08:50	FIST-L-MB	B	30	N	01424 - MHBAR 1723 - NG		
								09:00-09:50	FIST-L-MB	B	30	N			
								10:00-10:50	FIST-L-MB	B	30	N			
						02	THU	14:00-14:50	FIST-L-MB	B	30	N	01424 - MHBAR 1723 - NG		
								15:00-15:50	FIST-L-MB	B	30	N			
								16:00-16:50	FIST-L-MB	B	30	N			
		2	**BSB2452**	**ENZYME TECHNOLOGY LABORATORY**	An introduction in theory, techniques and practical in modern enzyme technology laboratory. Emphasis will be given in concept and technique on basic laboratory and instrumentation handling, extraction and purification process, and polyacrylamide gel electrophoresis for enzyme/protein separation.										INTAKE 2013/2014
					SEM 1 18/19	01	FRI	08:00-08:50	FIST-L-ET	B	30	N	01815 - ANMBR 1723 - NG		
								09:00-09:50	FIST-L-ET	B	30	N			
								10:00-10:50	FIST-L-ET	B	30	N			
						02	FRI	15:00-15:50	FIST-L-ET	B	30	N	01815 - ANMBR 1723 - NG		
								17:00-17:50	FIST-L-ET	B	30	N			
		2	**BSB2462**	**INDUSTRIAL MICROBIOLOGY LABORATORY**	This course covers practical in the application of microbes in industries. Emphasis will be given on techniques for screening of potential industrial microbes, identification of microorganisms, water and food analyses, fermentation processes and antibiotic tests.										
					SEM 1 18/19	01	TUE	08:00-08:50	FIST-L-MCB	B	30	N	01031 - MALBA 2056 - RY		
								09:00-09:50	FIST-L-MCB	B	30	N			
								10:00-10:50	FIST-L-MCB	B	30	N			
						02	TUE	14:00-14:50	FIST-L-MCBPR1	B	30	N	01331 - LCM 1683 - EAMS		
								15:00-15:50	FIST-L-MCBPR1	B	30	N			
								16:00-16:50	FIST-L-MCBPR1	B	30	N			
		2	**BSB2472**	**CELL AND MOLECULAR BIOLOGY LABORATORY**	In this course, students will be introduced and practice modern biotechnology laboratory techniques and theories. The subjects that will be covered are basic laboratory equipments handling and techniques such as microscopy, proper use of analytical balance, pipetting technique, nucleic acid isolation and purification, deoxyribonucleic acid (DNA) cloning, polymerase chain reaction (PCR) and gel electrophoresis analysis.										BERMULA SESI 2016/2017
					SEM 1 18/19	01	MON	08:00-08:50	FIST-L-MCB	B	30	N	01031 - MALBA F0034 - HFBA		
								09:00-09:50	FIST-L-MCB	B	30	N			
								10:00-10:50	FIST-L-MCB	B	30	N			
						02	MON	14:00-14:50	FIST-L-MCB	B	30	N	01053 - NSBA 01331 - LCM		
								15:00-15:50	FIST-L-MCB	B	30	N			
								16:00-16:50	FIST-L-MCB	B	30	N			
		2	**BSB3123**	**BIOPROCESS TECHNOLOGY**	The course discuss on the basic operational in bioprocess technology, unit, dimension, mass transfer at the equilibrium phase, stoichiometry of microbial growth and product formation. This course explicates the connection between microbial growth, product formation, mass transfer and environment. Likewise, this course gives an overview of the bioprocess from raw material to product. Upstream and downstream										SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSB3481/BIOPROCESS TECHNOLOGY LAB

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	BSB3123	BIOPROCESS TECHNOLOGY	processing will be discussed. This course explains the processes and techniques used for extraction and purification of a product from culture medium. Also, bioprocess consideration in using animal and plant cell cultures will discuss using different techniques.										
					SEM 1 18/19	01	FRI	10:00-10:50	W-DK-16	L	30	Y	01815 - ANMBR 1896 - SSR	08/01/2019 - PM	
							MON	10:00-10:50	W-DK-15	L	30	Y			
								11:00-11:50	W-DK-15	L	30	Y			
		2	BSK2123	MATERIAL CHEMISTRY	Materials Chemistry course encompasses the spectrum of materials types and how to use them in manufacturing. Materials span the range: metals, ceramics, polymers (plastics), and combinations of materials called composites. It will discuss the methods to produce specific properties from selecting the materials and controlling the manufacturing processes to convert the basic materials into the final engineered product. This course also will discuss on main problem in almost all industry which is corrosion. We will discuss on mechanism of corrosion occurs and how to prevent it. In addition, this course also discusses some minor type of materials such as semiconductor, optical properties and nanomaterials. By the end of this course, students will be able to correlate the fundamental understanding of the chemistry with daily use and industrial processing.									KOD KURSUS INI DIGUNAKAN BAGI PENGAMBILAN BERMULA SESI 2011/2012 KE ATAS DAN KURSUS INI PERLU DIAMBIL SEKALI DENGAN BSK2542/MATERIAL CHEMISTRY LABORATORY
					SEM 1 18/19	01	MON	12:00-12:50	W-DK-13	L	30	Y	01769 - SBZ	11/01/2019 - AM	
							TUE	08:00-08:50	W-DK-13	L	30	Y			
								09:00-09:50	W-DK-13	L	30	Y			
		2	BSK2133	SEPARATION TECHNIQUE	This course introduces the basic principles and instrumentation of separation methods in chemistry. The major separation method used in chemical analysis, including chromatography and electrophoresis will be discussed. Characterization, mechanism involved in separation, instrumental systems, advantages and limitation of methods will also be discussed. Students will be exposed to development and application of knowledge in explaining the concepts and principles of separation.									BAGI KOD KURSUS INI DIGUNAKAN BERMULA SESI PENGAMBILAN 2011/2012 SAHAJA
					SEM 1 18/19	01	THU	14:00-14:50	W-DK-13	L	30	Y	01305 - NNBH	10/01/2019 - AM	
							TUE	15:00-15:50	W-DK-13	L	30	Y			
								16:00-16:50	W-DK-13	L	30	Y			
		2	BSK2183	THERMODYNAMICS	This course discusses thermodynamic in greater detail. Changes in physical properties will be extensively discussed in each law of thermodynamics. A special emphasis will be placed on the basic concepts of work, heat, internal energy, heat capacity and enthalpy changes in First Law of Thermodynamic. In the Second Law, entropy changes in reversible and irreversible processes will be discussed. Absolute entropy will be discussed in Third law. Also discussed in this coursse is thermal equilibrium in the Zeroth Law, principles and applications of ionic interactions and electrochemical systems. The development of key skills is facilitated by a programme of tutorials and practical.									
					SEM 1 18/19	01	THU	11:00-11:50	W-DK-13	L	30	Y	01817 - YML	08/01/2019 - AM	
								12:00-12:50	W-DK-13	L	30	Y			
							TUE	12:00-12:50	W-DK-13	L	30	Y			
		2	BSK2193	INSTRUMENTATION METHOD	This course is designed to introduce the modern instrumental methods that are used to solve analytical problems in chemistry. A qualitative and quantitative analysis which is studied in Analytical Chemistry course will be further developed. The course will begin with the explanation of instrumentation methods concept and the tools of quantitative analysis. Students will expose to different instruments (AAS, HPLC, GC, IC, MS, UV/VIS, FTIR, , and NMR) and able to discuss their applications.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSK2431/INSTRUMENTATION METHOD LAB BAGI SESI PENGMABILAN 2011/2012 PERLU DIAMBIL SEKALI DENGAN BSK2442/INSTRUMENTATION METHOD
					SEM 1 18/19	01	MON	10:00-10:50	W-DK-13	L	30	Y	01823 - AZBAH	05/01/2019 - PM	BSK1153
								11:00-11:50	W-DK-13	L	30	Y			
							TUE	10:00-10:50	W-DK-13	L	30	Y			
		2	BSK2442	INSTRUMENTATION METHOD LABORATORY	This course is exposed students to modern instrumental methods including UV-visible spectrophotometers, Atomic Absorption Spectrometer (AAS), High performance Liquid chromatography (HPLC), and Gas Liquid Chromatography (GC) with different detectors that are used to solve analytical problems in chemistry. Students will develop skills like being a team player through working in groups and technical writing skills through report writing.									SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSK2193/INSTRUMENTATION METHOD

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis										Remark
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE	2	BSK2442	INSTRUMENTATION METHOD LABORATORY	SEM 1 18/19	01	THU	08:00-08:50	FIST-L-IOCL	B	30	N	01579 - HBAH		
								09:00-09:50	FIST-L-IOCL	B	30	N			
								10:00-10:50	FIST-L-IOCL	B	30	N			
		2	BSK2452	MATERIAL CHEMISTRY LABORATORY	This course expose students to the handling of various materials and their laboratory preperations and characterizations. The students will acquire the skill and experimental techniques for the sysnthesis, determination of their properties and characterizations of some important materials discussed in the Material Chemsitry course.										
					SEM 1 18/19	01	THU	08:00-08:50	FIST-L-PCL	B	30	N	01769 - SBZ 1605 - FS		
								09:00-09:50	FIST-L-PCL	B	30	N			
								10:00-10:50	FIST-L-PCL	B	30	N			
		2	BSP1153	MECHANICS & THERMODYNAMICS	This course introduce basic Physics, especially principles in Mechanics and Thermodynamics field. Topic covered in this course include principles of measurements; vectors; kinematics; Newton's law of motion; work, energy, and power; fluid mechanics; static equilibrium; heat and laws of thermodynamics.										KURSUS BAHARU BERMULA PADA SEMESTER 1 2016/2017
					SEM 1 18/19	01	FRI	11:00-11:50	W-DK-15	L	60	Y	01664 - FHBZ	04/01/2019 - AM	
							TUE	09:00-09:50	W-DK-15	L	60	Y			
								10:00-10:50	W-DK-15	L	60	Y			
		2	BSP2113	SOLID STATE PHYSICS	Metals and Alloys study requires a good understanding of fundamental knowledge of sciences; which involves investigation of chemical and physical properties of metallic elements, compounds and alloys. The course will cover metal-related technologies, including extraction methods used in industry and engineering, and metalworking processes such as casting, forging and sintering. Learners should be able to (i) apply comprehensive knowledge, identify problems and formulate creative and innovative solutions in metals and alloys processing, and fabrications in industry, and (ii) practice empathy, responsibilities, integrity, and professionalism in their endeavors; upon completion of the course.										KURSUS BAHARU BERMULA PADA SEMESTER 1 2016/2017
					SEM 1 18/19	01	FRI	09:00-09:50	W-DK-14	L	33	Y	1685 - JR	06/01/2019 - PM	
							THU	08:00-08:50	W-DK-14	L	33	Y			
								09:00-09:50	W-DK-14	L	33	Y			
		2	BSP2123	MATERIAL CHARACTERIZATION	This course will provide an introduction to materials characterization techniques along with the analyses required for each instruments. Learning activities cover three main aspects in materials characterizations: (i) working principles, (ii) specimen preparation and (iii) analysis. Students will learned the basic principles in optical microscopes prior to learn advanced characterization like X-ray Diffraction (XRD), Scanning Electron Microscopy (SEM), Transmission Electron Microscopy (TEM) and also Scanning Probe Microscopy. The spectroscopy techniques like Energy Dispersive X-ray, Infrared and Fourier Transform Infrared will be taught too. Characterization techniques using UV-Visible Spectrometer, Differential Scanning Calorimetry (DSC) and Thermogravimetric Analysis (TGA) are expected to enhanced the knowledge for chemical analysis and thermal analysis.										KURSUS BAHARU BERMULA PADA SEMESTER 1 2016/2017
					SEM 1 18/19	01	FRI	15:00-15:50	W-DK-14	L	33	Y	01660 - ASBS 01877 - RBN	09/01/2019 - AM	
							TUE	08:00-08:50	W-DK-14	L	33	Y			
								09:00-09:50	W-DK-14	L	33	Y			
		2	BSP2153	MATERIAL SCIENCE & TECHNOLOGY	This course is designed to expose the concept of structure and scaling. There are seven (7) headlines in the course; atomic structure, bonds and crystal structure, defect structure and strengthening mechanisms, failure, diffusion, material properties (mechanical, electrical, magnetic & optic), economic, and environmental issues. Student will be taught in lecture room; and the assessments which include quiz, test, assignment and final exam will be carried out throughout the semester. At the end of semester, students are expected should be able to explain, solve, analyze and develop new ideas during problem										

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BSP2153**	**MATERIAL SCIENCE & TECHNOLOGY**	solving; related to material science and technology. Furthermore, students also should be able to demonstrate good ethics and professional skills.										
					SEM 1 18/19	01	MON	16:00-16:50	W-DK-14	L	33	Y	01497 - MABJ	07/01/2019 - AM	
							TUE	15:00-15:50	W-DK-14	L	33	Y			
								16:00-16:50	W-DK-14	L	33	Y			
		2	**BSP2422**	**MATERIAL SCIENCE & SOLID STATE LABORATORY**	This course introduces students to fundamentals of experiment in material science and solid state field; which includes mechanical, electrical and optical measurements. Students will experience hands on learning using related experimental set ups and methods, quantitative and qualitative characterization of materials, and composition of scientific report. Experiment demonstration, and safety talk is scheduled to be delivered by senior academician, and trained technical staff respectively; during second week of academic semester. Laboratory manual is given to each learner; which consists of theory, background of experiment, series of instructions, objectives, problem statement, and references. An online forum platform (accessible via kalam.ump.edu.my) is developed for discussions purposes. Learners are divided in group of nine; required to perform nine experiments, which will be assessed based on (i) peer review, (ii) technical report, and (iii) ability to manipulate instruments for characterizations (which will be carried out during a practical test). Learners are aimed to develop psychomotor skills in manipulation of instruments to characterize properties of the synthesized/prepared materials using various laboratory instruments and advanced machineries.										
					SEM 1 18/19	02	TUE	14:00-14:50	FIST-L-BC	B	33	N	01497 - MABJ 01733 - RBR		
								15:00-15:50	FIST-L-BC	B	33	N			
								16:00-16:50	FIST-L-BC	B	33	N			
		3	**BSB2193**	**INDUSTRIAL MICROBIOLOGY**	This course introduces various industrial applications of microorganisms in traditional fermentation process and advanced contemporary applications such as productions of biological materials and vaccines, biopharmaceutical, bioemulsifier, biopolymers, and biodegradation. Discussion includes biotechnology unit operation, bioprocess design, process modulation, kinetics and analysis. In addition, students will be introduced to work flow and operation of an industry through a site-visit to a related industry.										
					SEM 1 18/19	01	MON	11:00-11:50	W-DK-12	L	45	Y	01331 - LCM	05/01/2019 - PM	
								12:00-12:50	W-DK-12	L	45	Y			
							TUE	11:00-11:50	W-DK-12	L	45	Y			
		3	**BSB3113**	**GENE TECHNOLOGY**	Topics discussed include the advanced techniques in gene technology including application of polymerase chain reaction (PCR) and real-time PCR, recombinant technology, genomic and cDNA libraries, molecular markers, DNA hybridization, functional genomic and genetic engineering in plants and animals. This course emphasize on the application of gene technology in agriculture, medical and forensic. Students are also trained to participate in group discussion and present on the application of gene technology and related ethical issues										
					SEM 1 18/19	01	FRI	08:00-08:50	W-DK-15	L	30	Y	01053 - NSBA	07/01/2019 - PM	
							MON	08:00-08:50	W-DK-15	L	30	Y			
								09:00-09:50	W-DK-15	L	30	Y			
		3	**BSB3472**	**GENE TECHNOLOGY LABORATORY**	Students will be exposed to the techniques in gene technology such as total DNA/RNA extraction, gene detection and analysis using conventional PCR contrasting with analysis using realtime PCR. In addition, DNA molecular marker techniques also will be also be covered in this course. Students will also be exposed to the application of bioinformatics softwares for gene analysis and sequence confirmation. The mini project included in this course exposed students to the essential workflow of molecular and gene analysis studies.										
					SEM 1 18/19										

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	BSB3472	GENE TECHNOLOGY LABORATORY	SEM 1 18/19	01	THU	08:00-08:50	FIST-L-MCB	B	30	N	01053 - NSBA 01424 - MHBAR		
								08:00-08:50	FIST-L-MCB	B	35	N			
								09:00-09:50	FIST-L-MCB	B	30	N			
								09:00-09:50	FIST-L-MCB	B	35	N			
								10:00-10:50	FIST-L-MCB	B	30	N			
								10:00-10:50	FIST-L-MCB	B	35	N			
						02	THU	14:00-14:50	FIST-L-MCB	B	30	N	01053 - NSBA 01424 - MHBAR		
								15:00-15:50	FIST-L-MCB	B	30	N			
								16:00-16:50	FIST-L-MCB	B	30	N			
		3	BSB3482	BIOPROCESS TECHNOLOGY LABORATORY	The course discuss on the basic operational in bioprocess technology, unit, dimension, mass transfer at the equilibrium phase, stoichiometry of microbial growth and product formation as well. This course explicates the connection between microbial growth, product formation, mass transfer and environment. Likewise, this course gives an overview of the bioprocess from raw material to product. Upstream and downstream processing will be discussed. This course explains the processes and techniques used for extraction and purification of a product from culture medium. Also, bioprocess consideration in using animal and plant cell cultures will discuss using different techniques.										INTAKE2013/2014
					SEM 1 18/19	01	WED	08:00-08:50	FIST-L-BP	B	30	N	01815 - ANMBR 1896 - SSR		
								09:00-09:50	FIST-L-BP	B	30	N			
								10:00-10:50	FIST-L-BP	B	30	N			
						02	WED	14:00-14:50	FIST-L-BP	B	30	N	01815 - ANMBR 1896 - SSR		
								15:00-15:50	FIST-L-BP	B	30	N			
								16:00-16:50	FIST-L-BP	B	30	N			
		3	BSB3492	PLANT MAMMALIAN CELL TECHNOLOGY LABORATORY	This course introduce techniques and skills required in both plant and animal cell/tissue culture laboratories. Aseptic techniques and sterilization are emphasized in this course. For plant cell and tissue culture practicals, students are exposed to media preparation and several tissue culture techniques including callus induction, organogenesis,shoot and root induction, and acclimatization of tissue cultured plntlets. While in anaimal cell practicals, students are exposed to the techniques of handling mammalian cells, preparation of primary cell culture, calculating viability of cells and also cell toxicity studies.										
					SEM 1 18/19	01	TUE	08:00-08:50	FIST-L-BP	B	30	N	01475 - TSH 01615 - NBZ		
								09:00-09:50	FIST-L-BP	B	30	N			
								10:00-10:50	FIST-L-BP	B	30	N			
						02	TUE	14:00-14:50	FIST-L-BP	B	30	N	01475 - TSH 01615 - NBZ		
								15:00-15:50	FIST-L-BP	B	30	N			
								16:00-16:50	FIST-L-BP	B	30	N			
		3	BSB3543	NUTRACEUTICALS AND FUNCTIONAL FOODS	There is a global growing awareness on the contributions of nutraceutical and functional food that promotes health benefits. This course gives an overview of the bioactive compounds that are currently regarded as functional foods and nutraceuticals. The identification and related assessment methods of these bioactive compounds are discussed. This course includes new and innovative technologies for the processing of functional foods and nutraceuticals. These technologies are developed to address consumers' concerns on quality and safety issues. The safety guidelines and regulations in the development of nutraceuticals and functional foods are also highlighted in this course.										
					SEM 1 18/19	01	FRI	11:00-11:50	V-BK-01	L	30	Y	01812 - HPK	12/01/2019 - PM	
							THU	11:00-11:50	V-BK-01	L	30	Y			
								12:00-12:50	V-BK-01	L	30	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	BSB3563	BIOREMEDIATION	This course introduces various advanced applications of plants and microorganisms in evaluating whether bioremediation is a viable strategy for remediation of a contaminated site, factors that influence the rate and extent to which environmental contaminants are metabolized by microorganisms in the environment as well as bioremediation techniques for clean-up the mess according to bioremediation classifications as Biotransformation, Biodegradation and Mineralization. In addition, the student will be able to dealing with an effective innovative technology for treatment of a wide variety of contaminants. This technology includes phytoremediation (plants) and rhizoremediation (plant and microbe interaction). Rhizoremediation, which is the most evolved process of bioremediation, involves the removal of specific contaminants from contaminated sites by mutual interaction of plant roots and suitable microbial flora.										
					SEM 1 18/19	01	TUE	11:00-11:50	W-DK-14	L	30	Y	1683 - EAMS	10/01/2019 - PM	
								12:00-12:50	W-DK-14	L	30	Y			
							WED	11:00-11:50	W-DK-14	L	30	Y			
		3	BSK3103	ORGANIC SPECTROSCOPY	This course deals with the four major instrumental methods such as ultra-violet/visible, infrared, mass spectroscopy and nuclear magnetic resonance spectroscopy. It provides a concise introduction to the physical background of each, describing how molecules interact with electromagnetic radiation or how they fragment when excited sufficiently, and how this inform ation may be applied to the determination of chemical structures of organic compounds. It also includes simple descriptions of instrumentation and emphasizes modern methodologies such as the Fourier transform approach to data analysis. Each chapter is related with a set of problems to be solved in the tutorial lectures to test the understanding of organic spectroscopy.										
					SEM 1 18/19	01	THU	16:00-16:50	V-BK-03	L	30	Y	01579 - HBAH 01814 - ANBM	07/01/2019 - PM	
								17:00-17:50	V-BK-03	L	30	Y			
							TUE	08:00-08:50	V-BK-03	L	30	Y			
		3	BSK3143	UNIT OPERATION	This course discusses material balance on steady and recycle states and material balance based on chemical processes. Emphasis will be placed on energy balance concept based on chemical processes including calculation of heats of reactions and application of the steam table. Also covered in this course are fluid pressure and fluid dynamics, liquid flow measurement, heat transfer and heat exchangers.										SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSK3451/UNIT OPERATION LAB
					SEM 1 18/19	01	THU	15:00-15:50	V-BK-03	L	30	Y	01767 - SNHBM	12/01/2019 - AM	
							TUE	15:00-15:50	V-BK-03	L	30	Y			
								16:00-16:50	V-BK-03	L	30	Y			
		3	BSK3153	ORGANIC CHEMISTRY PROCESS	This course reviews the whole spectrum of todays most commonly used industrial organic chemicals. It explains their origins, uses, preparations. It answers questions of today of chemical industry, such as, what are the industrial chemicals and where do they come from? How are they made? What are the factors that affect their level of production and pricing? The course covers the sorces, their competitive process and commercial uses of main building blocks starting from 1 carbon structure to other cycle building blocks as well as other important industrial products such as organic pigments , oils and fats, soap & detergents etc.										
					SEM 1 18/19	01	FRI	14:00-14:50	V-BK-03	L	30	Y	1870 - MNA	13/01/2019 - AM	
								15:00-15:50	V-BK-03	L	30	Y			
							WED	15:00-15:50	V-BK-03	L	30	Y			
		3	BSK3163	INORGANIC CHEMISTRY PROCESS	Modern inorganic chemical processes in the framework of globalisation, sustainability and technical innovation; Major inorganic chemistry industries; Traditional and novel inorganic processes; New chemical science and engineering technology; Sophisticated information systems in product and process design and development; Manufacturing and operation; Future of inorganic chemical processes; R&D need for new process chemistry.										
					SEM 1 18/19	01	MON	11:00-11:50	V-BK-03	L	45	Y	01464 - GPAM	09/01/2019 - AM	
							TUE	11:00-11:50	V-BK-03	L	45	Y			
								12:00-12:50	V-BK-03	L	45	Y			
		3	BSK3462	ORGANIC SPECTROSCOPY LABORATORY	The aim of this course is to provide students with a basic understanding of spectroscopic analysis suitable for the determination of the structure of organic molecules. The course will concentrate upon the most										

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BSK3462**	**ORGANIC SPECTROSCOPY LABORATORY**	commonly used techniques in organic structure determination, i.e. infrared spectroscopy (IR), ultraviolet-visible (UV-Vis) spectroscopy and gas-chromatography-mass spectrometry (GC/MS). The amount of time devoted to each technique in this course is meant to be representative of their current usage for structure determination										
					SEM 1 18/19	01	WED	08:00-08:50	FIST-L-IOCL	B	22	N	1870 - MNA		
								09:00-09:50	FIST-L-IOCL	B	22	N			
								10:00-10:50	FIST-L-IOCL	B	22	N			
						02	WED	15:00-15:50	FIST-L-IOCL	B	23	N	01814 - ANBM		
								16:00-16:50	FIST-L-IOCL	B	23	N			
								17:00-17:50	FIST-L-IOCL	B	23	N			
		3	**BSK3472**	**UNIT OPERATION LABORATORY**	Laboratory experiments are designed and structured for the course is related to several unit operations in an open laboratory concept. Laboratory practice are based on pilot-scale apparatus i.e. tray drier, mixers, fixed and fluidised unit, batch and continuous distillation column unit, liquid-liquid extraction unit etc										
					SEM 1 18/19	01	WED	08:00-08:50	FIST-L-UOL	B	22	N	01767 - SNHBM		
								09:00-09:50	FIST-L-UOL	B	22	N			
								10:00-10:50	FIST-L-UOL	B	22	N			
						02	WED	15:00-15:50	FIST-L-UOL	B	23	N	01767 - SNHBM		
								16:00-16:50	FIST-L-UOL	B	23	N			
								17:00-17:50	FIST-L-UOL	B	23	N			
		3	**BSK3513**	**PETROCHEMISTRY**	This course gives an overview on related processes and issues involved in petroleum and petrochemical industry. The first part of the course will introduce the concept of petroleum refining including the main processes such distillation, reforming, cracking, coking and blending. The parameter affecting each process will be discussed. The characterization and analysis of various petroleum feedstocks and products using basic and advanced instruments will be introduce in this course. The second part of the course will cover the downstream processes to produce fine chemicals and other petro-based products from different feedstock i.e. C1 to C4 alkanes, olefins and aromatics hydrocarbon. Besides, this course will also introduce alternative hydrocarbon feedstocks other than petroleum including biobased feedstock. Lastly, some of the safety aspects as well as environmental and pollution prevention in petroleum refining and petrochemical industry will be discussed.									KURSUS ELEKTIF BAGI PELAJAR TAHUN 3 KE ATAS SAHAJA
					SEM 1 18/19	01	MON	14:00-14:50	V-BK-03	L	30	Y	01823 - AZBAH 0366 - MHBAR	08/01/2019 - PM	
								15:00-15:50	V-BK-03	L	30	Y			
							TUE	14:00-14:50	V-BK-03	L	30	Y			
		3	**BSK3523**	**OLEOCHEMISTRY**	This course covers various aspects of oils and fats, including oleochemical derivatives. Oleochemical compounds are environmentally friendly chemicals that can be produced from raw material of oils and fats from plant, animal and petroleum by cracking process, or modification. In recent times, with depleting oils from fossil origin, oils and fats of non-fossil origin have started to make great re-entries into various industries including the fuel sector. The advantage of such oils and fats is that their sources are renewable. Research in the field of Oleochemistry has been progress rapidly in Malaysia. This allows our country to continue to emerge as a developed country that is competitive and continues to lead the global oleochemical industry. In this course, recent trends in research and development of Oleochemistry will be discussed.									KURSUS ELEKTIF BAGI PELAJAR TAHUN 3 KE ATAS SAHAJA

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	BSK3523	OLEOCHEMISTRY		SEM 1 18/19	01	MON	16:00-16:50	V-BK-03	L	30	Y	01769 - SBZ	10/01/2019 - PM	
								WED	11:00-11:50	V-BK-03	L	30	Y			
									12:00-12:50	V-BK-03	L	30	Y			
		3	BSK3533	POLYMER CHEMISTRY	The course highlight the fundamental principles of polymer chemistry and technology. The discussion covers the reactions mechanism and types of polymers based on reactions category. The general characteristics of polymer, polymerization process, polymer synthesis, specific characteristic of polymer including thermal, morphological and reheolocal properties. The progress / development of industrial polymers using the advanced technologies. The role played by polymer in the universe, earth, living system and human society is realized and a better understanding of polymeric materials in daily life.											KURSUS ELEKTIF BAGI PELAJAR TAHUN 3 KE ATAS SAHAJA
						SEM 1 18/19	01	MON	08:00-08:50	V-BK-01	L	30	Y	01747 - RABR		
									09:00-09:50	V-BK-01	L	30	Y			
								TUE	13:00-13:50	V-BK-01	L	30	Y			
		3	BSK3593	ENVIROMENTAL CHEMISTRY	This course introduces the concepts of environmental science, environmental analysis, and environmental issues. It covers some fundamental aspects of the science of atmosphere, waters, and soil. This course covers environment quality guidelines used in Malaysia. It also covers the environmental monitoring strategies and analysis of inorganic and organic analyte in environment.											KOD INI DIGUNAKAN OLEH SESI 2012/2013 SAHAJA KURSUS ELEKTIF BAGI PELAJAR TAHUN 3 KE ATAS SAHAJA
						SEM 1 18/19	01	FRI	09:00-09:50	V-BK-03	L	30	Y	01388 - TJH	04/01/2019 - AM	
									10:00-10:50	V-BK-03	L	30	Y			
								THU	10:00-10:50	V-BK-03	L	30	Y			
		3	BSK3633	MEDICINAL CHEMISTRY	The medicinal chemistry course discusses the introduction of Medical plants, important source of drugs and role in drugs discovery. This course describes the Extraction of lead bioactive compounds, their chemistry, isolation and purification novel drugs, transform of simple drugs into bioactive compounds. This course focusing on the key concepts of drugs and their synthesis application human health. Med. Chem. course targeting the chemistry of drugs and their metabolism, and how a drug act in metabolic pathway. These contents of course have potential understanding about enzymes inhibitions and mechanism in drugs synthesis and application. Through a study of the selected enzymes inhibitors, the batter view of drugs mechanism could be predictable. Particular emphasis is placed on the antibacterial agents underlying mechanistic pathways and role of antibiotics. This course also focusing on the key concepts of Structure Activity Relationship of drugs and affects and importance. This course comprises about Nucleic acid, DNA and RNA and medicinally importance in genetic and role in mutation.											
						SEM 1 18/19	01	THU	08:00-08:50	V-BK-03	L	30	Y	01892 - MFFBMA 1870 - MNA	06/01/2019 - AM	
									09:00-09:50	V-BK-03	L	30	Y			
								TUE	17:00-17:50	V-BK-03	L	30	Y			
		3	BSP3112	CERAMICS	This course exposes students to ceramic materials in general. Learning activities cover several main aspects of ceramics: i.e. (i) The crystal structure of ceramics, (ii) the grain growth of ceramics during sintering, (iii) oxide and non-oxide ceramics, (iv) defects in ceramics, (v) interfaces in polycrystal ceramics, (vi) phase boundaries and (vii) mechanical properties of ceramics. Lectures will be conducted two hours per week; with two assignments throughout the semester. Learners are required to sit for two tests, and series of quizzes to ensure sufficient fundamental knowledge. Upon completion of the course, the learners should be able to (i) hypothesize alternative approaches to solve problems related to ceramics using fundamental approach, and (ii) demonstrate good ethics and professionalism during accomplishment of given tasks.											
						SEM 1 18/19	01	MON	08:00-08:50	V-BK-02	L	30	Y	01877 - RBN	10/01/2019 - AM	
									09:00-09:50	V-BK-02	L	30	Y			
		3	BSP3153	POLYMERS												KURSUS BAHARU BERMULA PADA SEMESTER 1 2016/2017
						SEM 1 18/19	01	FRI	11:00-11:50	V-BK-02	L	30	Y	01747 - RABR	11/01/2019 - AM	
								TUE	11:00-11:50	V-BK-02	L	30	Y			
									12:00-12:50	V-BK-02	L	30	Y			
		3	BSP3162	COMPOSITES												KURSUS BAHARU BERMULA PADA

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	BSP3162	COMPOSITES										SEMESTER 1 2016/2017	
					SEM 1 18/19	01	WED	15:00-15:50	V-BK-02	L	30	Y	01575 - NBS	12/01/2019 - AM	
								16:00-16:50	V-BK-02	L	30	Y			
		3	BSP3183	FAILURE ANALYSIS											KURSUS BAHARU BERMULA PADA SEMESTER 1 2016/2017
					SEM 1 18/19	01	THU	09:00-09:50	V-BK-02	L	30	Y	01497 - MABJ 01664 - FHBZ	04/01/2019 - PM	
								10:00-10:50	V-BK-02	L	30	Y			
							TUE	17:00-17:50	V-BK-02	L	30	Y			
		3	BSP3452	ADVANCE MATERIAL LABORATORY	Learners are introduced to practical and hands-on activities; inclusive of (i) manipulation of instruments to perform synthesis/preparation of materials, quantitative and qualitative characterization of materials, and (ii) composition of scientific report. Learners need to synthesis functional materials i.e., quantum dots, nanowires, nanoparticles, liquid crystals, organic dyes, organometallic frameworks, and solid polymer electrolytes; using wet chemical process, electrospinning machine, and microwave technique.										
					SEM 1 18/19	01	THU	14:00-14:50	FIST-L-OCL	B	30	N	01009 - SKBM@L 0936 - IIBM		
								15:00-15:50	FIST-L-OCL	B	30	N			
								16:00-16:50	FIST-L-OCL	B	30	N			
		3	BSP3462	POLYMER & COMPOSITE LABORATORY											KURSUS BAHARU BERMULA PADA SEMESTER 1 2016/2017
					SEM 1 18/19	01	MON	14:00-14:50	FIST-L-BI	B	30	N	01575 - NBS		
								15:00-15:50	FIST-L-BI	B	30	N			
								16:00-16:50	FIST-L-BI	B	30	N			
		3	BSP3472	METAL & CERAMIC LABORATORY											KURSUS BAHARU BERMULA PADA SEMESTER 1 2016/2017
					SEM 1 18/19	01	TUE	08:00-08:50	FIST-L-PL	B	30	N	01733 - RBR 2278 - AGES		
								09:00-09:50	FIST-L-PL	B	30	N			
								10:00-10:50	FIST-L-PL	B	30	N			
		4	BSB3163	PLANT AND MAMMALIAN CELL TECHNOLOGY	Topics will be discussed in this course includes concepts, techniques and applications of plant and mammalian cell culture; principle of totipotency; essential equipment of a tissue and cell culture facility; growth media preparation; methods for growing and store suspension and adhesion cultures; different cell type such as embriogenic culture, callus, independent cell, and stem cells; as well as benefits from clone reproduction in agriculture, livestock, medicine, and other related fields. Principle and benefit of cryo preservation and germplasm collection also will be discussed further.										SUBJEK INI PERLU DIAMBIL SEKALI DENGAN BSB3441/PALNT AND MAMMALIAN CELL TECHNOLOGY LAB
					SEM 1 18/19	01	TUE	13:00-13:50	W-DK-14	L	30	Y	01475 - TSH 01615 - NBZ	09/01/2019 - PM	
							WED	12:00-12:50	W-DK-17	L	30	Y			
								13:00-13:50	W-DK-17	L	30	Y			
		4	BSB4173	EXTRACTION AND BIOSEPARATION	This course introduces the basic principle of extraction, separation and purification of bioproducts together with theory and principle of related separation instrument. In extraction lab sessions, students will be exposed on extraction methods of nucleic acids, proteins and metabolic compounds. While in bioseparation lab sessions, students will be exposed on separation and purification principles, techniques including separation by liquid chromatography, filtration, precipitation, sedimentation, crystallization and drying process.										
					SEM 1 18/19	01	THU	14:00-14:50	W-DK-12	L	60	Y	01812 - HPK 1896 - SSR	06/01/2019 - PM	
							TUE	14:00-14:50	W-DK-12	L	60	Y			
								15:00-15:50	W-DK-12	L	60	Y			
		4	BSB4422	EXTRACTION AND BIOSEPARATION LABORATORY	This course exposes students the principle of extraction, separation and purification of bioproducts together with related separation instrument. In the extraction laboratory sessions, students will be exposed on extraction methods of nucleic acids, proteins and metabolic compounds. While in										

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	**BSB4422**	**EXTRACTION AND BIOSEPARATION LABORATORY**	bioseparation laboratory sessions, students will be exposed on separation and purification techniques.										
					SEM 1 18/19	01	MON	08:00-08:50	FIST-L-BP	B	30	N	01812 - HPK 1896 - SSR		
								09:00-09:50	FIST-L-BP	B	30	N			
								10:00-10:50	FIST-L-BP	B	30	N			
						02	MON	14:00-14:50	FIST-L-BP	B	30	N	01812 - HPK 1896 - SSR		
								15:00-15:50	FIST-L-BP	B	30	N			
								16:00-16:50	FIST-L-BP	B	30	N			
		4	**BSK4153**	**ADVANCE INSTRUMENTATION TECHNIQUE**	This course is designed to produce graduates who have knowledge of advanced instrumentation involved in chemical-related industries and sectors (i.e. oil and gas, material, bio-related, commercial testing laboratory, environment). Topics discussed in this course cover physical and chemical testing, surface analysis, trace element analysis, thermal analysis and molecular testing. Students will learn the theory of the selected advanced instrumentation techniques, their operation and apply them into different chemical-related applications. Upon completion, students should be able to interpret and analyse the data obtained from each instruments										
					SEM 1 18/19	01	FRI	08:00-08:50	V-BK-03	L	60	Y	01389 - CKF 01464 - GPAM 01769 - SBZ 01814 - ANBM 01823 - AZBAH 0366 - MHBAR 1605 - FS 1870 - MNA	12/01/2019 - PM	
							MON	08:00-08:50	V-BK-03	L	60	Y			
								09:00-09:50	V-BK-03	L	60	Y			
		4	**BSP4152**	**MATERIAL PROCESSING**	The course is designed to offer a generic and broad view of material processing technology Learning activities are focused on industrial scale-material processing concepts; such as (i) product identification, (ii) design and concept education, (iii) materials selection (iv) product development, and (v) product presentation. This course will provide learners an opportunity to develop personal skills and knowledge while working with metal, polymer, ceramic and composite materials which commonly used in the manufacturing and construction industries. Industry visit to polymer and metal production based companies (e.g., Top Glove Sdn Bhd, Asturi Sdn Bhd & Amsteel Sdn Bhd) is scheduled; to ensure sufficient industrial exposure to the learners. Assignment is given to further strengthen the understanding of the course. The activities incorporated in this course are to create an active participation (psychomotor/ critical thinking & problem solving) during the lecture sessions. Learners need to sit for mid-term, final semester examinations, and four quizzes; to ensure sufficient theoretical and fundamental knowledge. Learners should be able to (i) hypothesize alternative approaches to solve problems using the knowledge of rheology, and characterizations in industry and research domains, and (ii) practice and cultivate entrepreneurial skills during presentation of idea; upon completion of the course.										
					SEM 1 18/19	01	TUE	14:00-14:50	V-BK-02	L	50	Y	01660 - ASBS	08/01/2019 - AM	
								15:00-15:50	V-BK-02	L	50	Y			
		4	**BSP4163**	**NANOTECHNOLOGY**	Learning activities are focused on (i) basic theory, (ii) classification of nanomaterials (i.e., 0-D, 1-D, 2-D and 3-D), (iii) synthesis of nanomaterials (i.e., inert-gas inspection, sol-gel deposition, molecular self-assembly, physical vapour deposition and milling mechanical alloying), (iv) characterization techniques (i.e., scanning tunnelling microscope, atomic force microscope, energy dispersive spectroscopy and Raman spectroscopy technique), and (v) application of nanomaterials in science and technology. The stated focus are planned to be delivered during lectures; which cover the functions of nanomaterials (i.e., nanosensors, carbon nanotubes, quantum dots nanoparticles) which acts as optical, chemical and biosensors in various applications (i.e., food and agriculture, medical, water treatment and automotive industry). A project-based assignment is designed to enhance learner¿s cognitive and psychomotor skills (e.g., nanostructures in nature and nanomaterial in art and culture heritage). Learners need to sit for mid-term, final semester examinations, and four quizzes (i.e., two offline quizzes during class, and two online-based quizzes); to ensure sufficient theoretical and fundamental knowledge. Learners should be able to (i) explain and solve related problems in nanotechnology based on the tools, methods and applications and (ii) develop new idea and create alternative approaches for problem solving by considering the concerns and challenges in nanotechnology.										

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	**BSP4163**	**NANOTECHNOLOGY**											
					SEM 1 18/19	01	FRI	08:00-08:50	W-DK-14	L	50	Y	01575 - NBS 01877 - RBN	13/01/2019 - AM	
							MON	10:00-10:50	W-DK-14	L	50	Y			
								11:00-11:50	W-DK-14	L	50	Y			
		4	**BSP4523**	**RECYCLE TECHNOLOGY**	Material resources to support our industrial age have become increasingly scarce. On the other hand, garbage or trashes or solid wastes resulted from our economic system that urges disposable lifestyles have become difficult problem to solve for those responsible for their management. Much of these discarded materials which could not be otherwise reused, sold, or salvaged may contain valuable amount of materials and or energy if appropriate technology and management are applied to convert these wastes to wealth. This course deals with materials recycling and recovery. The course content includes four parts, i.e. (1) Principles of Solid Waste Management, (2) Materials Recycling, (3) Hazardous Waste Recovery, and (4) Future Strategies for Waste Management. A problem-based assignment is designed to encourage the learners to incorporate technopreneurial skills (e.g., identifying materials to be recycled, proposing a business plan and recycling methods). Learners need to sit for mid-term, final semester examinations, and four quizzes (i.e., two offline quizzes during class, and two online-based quizzes); to ensure sufficient theoretical and fundamental knowledge. Learners should be able to (i) hypothesize alternative approaches to solve problems related to recycle technology, and (ii) practise and cultivate entrepreneurial skills during presentation of idea; upon completion of the course.									
					SEM 1 18/19	01	FRI	09:00-09:50	V-BK-02	L	30	Y	0936 - IIBM	12/01/2019 - PM	
								10:00-10:50	V-BK-02	L	30	Y			
							THU	13:00-13:50	V-BK-02	L	30	Y			
			BSB2133	**CELL MOLECULAR BIOLOGY**	This course discusses fundamental concepts of cell biology, structure and function of cellular organelles and its their biomolecules. Emphasis will be given on compositions, structures and functions of cell membrane and concepts of cell division. The course also includes discussions on applications of cell biology such as cancer, pathogen infections and stem cells.Concepts of molecular biology, gene expressions and its control are also discussed. Brief introductions on techniques of molecular biology such as DNA/RNA extraction, polymerase chain reaction (PCR), and gene cloning also explained in this course.									BERMULA SESI 2016/2017 DAN PELAJAR WAJIB MENGAMBIL BERSAMA KURSUS LABORATORY BSB2472 / CELL MOLECULAR BIOLOGY LABORATORY
					SEM 1 18/19	01	FRI	09:00-09:50	W-DK-12	L	45	Y	01615 - NBZ	10/01/2019 - AM	
								10:00-10:50	W-DK-12	L	45	Y			
							WED	10:00-10:50	W-DK-12	L	45	Y			
			BSB2223	**LABORATORY QUALITY MANAGEMENT & VALIDATION**	This course introduces the Good Laboratory Practice (GLP) and ISO 17025 Principles and Requirements for high-stakes testing and calibration laboratories. The quality infrastructure supporting testing and research laboratory management will be introduced with many aspects of laboratory quality management and the way to achieve recognition and certification. In addition, different perspectives and theories of method validation including issues in validating, testing, research method and measurement of uncertainty will be addressed.									BERMULA SESI 2016/2017
					SEM 1 18/19	02	MON	13:00-13:50	W-DK-16	L	45	Y	01737 - WNBWI VP0021 - MM	04/01/2019 - PM	
							WED	12:00-12:50	W-DK-16	L	45	Y			
								13:00-13:50	W-DK-16	L	45	Y			
			BSB3503	**BIOMANUFACTURING**	This course provides a brief description about process plant design and basic fundamental of Good Manufacturing Practice (GMP). It is important to know all processes in plant and distinguish between them. Nowadays, GMP is known as an essential backbone for compliance in good manufacturing practices. Therefore, students will learn how to design flowsheets in process plant and able to explain all processess that involved in manufacturing for example upstreaming, scale up and downstreaming process. Other than that, students will learn how to construct a feedback and feedforward system in biomanufacturing. Students also will be introduced to GMP, facilities related, documentation as well as will be exposed to important and related components in commercialization such as issues, biosafety, regulations, facilities and expertise needed in biotechnology industries.									

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BSB3503	BIOMANUFACTURING	SEM 1 18/19	01	TUE	11:00-11:50	V-BK-01	L	30	Y	2056 - RY	11/01/2019 - PM	
								12:00-12:50	V-BK-01	L	30	Y			
							WED	11:00-11:50	V-BK-01	L	30	Y			
			BSB3593	BIOSENSOR TECHNOLOGY	This course discusses current concepts, terms and applications of biosensor technology. This course integrates knowledge from various fields such as genetic engineering, immuno techniques and protein engineering for the production of biosensor devices in multitude of applications such as medical, food analysis, clinical diagnostics and environmental monitoring. The course also focuses on the classification and the principles of the various types of biosensors, various measurements involved, biological materials or bioreceptors, transducer descriptions, biosensor characteristics and their recent applications.										
					SEM 1 18/19	01	FRI	11:00-11:50	W-DK-14	L	35	Y	2104 - AK	06/01/2019 - AM	
							THU	11:00-11:50	W-DK-14	L	35	Y			
								12:00-12:50	W-DK-14	L	35	Y			
			BSF2112	INDUSTRY QUALITY MANAGEMENT	This course focuses on the management of quality for manufacturing and service sectors to achieve global competitiveness. Emphasis is placed on new techniques for managing quality. This course is divided into two parts. Part one provides an introduction to quality assurance principles, including (i) Good Manufacturing Practices (GMP), (ii) ISO 9000 family and (iii) various continuous improvement techniques and (iv) audit process. Part two focuses on the quality control system, which is concerned with (i) quality control tools used in industries, (ii) acceptance sampling, (iii) statistical data analysis, (iv) reliability and maintainability, and (v) cost of quality.										
					SEM 1 18/19	01	WED	10:00-10:50	W-DKU-S-01	L	30	Y	01277 - NBA 01747 - RABR	13/01/2019 - PM	
								11:00-11:50	W-DKU-S-01	L	30	Y			
						02	WED	10:00-10:50	W-DKU-S-01	L	30	Y	01277 - NBA 01747 - RABR		
								11:00-11:50	W-DKU-S-01	L	30	Y			
						03	WED	10:00-10:50	W-DKU-S-01	L	30	Y	01277 - NBA 01747 - RABR		
								11:00-11:50	W-DKU-S-01	L	30	Y			
			BSK2223	LABORATORY QUALITY MANAGEMENT & VALIDATION	This course introduces the Good Laboratory Practice (GLP) and ISO 17025 Principles and Requirements for high-stakes testing and calibration laboratories. The quality infrastructure supporting testing and research laboratory management will be introduced with many aspects of laboratory quality management and the way to achieve recognition and certification. In addition, different perspectives and theories of method validation including issues in validating, testing, research method and measurement of uncertainty will be addressed.									BERMULA SESI 2016/2017	
					SEM 1 18/19	01	MON	13:00-13:50	W-DK-16	L	30	Y	01737 - WNBWI VP0021 - MM	04/01/2019 - PM	
							WED	12:00-12:50	W-DK-16	L	30	Y			
								13:00-13:50	W-DK-16	L	30	Y			
			BSK3573	FLAVOR AND FRAGRANCE CHEMISTRY	"This course is an introduction to aroma chemicals, essential oils, fragrances and flavour compositions for the food, cosmetics and pharmaceutical industry. The present state-of-the-art technology, the future use of resources and approaches for the production of the respective chemical compounds will be discussed. Another section is devoted to the description of the renewable resources of flavours: spice plants, fruits from moderate to tropical climates, vegetables, fermented and heated plants. Analytical methods, such as gas chromatography coupled to human or electronic noses or to a mass spectrometer, will be outlined. Consumer trends, legal and safety aspects will also be discussed. Novel renewable resources are sourced from biotechnology; enzymes, for example, bio-transform cheap substrates to produce flavours de novo "									KURSUS ELEKTIF BAGI PELAJAR TAHUN 3 KE ATAS SAHAJA	

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
					Sem / Sec / Day / Time / Loc / Mode / Cap / Exam / Staff / Exam Schedule	Pre-Requisite
GAMBANG	DEGREE		BSK3573	FLAVOR AND FRAGRANCE CHEMISTRY	SEM 1 18/19 · 01 · MON 13:00-13:50 V-BK-03 L 30 Y · THU 13:00-13:50 V-BK-03 L 30 Y · 14:00-14:50 V-BK-03 L 30 Y · 0373 - SNBT · 11/01/2019 - PM	
			BSK3583	ELECTROCHEMISTRY	This course gives an overview of electrode processes, showing the way in which the fundamental components of the subject come together in an electrochemical experiment. There are individual discussions of thermodynamics and potential, electron-transfer kinetics and mass transfer in electrochemical system. Concept from these basics areas are integrated together in treatments of various methods. The interfacial structure, adsorption and modified electrode will also be discussed. By mastering the fundamental in electrochemical processes, their applications in various aspects will be discussed.	KURSUS ELEKTIF BAGI PELAJAR TAHUN 3 KE ATAS SAHAJA
					SEM 1 18/19 · 01 · MON 12:00-12:50 V-BK-05 L 30 Y · THU 11:00-11:50 V-BK-03 L 30 Y · 12:00-12:50 V-BK-03 L 30 Y · 01389 - CKF	
			BSP3503	SOLAR CELL TECHNOLOGY	Learning activities are focused on (i) fundamental of photoelectric conversion (i.e., charge excitation, transportation, separation, and collection), (ii) mechanisms (i.e., electron injection efficiencies, energy loss, and multi exciton generation), (iii) fabrications, and (iv) characterizations of solar cell. The stated focus are planned to be delivered during lectures; which cover four main technologies (i.e., monocrystalline, thin film, dye sensitized, and quantum dots solar cell). Industry visit to solar cell-based companies (e.g., AUO Sunpower Sdn Bhd, RadTech Sdn Bhd, and HBE Gratings Sdn Bhd) is scheduled; to ensure sufficient exposure of Silicon-based solar cell processing in industry to the learners.	
					SEM 1 18/19 · 01 · THU 11:00-11:50 V-BK-02 L 30 Y · WED 10:00-10:50 V-BK-02 L 30 Y · 11:00-11:50 V-BK-02 L 30 Y · 01009 - SKBM@L · 06/01/2019 - AM	
			BSP3513	ELECTRONIC CERAMICS	This course introduces and discusses the types and properties of electronic ceramics. The course covers ceramic materials for such applications; i.e., conductor, magnetic materials, electro-optic materials, superconductor, pyroelectric and piezoelectric materials as well as their fabrication and characterizations. Industrial visit is planned to introduce students in depth understanding for electronic ceramics applications. Students will be assigned to have a topic of electronic ceramics application and give a presentation to incorporate with technopreneurial skills. Written test such as quizzes (both offline and online), mid-term test and final test will be given to evaluate the students learning. Upon completion of the course, the students are able to solve the basic problem of electronic ceramics development and applications as well the capability in analyzing and providing the alternative solution of problem regarding the electronic ceramics applications.	
					SEM 1 18/19 · 01 · THU 12:00-12:50 V-BK-02 L 30 Y · WED 08:00-08:50 V-BK-02 L 30 Y · 09:00-09:50 V-BK-02 L 30 Y · 2278 - AGES · 07/01/2019 - PM	
			BSP4513	CORROSION	Learning activities are focused on (i) introduction to corrosion (i.e., main reasons to study corrosion), (ii) mechanism (i.e., polarization, passivation, and corrosion rate,) (iii) types of corrosion, and (iv) corrosion control (material selection, corrosion inhibitor, cathodic and anodic protection). This course will be delivered via lectures; which begin with explanation on the principle of corrosion including related electrochemical reactions, polarization and passivity as well as applications of thermodynamics to corrosion and electrode kinetics. All types of corrosion namely aqueous and non-aqueous corrosion, atmospheric corrosion, biological corrosion, and corrosion in selected environments such as soil, concrete, marine and sulphur bearing solutions are discussed. Introduction on basic principle of corrosion control for all types of corrosion are also discussed. A problem-based assignment is designed to develop learners¿ ability to analyze and carry out corrosion investigations, apply theoretical knowledge, and develop technical report writing skills. Learners need to sit for mid-term, final semester examinations, and four quizzes (i.e., two offline quizzes during class, and two online-based quizzes); to ensure sufficient theoretical and fundamental knowledge.	

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BSP4513**	**CORROSION**	Learners should be able to apply comprehensive knowledge, identify problems and formulate creative and innovative solutions to corrosion problems upon completion of the course.										
					SEM 1 18/19	01	TUE	13:00-13:50	V-BK-02	L	60	Y	01733 - RBR	09/01/2019 - PM	
							WED	13:00-13:50	V-BK-02	L	60	Y			
								14:00-14:50	V-BK-02	L	60	Y			
NO TIMETABLE	DEGREE	4	**BSB4324**	**FINAL YEAR PROJECT 2**	This course is intended as the second part of Final Year Project I (BSB3302). The students are required to conduct the research, collect and analyze data, discuss the findings and form the conclusions. At the end of the semester, each student is required to present their findings and submit a dissertation. Evaluation is based on oral presentation and submitted dissertation.										
					SEM 1 18/19	01					60	N	TBA		
		4	**BSP4314**	**FINAL YEAR PROJECT II**	This course is a continuation of BSP3023¿Final Year Project II. Learning activities are directed on completion of individual research project (by advisor monitoring), thesis preparation and project presentation. The stated focus are planned to be delivered by active/engaged learning with advisor, practical laboratory work, self-reading and draft preparation. Students will gather suitable data to answer research objectives; handling data analysis and discussion prior thesis writing. Students are assessed based on complete draft of thesis; effective communications of their findings during oral presentation and log book arrangement. At the end of this term, each student is expected to submit a fully developed and presented project that reflects the student¿s command of the tools and processes of material technology knowledge.										
					SEM 1 18/19	01					46	N	TBA		
		4	**BSP4812**	**INDUSTRIAL TRAINING**											
					SEM 1 18/19	01					60	N	TBA		


FACULTY OF
ENGINEERING TECHNOLOGY

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Remark	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE	1	BTK1112	INTRODUCTION TO OCCUPATIONAL SAFETY AND HEALTH												
						SEM 1 18/19	01	WED	08:00-08:50	FTEKD3	L	38	Y	01462 - NBMH	04/01/2019 - AM	
									09:00-09:50	FTEKD3	L	38	Y			
							02	THU	08:00-08:50	FTEKD3	L	37	Y	01462 - NBMH		
									09:00-09:50	FTEKD3	L	37	Y			
		1	BTK1134	ANALYTICAL CHEMISTRY												
						SEM 1 18/19	01	MON	10:00-10:50	FTEKD3	L	25	Y	0070 - ZBAW	08/01/2019 - AM	
									11:00-11:50	FTEKD3	L	25	Y			
									12:00-12:50	FTEKD3	L	25	Y			
							01L	TUE	14:00-14:50	ET-L-04	B	25	Y	0319 - MABHR		
									15:00-15:50	ET-L-04	B	25	Y			
							02	MON	10:00-10:50	FTEKD3	L	25	Y	0070 - ZBAW		
									11:00-11:50	FTEKD3	L	25	Y			
									12:00-12:50	FTEKD3	L	25	Y			
							02L	THU	14:00-14:50	ET-L-04	B	25	Y	0319 - MABHR		
									15:00-15:50	ET-L-04	B	25	Y			
		1	BTK1142	HAZARD RECOGNITION AND RISK MANAGEMENT												
						SEM 1 18/19	01	MON	16:00-16:50	T-DK-03	L	40	Y	01297 - NSBS	10/01/2019 - AM	
									17:00-17:50	T-DK-03	L	40	Y			
		1	BTK1213	INDUSTRIAL PSYCHOLOGY												
						SEM 1 18/19	01	TUE	14:00-14:50	FTEKD4	L	40	Y	0070 - ZBAW	12/01/2019 - AM	
									15:00-15:50	FTEKD4	L	40	Y			
									16:00-16:50	FTEKD4	L	40	Y			
		1	BTK1233	HUMAN BODY ANATOMY AND PHYSIOLOGY												
						SEM 1 18/19	01	MON	14:00-14:50	T-DK-04	L	40	Y	0070 - ZBAW	12/01/2019 - PM	
									15:00-15:50	T-DK-04	L	40	Y			
									16:00-16:50	T-DK-04	L	40	Y			
		1	BTO1223	ELECTRICAL FUNDAMENTAL												
						SEM 1 18/19	01G	FRI	08:00-08:50	T-BK-02	L	30	Y	01867 - MNBZ		
									09:00-09:50	T-BK-02	L	30	Y			
								WED	10:00-10:50	T-BK-01	T	30	Y			
									11:00-11:50	T-BK-01	T	30	Y			
		1	BTP1113	ORGANIC CHEMISTRY	This module aims to give students a strong foundation in the fundamental principles and theories used to interpret the different properties of organic functional groups. The laboratory course aims to provide students with a practical understanding of the techniques to perform chemical synthesis of organic compounds and identification of their functional groups.											
						SEM 1 18/19	01	WED	10:00-10:50	T-DK-06	L	40	Y	0144 - MABS 01819 - SUBM 0740 - RBH	04/01/2019 - AM	
									11:00-11:50	T-DK-06	L	40	Y			
							01L	FRI	15:00-15:50	ET-L-04	B	20	Y	0740 - RBH		
									16:00-16:50	ET-L-04	B	20	Y			
							02L	MON	10:00-10:50	ET-L-04	B	20	Y	0144 - MABS		
									11:00-11:50	ET-L-04	B	20	Y			
		1	BTP1133	PROCESS CHEMISTRY & PHARMACEUTICAL ENGINEERING												

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BTP1133**	**PROCESS CHEMISTRY & PHARMACEUTICAL ENGINEERING**	This course emphasizes on the several mechanisms involved in chemical process. It signifies different applications of liquid- liquid, vapour- liquid and solid- liquid separation process which consists of various unit operations that are commonly used in industry.										
					SEM 1 18/19	01	MON	16:00-16:50	FTEKD6	L	40	Y	01786 - WNHBWZ	05/01/2019 - AM	
								17:00-17:50	FTEKD6	L	40	Y	0740 - RBH		
						01L	FRI	10:00-10:50	FT-L-01	B	20	Y	0740 - RBH		
								11:00-11:50	FT-L-01	B	20	Y			
						02L	MON	10:00-10:50	FT-L-01	B	20	Y	0740 - RBH		
								11:00-11:50	FT-L-01	B	20	Y			
		1	**BTP1143**	**ENVIRONMENTAL TECHNOLOGY**	The course aims to provide students with the basic knowledge of pharmaceuticals in the environment and also presents the fundamental concepts and techniques in waste analysis. This course focuses on the types of pharmaceutical wastes, their sources and life cycle in the environment as well as their effects on human and animal health. Students are also exposed to proper pharmaceutical waste disposal techniques and green and sustainable pharmaceutical practices.										
					SEM 1 18/19	01	FRI	08:00-08:50	T-DK-04	L	40	Y	01818 - MABA	07/01/2019 - PM	BTP1213
								09:00-09:50	T-DK-04	L	40	Y	0344 - MFI		
		1	**BTP1213**	**BIOLOGY FOR ENGINEERS**	This course aims to provide the students with knowledge of the structure of prokaryotic and eukaryotic cells and biomolecules they are made from. The basic principle of microbiology, including organisms, growth and their industrial application.										
					SEM 1 18/19	01	TUE	08:00-08:50	FTEKD6	L	40	Y	01848 - NBHAH	06/01/2019 - AM	
								09:00-09:50	FTEKD6	L	40	Y	0319 - MABHR		
		1	**BTP1312**	**MATERIAL & PROCESS**	This course provides the student with fundamental knowledge in materials and processes of pharmaceutical industry. It will provide students with an overview of the relationship between the structure and properties of materials and their influences on manufacturing processes. It will provide the student with the knowledge required to implement both manufacturing process selection through the analysis of design requirements.										
					SEM 1 18/19	01	TUE	12:00-12:50	FTEKD3	L	40	Y	0115 - MSBAM	12/01/2019 - PM	
													0144 - MABS		
		1	**BTP1513**	**ENGINEERING SCIENCE**	This subject is an introduction to the basic principles of physics and it explores concepts in the areas of mechanics, properties of matter, heat, waves, sound, light and atomic physics which are relevant for engineering students.										
					SEM 1 18/19	01	FRI	08:00-08:50	T-DK-03	L	40	Y	0144 - MABS	05/01/2019 - PM	
								09:00-09:50	T-DK-03	L	40	Y	01786 - WNHBWZ		
													0520 - MMBAR		
						01L	MON	10:00-10:50	ET-L-03	B	20	Y	0520 - MMBAR		
								11:00-11:50	ET-L-03	B	20	Y			
						02L	THU	14:00-14:50	ET-L-03	B	20	Y	0144 - MABS		
								15:00-15:50	ET-L-03	B	20	Y			
		1	**BTP1523**	**ELECTRICAL FUNDAMENTALS**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BTP1523**	**ELECTRICAL FUNDAMENTALS**	Familiarise students with the principles of energy storage and transport in electric and magnetic circuits. The course will provide the knowledge and skills required to safely build electric circuits and to measure and analyse the currents, voltage and power in circuit.										
					SEM 1 18/19	01	TUE	14:00-14:50 15:00-15:50	FTEKD6 FTEKD6	L L	40 40	Y Y	0070 - ZBAW 0131 - MABMH 0483 - SBMN	04/01/2019 - AM	
						01L	TUE	10:00-10:50 11:00-11:50	ET-L-05 ET-L-05	B B	20 20	Y Y	0483 - SBMN		
						02L	TUE	08:00-08:50 09:00-09:50	ET-L-05 ET-L-05	B B	20 20	Y Y	0131 - MABMH		
		1	**BTP1613**	**INTRODUCTION TO PHARMACEUTICAL SCIENCE**	This module aims to provide the student with an understanding of the basic in pharmaceutical dosage form, pharmaceutical packaging, the mode of action and the evaluation of the dosage form.										
					SEM 1 18/19	01	WED	08:00-08:50 09:00-09:50	FTEKD6 FTEKD6	L L	40 40	Y Y	0344 - MFI 0740 - RBH 2409 - SM	12/01/2019 - AM	
		1	**BTP1623**	**MANUFACTURING & PROCESSING TECHNOLOGY**	This course is designed to provide the student with an understanding of the equipment unit processes used in pharmaceutical industry and the organization of pharmaceutical manufacturing plant.										
					SEM 1 18/19	01	TUE	16:00-16:50 17:00-17:50	T-DK-04 T-DK-04	L L	40 40	Y Y	0319 - MABHR 2407 - AAK	07/01/2019 - AM	BTP1613
						01L	WED	08:00-08:50 09:00-09:50	ET-L-25-GMP LAB ET-L-25-GMP LAB	B B	20 20	Y Y	0319 - MABHR		
						02L	THU	08:00-08:50 09:00-09:50	ET-L-25-GMP LAB ET-L-25-GMP LAB	B B	20 20	Y Y	0319 - MABHR		
		1	**BTP1712**	**COMPUTER PROGRAMMING FOR ENGINEERS**	Fundamental principles and concepts of C++ programming, with definition of data, expressions, control structure, functions, input and output (I/O stream), preprocessing , basic problem solving and programming techniques, structured programming ideas, fundamental algorithms and data structures (array).										
					SEM 1 18/19	01	MON	12:00-12:50	ET-L-01	L	40	N	0070 - ZBAW		
						01L	THU	14:00-14:50 15:00-15:50	ET-L-01 ET-L-01	B B	20 20	N N	0070 - ZBAW		
						02L	TUE	16:00-16:50 17:00-17:50	ET-L-01 ET-L-01	B B	20 20	N N	0070 - ZBAW		
		1	**BTU1212**	**CHEMISTRY LAB**	In chemistry laboratory the students are responsible to conduct the basic physical, organic chemistry and analytical instrument experiments such as solubility &miscibility (1), chemical equilibrium (2), buffer and pH changes (3), calorimetry (4), gravimetric (5), Limiting reactant (6), Reaction rate (7), Extraction with solvent (8),UV-VIS spectrometer (9), and Melting Point (10). At the end of experiments, the students should be able to inculcate the critical thinking and able to work in safe working condition.										NOTE: GROUP 01A FOR BTV GROUP 02B FOR BTE GROUP 03C FOR BTM
					SEM 1 18/19	01G	TUE	08:00-08:50 09:00-09:50 10:00-10:50 11:00-11:50	ET-L-04 ET-L-04 ET-L-04 ET-L-04	B B B B	30 30 30 30	N N N N	0131 - MABMH		
		1	**BTU1213**	**CHEMISTRY**	Development of the fundamental principles and concepts of chemistry by lecture-demonstration, as well										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BTU1213**	**CHEMISTRY**	as the development of an appreciation of the nature of chemistry as a science. An historical development of the most important concepts and ideas. Methods and limitations of chemistry, its evolution and discussions of the problems currently being solved and created.										
					SEM 1 18/19	01G	MON	14:00-14:50	T-BK-03	L	30	Y	01601 - ABAA	04/01/2019 - AM	
								15:00-15:50	T-BK-03	L	30	Y			
								16:00-16:50	T-BK-03	L	30	Y			
		2	**BTP2153**	**PHARMACEUTICAL FORMULATION METHODS**	This course aims to provide the student with an in-depth knowledge of formulation development, manufacture and process limitations of solid & liquid dosage forms, sustained release products, veterinary products, aerosols and topical products.										
					SEM 1 18/19	01	MON	14:00-14:50	FTEKD6	L	30	Y	0740 - RBH 2407 - AAK	09/01/2019 - AM	BTP1613 BTP1113
								15:00-15:50	FTEKD6	L	30	Y			
		2	**BTP2223**	**PROTEIN BIOCHEMISTRY & MICROBIOLOGY**	This course aims to provide the students with the theoretical and practical fundamentals of the technology in animal and microbial biotechnology. The course focuses on providing understanding of protein biochemistry, protein synthesis mechanism and how the proteins are can be genetically modified. These biological systems are then applied to upstream processes of biopharmaceutical production.										
					SEM 1 18/19	01	MON	14:00-14:50	T-DK-05	L	30	Y	01818 - MABA 0344 - MFI	11/01/2019 - AM	
								15:00-15:50	T-DK-05	L	30	Y			
						01L	WED	08:00-08:50	FTA10L	B	30	Y	0344 - MFI		
								09:00-09:50	FTA10L	B	30	Y			
		2	**BTP2333**	**THERMODYNAMICS**	The course intended to provide students with fundamental knowledge of energy, first law of thermodynamics, enthalpy, entropy, second law of thermodynamics, free energy and equilibrium. Students will also be taught the application of thermodynamics in physical processes which includes solutions of nonelectrolytes and electrolytes, colligative properties, solubility as well as surface and interfaces.										
					SEM 1 18/19	01	THU	10:00-10:50	FTEKD6	L	40	Y	01166 - MTBCK 01567 - RZBE 0344 - MFI	10/01/2019 - AM	
								11:00-11:50	FTEKD6	L	40	Y			
		2	**BTP2412**	**NUMERICAL METHODS & OPTIMIZATION**	This course focuses on the application of numerical methods in solving engineering problems and process optimisation. As the solution of numerical methods often lengthy and time-consuming, the efforts used can be reduced by using computer programming software as problem solving tools such as MATLAB & Microsoft Excel.										
					SEM 1 18/19	01	MON	12:00-12:50	T-DK-02	L	30	Y	01848 - NBHAH	13/01/2019 - AM	
						01T	THU	14:00-14:50	T-BK-03	T	30	Y	01848 - NBHAH		
								15:00-15:50	T-BK-03	T	30	Y			
		2	**BTP2632**	**GMP & QA**	This course aims to provide the students with in-depth understanding of Good Manufacturing Practices with quality assurance in a pharmaceutical manufacturing industry. The course provides on understanding about quality control, quality assurance, validations, complaints, training and documentation in the pharmaceutical manufacturing industry.										
					SEM 1 18/19	01	FRI	08:00-08:50	T-DK-05	L	30	Y	2407 - AAK	13/01/2019 - PM	
								09:00-09:50	T-DK-05	L	30	Y			
		2	**BTP2723**	**INDUSTRIAL NETWORKS**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	BTP2723	INDUSTRIAL NETWORKS	"This subject aims to equip the student with the skills necessary understand various different network topologies and protocols which are encountered in the industrial environment. The students are also familiarised with hardware elements of a typical network system such as cabling, nodes, sensors, network devices and interfaces."										
					SEM 1 18/19	01	TUE	08:00-08:50	Z01-0006	L	30	Y	0070 - ZBAW	05/01/2019 - PM	BTP1712 BTP1523
								09:00-09:50	Z01-0006	L	30	Y			
						01L	MON	16:00-16:50	FSK12	B	30	Y	0070 - ZBAW		
								17:00-17:50	FSK12	B	30	Y			
		3	BTP3163	PROCESS CHEMISTRY & PHARMACEUTICAL ENGINEERING 2	This module aims to provide students with the theoretical and practical fundamentals of scale up and process development in pharmaceutical manufacturing. The process development starts from Research & Development (R&D) stage to waste disposal control.										
					SEM 1 18/19	01	MON	14:00-14:50	T-DK-06	L	40	Y	0144 - MABS	04/01/2019 - AM	BTP1133 BTP2323 BTP2333
								15:00-15:50	T-DK-06	L	40	Y	01735 - RAVK		
						01L	WED	08:00-08:50	ET-L-04	B	20	Y	0144 - MABS		
								09:00-09:50	ET-L-04	B	20	Y			
						02L	FRI	10:00-10:50	ET-L-04	B	20	Y	0144 - MABS		
								11:00-11:50	ET-L-04	B	20	Y			
		3	BTP3243	PROCESS BIOTECHNOLOGY TECHNIQUES	This course aims to provide the students with the theoretical and practical fundamentals of the technology of the biological product separation. The course focuses on providing understanding of bioseparation processes of four RIPP phases which are recovery, isolation, purification and polishing										
					SEM 1 18/19	01	MON	10:00-10:50	T-DK-06	L	40	Y	01818 - MABA	04/01/2019 - AM	BTP2223 BTP1213
								11:00-11:50	T-DK-06	L	40	Y	0319 - MABHR		
													0729 - MZBS		
		3	BTP3353	AUTOMATION SYSTEMS	This course provides an overview of automation in the industry. The course also includes an introduction to automation equipment such as robots and sensors as well as mechanisms in automation such as Pneumatic and Hydraulic System. The application of automation in the pharmaceuticals manufacturing are introduced. Finally, laboratory experiences with automated technology will be emphasised.										
					SEM 1 18/19	01	MON	16:00-16:50	T-BK-02	L	30	Y	0144 - MABS	12/01/2019 - AM	BTP1523 BTP2543
								17:00-17:50	T-BK-02	L	30	Y	0315 - MABM		
		3	BTP3363	MANUFACTURING SYSTEMS LEAN SIX SIGMA	Introduction to modern issues in lean manufacturing systems and practice of lean tools. Topics include overview of lean manufacturing systems, quick changeover, total productive maintenance, pull/just-in-time/kanban, cellular manufacturing, kaizen, wastes identification, productivity measurement, plant layout, and line balance. At the end of the semester the students should be having a basic understanding of the design, operation and control of lean manufacturing systems and be able to use quantitative methods to model, analyze, and optimize such systems.										
					SEM 1 18/19	01	THU	14:00-14:50	FTEKD3	L	32	Y	01880 - MBAH	05/01/2019 - AM	BTP3163 BTP1623
								15:00-15:50	FTEKD3	L	32	Y			
								16:00-16:50	FTEKD3	L	32	Y			
		3	BTP3422	INDUSTRIAL STATISTICS FOR PHARMACEUTICAL ENGINEERS											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	BTP3422	INDUSTRIAL STATISTICS FOR PHARMACEUTICAL ENGINEERS	To provide student with statistical tools (Microsoft EXCEL) for designing experiments, evaluating processes and predicting responses. Exposing students with methods for collecting, analysing, and understanding data, variability, statistical significance, and risks for pharmaceutical industry decisions about processes, products and scientific circumstances. Cover the basic knowledge on statistics and concentrating on specific statistical techniques used in science and industry. Topics include: hypothesis testing and estimation, confidence intervals, single factor experiments, analysis of variance (ANOVA), Taguchi testing, Correlation, Linear regression and multiple regression and Process capability and Statistical process control (SPC)										
					SEM 1 18/19	01	MON	16:00-16:50	ET-L-01	L	30	Y	01848 - NBHAH	12/01/2019 - PM	
								17:00-17:50	ET-L-01	L	30	Y			
		3	BTP3643	REGULATORY AFFAIRS AND VALIDATION FOR ENGINEERS	This module aims to provide the student with a detailed understanding of the requirements of the Good manufacturing practice (GMPs), GMP guidelines around the globe, basic concepts of validation, management of validation program, validation in pharmaceuticals specifically and being introduced to the post-marketing issues.										
					SEM 1 18/19	01	THU	10:00-10:50	T-BK-03	L	30	Y	2409 - SM	10/01/2019 - PM	BTP2632
								11:00-11:50	T-BK-03	L	30	Y			
								12:00-12:50	T-BK-03	L	30	Y			
		3	BTP3652	CONTEMPORARY TRENDS IN PHARMACEUTICAL INDUSTRY	This module aims to provide the student with in-depth knowledge to understand the pharmaceutical business organisation, regulatory parts and recent advanced technological applications.										TOTAL CREDIT HOUR TAKEN MUST NOT BE LESS THAN 114HRS
					SEM 1 18/19	01	MON	08:00-08:50	T-DK-02	L	50	Y	2409 - SM	13/01/2019 - PM	
								09:00-09:50	T-DK-02	L	50	Y			
		3	BTP3732	FACILITIES MANAGEMENT SYSTEMS	This module introduces students an overview of the facilites management in pharmaceutical. This courses introduces the balance of generic management skills core quality of an organization, the value and risk in processes and to be focussed on the facilities operations. These operational skills for the delivery of the facilities services are covered by the management of space, environment, communications and the full range of services that support business effectiveness in the pharmaceutical industry.										
					SEM 1 18/19	01	TUE	10:00-10:50	T-BK-03	L	30	Y	0681 - MABO 2432 - NDBA	06/01/2019 - AM	
								11:00-11:50	T-BK-03	L	30	Y			
		3	BTP3742	TECHNOLOGY TRANSFER	Students shall obtain an understanding of the requirements and possible problem areas in technology transfer. Know the regulatory and production life cycle including raw material sourcing (assess to their physic-chemical properties) from bench top to large scale pilot plant. Expose to design protocols, documentations and execution of cleaning development, commissioning and validation that are necessary for technology transfer. Topics included: Product Life Cycle, Pilot-Plant Studies, Raw Material Sourcing, Cleaning Validation, Commissioning and Validation.										
					SEM 1 18/19	01	MON	16:00-16:50	T-DK-05	L	50	Y	0070 - ZBAW	11/01/2019 - AM	
								17:00-17:50	T-DK-05	L	50	Y			
		4	BTP4173	PROCESS CONTROL	This module aims to provide the student with in-depth knowledge to understand the controlling of manufacturing processes ensuring the product quality and compliance as per the regulatory standards.										
					SEM 1 18/19	01	TUE	10:00-10:50	FTEKD3	L	50	Y	01786 - WNHBWZ 0740 - RBH	05/01/2019 - PM	
								11:00-11:50	FTEKD3	L	50	Y			
		4	BTP4253	PHARMACEUTICAL ANALYTICAL TECHNIQUES	This module provides the theoretical foundation for analytical techniques used in material characterisation, pre-formulation development and Process Analytical Technology (PAT) applications. Apply the handling operation of selected analytical techniques used in pharmaceutical industry. Topics included: Spectroscopy, chromatography, particle analysis, thermal analysis, sensors, electron										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	**BTP4253**	**PHARMACEUTICAL ANALYTICAL TECHNIQUES**	microscopy, microbiological testing, stability testing and metal and mineral trace analysis.										
					SEM 1 18/19	01	THU	14:00-14:50	T-BK-02	L	30	Y	01819 - SUBM	10/01/2019 - AM	BTP2543 BTP1113
								15:00-15:50	T-BK-02	L	30	Y	0344 - MFI		BTP1213
		4	**BTP4663**	**SYSTEMS VALIDATION**	This module aims to provide students with insights about the processes of validation in pharmaceutical industry. Students will be familiarized with a concept of documented evidence that provides an assurance that a specific process, method or system will consistently produce to the required specification in accordance to accepted standards of Good Manufacturing Practice (GMP). This will provide the students with a good basic to construct validation protocols and implement them approproately at the workplace.										
					SEM 1 18/19	01	TUE	14:00-14:50	T-BK-01	L	30	Y	TBA0001 - ES(	12/01/2019 - PM	BTP2632
								15:00-15:50	T-BK-01	L	30	Y			BTP1623
								16:00-16:50	T-BK-01	L	30	Y			BTP3643
															BTP2232
		4	**BTP4752**	**RESEARCH METHODOLOGY**											TOTAL CREDIT HOURS TAKEN MUST NOT BE LESS THAN 76 HRS
					SEM 1 18/19	01	WED	10:00-10:50	T-DK-03	L	50	Y	0070 - ZBAW		BTP4675
								11:00-11:50	T-DK-03	L	50	Y			
								12:00-12:50	T-DK-03	L	50	Y			
			BET1114	**INFRASTRUCTURAL EXPLORATION (STUDIO 1)**	This course will expose students to the fundamental elements of land development and site preparations. In addition, students will be introduced to the basic requirements for public facilities and the impact of land development to the environment. Students will generally work in teams to produce a construction layout that include earthwork, geotechnical considerations, sanitary sewer, stormwater drainage and water supply distribution system. The learning approach of this subjects is a preliminary design driven curriculum with emphasis placed on skills such as problem analysis, communication skills (graphical, oral and written) and computer aided design tools.										
					SEM 1 18/19	01	TUE	10:00-10:50	T-DK-02	L	75	N	01543 - NABM		
								11:00-11:50	T-DK-02	L	75	N	0372 - ABZ		
								12:00-12:50	T-DK-02	L	75	N	0790 - NBPN		
						01L	THU	10:00-10:50	ETIM-S-01	B	38	N	0790 - NBPN		
								11:00-11:50	ETIM-S-01	B	38	N			
						02L	MON	14:00-14:50	ETIM-S-01	B	37	N	0790 - NBPN		
								15:00-15:50	ETIM-S-01	B	37	N			
			BET1123	**INTRODUCTION TO INFRASTRUCTURAL ENGINEERING**	using examples, sketches, pharses and pictures to demonstrate understanding about infrastructural engineering, applying planning principles to generate ideas for infrstructural engineering project, conducting project feasibility study and choosing suitable IT tools as to aid design and documented project outputs										
					SEM 1 18/19	01	MON	16:00-16:50	T-DK-02	L	75	Y	0764 - ZBZ	06/01/2019 - PM	
								17:00-17:50	T-DK-02	L	75	Y	2288 - MNIS		
						01L	THU	14:00-14:50	ETIM-S-02	B	38	Y	0764 - ZBZ		
								15:00-15:50	ETIM-S-02	B	38	Y			
						02L	WED	10:00-10:50	ETIM-S-02	B	37	Y	0764 - ZBZ		
								11:00-11:50	ETIM-S-02	B	37	Y			
			BET1142	**INTRODUCTION TO ENGINEERING SURVEYING**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BET1142**	**INTRODUCTION TO ENGINEERING SURVEYING**	This subject will expose to the students the role of survey engineering in their field. The subject topics encompasses introduction to the engineering surveying, surveying equipment, measurement unit, bearing/angle and distance measurement for horizontal control, vertical distance measurement, coordinate system, and the final setting out for construction work.										
					SEM 1 18/19	01	TUE	16:00-16:50	T-DK-02	L	75	N	0391 - JIBJS 0497 - MBBY 0664 - ABMY 2432 - NDBA		
								17:00-17:50	T-DK-02	L	75	N			
						01L	MON	10:00-10:50	ETIM-L-08	B	38	N	0391 - JIBJS 0497 - MBBY 0664 - ABMY		
								11:00-11:50	ETIM-L-08	B	38	N			
						02L	THU	10:00-10:50	ETIM-L-08	B	37	N	0391 - JIBJS 0497 - MBBY 0664 - ABMY		
								11:00-11:50	ETIM-L-08	B	37	N			
			BET1253	**INTRODUCTION TO ENGINEERING PROBLEM SOLVING**	This course introduces the student to some important engineering tools that will provide the basis for future work and study. The student will be introduced to the concept of a system and the need for multidisciplinary and teamwork in most engineering activities. The course is presented as an initial introduction to problem based learning. All students are expected to contribute and to interact in a positive and constructive manner with other team members. This interaction is assessed. Students are expected to work both independently and as part of a team to provide solutions to projects which demonstrate use of appropriate technology and cultural sensitivity.										
					SEM 1 18/19	01	THU	16:00-16:50	T-DK-02	L	75	Y	01813 - LBMY 0764 - ZBZ		
								17:00-17:50	T-DK-02	L	75	Y			
						01L	TUE	14:00-14:50	ETIM-L-02	B	38	Y	0764 - ZBZ		
								15:00-15:50	ETIM-L-02	B	38	Y			
						02L	MON	10:00-10:50	ETIM-L-02	B	37	Y	0764 - ZBZ		
								11:00-11:50	ETIM-L-02	B	37	Y			
			BET2334	**INFRASTRUCTURAL PROJECT (STUDIO 3)**	This course will introduce students to the use of principal analysis in statically determinate and indeterminate structures. It includes the analysis of internal forces, deflection, and calculation of vertical reaction, shear force, and moment of plane static model. At the end of this course, students should be able to perform basic structural analysis on the typical structure of beam and frames, trusses, and arch.										
					SEM 1 18/19	01	WED	10:00-10:50	T-DK-02	L	66	Y	0497 - MBBY 1768 - AK		
								11:00-11:50	T-DK-02	L	66	Y			
								12:00-12:50	T-DK-02	L	66	Y			
						01L	THU	16:00-16:50	ETIM-L-01	B	33	Y	0497 - MBBY		
								17:00-17:50	ETIM-L-01	B	33	Y			
						02L	THU	08:00-08:50	ETIM-L-01	B	33	Y	0497 - MBBY		
								09:00-09:50	ETIM-L-01	B	33	Y			
			BET2413	**PROJECT SCHEDULING**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
GAMBANG	DEGREE		**BET2413**	**PROJECT SCHEDULING**	Explain the important of schedulling and estimating process in infrastructure project planning. Focus on approach and strategies in developing viable schedules and cost estimation which influences the sucess level of project and organizations. Selected project management tools/software will be introduced during lan session.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	TUE	08:00-08:50	T-DK-02	L	66	Y	01571 - NBA 0790 - NBPN	05/01/2019 - AM	
			09:00-09:50	T-DK-02	L	66	Y			
	01L	MON	16:00-16:50	ETIM-L-03	B	33	Y	0790 - NBPN		
			17:00-17:50	ETIM-L-03	B	33	Y			
	02L	WED	08:00-08:50	ETIM-L-03	B	33	Y	0790 - NBPN		
			09:00-09:50	ETIM-L-03	B	33	Y			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
			BET2483	**PROBLEM SOLVING AND ANALYSIS**	This course will increase a student's ability to work as part of an engineering team. It presents a range of engineering theory and applications through engineering design concepts that are learnt within the context of solving a real world problem. This course focuses primarily on the use of statistical analysis to analyse data, propose solutions, solve problems and to evaluate possible solutions. In addition the student is required to further develop their computer skills (especially Excel) to analyse statistics, illustrate and present the results of their work.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	THU	10:00-10:50	T-DK-02	L	66	N	0770 - MSBW 2288 - MNIS		
			11:00-11:50	T-DK-02	L	66	N			
	01L	THU	14:00-14:50	ETIM-L-02	B	33	N	0770 - MSBW		
			15:00-15:50	ETIM-L-02	B	33	N			
	02L	THU	16:00-16:50	ETIM-L-02	B	33	N	0770 - MSBW		
			17:00-17:50	ETIM-L-02	B	33	N			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
			BET2492	**CONSTRUCTION SAFETY**	This course is designed for persons who work in the construction industry. This course will provide all members with greater safety in construction field particularly referred to construction safety awareness. It is also designed to increase their confidence in the action to take in case of any emergencies. The stages of construction and most of the building process within the life cycle of a building will be elaborated. All the relevant document and acts particularly relating to Malaysia scenario are among the important references that will be discussed along with the sequence of building construction. Students are expected to venture into a general safe working practices at construction site and able to supervise the total environment as a free accident area.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	TUE	14:00-14:50	T-DK-02	L	66	Y	01571 - NBA	09/01/2019 - PM	
			15:00-15:50	T-DK-02	L	66	Y			

Campus	Level	Year	Code	Course Name	Course Synopsis	Remark
			BET2573	**CONSTRUCTION METHODS**	This course will introduce students to the current practice of construction methods applied in the infrastructural projects. The course is a continuity of construction engineering course and focuses more into the applied theory of particular study case. The construction progress covers the area of site preparation, substructure, superstructure, mechanical & electrical, and utilities.	

Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
SEM 1 18/19	01	MON	08:00-08:50	FTEKD3	L	37		01813 - LBMY TBA0001 - ES(		
			09:00-09:50	FTEKD3	L	37				
	01L	TUE	16:00-16:50	FTEKD2	B	18		01813 - LBMY TBA0001 - ES(		
			17:00-17:50	FTEKD2	B	18				
	02L	TUE	14:00-14:50	FTEKD2	B	19		01813 - LBMY TBA0001 - ES(		
			15:00-15:50	FTEKD2	B	19				

Campus	Level	Year	Code	Course Name
			BET3522	**PROCUREMENT FOR INFRASTRUCTURAL PROJECT**

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BET3522	PROCUREMENT FOR INFRASTRUCTURAL PROJECT	The course is designed to provide students with fundamental concepts and techniques for project acquisition and procurement. Student will learned procurement process and expected to develop an in-depth understanding of project evaluation, planning, financing, contracting, negotiation, and procurement execution.										
					SEM 1 18/19	01	THU	16:00-16:50	T-DK-05	L	47	Y	01571 - NBA	09/01/2019 - PM	
								17:00-17:50	T-DK-05	L	47	Y			
			BET3573	ENGINEERING MANAGEMENT	This course covers Engineering Management is highlight to successfully lead engineering or technical personnel and projects. These functional management will enhance student in analyse the management process through technology applied.										
					SEM 1 18/19	01	MON	10:00-10:50	T-DK-04	L	37	Y	0681 - MABO 0790 - NBPN	06/01/2019 - AM	
								11:00-11:50	T-DK-04	L	37	Y			
						01L	TUE	14:00-14:50	ETIM-S-02	B	18	Y	0790 - NBPN		
								15:00-15:50	ETIM-S-02	B	18	Y			
						02L	WED	10:00-10:50	ETIM-S-02	B	19	Y	0790 - NBPN		
								11:00-11:50	ETIM-S-02	B	19	Y			
			BET3583	RESEARCH METHODOLOGY	This course covers the general principles of Research Methodology that are applicable to particularly Engineering Technology and any discipline. It discusses the fundamental methods to conducting an academic research. This course refer to topics that covered through introduction to research and its philosophy, problem formulation and research objective, literature review, research methodology and design, data collection procedures, data analysis, research proposal and thesis preparation and research management.										
					SEM 1 18/19	01	THU	12:00-12:50	T-DK-05	L	37	N	0657 - MFBI 2288 - MNIS		
							TUE	10:00-10:50	T-DK-05	L	37	N			
								11:00-11:50	T-DK-05	L	37	N			
			BET3634	INFRASTRUCTURAL DESIGN (STUDIO 5)	Develop a guideline on public transportation operational analysis. Demonstrate an understanding in the basic reinforced concrete and steel structure design based on Eurocode. Analysis of geotechnical site investigation and ground construction for infrastructure development. Water and wastewater treatment analysis.										
					SEM 1 18/19	01	THU	10:00-10:50	FTEKD2	L	37	N	01543 - NABM 0372 - ABZ 0497 - MBBY 0657 - MFBI 0764 - ZBZ 0770 - MSBW 1768 - AK		
								11:00-11:50	FTEKD2	L	37	N			
						01L	MON	16:00-16:50	ETIM-L-02	B	18	N	0497 - MBBY 0764 - ZBZ 0770 - MSBW		
								17:00-17:50	ETIM-L-02	B	18	N			
						02L	TUE	16:00-16:50	ETIM-L-02	B	19	N	0497 - MBBY 0764 - ZBZ 0770 - MSBW		
								17:00-17:50	ETIM-L-02	B	19	N			
			BET4222	TECHNOLOGIST IN SOCIETY AND LAW											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BET4222	TECHNOLOGIST IN SOCIETY AND LAW	Infrastructure construction industry is vital in socio-economic development and also generates substantial employment and provides a growth impetus to other sectors through backward and forward linkages.This course introduces students to a understanding technologist function in society. It also introducing the Malaysian legal system and legalissues significant to technology industry professionals. This course also covers ethical issues faced in the technology industry.										
					SEM 1 18/19	01	WED	08:00-08:50	FTEKD2	L	37	Y	0681 - MABO	08/01/2019 - AM	
								09:00-09:50	FTEKD2	L	37	Y			
			BET4713	FORENSIC INVESTIGATION IN INFRASTUCTURE	This course will introduce students to the important aspect in the investigation of technical cause of infrastructure¿s failures and preparation of engineering reports. Students will observe the historical failure of infrastructures and discuss the root causes of failure. Qualification of investigator, activities in the investigation process, additional laboratory test, data analyses, and failure hypotheses will be thoroughly discussed.										
					SEM 1 18/19	01	THU	14:00-14:50	T-DK-05	L	47	N	0372 - ABZ 0657 - MFBI 0770 - MSBW		
								15:00-15:50	T-DK-05	L	47	N			
						01L	WED	10:00-10:50	ETIM-L-06	B	23	N	0770 - MSBW		
								11:00-11:50	ETIM-L-06	B	23	N			
						02L	THU	08:00-08:50	ETIM-L-06	B	24	N	0770 - MSBW		
								09:00-09:50	ETIM-L-06	B	24	N			
			BET4723	ADVANCED MATERIAL TESTING	This course discusses selected topic in engineering materials and current issues in material testing. Students will be introduced to the advanced material testing technology used for various engineering and technology disciplines. Student should be able to evaluate properties of material based on the results characteristic.										
					SEM 1 18/19	01	THU	10:00-10:50	T-DK-04	L	47	Y	0497 - MBBY 0764 - ZBZ 2432 - NDBA	05/01/2019 - PM	
								11:00-11:50	T-DK-04	L	47	Y			
						01L	MON	14:00-14:50	ETIM-L-03	B	23	Y	0497 - MBBY 0764 - ZBZ		
								15:00-15:50	ETIM-L-03	B	23	Y			
						02L	TUE	08:00-08:50	ETIM-L-03	B	24	Y	0497 - MBBY 0764 - ZBZ		
								09:00-09:50	ETIM-L-03	B	24	Y			
			BET4733	INTRODUCTION TO COASTAL INFRASTRUCTURE	Introduction to theories and practical applications of the coastal hydrodynamic systems and processes. Coastal environment parameters: waves, tides, currents. The tidal cycle and tide levels. Wave mechanics. Wave transformation: shoaling, refraction, diffraction, reflection. Various types of nearshore currents. Littoral Processes: coastal sediment transport and morphology, erosion and accretion. Coastal structures: revetments, groynes, breakwaters, and other methods of managing coastal erosion. Coastal impact assessment: effects of coastal structures, reclamation and dredging. Application of analytical and numerical techniques in solving coastal engineering problems.										
					SEM 1 18/19	01	MON	10:00-10:50	T-DK-03	L	47		01543 - NABM 0770 - MSBW		
								11:00-11:50	T-DK-03	L	47				
						01L	TUE	08:00-08:50	ETIM-L-01	B	23		0770 - MSBW		
								09:00-09:50	ETIM-L-01	B	23				
						02L	MON	14:00-14:50	ETIM-L-01	B	24		0770 - MSBW		
								15:00-15:50	ETIM-L-01	B	24				
			BET4774	TECHNOLOGY DESIGN PROJECT	This course is the integration of all Studio subjects where student will learn to apply all infrastructural fundamental design in the given case study. Design aspect will cover the infrastructural basic design from water, upper structure, sub structure, and road work. They also required to identify the suitable construction method for the project and compose a comprehensive report suffice for tender bidding										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BET4774**	**TECHNOLOGY DESIGN PROJECT**	process.										
					SEM 1 18/19	01	TUE	10:00-10:50	ETIM-S-01	L	47		01813 - LBMY 0391 - JIBJS 0497 - MBBY 0664 - ABMY 0764 - ZBZ 0770 - MSBW 0790 - NBPN		
								11:00-11:50	ETIM-S-01	L	47				
						01	FRI	08:00-08:50	ETIM-L-01	B	47		0391 - JIBJS 0497 - MBBY 0664 - ABMY 0764 - ZBZ 0770 - MSBW 0790 - NBPN		
								09:00-09:50	ETIM-L-01	B	47				
								10:00-10:50	ETIM-L-01	B	47				
								11:00-11:50	ETIM-L-01	B	47				
			BET4783	**FINAL YEAR PROJECT II**	This course is designed to expose the students to a final year project. They have to apply all the knowledge that they have learned in the programmed to complete the final year project. Each student will be supervised by at least one lecturer or two lecturers (main supervisor and co-supervisor). During the final year project I, the students will be able to do a literature survey and prepare a draft which contains objective of the project, problem statement, literature survey, solving techniques, methodology, and expected result, treatment of results and list of reference publications. At the end of this subject, the students are required to present the draft in a short seminar which will be evaluated by a faculty's panel.										
					SEM 1 18/19	01	WED	14:00-14:50	ETIM-S-03	B	47		01543 - NABM 01571 - NBA 01813 - LBMY 0372 - ABZ 0391 - JIBJS 0497 - MBBY 0657 - MFBI 0664 - ABMY 0681 - MABO 0764 - ZBZ 0770 - MSBW 0790 - NBPN 1768 - AK 2288 - MNIS 2432 - NDBA		
								15:00-15:50	ETIM-S-03	B	47				
						01	TUE	14:00-14:50	ETIM-S-01	L	47		2288 - MNIS		
								15:00-15:50	ETIM-S-01	L	47				
			BPS2313	**INDUSTRIAL HYGIENE**	This course generally will give an introduction to the field of industrial hygiene, including the chemical, physical and biological agents which affect the health and safety of employees, the application of control measures for the various agents and study of occupational exposure limit. Upon completion of this course, the student will be able to investigate in the selected premise about the major topic areas within the field of chemical, physical and biological hazards, principle of exposure monitoring, medical surveillance and personal protective equipment.										
					SEM 1 18/19	01	FRI	08:00-08:50	FTEKD3	L	43	Y	01450 - NBI		
								09:00-09:50	FTEKD3	L	43	Y			
								10:00-10:50	FTEKD3	L	43	Y			
						02	MON	08:00-08:50	FTEKD6	L	42	Y	01450 - NBI		
								09:00-09:50	FTEKD6	L	42	Y			
								10:00-10:50	FTEKD6	L	42	Y			
			BPS2333	**TOXIC & HAZARDOUS WASTE MANAGEMENT**	This course introduces the student to the physical, chemical and toxic properties of toxic and hazardous										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BPS2333	TOXIC & HAZARDOUS WASTE MANAGEMENT	wastes which are the basis for their hazard classification, movement and distribution as well as their impacts on human health and the environment. The industries which generate toxic and hazardous waste will be discussed. The management of these wastes which include handling, storage and transportation based on the regulations stipulated in the Environmental Quality Act, 1974 as well as other international regulations will be discussed. Understanding on the treatment and disposal processes will be emphasized including pollution prevention and waste minimization strategies.										
					SEM 1 18/19	01	MON	12:00-12:50	T-DK-03	L	45	Y	2436 - NSBF	07/01/2019 - AM	BPS1443
							THU	08:00-08:50	T-DK-03	L	45	Y			BPS1363
								09:00-09:50	T-DK-03	L	45	Y			
			BPS2343	OCCUPATIONAL EPIDEMIOLOGY & DISEASE	This course will emphasize on aspects of disease transmission and causation, measuring occurrence of disease, determining the cause of disease and estimating risk. The major types of epidemiologic study (cohort, case referent and cross-sectional) will be described. Threats to validity and issues in interpreting epidemiologic data such as bias, confounding factors, and random error will be discussed. Communicable and non-communicable diseases plus epidemiologic surveillance will be also discussed for preventing and controlling diseases. Students will also learn how to review published articles related to epidemiologic issues.										
					SEM 1 18/19	01	THU	14:00-14:50	T-DK-03	L	45	Y	01462 - NBMH	09/01/2019 - AM	
								15:00-15:50	T-DK-03	L	45	Y			
							WED	12:00-12:50	T-DK-05	L	45	Y			
			BPS2353	EMERGENCY RESPONSE PREPAREDNESS	This course will provide student with basic understanding of Emergency and Disaster Management based on its cycle. Managing a good emergency response is the most effective way to reduce the impact of a crisis on vulnerable populations. Student also will be exposed to management processes which involve units created to prepare for, respond to and recover from any emergency events. This is important to ensure the business continuity is achieved after facing certain type of disasters by man-made or natural cause. Specific topics on Business Continuity Management (BCM), Hazardous Materials (HAZMAT), Incident Command System (ICS) and Arahan 20 MKN also will be discussed.										
					SEM 1 18/19	01	TUE	10:00-10:50	FTEKD2	L	45	Y	0692 - MEBAJ	13/01/2019 - AM	BPS1343
								11:00-11:50	FTEKD2	L	45	Y			
								12:00-12:50	FTEKD2	L	45	Y			
			BPS2363	ERGONOMICS	This course provides a foundation for understanding the key concepts and principles related to ergonomics. The knowledege of ergonomics is important to increase productivity, and decrease accidents and illnesses by obtaining a good fit between the employer and the job. This course also provides the understanding of relationships between employer, work equipment and work environment. Case studies are also used to test student knowledge and understanding of the work systems that designed and used.										
					SEM 1 18/19	01	THU	08:00-08:50	FTEKD6	L	45	Y	0833 - EHBS	13/01/2019 - AM	
								09:00-09:50	FTEKD6	L	45	Y			
							WED	12:00-12:50	T-DK-06	L	45	Y			
						01L	WED	08:00-08:50	FT-L-02	B	23	Y	0319 - MABHR		
								09:00-09:50	FT-L-02	B	23	Y			
						02L	THU	14:00-14:50	FT-L-02	B	22	Y	0319 - MABHR		
								15:00-15:50	FT-L-02	B	22	Y			
			BPS2633	MARINE & OFFSHORE SAFETY	This course introduces student to Health, Safety and Environment (HSE) principles and practices in marine and offshore operations particularly in oil and gas industry. Marine and offshore safety covers upstream operations which include exploration, drilling, completion, production and transportation. The lifecycle of this industry will be covered from engineering, procurement, construction, hook-up, installation, commissioning, operation, maintenance and decommissioning. Topics include legal requirements, type of hazards, accident cases, safety management and technical aspects. Discussion personnel safety and process safety issues will be emphasized. Safety Analysis tool such as Hazard Identification (HAZID) Analysis and Bow Tie Analysis will be introduced. Applicable international standards and codes such as International Convention for the Prevention of Pollution from Ships (MARPOL 73/78), Safety International										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BPS2633**	**MARINE & OFFSHORE SAFETY**	Convention for the Safety of Life at Sea (SOLAS), 1974 and International Management Code for the Safe Operation of Ships and for Pollution Prevention (ISM) and International Ship and Port Facility Security Code (ISPS) will be exposed to students.										
					SEM 1 18/19	01	MON	10:00-10:50	T-BK-01	L	30	Y	0692 - MEBAJ		BPS3323
								11:00-11:50	T-BK-01	L	30	Y			
								12:00-12:50	T-BK-01	L	30	Y			
			BPS2653	**RADIATION & NUCLEAR SAFETY**	This introductory course in the fundamentals of radiation and nuclear safety intended to meet the requirements required of all employee who receive, or might receive, a health care related occupational exposure while working in or near a controlled / restricted area. The course focuses on the need for every employee, both radiological workers and non-radiological workers, to play an active role in maintaining exposures to radiation and radioactive materials within regulatory limits and in compliance with regulatories control such as The International Basic Safety Standards for Protection Against Ionizing Radiation and for Safety of Radiation (BS), IAEA Safety Series no 115 (1996), Atomic Energy Licensing Act 1984 (Act 304). Topics include Fundamentals of Radiation and Radioactivity, Radiation Biology, Radiation Dose Limits and ALARA, Personnel Monitoring and others.										
					SEM 1 18/19	01	TUE	14:00-14:50	T-BK-02	L	30	Y	01462 - NBMH		BPS3323
								15:00-15:50	T-BK-02	L	30	Y			
								16:00-16:50	T-BK-02	L	30	Y			
			BPS2713	**ENVIRONMETAL MANAGEMENT AND GREEN TECHNOLOGY**	This course will be covered the fundamental of environmental management, concept of green technology, principles and concepts about ecology and ecosystems, weather and human impacts on the environment and its management and pollution. Natural renewable and non-renewable resources and its management, current issues on the environment, including economics, global view and ethics comprise the materials of the course. The topics that will be discussed include issues related to green activities, trade, environment and development and roles that are played by the consumer, community, industry and government towards sustainable development. The students will be also introduced to the ISO 14000 series of Environmental Management Standards and environmental management tools which minimize and reduces the negative impact of human activities.									ELECTIVE 1 COMPULSORY	
					SEM 1 18/19	01	TUE	14:00-14:50	FTEKD3	L	45	Y	01297 - NSBS	09/01/2019 - PM	
								15:00-15:50	FTEKD3	L	45	Y			
								16:00-16:50	FTEKD3	L	45	Y			
			BPS3313	**APPLIED MECHANICS FOR SAFETY**	This course introduces a foundation in engineering science principles which will provide a systematic approach to problem solving in the field of occupational safety and health (OSH) problems such as accident and incident investigation, ergonomics, industrial safety, construction safety and etc. The course includes statics, dynamics, fluid mechanics, and thermodynamics. The emphasis on the integration of student`s understanding and the application aspects of all engineering science principles, supported with many examples, makes this course a very useful for practicing the OSH.										
					SEM 1 18/19	01	MON	14:00-14:50	FTEKD2	L	35	Y	0070 - ZBAW	04/01/2019 - AM	BPS1323
								15:00-15:50	FTEKD2	L	35	Y			
							THU	12:00-12:50	FTEKD2	L	35	Y			
			BPS3323	**INDUSTRIAL SAFETY**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BPS3323	INDUSTRIAL SAFETY	This subject is aimed to give an understanding on the basic concept of Fire Prevention and ProtectionSystem including its application in buildings. The course will cover topics such as: Introduction to Basic principles of Fire , The components of Fire Safety, The (Protection) Active and (Prevention) Passive Fire safety System , The Life Cyclers of A Building, Loss Impact and Means of Escape During Emergencies. Upon completion of this course , the student will be able to cover the major topic areas within the field of fire hazard management and other sources of hazard, fire safety best practices and fire management system as well as emergency preparedness. Besides, the students will be able to learn the theory of combustion and causes of fire and the way to fight fire including the types and correct use of fire extinguishers. Students will also use a Live Fire Training Unit (LFTU) to learn how to use fire extinguishers correctly and safely										
					SEM 1 18/19	01	WED	10:00-10:50	FTEKD4	L	35	Y	TBA0001 - ES(		
								11:00-11:50	FTEKD4	L	35	Y			
								12:00-12:50	FTEKD4	L	35	Y			
			BPS3343	ACCIDENT & INCIDENT INVESTIGATION	This course introduces student with knowledge for applying a basic accident investigation and analysis. Various topics will be covered including investigation techniques, data collection, notification and reporting to authority, and also the corrective and preventive actions to prevent recurrences. Basically, the root cause analysis which commonly used in the industries will be adopted in order to give an opportunity for conducting the actual process of accident investigation.										
					SEM 1 18/19	01	FRI	11:00-11:50	T-BK-01	L	25	Y	2436 - NSBF		
							MON	14:00-14:50	T-BK-01	L	25	Y			
								15:00-15:50	T-BK-01	L	25	Y			
			BPS3353	HUMAN FACTOR IN ENGINEERING	Human Factors in Safety Engineering is concerned with ways of designing jobs, machines, operations, and work environments so they are compatible with human capacities and limitations.										
					SEM 1 18/19	01	WED	10:00-10:50	FTEKD3	L	35	Y	0794 - MFBMI		BPS2363
								11:00-11:50	FTEKD3	L	35	Y			
								12:00-12:50	FTEKD3	L	35	Y			
			BPS3713	BUSINESS CONTINUITY PLAN	This course is an extension with details regarding to emergency preparedness and response where it provides a foundation and guide to coordinated organizational emergency recovery during and after a disruptive occurrence. The best practices for planning and maintaining Business Continuity Management (BCM) programs are introduced to students where knowledge of these practices are essential to managers and planners of small companies, large corporations and public agencies in order to keep their organizations running after major disruptive events. The recovery time and recovery point objectives (RTO and RPO) also will be discussed.										ELECTIVE 2 COMPULSORY
					SEM 1 18/19	01	THU	10:00-10:50	FTEKD5	L	35	Y	0070 - ZBAW		BPS2353
								11:00-11:50	FTEKD5	L	35	Y			
								12:00-12:50	FTEKD5	L	35	Y			
			BPS3723	AIR POLLUTION CONTROL TECHNOLOGY											ELECTIVE 3 COMPULSORY
					SEM 1 18/19	01	WED	08:00-08:50	T-DK-06	L	35	Y	01297 - NSBS	06/01/2019 - PM	
								09:00-09:50	T-DK-06	L	35	Y			
						01L	THU	14:00-14:50	FKPPT- L-28	B	17	Y	0319 - MABHR		
								15:00-15:50	FKPPT- L-28	B	17	Y			
						02L	FRI	11:00-11:50	FKPPT- L-28	B	18	Y	0319 - MABHR		
								12:00-12:50	FKPPT- L-28	B	18	Y			
			BPS4323	OCCUPATIONAL SAFETY & HEALTH MANAGEMENT SYSTEM	This course will expose the candidates to the latest and existing Occupational Safety and Health Management System (OSH-MS), the evolution and the elements in the systems that cater current requirement in OSH. The course also introduces the concepts, relationships and principles of managing the OSH function and the development of training procedures and practices to integrate that function into										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BPS4323	OCCUPATIONAL SAFETY & HEALTH MANAGEMENT SYSTEM	the organization.										
					SEM 1 18/19	01	THU	10:00-10:50	T-DK-03	L	30	Y	0794 - MFBMI		BPS1313
								11:00-11:50	T-DK-03	L	30	Y			
								12:00-12:50	T-DK-03	L	30	Y			
						02	THU	10:00-10:50	T-DK-03	L	30	Y	0794 - MFBMI		
								11:00-11:50	T-DK-03	L	30	Y			
								12:00-12:50	T-DK-03	L	30	Y			
			BPS4713	CONSTRUCTION SAFETY	This course is designed for persons who work in the construction industry. This course will provide all members with greater safety in construction field particularly referred to construction safety awareness. It is also designed to increase their confidence in the action to take in case of any emergencies. The stages of construction and most of the building process within the life cycle of a building will be elaborated. All the relevant document and acts particularly relating to Malaysia scenario are among the important references that will be discussed along with the sequence of building construction. Building materials Students are expected to venture into a general safe working practices at construction site and able to supervise the total environment as a free accident area.										ELECTIVE 4 COMPULSORY
					SEM 1 18/19	01	TUE	14:00-14:50	T-DK-03	L	30	Y	0794 - MFBMI		
								15:00-15:50	T-DK-03	L	30	Y			
								16:00-16:50	T-DK-03	L	30	Y			
						02	TUE	14:00-14:50	T-DK-03	L	30	Y	0794 - MFBMI		
								15:00-15:50	T-DK-03	L	30	Y			
								16:00-16:50	T-DK-03	L	30	Y			
			BTE1122	ELECTRICAL INSTALLATION WORKSHOP	This course introduces students to the single phase domestic wiring and installation. The students will learn about supply system, rules and regulation, wiring system and electrical protection system. They are also will practice in applying trunking and conduits for electrical wiring as well as doing fitting and installation of electrical system devices. Students need to construct the single phase domestic wiring and installation for lighting, socket outlet, fan and air conditioner. They are also will conduct inspection and testing on their wiring and installation as safety confirmation and fulfill the regulations.										
					SEM 1 18/19	04G	FRI	08:00-08:50	ET-L-05	B	30	N	0628 - HABH		
								09:00-09:50	ET-L-05	B	30	N			
								10:00-10:50	ET-L-05	B	30	N			
								11:00-11:50	ET-L-05	B	30	N			
			BTE1212	ELECTRICAL FUNDAMENTALS LABORATORY	This course introduces students to the fundamentals laboratory of DC and AC circuits and basic network laws and theorems. The students will be handling the basic measurement equipment to measure and analyse the parameter of the electrical circuits.										
					SEM 1 18/19	03BG	TUE	14:00-14:50	ET-L-05	B	30	N	0483 - SBMN		
								15:00-15:50	ET-L-05	B	30	N			
								16:00-16:50	ET-L-05	B	30	N			
								17:00-17:50	ET-L-05	B	30	N			
						04BG	THU	14:00-14:50	ET-L-05	B	30	N	TBA		
								15:00-15:50	ET-L-05	B	30	N			
								16:00-16:50	ET-L-05	B	30	N			
								17:00-17:50	ET-L-05	B	30	N			
						05BG	WED	08:00-08:50	ET-L-05	B	30	N	0483 - SBMN		
								09:00-09:50	ET-L-05	B	30	N			
								10:00-10:50	ET-L-05	B	30	N			
								11:00-11:50	ET-L-05	B	30	N			
			BTE1213	ELECTRICAL FUNDAMENTALS											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTE1213	ELECTRICAL FUNDAMENTALS	This module will introduce students to basic science of electricity, introduction to instrumentation and measurement, work and energy theorem, basic electrical circuit and introduction to magnetism.										
					SEM 1 18/19	01LP	MON	10:00-10:50	FTEKD4	L	30	Y	0081 - HBM	04/01/2019 - AM	
								11:00-11:50	FTEKD4	L	30	Y			
						01T	THU	08:00-08:50	FTEKD2	T	30	Y	01789 - ANBAG		
								09:00-09:50	FTEKD2	T	30	Y			
						02LG	WED	10:00-10:50	T-DK-05	L	30	Y	0070 - ZBAW		
								11:00-11:50	T-DK-05	L	30	Y			
						02T	FRI	08:00-08:50	FTEKD2	T	30	Y	1763 - ABI		
								09:00-09:50	FTEKD2	T	30	Y			
						03TP	FRI	14:00-14:50	FTEKD3	T	30	Y	0081 - HBM		
								15:00-15:50	FTEKD3	T	30	Y			
						04LG	FRI	10:00-10:50	T-BK-02	L	30	Y	0070 - ZBAW		
								11:00-11:50	T-BK-02	L	30	Y			
						04T	MON	08:00-08:50	T-BK-01	T	30	Y	0070 - ZBAW		
								09:00-09:50	T-BK-01	T	30	Y			
						04TP	MON	14:00-14:50	T-DK-03	T	30	Y	0081 - HBM		
								15:00-15:50	T-DK-03	T	30	Y			
						05LG	WED	08:00-08:50	T-BK-03	L	30	Y	0070 - ZBAW		
								09:00-09:50	T-BK-03	L	30	Y			
						05T	TUE	14:00-14:50	T-BK-03	T	30	Y	0070 - ZBAW		
								15:00-15:50	T-BK-03	T	30	Y			
			BTE1313	INSTRUMENTATION & MEASUREMENTS	This course introduces students to the principles of instrumentation and measurements, determination of error that caused by the meters. The students will be exposed to the architecture and the operation of DC and AC meters, oscilloscope, signal generator, storage instrument and display devices, analysis of DC and AC meters and introduction to signal conditioning .										
					SEM 1 18/19	02G	FRI	15:00-15:50	T-BK-03	T	30	Y	0070 - ZBAW	08/01/2019 - AM	
								15:00-15:50	T-BK-03	T	60	Y			
								16:00-16:50	T-BK-03	T	30	Y			
								16:00-16:50	T-BK-03	T	60	Y			
							TUE	14:00-14:50	T-DK-04	L	30	Y			
								15:00-15:50	T-DK-04	L	30	Y			
						02LG	MON	16:00-16:50	ET-L-05	B	30	Y	0628 - HABH		
								17:00-17:50	ET-L-05	B	30	Y			
			BTE2113	ANALOG ELECTRONICS	The P-N Junction Diode, Diode Applications, Bipolar Junction Transistors (BJT), DC Biasing of the BJT Amplifier, Transistor Modelling, Cascade Amplifier, Small-Signal BJT Amplifier, Metal-Oxide-Semiconductor FET (MOSFET), MOSFET Amplifier, Frequency Response of BJT and FET Amplifiers.										
					SEM 1 18/19	01LP	MON	10:00-10:50	FTEKD5	L	30	Y	2426 - MNS	05/01/2019 - AM	
								11:00-11:50	FTEKD5	L	30	Y			
			BTE2223	CIRCUIT ANALYSIS I	This course introduces the engineering methods of DC circuit analysis. The contents include Mesh and Nodal analysis, Source Transformation, and 4 main network Theorems: Superposition, Thevenin, Norton and Maximum Power Transfer theorems. It also includes the basic of DC transients in capacitors and inductors, and their relationship with electromagnetism concepts. Introduction to AC fundamentals and impedance concept of RLC circuits are also covered.										
					SEM 1 18/19	01LP	FRI	08:00-08:50	FTEKD4	L	30	Y	01665 - NHBR	07/01/2019 - AM	
								09:00-09:50	FTEKD4	L	30	Y			
						01T	WED	10:00-10:50	FTEKD5	T	30	Y	01665 - NHBR		
								11:00-11:50	FTEKD5	T	30	Y			
			BTE2233	CIRCUIT ANALYSIS II	This module provides the basic concepts and engineering methods of AC circuits. The contents include										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTE2233	CIRCUIT ANALYSIS II	applications of Mesh and Nodal analysis, Superposition and Source Transformation Theorems, Thevenin and Norton Theorem. Resonant circuit, Filters, Bridges and Balanced 3-phase circuits are also covered.											
						SEM 1 18/19	01LP	WED	08:00-08:50	FTEKD4	L	60	Y	01665 - NHBR	07/01/2019 - PM	
									09:00-09:50	FTEKD4	L	60	Y			
							01T	MON	14:00-14:50	T-BK-02	T	30	Y	01665 - NHBR		
									15:00-15:50	T-BK-02	T	30	Y			
							02T	TUE	14:00-14:50	T-BK-01	T	30	Y	01665 - NHBR		
									15:00-15:50	T-BK-01	T	30	Y			
			BTE2313	COMPUTER PROGRAMMING	Fundamental principles and concepts of C++ programming, with definition of data, expressions, control structure, functions, input and output, command line arguments, basic problem solving and programming techniques, structured programming ideas, fundamental algorithms and data structures.											
						SEM 1 18/19	03B	THU	14:00-14:50	ET-L-01	B	30	Y	0070 - ZBAW	10/01/2019 - AM	
									15:00-15:50	ET-L-01	B	30	Y			
							03LG	MON	10:00-10:50	ET-L-02	L	30	Y	0070 - ZBAW		
									11:00-11:50	ET-L-02	L	30	Y			
							04B	WED	10:00-10:50	ET-L-02	B	30	Y	0070 - ZBAW		
									11:00-11:50	ET-L-02	B	30	Y			
							04LG	TUE	10:00-10:50	ET-L-02	L	30	Y	0070 - ZBAW		
									11:00-11:50	ET-L-02	L	30	Y			
			BTE2413	ELECTRICAL POWER SYSTEM	This course introduces the fundamentals of essential elements of electrical power systems. The students will be exposed to electric power generation, transmission, distribution and basic power system design. It also includes operation concepts of switchgear, sub-station, and power systems protection techniques. In concurrence with this, the fundamental of power system analysis will be introduced.											
						SEM 1 18/19	01B	MON	08:00-08:50	ET-L-02	B	30	Y	01332 - NZBJ	08/01/2019 - AM	
									09:00-09:50	ET-L-02	B	30	Y			
									10:00-10:50	ET-L-02	B	30	Y			
							01L	TUE	08:00-08:50	FTEKD2	L	60	Y	01332 - NZBJ		
									09:00-09:50	FTEKD2	L	60	Y	2319 - WAJSA		
							01T	MON	16:00-16:50	T-BK-01	T	30	Y	2319 - WAJSA		
									17:00-17:50	T-BK-01	T	30	Y			
							02B	THU	08:00-08:50	ET-L-01	B	30	Y	01332 - NZBJ		
									09:00-09:50	ET-L-01	B	30	Y			
									10:00-10:50	ET-L-01	B	30	Y			
							02T	FRI	16:00-16:50	T-BK-01	T	30	Y	2319 - WAJSA		
									17:00-17:50	T-BK-01	T	30	Y			
			BTE3143	ELECTRIC MACHINES AND TRANSFORMERS	This course introduces the fundamental concepts and principles of transformer and various types of electrical machines. It is intended for students to understand fundamental aspects of rotating electrical machines. The first part of the course is a quick review of some electromagnetism fundamental while the following will deal with the transformers and different types of electrical machines.											
						SEM 1 18/19	01LP	MON	14:00-14:50	FTEKD5	L	30	Y	01789 - ANBAG	11/01/2019 - PM	
									15:00-15:50	FTEKD5	L	30	Y			
			BTE3222	DIGITAL LOGIC DESIGN LABORATORY												

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTE3222	DIGITAL LOGIC DESIGN LABORATORY	Laboratory experiments on digital circuits design and verification, using various digital circuit components. Combinational design techniques as well as sequential design techniques are presented with the use of Karnaugh mapping, state transition diagrams and tables.										
					SEM 1 18/19	01B	WED	08:00-08:50	ET-L-09-DE	B	30	N	0777 - WHBWH		
								09:00-09:50	ET-L-09-DE	B	30	N			
								10:00-10:50	ET-L-09-DE	B	30	N			
								11:00-11:50	ET-L-09-DE	B	30	N			
			BTE3223	DIGITAL LOGIC DESIGN	This course emphasizes on the fundamental of digital electronics. The student is first taught about the number system and logic gates before introducing them to digital IC technology. Then they are exposed to both combinational logic network and combinational logic. In concurrence with this, the fundamental of sequential logic, flip-flop, counter and shift register will be taught. Finally, the memory devices are introduced.										
					SEM 1 18/19	01L	MON	08:00-08:50	T-DK-05	L	30	Y	2048 - MHA	04/01/2019 - AM	
								09:00-09:50	T-DK-05	L	30	Y			
							TUE	14:00-14:50	FTEKD5	L	30	Y			
								15:00-15:50	FTEKD5	L	30	Y			
						01T	TUE	12:00-12:50	T-DK-05	T	30	Y	2048 - MHA		
								13:00-13:50	T-DK-05	T	30	Y			
			BTE3233	COMMUNICATION SYSTEM DESIGN	This course introduces theories in the area of communication systems. Topics covered include the basic elements of communications, signal analysis, amplitude modulation, angle modulations and digital modulations, as well as transmission channels and noise impact on the modulation system. Finally, some emergence of digital communication technologies are presented and compared.										
					SEM 1 18/19	01L	TUE	14:00-14:50	T-DK-05	L	30	Y	01744 - RBMR	06/01/2019 - AM	
								15:00-15:50	T-DK-05	L	30	Y			
								16:00-16:50	FTEKD5	L	30	Y			
								17:00-17:50	FTEKD5	L	30	Y			
						02T	MON	11:00-11:50	FTEKD6	T	30	Y	01744 - RBMR		
								12:00-12:50	FTEKD6	T	30	Y			
			BTE3243	ELECTRONICS II	Class A Power Amplifiers, Class B and AB Power Amplifiers, Differential Amplifier characteristics with differential and common inputs, Current source design, Ideal and Non Ideal OPAMP characteristics, Inverting Amplifier and Non-inverting Amplifier, Feedback in the Non-inverting and Inverting Amplifiers, Input and output impedance in the Non-inverting and Inverting amplifier, The Gain-Bandwidth Product, Operational Amplifier Circuits Analysis (Comparator, Summation, Subtractor, Scaling, Integrator, Differentiator, Active Low-Pass Filter, Active High-Pass Filter, Active Band-pass Filter, Active Band-Stop Filter, Digital-to-Analog Converter (DAC) and Analog-to-Digital Converter (ADC).										
					SEM 1 18/19	01L	FRI	14:00-14:50	T-DK-05	L	60	Y	2426 - MNS	12/01/2019 - AM	BTE2213
								15:00-15:50	T-DK-05	L	60	Y			
							MON	14:00-14:50	T-DK-02	L	60	Y			
								15:00-15:50	T-DK-02	L	60	Y			
						01T	FRI	16:00-16:50	T-DK-05	T	30	Y	2426 - MNS		
								17:00-17:50	T-DK-05	T	30	Y			
						02T	WED	08:00-08:50	T-BK-01	T	30	Y	2426 - MNS		
								09:00-09:50	T-BK-01	T	30	Y			
			BTE3252	MICROPROCESSORS AND INTERFACING LABORATORY											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTE3252	MICROPROCESSORS AND INTERFACING LABORATORY	This course in an introduction to a microprocessor/microcontroller. Students are exposed to the internal architecture of the microprocessor/ microcontroller, various instruction sets, and basic hardware design of embedded system.										
					SEM 1 18/19	01B	FRI	08:00-08:50	ET-L-09-DE	B	2	N	01110 - MSABS 0777 - WHBWH		
								09:00-09:50	ET-L-09-DE	B	2	N			
								10:00-10:50	ET-L-09-DE	B	2	N			
								11:00-11:50	ET-L-09-DE	B	2	N			
			BTE3254	MICROPROCESSORS AND INTERFACING	This course in an introduction to a microprocessor/microcontroller. Students are exposed to the internal architecture of the microprocessor/ microcontroller, various instruction sets, and basic hardware design of embedded systems.										
					SEM 1 18/19	01LG	WED	10:00-10:50	FTEKD2	L	30	Y	2048 - MHA		
								11:00-11:50	FTEKD2	L	30	Y			
						01T	THU	11:00-11:50	FTEKD4	T	30	Y	2048 - MHA		
			BTE3323	CONTROL SYSTEMS	This course introduces students to the control system technology, mathematical models of feedback systems. The students will be exposed to the transient and steady-state analysis, root locus, frequency response and analysis design of compensator.										
					SEM 1 18/19	01LG	TUE	10:00-10:50	FTEKD6	L	30	Y	2319 - WAJSA	06/01/2019 - PM	
								11:00-11:50	FTEKD6	L	30	Y			
								12:00-12:50	FTEKD6	L	30	Y			
						01T	MON	12:00-12:50	T-BK-03	T	30	Y	2319 - WAJSA		
			BTE3813	ENGINEERING TECHNOLOGY SENIOR DESIGN PROJECT I	This course is designed to expose the students to a senior design project. They have to apply all the knowledge that they have learned in the programme to complete the senior design project. Each student will be supervised by at least one lecturer or two lecturers (main supervisor and co-supervisor). During the senior design project I, the students will be able to do a literature survey and prepare a draft which contains objective of the project, problem statement, literature survey, solving techniques, methodology, expected result, treatment of results and list of reference publications. At the end of this subject, the students are required to present the draft in a short seminar which will be evaluated by a faculty's panel.										
					SEM 1 18/19	01LG	WED	15:00-15:50	T-BK-02	L		N	0181 - CKMFBCKY		
								16:00-16:50	T-BK-02	L		N			
								17:00-17:50	T-BK-02	L		N			
			BTE4713	PROGRAMMABLE LOGIC CONTROLLER	Basic concepts and skills needed to install, program, and apply programmable electronic controllers in industry. Discrete and analog input/output (I/O) devices and ladder logic will be studied, including basic and intermediate PLC functions. Experiments in operation, programming, and industrial applications with emphasis on discrete I/Os										
					SEM 1 18/19	01L	TUE	08:00-08:50	T-DK-04	L	47	Y	01332 - NZBJ 01625 - MRBRMA	12/01/2019 - AM	
								09:00-09:50	T-DK-04	L	47	Y			
			BTE4723	ADVANCED ELECTRONICS CIRCUITS											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTE4723	ADVANCED ELECTRONICS CIRCUITS	Ideal OPAMP characteristics, Inverting Amplifier and Non-inverting Amplifier, Feedback in the Non-inverting and Inverting Amplifiers, Input and output impedance in the Non-inverting and Inverting amplifier, The Gain-Bandwidth Product, Operational Amplifier Circuits Analysis (Comparator, Summation, Subtractor, Scaling, Integrator, Differentiator), Digital to Analog and Analog to Digital Converter Circuits, Oscillators circuits, IC Voltage Regulators circuits, and Electronics sensing circuits.										
					SEM 1 18/19	01L	TUE	16:00-16:50	T-DK-05	L	46	Y	0413 - MABS 0483 - SBMN 2426 - MNS	05/01/2019 - AM	
								17:00-17:50	T-DK-05	L	46	Y			
			BTE4733	SENSORS TECHNOLOGY	This module will introduce students to the structural and functional principles of sensors used for various physical and derived quantities and how to use them to measure these quantities.										
					SEM 1 18/19	01B	WED	14:00-14:50	ET-L-09-DE	B	23	Y	0131 - MABMH	07/01/2019 - AM	
								15:00-15:50	ET-L-09-DE	B	23	Y			
								16:00-16:50	ET-L-09-DE	B	23	Y			
						01L	TUE	10:00-10:50	T-DK-04	L	47	Y	0081 - HBM 0131 - MABMH		
								11:00-11:50	T-DK-04	L	47	Y			
						02B	THU	14:00-14:50	ET-L-09-DE	B	24	Y	0131 - MABMH		
								15:00-15:50	ET-L-09-DE	B	24	Y			
								16:00-16:50	ET-L-09-DE	B	24	Y			
			BTK1123	ENGINEERING SCIENCES											
					SEM 1 18/19	01	TUE	10:00-10:50	T-DK-03	L	40	Y	01821 - HBAA	06/01/2019 - AM	
								11:00-11:50	T-DK-03	L	40	Y			
								12:00-12:50	T-DK-03	L	40	Y			
			BTM1113	BASIC MANUFACTURING PROCESSES	Introduction to the materials, techniques, and equipment of industrial manufacturing. Emphasis on laboratory demonstration and simulation activities such as machining, welding, casting, and forming operations.										
					SEM 1 18/19	01L	THU	08:00-08:50	T-DK-05	L	44	Y	01880 - MBAH		
								09:00-09:50	T-DK-05	L	44	Y			
								10:00-10:50	T-DK-05	L	44	Y			
			BTM1114	BASIC MANUFACTURING PROCESSES	The purpose of teaching this subject is to provide the students with a basic understanding of materials, techniques, and equipment used in manufacturing. This course enable students to ready for the advanced manufacturing process.										
					SEM 1 18/19	01LP	MON	08:00-08:50	FTEKD5	L	33	Y	01686 - SNBMS 0328 - JBJ	04/01/2019 - AM	
								09:00-09:50	FTEKD5	L	33	Y			
			BTM1223	ENGINEERING DYNAMICS											
					SEM 1 18/19	01LP	THU	08:00-08:50	FTEKD4	L	37	Y	01870 - NABZ		
								09:00-09:50	FTEKD4	L	37	Y			
								10:00-10:50	FTEKD4	L	37	Y			
						02LP	THU	08:00-08:50	FTEKD4	L	38	Y	01870 - NABZ		
								09:00-09:50	FTEKD4	L	38	Y			
								10:00-10:50	FTEKD4	L	38	Y			
			BTM1413	PROPERTIES OF MATERIAL	This course intends to provide the details of engineering materials, their history, structures, properties,										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BTM1413**	**PROPERTIES OF MATERIAL**	applications. This knowledge will be further useful to make intelligent selection of materials for different applications.										
					SEM 1 18/19	01LP	THU	14:00-14:50	FTEKD5	L	60	Y	0070 - ZBAW		
								15:00-15:50	FTEKD5	L	60	Y			
								16:00-16:50	FTEKD5	L	60	Y			
			BTM2234	**FLUID POWER TECHNOLOGY**	This course consists fundamental of fluid mechanics and fluid power system. Fundamental of fluid mechanics including properties of fluid, fluid in static and fluid in motion. Fluid power system including fluid power principles, devices, materials, hydraulic and pneumatic systems with emphasis on pumps, compressors, motors, and actuators.										
					SEM 1 18/19	01L	FRI	15:00-15:50	T-DK-06	L	39	Y	0070 - ZBAW 0328 - JBJ 0386 - RBG	07/01/2019 - PM	
								16:00-16:50	T-DK-06	L	39	Y			
			BTM2324	**COMPUTER AIDED MODELLING**	This course consists of two parts which are design process and design modelling. Design process includes planning of product development from sketches until assembly process. Design modelling includes migrating from 2-D to 3-D CAD systems through solid modeling techniques and bottom-up/ top-down assembly using a popular design package.										
					SEM 1 18/19	01B	FRI	08:00-08:50	ETIM-L-02	B	30	Y	01401 - MFBAA		
								09:00-09:50	ETIM-L-02	B	30	Y			
								10:00-10:50	ETIM-L-02	B	30	Y			
								11:00-11:50	ETIM-L-02	B	30	Y			
						01L	WED	08:00-08:50	T-DK-03	L	39	Y	01401 - MFBAA 01886 - MNBO		
								09:00-09:50	T-DK-03	L	39	Y			
						02B	TUE	14:00-14:50	ETIM-L-02	B	30	Y	01401 - MFBAA		
								15:00-15:50	ETIM-L-02	B	30	Y			
								16:00-16:50	ETIM-L-02	B	30	Y			
								17:00-17:50	ETIM-L-02	B	30	Y			
			BTM2424	**STRENGTH OF MATERIALS**	This course intends to provide mechanics of deformable bodies with emphasis on principles of stress and strain, shear and bending moment, torsion, buckling, failure criteria and design concepts										
					SEM 1 18/19	01LP	MON	14:00-14:50	FTEKD4	L	49	Y	0070 - ZBAW 0887 - JIBWAH	07/01/2019 - AM	
								15:00-15:50	FTEKD4	L	49	Y			
			BTM2623	**COMPUTER AIDED MODELLING**											
					SEM 1 18/19	01BP	THU	14:00-14:50	ETIM-L-03	B	25	N	01401 - MFBAA		
								15:00-15:50	ETIM-L-03	B	25	N			
								16:00-16:50	ETIM-L-03	B	25	N			
								17:00-17:50	ETIM-L-03	B	25	N			
						02BP	TUE	08:00-08:50	ETIM-L-02	B	24	N	01401 - MFBAA		
								09:00-09:50	ETIM-L-02	B	24	N			
								10:00-10:50	ETIM-L-02	B	24	N			
								11:00-11:50	ETIM-L-02	B	24	N			
			BTM3234	**MANUFACTURING COMPUTER APPLICATION**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTM3234	MANUFACTURING COMPUTER APPLICATION	Overview of computer hardware, software, and processing concepts related to the control of manufacturing tasks. Emphasis on use of integrated software packages in the solution of a variety of manufacturing problems. Laboratory assignments in automation control, real time data sampling, and creation of user interfaces.										
					SEM 1 18/19	01B	TUE	14:00-14:50	ET-L-02	B	30	Y	0319 - MABHR	06/01/2019 - PM	
								15:00-15:50	ET-L-02	B	30	Y	0777 - WHBWH		
								16:00-16:50	ET-L-02	B	30	Y			
								17:00-17:50	ET-L-02	B	30	Y			
						01L	TUE	10:00-10:50	FTEKD5	L	39	Y	01886 - MNBO		
								11:00-11:50	FTEKD5	L	39	Y	0777 - WHBWH		
						02B	FRI	08:00-08:50	ET-L-02	B	30	Y	0319 - MABHR		
								09:00-09:50	ET-L-02	B	30	Y	0777 - WHBWH		
								10:00-10:50	ET-L-02	B	30	Y			
								11:00-11:50	ET-L-02	B	30	Y			
			BTM3343	COMPUTER INTEGRATED MANUFACTURING	Study of computer integrated manufacturing systems utilized by industry, including robotics, computer-aided manufacturing, computer-aided design/drafting, computer-aided testing/inspection, and computer-aided process planning.										
					SEM 1 18/19	01L	TUE	08:00-08:50	FTEKD4	L	39	Y	2387 - SP	10/01/2019 - AM	
								09:00-09:50	FTEKD4	L	39	Y			
								10:00-10:50	FTEKD4	L	39	Y			
			BTM3813	ENGINEERING TECHNOLOGY SENIOR DESIGN PROJECT I	This course is designed to expose the students to a senior design project. They have to apply all the knowledge that they have learned in the programme to complete the senior design project. Each student will be supervised by at least one lecturer or two lecturers (main supervisor and co-supervisor). During the senior design project I, the students will be able to do a literature survey and prepare a draft which contains objective of the project, problem statement, literature survey, solving techniques, methodology, expected result, treatment of results and list of reference publications. At the end of this subject, the students are required to present the draft in a short seminar which will be evaluated by a faculty's panel.										
					SEM 1 18/19	01LG	WED	13:00-13:50	T-BK-02	L	30	N	0181 - CKMFBCKY		
								14:00-14:50	T-BK-02	L	30	N			
								15:00-15:50	T-BK-02	L	30	N			
			BTM4514	AUTOMATED MANUFACTURING SYSTEM	Study of automated manufacturing systems utilized by industry, including robotics, computer-aided manufacturing, computer-aided design and manufacturing, computer-aided inspection, and system integration using PLC¿s, sensors, DAQ systems and other automation components. Emphasis on laboratory experiences with automated technology.										
					SEM 1 18/19	01	THU	16:00-16:50	ET-L-01	L	23	Y	0315 - MABM	13/01/2019 - AM	
								17:00-17:50	ET-L-01	L	23	Y	0319 - MABHR		
						01B	WED	08:00-08:50	ET-L-01	B	23	Y	0319 - MABHR		
								09:00-09:50	ET-L-01	B	23	Y			
								10:00-10:50	ET-L-01	B	23	Y			
								11:00-11:50	ET-L-01	B	23	Y			
						02B	MON	14:00-14:50	ET-L-02	B	23	Y	0319 - MABHR		
								15:00-15:50	ET-L-02	B	23	Y			
								16:00-16:50	ET-L-02	B	23	Y			
								17:00-17:50	ET-L-02	B	23	Y			
						02G	THU	08:00-08:50	ET-L-02	L	23	Y	0315 - MABM		
								09:00-09:50	ET-L-02	L	23	Y	0319 - MABHR		
			BTM4713	LEAN MANUFACTURING SYSTEM	Introduction to modern issues in lean manufacturing systems and practice of lean tools. Topics include overview of lean manufacturing systems, quick changeover, total productive maintenance, pull/just-in-										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTM4713	LEAN MANUFACTURING SYSTEM	time/kanban, cellular manufacturing, kaizen, wastes identification, productivity measurement, plant layout, and line balance. At the end of the semester the students should be having a basic understanding of the design, operation and control of lean manufacturing systems and be able to use quantitative methods to model, analyze, and optimize such systems.										
					SEM 1 18/19	01L	TUE	14:00-14:50	ETIM-S-03	L	23	Y	01880 - MBAH	07/01/2019 - PM	
								15:00-15:50	ETIM-S-03	L	23	Y			
								16:00-16:50	ETIM-S-03	L	23	Y			
						02G	MON	10:00-10:50	ETIM-S-02	L	23	Y	01880 - MBAH		
								11:00-11:50	ETIM-S-02	L	23	Y			
								12:00-12:50	ETIM-S-02	L	23	Y			
			BTM4723	ADVANCED MANUFACTURING PROCESS	This course intends to provide the in depth knowledge of the types of advanced manufacturing and machining processes (AMPs); evolution, and need. In this course students will study the fundamentals and advanced techniques related to manufacturing processes. In addition to the applied aspects of manufacturing processes, a sound analytical basis for some of the processes will be taught. Through the use of analytical approaches in conjunction with laboratory practical¿s students will learn how to control a manufacturing process for optimal production. This course will build a foundation of capability for the solution, analysis and synthesis of a wide variety of manufacturing problems.										
					SEM 1 18/19	01B	THU	10:00-10:50	ET-WS-01	B	23	Y	0386 - RBG	07/01/2019 - AM	
								11:00-11:50	ET-WS-01	B	23	Y			
						01L	TUE	08:00-08:50	T-DK-06	L	46	Y	0315 - MABM		
								09:00-09:50	T-DK-06	L	46	Y	0386 - RBG		
						02B	WED	08:00-08:50	ET-WS-01	B	23	Y	0386 - RBG		
								09:00-09:50	ET-WS-01	B	23	Y			
			BTM4733	ERGONOMICS	This course provides a foundation for understanding the key concepts and principles related to ergonomics. The aim of ergonomics in industry is to increase productivity, and decrease accidents and illnesses by obtaining a good fit between the employer and the job. This course also examines the relationships between employer, work equipment and work environment. Case studies are also used to test student current knowledge and understanding of the way complex systems are designed and used.										
					SEM 1 18/19	01	MON	08:00-08:50	T-DK-06	L	46	Y	0315 - MABM	05/01/2019 - AM	
								09:00-09:50	T-DK-06	L	46	Y	0887 - JIBWAH		
						01B	MON	10:00-10:50	FT-L-02	B	23	Y	0887 - JIBWAH		
								11:00-11:50	FT-L-02	B	23	Y			
						02B	WED	10:00-10:50	FT-L-02	B	23	Y	0887 - JIBWAH		
								11:00-11:50	FT-L-02	B	23	Y			
			BTO1113	INTRODUCTION TO MECHANICAL ENGINEERING											
					SEM 1 18/19	01	THU	14:00-14:50	T-BK-01	L	30	Y	01867 - MNBZ	04/01/2019 - AM	
								15:00-15:50	T-BK-01	L	30	Y			
						01	FRI	11:00-11:50	T-BK-03	T	30	Y	TBA		
						01G	MON	08:00-08:50	ET-L-05	B	30	Y	01867 - MNBZ		
								09:00-09:50	ET-L-05	B	30	Y			
			BTP2232	CONTAMINATION CONTROL & CLEAN ROOM	This module aims to provide the student with in-depth knowledge to understand and work in clean room environment with clear concepts in contamination control										
					SEM 1 18/19	01	FRI	08:00-08:50	FTEKD6	L	40	Y	0070 - ZBAW	08/01/2019 - AM	
								09:00-09:50	FTEKD6	L	40	Y			
			BTP2323	FLUID MECHANICS	This module will introduce students to the principals of fluid mechanics. Students will apply these principles to the solution of engineering problems such as pipe sizing and the selection of system components such as valves and pumps. The module goal is to enable the student to develop the knowledge and analytical skills in solving practical problems of fluid mechanics, through applications to										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTP2323	FLUID MECHANICS	system design and performance studies.										
					SEM 1 18/19	01	MON	10:00-10:50	T-DK-05	L	40	Y	01786 - WNHBWZ	04/01/2019 - AM	
								11:00-11:50	T-DK-05	L	40	Y	0344 - MFI		
			BTP2533	ELECTRICAL POWER SYSTEMS	This course introduces the fundamental concepts and principles of transformer and various types of electrical machines. It is intended for students to understand fundamental aspects of rotating electrical machines. The first part of the course is a quick review of some electromagnetism fundamental while the following will deal with the transformers and different types of electrical machines										
					SEM 1 18/19	01	THU	16:00-16:50	T-DK-03	L	40	Y	0070 - ZBAW	11/01/2019 - PM	
								17:00-17:50	T-DK-03	L	40	Y	0777 - WHBWH		
			BTP2543	CONTROL INSTRUMENTATION	This course introduces the fundamental concepts and principles of measurement and manipulation of process signals. The operation of analogue and digital sensors, and actuators is addressed. Programmable logic controllers are introduced. In addition, provides the tools to analyse and design systems to control process plant and the consumption of energy in various systems.										
					SEM 1 18/19	01	MON	08:00-08:50	T-DK-04	L	30	Y	0070 - ZBAW	08/01/2019 - PM	BTP1523
								09:00-09:50	T-DK-04	L	30	Y	0144 - MABS		
			BTP3812	PHARMACOLOGY	This course aims to provide students with a comprehensive knowledge of fundamental Pharmacology; drug absorption, distribution, metabolism and excretion. Expose students with knowledge of mechanism of action and uses of the major classes of clinically important drugs currently used in medical practice. These include drugs affecting the autonomic nervous system; anesthetics and analgesics; drugs to treat the heart and diseases of the cardiovascular system; drugs that affect the immune system; drugs that affect the endocrine system and etc2										
					SEM 1 18/19	01	TUE	08:00-08:50	T-BK-02	L	30	Y	2407 - AAK		
								09:00-09:50	T-BK-02	L	30	Y			
			BTP3822	BIO PHARMACEUTICS	This course aims to provide the students with in-depth understanding and applying the biopharmaceutics principles absorption, distribution, metabolism, excretion, bioavailability and pharmacokinetics to expand knowledge of drug action and the influences of physiological and chemical function of drug disposition.										
					SEM 1 18/19	01	THU	08:00-08:50	T-BK-03	L	30	Y	2407 - AAK	08/01/2019 - AM	
								09:00-09:50	T-BK-03	L	30	Y			
			BTP3823	MATERIAL PROCESSES & COLLOID SCIENCE	This course aims to introduce students the information about surface, interface, surfactants, types and mechanism involved in colloids and rheological properties of the colloidal systems to formulate a stable colloidal dosage forms such as suspension, ointment, cream etc.										
					SEM 1 18/19	01	WED	08:00-08:50	T-BK-02	L	30	Y	01819 - SUBM	06/01/2019 - AM	
								09:00-09:50	T-BK-02	L	30	Y	0740 - RBH		
						01L	MON	14:00-14:50	ET-L-04	B	30	Y	0740 - RBH		
								15:00-15:50	ET-L-04	B	30	Y			
			BTP3833	OSH IN PHARMA INDUSTRY	This course intended to provide students with fundamental knowledge of safety and health in industry, particularly in pharmaceutical industry, to ensure a safe workplace environment. Students will also be taught on hazards identification and the assessment of it through proper safety management.										
					SEM 1 18/19	01	TUE	08:00-08:50	T-BK-01	L	30	Y	0070 - ZBAW	06/01/2019 - PM	
								09:00-09:50	T-BK-01	L	30	Y			
						01L	FRI	08:00-08:50	T-BK-03	B	30	Y	0070 - ZBAW		
								09:00-09:50	T-BK-03	B	30	Y			
			BTP4673	FINAL YEAR PROJECT I	This course is designed to expose the students to a final year project known as Pharma Project I. They										TOTAL CREDIT HOURS TAKEN MUST

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BTP4673**	**FINAL YEAR PROJECT I**	have to apply all the knowledge that they have learned in the program to complete the project. Each student will be supervised by at least one lecturer or two lecturers (main supervisor and co-supervisor). During the Pharma Project I, the students should be able to write a project proposal consisting of objective of the project, problem statement, literature survey, solving techniques, methodology, and expected result, project scheduling and costing. At the end of this subject, the students are required to present the draft in a short seminar which will be evaluated by a faculty¿s panel									NOT BE LESS THAN 95 HRS	
					SEM 1 18/19	01	FRI	15:00-15:50	T-BK-02	L	1	N	01786 - WNHBWZ		BTP4752
								16:00-16:50	T-BK-02	L	1	N			
								17:00-17:50	T-BK-02	L	1	N			
			BTP4675	**FINAL YEAR PROJECT II**	Pharma Project II is the platform in which students will implement their project proposal from Pharma Project I. In this project, students are required to execute series of experiments within the scope of studies based on the outlined objectives in Pharma Project I. Here, students are given opportunity to demonstrate the significant element of self- motivation and creativity in terms of the design and execution of their given/chosen area of study. The successful completion of a project requires that the student draws fully on his/her knowledge, conceptual and technical skills.									TOTAL CREDIT HOURS TAKEN MUST NOT BE LESS THAN 114 HRS	
					SEM 1 18/19	01	WED	14:00-14:50	T-DK-04	L	30	N	01786 - WNHBWZ		BTP4673
								15:00-15:50	T-DK-04	L	30	N			
								16:00-16:50	T-DK-04	L	30	N			
								17:00-17:50	T-DK-04	L	30	N			
								18:00-18:50	T-DK-04	L	30	N			
			BTU1112	**PHYSICS LABORATORY**	This laboratory introduces the students with the application of physics concept in engineering devices such as Free Fall, Bernoulli¿s Law, Hydrostatic Pressure And Electric Field. The concepts of physics introduced related in mechanics or dynamics motion and basic concepts of electrical area. The students will learn how to run the experiment with referring to the basic concepts of physics during the lab hours.									NOTE: GROUP 01A FOR BTV GROUP 02B FOR BTE GROUP 03C FOR BTM	
					SEM 1 18/19	03BG	MON	14:00-14:50	ET-L-03	B	30	N	0770 - MSBW		
								14:00-14:50	ET-L-03	B	38	N			
								15:00-15:50	ET-L-03	B	30	N			
								15:00-15:50	ET-L-03	B	38	N			
								16:00-16:50	ET-L-03	B	30	N			
								16:00-16:50	ET-L-03	B	38	N			
								17:00-17:50	ET-L-03	B	30	N			
								17:00-17:50	ET-L-03	B	38	N			
						04BG	TUE	14:00-14:50	ET-L-03	B	30	N	0764 - ZBZ		
								14:00-14:50	ET-L-03	B	37	N			
								15:00-15:50	ET-L-03	B	30	N			
								15:00-15:50	ET-L-03	B	37	N			
								16:00-16:50	ET-L-03	B	30	N			
								16:00-16:50	ET-L-03	B	37	N			
								17:00-17:50	ET-L-03	B	30	N			
								17:00-17:50	ET-L-03	B	37	N			
			BTU1113	**PHYSICS**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTU1113	PHYSICS	Physics is about the fundamental natural laws governing our universe. Taken as a whole, physics can be considered as the behaviour of just two fundamental quantities (space-time and mass-energy) in the presence of just four fundamental forces (gravitational, electromagnetic and strong and weak nuclear forces). Using physics, a small set of profound natural laws thus can be used to make sense of the complexities of the natural world, as well as the design and operation of our technology. Physics can be divided into different fields of study, with "classical physics" covering mechanics, acoustics, thermodynamics, electromagnetism and optics, and "modern physics" encompassing relativity and the quantum mechanics of light of matter. This course examines the conceptual basis of statics, dynamics, electric and magnetism. In this course students are provided with an introduction to key concepts, and obtain practice with relevant problem solving.											
						SEM 1 18/19	03LG	THU	10:00-10:50	FTEKD3	L	60	Y	0070 - ZBAW	04/01/2019 - PM	
									11:00-11:50	FTEKD3	L	60	Y			
									12:00-12:50	FTEKD3	L	60	Y			
							05LG	FRI	15:00-15:50	T-DK-04	L	60	Y	2308 - NK		
									16:00-16:50	T-DK-04	L	60	Y			
									17:00-17:50	T-DK-04	L	60	Y			
			BTU2113	RESEARCH METHOD	this course aims to expose students with research methodology and its application in conducting reserach prokects. Topics to be covered include identification of reserach problem, construct reserach objective, review the literature and propose appropriate methods. This course also allows students to prepare a proposal for conducting reserach in their field of study.											
						SEM 1 18/19	01	FRI	08:00-08:50	T-DK-02	L	35	N	TBA0001 - ES(		
									09:00-09:50	T-DK-02	L	35	N			
									10:00-10:50	T-DK-02	L	35	N			
							02	FRI	08:00-08:50	T-DK-02	L	35	N	TBA0001 - ES(		
									09:00-09:50	T-DK-02	L	35	N			
									10:00-10:50	T-DK-02	L	35	N			
			BTU2413	MANAGEMENT INFORMATION SYSTEM	This course aims to provide firm understanding on the significance role of information systems in today's organization in particular in managing organizational most valuable assets - its data and information. The discussion sessions shall covers four major topics; Information Systems and its applicability in modern enterprise and organization including its strategic competitive advantage as well as ethical issues involved; Information technology infrastructure and security issues; Information system applicability for digital age; building and managing information systems for organizational use. Hands on activity on the usage of office automation system and designing relational database shall be cover in lab sessions.											
						SEM 1 18/19	03	FRI	15:00-15:50	BKO05	L	43	Y	0070 - ZBAW	04/01/2019 - PM	
									16:00-16:50	BKO05	L	43	Y	2421 - ZABK		
							03A	MON	10:00-10:50	FKPPT- L-08	B	22	Y	S0642 - MSBS		
									11:00-11:50	FKPPT- L-08	B	22	Y			
							03B	WED	10:00-10:50	FKPPT- L-08	B	21	Y	TBA0001 - ES(		
									11:00-11:50	FKPPT- L-08	B	21	Y			
							04	WED	10:00-10:50	ZDK11	L	42	Y	0070 - ZBAW		
									11:00-11:50	ZDK11	L	42	Y	2222 - WMNSBMD		
							04A	THU	10:00-10:50	FKPPT-01A	B	21	Y	TBA0001 - ES(		
									11:00-11:50	FKPPT-01A	B	21	Y			
							04B	FRI	10:00-10:50	FKPPT-01A	B	21	Y	TBA0001 - ES(		
									11:00-11:50	FKPPT-	B	21	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTV1113	ENVIRONMENTAL TECHNOLOGY											
					SEM 1 18/19	01LG	THU	14:00-14:50	FTEKD2	L	30		2435 - NYBY		
								15:00-15:50	FTEKD2	L	30				
								16:00-16:50	FTEKD2	L	30				
			BTV2123	ENVIROMENTAL LAW, POLICY & ECONOMICS	This Module will introduce students on the history of environment law and regulation system applied in Malaysia. The students will expose to EQA 1974 Act that related to indusries, agriculture, constructions, aquafarming and other activites that required them to comply with policies and regulation. Students will learns international policies that applied in our country.										
					SEM 1 18/19	01	FRI	09:00-09:50	T-DK-06	L	60	Y	01601 - ABAA	07/01/2019 - AM	
								10:00-10:50	T-DK-06	L	60	Y			
								11:00-11:50	T-DK-06	L	60	Y			
			BTV2213	THERMODYNAMICS	This course focuses on the application of the thermodynamics knowledge in various engineering system. The subject covers the review and analysis of energy, gas power cycles, vapour power cycles, refrigeration cycles, gas mixtures, gas-vapour mixture & air-conditioning and combustion.										
					SEM 1 18/19	01L	TUE	08:00-08:50	T-DK-03	L	60	Y	01166 - MTBCK	05/01/2019 - PM	
								09:00-09:50	T-DK-03	L	60	Y	0181 - CKMFBCKY		
			BTV2223	ENVIRONMENTAL MANAGEMENT SYSTEM											
					SEM 1 18/19	01LG	WED	10:00-10:50	FTEKD6	L	60		01601 - ABAA		
								11:00-11:50	FTEKD6	L	60				
								12:00-12:50	FTEKD6	L	60				
			BTV3224	HEATING, VENTILATING AND AIR CONDITIONING TECHNOLOGY	Heat gains and losses, heat producing equipment, cooling, and refrigeration equipment are studied. Human comfort and air quality requirement and efficient design of HVAC system for commercial, industrial, and residential systems.										
					SEM 1 18/19	01L	WED	10:00-10:50	T-BK-02	L	60	Y	0070 - ZBAW	04/01/2019 - AM	
								11:00-11:50	T-BK-02	L	60	Y	0741 - KABAH		
								12:00-12:50	T-BK-02	L	60	Y			
			BTV3324	DESIGN FOR ENERGY EFFICIENCY AND GREEN MATERIALS	Overview of energy forms, sources, generation, devices, systems, and materials. Review of the physics of energy transformation and conservation. Energy efficiencies of components and systems from stationary and transportation sectors. Energy-efficient design in residential, commercial, industrial, and manufacturing systems. Sustainability, environmental impacts, economic and social issues, and global governmental policies. Potential of alternative energy sources. Use of eco-friendly materials to improve efficiency. Topics from an applied perspective of technology practices, management, responsibilities, and policies involved with implementing energy conservation designs.										
					SEM 1 18/19	01L	TUE	14:00-14:50	T-DK-06	L	30	Y	01166 - MTBCK	08/01/2019 - AM	
								15:00-15:50	T-DK-06	L	30	Y	01738 - NBMM		
						01TG	THU	11:00-11:50	T-BK-01	T	30	Y	01738 - NBMM		
			BTV3333	BIOBASED FUELS AND ALTERNATIVE ENERGY APPLICATIONS											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BTV3333**	**BIOBASED FUELS AND ALTERNATIVE ENERGY APPLICATIONS**	Overview of bio-fuel sources, production, and applications. Review of conventional energy supplies and uses. The study of liquid and gaseous fuels derived from plant and animal matter, utilizing of biofuels for combustion, stationary power, and transportation. Study of biofuels used in conventional and alternative manners, energy from biomass, bioreactor design, sustainability, environmental impacts, economic and social issues, and global governmental policies. Biohydrogen production, pretreatment of biomass and nanotechnology for biofuel production topics from an applied perspective of technology practices, with implementing large-scale consumption of biofuels.										
					SEM 1 18/19	01L	MON	08:00-08:50	FTEKD2	L	30	Y	01336 - MFBML 2308 - NK	09/01/2019 - AM	
								09:00-09:50	FTEKD2	L	30	Y			
							THU	14:00-14:50	T-DK-06	L	30	Y			
								15:00-15:50	T-DK-06	L	30	Y			
						02L	WED	10:00-10:50	T-BK-03	L	30	Y	01336 - MFBML 2308 - NK		
								11:00-11:50	T-BK-03	L	30	Y			
			BTV3413	**INDUSTRIAL QUALITY CONTROL**	Fundamental concepts and principles of quality and continuous improvement in manufacturing and service industries, developed by the various quality gurus (Deming, Juran, Feigenbaum, Ishikawa etc.). The use of control charts and statistical tools to determine stability and capability of processes to produce quality product. Defining and quantifying the various forms of quality costs.										
					SEM 1 18/19	01L	FRI	08:00-08:50	ET-L-01	L	30	Y	0070 - ZBAW	11/01/2019 - AM	
								09:00-09:50	ET-L-01	L	30	Y			
								10:00-10:50	ET-L-01	L	30	Y			
						02L	WED	14:00-14:50	ET-L-01	L	30	Y	0070 - ZBAW 0181 - CKMFBCKY		
								15:00-15:50	ET-L-01	L	30	Y			
								16:00-16:50	ET-L-01	L	30	Y			
			BTV3424	**FACILITIES MANAGEMENT TECHNOLOGY**	An overview of the technology facility management responsibilities, policies, and practices involved in implementing and/or managing technology properties that have sustainable goals connected to them. Identification of competencies needed by the technology facility management function to properly design, operate, and maintain facilities within the scope of responsibilities of technology facilities managers.										
					SEM 1 18/19	01L	THU	08:00-08:50	T-DK-06	L	30	Y	0070 - ZBAW 0520 - MMBAR		
								09:00-09:50	T-DK-06	L	30	Y			
								10:00-10:50	T-DK-06	L	30	Y			
			BTV3433	**ENGINEERING ECONOMY**	This course introduces concept of life cycle cost, interest and equivalent. Formula and factors for single and multiple cash flow. Method for investment assessment and alternative comparison and project evaluation using cost worth ratio, inflation and cash flow method										
					SEM 1 18/19	01LG	MON	10:00-10:50	FTEKD2	L	30	Y	01738 - NBMM	06/01/2019 - AM	
								11:00-11:50	FTEKD2	L	30	Y			
								12:00-12:50	FTEKD2	L	30	Y			
			BTV3443	**DISASTER PREPAREDNESS**	This module will introduce students to natural and manmade/technological disaster, source of disaster, hazard management, disaster management plan and relevant agencies in disaster management. The topics include the emergency response plan and procedure, communication, training and abatement as they related to hazardous waste operation, chemical spills, hazardous material recognition, risk assessment, monitoring and personal protective equipment level. The module goal is to enable the student to apply the disaster management plan in the industries/organisations.										
					SEM 1 18/19	01LG	FRI	15:00-15:50	T-DK-03	L	30	Y	2435 - NYBY	04/01/2019 - PM	
								16:00-16:50	T-DK-03	L	30	Y			
								17:00-17:50	T-DK-03	L	30	Y			
							MON	14:00-14:50	FTEKD3	L	30	Y			
								15:00-15:50	FTEKD3	L	30	Y			
								16:00-16:50	FTEKD3	L	30	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BTV3714	INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM	Offers an introduction to the concepts, principles and theories behind Geographic information systems and science (GIS) with emphasis on the nature of geogprahic information system										
					SEM 1 18/19	01BG	THU	16:00-16:50	ET-L-02	B	30	N	01336 - MFBML		
								17:00-17:50	ET-L-02	B	30	N			
						01LG	TUE	08:00-08:50	ET-L-02	L	30	N	0070 - ZBAW		
								09:00-09:50	ET-L-02	L	30	N	01336 - MFBML		
						02BG	WED	08:00-08:50	ET-L-02	B	30	N	01166 - MTBCK		
								09:00-09:50	ET-L-02	B	30	N			
			BTV3813	ENGINEERING TECHNOLOGY SENIOR DESIGN PROJECT I	This course is designed to expose the students to a senior design project. They have to apply all the knowledge that they have learned in the programme to complete the senior design project. Each student will be supervised by at least one lecturer or two lecturers (main supervisor and co-supervisor). During the senior design project I, the students will be able to do a literature survey and prepare a draft which contains objective of the project, problem statement, literature survey, solving techniques, methodology, expected result, treatment of results and list of reference publications. At the end of this subject, the students are required to present the draft in a short seminar which will be evaluated by a faculty's panel.										
					SEM 1 18/19	01	WED	13:00-13:50	T-BK-02	L	30	N	0181 - CKMFBCKY		
								14:00-14:50	T-BK-02	L	30	N			
								15:00-15:50	T-BK-02	L	30	N			
			BTV4703	SOLAR ENERGY SYSTEM (ELECTIVE 1)	The course is intended for students who have interest in alternate energy sources as a contributor to sustainability. It provides a comprehensive treatise on the science and technology of solar energy, its collection and the design principles that need to be understood for its effective use in a variety of installations and uses. At the end of the course the students should be able to: Understand the factors that influence the use of solar radiation as an energy source; know the various active and passive technologies that are available for collecting solar energy; have the ability to apply design principles to selection of an appropriate solar energy installation to meet requirements.										
					SEM 1 18/19	01	TUE	10:00-10:50	T-DK-06	L	49	Y	01299 - ABAR		
								11:00-11:50	T-DK-06	L	49	Y	0741 - KABAH		
			BTV4723	WATER AND WASTEWATER MONITORING	Water and wastewater monitoring is an essential tool in the management of water resources and it comprehensively covers the entire monitoring operation including data sampling and analysis, statistics, sampling design, chemical monitoring, in-situ measurements, trace metals, nutrients, organic matter, organic carbon, and biological monitoring of watershed										
					SEM 1 18/19	01L	WED	10:00-10:50	T-DK-04	L	60	Y	0729 - MZBS	05/01/2019 - PM	
								11:00-11:50	T-DK-04	L	60	Y	2435 - NYBY		
			BTV4733	ENVIRONMENTAL MANAGEMENT SYSTEM	This module will introduce students to the principals of environmental management system. Students will apply these principles to the solution of environmental problems. The module goal is to enable the student to develop the knowledge and analytical skills in solving environmental problems.										
					SEM 1 18/19	01L	THU	14:00-14:50	T-DK-04	L	49	Y	01601 - ABAA		
								15:00-15:50	T-DK-04	L	49	Y	0741 - KABAH		
PEKAN	DEGREE		BTE1122	ELECTRICAL INSTALLATION WORKSHOP											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		**BTE1122**	**ELECTRICAL INSTALLATION WORKSHOP**	This course introduces students to the single phase domestic wiring and installation. The students will learn about supply system, rules and regulation, wiring system and electrical protection system. They are also will practice in applying trunking and conduits for electrical wiring as well as doing fitting and installation of electrical system devices. Students need to construct the single phase domestic wiring and installation for lighting, socket outlet, fan and air conditioner. They are also will conduct inspection and testing on their wiring and installation as safety confirmation and fulfill the regulations.										
					SEM 1 18/19	01	WED	14:00-14:50	E20-F20	B	30	N	0628 - HABH		
								15:00-15:50	E20-F20	B	30	N			
								16:00-16:50	E20-F20	B	30	N			
								17:00-17:50	E20-F20	B	30	N			
						02	TUE	08:00-08:50	E20-F20	B	30	N	0628 - HABH		
								09:00-09:50	E20-F20	B	30	N			
								10:00-10:50	E20-F20	B	30	N			
								11:00-11:50	E20-F20	B	30	N			
			BTE1212	**ELECTRICAL FUNDAMENTALS LABORATORY**	This course introduces students to the fundamentals laboratory of DC and AC circuits and basic network laws and theorems. The students will be handling the basic measurement equipment to measure and analyse the parameter of the electrical circuits.										
					SEM 1 18/19	01BP	TUE	08:00-08:50	E12-F18A	B	30	N	01332 - NZBJ		
								09:00-09:50	E12-F18A	B	30	N			
								10:00-10:50	E12-F18A	B	30	N			
								11:00-11:50	E12-F18A	B	30	N			
						02BP	WED	08:00-08:50	E12-F18A	B	30	N	01332 - NZBJ		
								09:00-09:50	E12-F18A	B	30	N			
								10:00-10:50	E12-F18A	B	30	N			
								11:00-11:50	E12-F18A	B	30	N			
			BTE1213	**ELECTRICAL FUNDAMENTALS**	This module will introduce students to basic science of electricity, introduction to instrumentation and measurement, work and energy theorem, basic electrical circuit and introduction to magnetism.										
					SEM 1 18/19	01LP	FRI	08:00-08:50	FKP-F-BK-01	L	30	Y	0081 - HBM	04/01/2019 - AM	
								09:00-09:50	FKP-F-BK-01	L	30	Y			
						01T	TUE	12:00-12:50	FKP-F-DK-04	T	30	Y	01789 - ANBAG		
								13:00-13:50	FKP-F-DK-04	T	30	Y			
						03LP	WED	13:00-13:50	FKP-F-BK-06	L	60	Y	0081 - HBM		
								14:00-14:50	FKP-F-BK-06	L	60	Y			
						03TP	FRI	14:00-14:50	FKP-F-BK-01	T	30	Y	0081 - HBM		
								15:00-15:50	FKP-F-BK-01	T	30	Y			
						04TP	MON	14:00-14:50	FKP-F-BK-02	T	30	Y	0081 - HBM		
								15:00-15:50	FKP-F-BK-02	T	30	Y			
			BTE1313	**INSTRUMENTATION & MEASUREMENTS**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		**BTE1313**	**INSTRUMENTATION & MEASUREMENTS**	This course introduces students to the principles of instrumentation and measurements, determination of error that caused by the meters. The students will be exposed to the architecture and the operation of DC and AC meters, oscilloscope, signal generator, storage instrument and display devices, analysis of DC and AC meters and introduction to signal conditioning .										
					SEM 1 18/19	01BP	THU	16:00-16:50	E12-F17A	B	30	Y	0628 - HABH	08/01/2019 - AM	
								17:00-17:50	E12-F17A	B	30	Y			
						01LP	WED	12:00-12:50	FKP-F-BK-03	L	30	Y	0070 - ZBAW		
								13:00-13:50	FKP-F-BK-03	L	30	Y			
						01T	FRI	14:00-14:50	FKP-F-BK-04	T	30	Y	0070 - ZBAW		
								15:00-15:50	FKP-F-BK-04	T	30	Y			
			BTE2113	**ANALOG ELECTRONICS**	The P-N Junction Diode, Diode Applications, Bipolar Junction Transistors (BJT), DC Biasing of the BJT Amplifier, Transistor Modelling, Cascade Amplifier, Small-Signal BJT Amplifier, Metal-Oxide-Semiconductor FET (MOSFET), MOSFET Amplifier, Frequency Response of BJT and FET Amplifiers.										
					SEM 1 18/19	01LP	TUE	10:00-10:50	FKP-F-DK-02	L	30	Y	2426 - MNS	05/01/2019 - AM	
								11:00-11:50	FKP-F-DK-02	L	30	Y			
						01T	TUE	12:00-12:50	FKP-F-DK-02	T	30	Y	2426 - MNS		
								13:00-13:50	FKP-F-DK-02	T	30	Y			
			BTE2133	**ELECTRICAL FUNDAMENTALS AND CIRCUIT ANALYSIS II**	This module provides the basic concepts and engineering methods of AC circuits. The contents include applications of Mesh and Nodal analysis, Superposition and Source Transformation Theorems, Thevenin and Norton Theorem. Resonant circuit, Filters, Bridges and Balanced 3-phase circuits are also covered.										
					SEM 1 18/19	01T	WED	12:00-12:50	FKP-F-DK-02	T	30	Y	01665 - NHBR		BTE2123
								13:00-13:50	FKP-F-DK-02	T	30	Y			
			BTE2222	**CIRCUIT ANALYSIS I LABORATORY**	This course introduces the basic laboratory of DC and AC circuit analysis. The contents include Ohm's Law, Kirchhoff's Law, series and parallel circuits, Mesh and Nodal analysis, superposition theorem, Thevenin and Norton equivalent of a complex circuit. The student will be handling measuring of capacitance, measure capacitor charge and discharge times, RL, RC circuits, phase difference, measure power in various type of circuits.										
					SEM 1 18/19	01BP	THU	08:00-08:50	E12-F18A	B	30	N	0131 - MABMH		
								09:00-09:50	E12-F18A	B	30	N			
								10:00-10:50	E12-F18A	B	30	N			
								11:00-11:50	E12-F18A	B	30	N			
			BTE2223	**CIRCUIT ANALYSIS I**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		BTE2223	CIRCUIT ANALYSIS I	This course introduces the engineering methods of DC circuit analysis. The contents include Mesh and Nodal analysis, Source Transformation, and 4 main network Theorems: Superposition, Thevenin, Norton and Maximum Power Transfer theorems. It also includes the basic of DC transients in capacitors and inductors, and their relationship with electromagnetism concepts. Introduction to AC fundamentals and impedance concept of RLC circuits are also covered.											
						SEM 1 18/19	01LP	FRI	16:00-16:50	FKP-F-BK-04	L	30	Y	01665 - NHBR	07/01/2019 - AM	
									17:00-17:50	FKP-F-BK-04	L	30	Y			
							01T	MON	11:00-11:50	FKP-F-DK-02	T	30	Y	01665 - NHBR		
									12:00-12:50	FKP-F-DK-02	T	30	Y			
			BTE2232	CIRCUIT ANALYSIS II LABORATORY	Tis coyrse provides the basic concepts and engineering methods of AC circuits. The contacts include applications of Mesh and Nodal analysis, Superposition and Source Transformation Theorams, Thevenin and Norton Theorem. Resonen circuit, Filters, Bridges and Balanced 3- phase circuits are also covered											
						SEM 1 18/19	01BP	TUE	14:00-14:50	E12-F18A	B	30	N	0628 - HABH		
									14:00-14:50	E12-F18A	B	60	N			
									15:00-15:50	E12-F18A	B	30	N			
									15:00-15:50	E12-F18A	B	60	N			
									16:00-16:50	E12-F18A	B	30	N			
									16:00-16:50	E12-F18A	B	60	N			
									17:00-17:50	E12-F18A	B	30	N			
									17:00-17:50	E12-F18A	B	60	N			
							02BP	MON	14:00-14:50	E12-F18A	B	30	N	0628 - HABH		
									15:00-15:50	E12-F18A	B	30	N			
									16:00-16:50	E12-F18A	B	30	N			
									17:00-17:50	E12-F18A	B	30	N			
			BTE2233	CIRCUIT ANALYSIS II	This module provides the basic concepts and engineering methods of AC circuits. The contents include applications of Mesh and Nodal analysis, Superposition and Source Transformation Theorems, Thevenin and Norton Theorem. Resonant circuit, Filters, Bridges and Balanced 3-phase circuits are also covered.											
						SEM 1 18/19	01T	MON	14:00-14:50	FKP-F-BK-03	T	30	Y	01665 - NHBR	07/01/2019 - PM	
									15:00-15:50	FKP-F-BK-03	T	30	Y			
							02T	WED	13:00-13:50	FKP-F-BK-01	T	30	Y	01665 - NHBR		
									14:00-14:50	FKP-F-BK-01	T	30	Y			
			BTE2313	COMPUTER PROGRAMMING	Fundamental principles and concepts of C++ programming, with definition of data, expressions, control structure, functions, input and output, command line arguments, basic problem solving and programming techniques, structured programming ideas, fundamental algorithms and data structures.											
						SEM 1 18/19	01	FRI	10:00-10:50	E10-F06A	B	30	Y	01887 - NBS	10/01/2019 - AM	
									11:00-11:50	E10-F06A	B	30	Y			
							01LP	FRI	08:00-08:50	E00-F01	L	30	Y	01887 - NBS		
									09:00-09:50	E00-F01	L	30	Y			
							02	MON	16:00-16:50	E10-F06A	B	30	Y	01887 - NBS		
									17:00-17:50	E10-F06A	B	30	Y			
							02LP	MON	11:00-11:50	E00-F01	L	30	Y	0070 - ZBAW 01887 - NBS		
									12:00-12:50	E00-F01	L	30	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		**BTE3142**	**ELECTRIC MACHINES AND TRANSFORMERS LABORATORY**	This course introduces the fundamental concepts and principles of transformer and various types of electrical machines. It is intended for students to understand fundamental aspects of rotating electrical machines. The first part of the course is a quick review of some electromagnetism fundamental while the following will deal with the transformers and different types of electrical machines.										
					SEM 1 18/19	01BP	FRI	14:00-14:50	E10-F04B	B	30	N	0131 - MABMH		
								15:00-15:50	E10-F04B	B	30	N			
								16:00-16:50	E10-F04B	B	30	N			
								17:00-17:50	E10-F04B	B	30	N			
			BTE3143	**ELECTRIC MACHINES AND TRANSFORMERS**	This course introduces the fundamental concepts and principles of transformer and various types of electrical machines. It is intended for students to understand fundamental aspects of rotating electrical machines. The first part of the course is a quick review of some electromagnetism fundamental while the following will deal with the transformers and different types of electrical machines.										
					SEM 1 18/19	01LP	TUE	16:00-16:50	FKP-F-BK-01	L	30	Y	01789 - ANBAG	11/01/2019 - PM	
								17:00-17:50	FKP-F-BK-01	L	30	Y			
						01T	TUE	14:00-14:50	FKP-F-BK-01	T	30	Y	01789 - ANBAG		
								15:00-15:50	FKP-F-BK-01	T	30	Y			
			BTM1114	**BASIC MANUFACTURING PROCESSES**	The purpose of teaching this subject is to provide the students with a basic understanding of materials, techniques, and equipment used in manufacturing. This course enable students to ready for the advanced manufacturing process.										
					SEM 1 18/19	01B	THU	08:00-08:50	M40F19	B	33	Y	0328 - JBJ	04/01/2019 - AM	
								09:00-09:50	M40F19	B	33	Y			
								10:00-10:50	M40F19	B	33	Y			
								11:00-11:50	M40F19	B	33	Y			
						01LP	MON	08:00-08:50	FKP-F-BK-06	L	33	Y	01686 - SNBMS 0328 - JBJ		
								09:00-09:50	FKP-F-BK-06	L	33	Y			
						02B	FRI	08:00-08:50	M40F19	B	33	Y	0386 - RBG		
								09:00-09:50	M40F19	B	33	Y			
								10:00-10:50	M40F19	B	33	Y			
								11:00-11:50	M40F19	B	33	Y			
						02LP	MON	08:00-08:50	FKP-F-BK-06	L	33	Y	01686 - SNBMS 0386 - RBG		
								09:00-09:50	FKP-F-BK-06	L	33	Y			
			BTM1124	**MACHINE PRODUCTION PROCESS**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		**BTM1124**	**MACHINE PRODUCTION PROCESS**	This course intends to provide detailed study of conventional and contemporary methods of metal machining. Laboratory experience includes the fundamentals of machine tool setup and operation, precision measurement techniques, and machine tool safety, care and maintenance										
					SEM 1 18/19	01BP	MON	08:00-08:50	M30F4	B	30	Y	01338 - MABMA	06/01/2019 - AM	
								09:00-09:50	M30F4	B	30	Y			
						01LP	MON	10:00-10:50	FKP-F-DK-04	L	35	Y	01338 - MABMA 01870 - NABZ		
								11:00-11:50	FKP-F-DK-04	L	35	Y			
						02BP	WED	08:00-08:50	M30F4	B	30	Y	0887 - JIBWAH		
								09:00-09:50	M30F4	B	30	Y			
						02LP	WED	14:00-14:50	FKP-F-BK-02	L	40	Y	01870 - NABZ 0887 - JIBWAH		
								15:00-15:50	FKP-F-BK-02	L	40	Y			
			BTM1223	**ENGINEERING DYNAMICS**											
					SEM 1 18/19	01LP	THU	08:00-08:50	FKP-F-BK-06	L	37	Y	01870 - NABZ		
								09:00-09:50	FKP-F-BK-06	L	37	Y			
								10:00-10:50	FKP-F-BK-06	L	37	Y			
						02LP	TUE	14:00-14:50	FKP-F-DK-04	L	38	Y	01870 - NABZ		
								15:00-15:50	FKP-F-DK-04	L	38	Y			
								16:00-16:50	FKP-F-DK-04	L	38	Y			
			BTM1413	**PROPERTIES OF MATERIAL**	This course intends to provide the details of engineering materials, their history, structures, properties, applications. This knowledge will be further useful to make intelligent selection of materials for different applications.										
					SEM 1 18/19	01LP	WED	10:00-10:50	FKP-F-DK-03	L	60	Y	0070 - ZBAW		
								11:00-11:50	FKP-F-DK-03	L	60	Y			
								12:00-12:50	FKP-F-DK-03	L	60	Y			
			BTM1614	**COMPUTER AIDED DRAFTING**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		**BTM1614**	**COMPUTER AIDED DRAFTING**											
					SEM 1 18/19	01BP	TUE	08:00-08:50	E10-F06A	B	30	Y	01895 - MSABMR		
								09:00-09:50	E10-F06A	B	30	Y			
								10:00-10:50	E10-F06A	B	30	Y			
								11:00-11:50	E10-F06A	B	30	Y			
						01LP	FRI	14:00-14:50	E10-F06A	L	30	Y	0070 - ZBAW		
								15:00-15:50	E10-F06A	L	30	Y	01895 - MSABMR		
						02BP	WED	08:00-08:50	E10-F06A	B	30	Y	01895 - MSABMR		
								09:00-09:50	E10-F06A	B	30	Y			
								10:00-10:50	E10-F06A	B	30	Y			
								11:00-11:50	E10-F06A	B	30	Y			
						02LP	FRI	16:00-16:50	E10-F06A	L	30	Y	0070 - ZBAW		
								17:00-17:50	E10-F06A	L	30	Y	01895 - MSABMR		
						03BP	FRI	08:00-08:50	E10-F06A	B	33	Y	0520 - MMBAR		
								09:00-09:50	E10-F06A	B	33	Y			
								10:00-10:50	E10-F06A	B	33	Y			
								11:00-11:50	E10-F06A	B	33	Y			
						03LP	WED	13:00-13:50	E10-F06A	L	33	Y	0070 - ZBAW		
								14:00-14:50	E10-F06A	L	33	Y	0520 - MMBAR		
						04BP	THU	08:00-08:50	E10-F06A	B	33	Y	0520 - MMBAR		
								09:00-09:50	E10-F06A	B	33	Y			
								10:00-10:50	E10-F06A	B	33	Y			
								11:00-11:50	E10-F06A	B	33	Y			
						04LP	TUE	16:00-16:50	E10-F06A	L	33	Y	0070 - ZBAW		
								17:00-17:50	E10-F06A	L	33	Y	0520 - MMBAR		
			BTM2424	**STRENGTH OF MATERIALS**	This course intends to provide mechanics of deformable bodies with emphasis on principles of stress and strain, shear and bending moment, torsion, buckling, failure criteria and design concepts										
					SEM 1 18/19	01B	TUE	08:00-08:50	M20F9B	B	25	Y	0887 - JIBWAH	07/01/2019 - AM	
								09:00-09:50	M20F9B	B	25	Y			
								10:00-10:50	M20F9B	B	25	Y			
								11:00-11:50	M20F9B	B	25	Y			
						01LP	MON	14:00-14:50	FKP-F-BK-06	L	49	Y	0070 - ZBAW 0887 - JIBWAH		
								15:00-15:50	FKP-F-BK-06	L	49	Y			
						02B	TUE	14:00-14:50	M20F9A	B	24	Y	0887 - JIBWAH		
								15:00-15:50	M20F9A	B	24	Y			
								16:00-16:50	M20F9A	B	24	Y			
								17:00-17:50	M20F9A	B	24	Y			
			BTM2623	**COMPUTER AIDED MODELLING**											
					SEM 1 18/19	01LP	WED	14:00-14:50	FKP-F-BK-05	L	49	N	01401 - MFBAA 01886 - MNBO		
			BTU1112	**PHYSICS LABORATORY**											

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE		**BTU1112**	**PHYSICS LABORATORY**	This laboratory introduces the students with the application of physics concept in engineering devices such as Free Fall, Bernoulli¿s Law, Hydrostatic Pressure And Electric Field. The concepts of physics introduced related in mechanics or dynamics motion and basic concepts of electrical area. The students will learn how to run the experiment with referring to the basic concepts of physics during the lab hours.										NOTE: GROUP 01A FOR BTV GROUP 02B FOR BTE GROUP 03C FOR BTM
					SEM 1 18/19	01	MON	14:00-14:50	E10-F07B	B	30	N	01336 - MFBML		
								15:00-15:50	E10-F07B	B	30	N			
								16:00-16:50	E10-F07B	B	30	N			
								17:00-17:50	E10-F07B	B	30	N			
						02	THU	14:00-14:50	E10-F07B	B	30	N	01166 - MTBCK		
								15:00-15:50	E10-F07B	B	30	N			
								16:00-16:50	E10-F07B	B	30	N			
								17:00-17:50	E10-F07B	B	30	N			
			BTU1113	**PHYSICS**	Physics is about the fundamental natural laws governing our universe. Taken as a whole, physics can be considered as the behaviour of just two fundamental quantities (space-time and mass-energy) in the presence of just four fundamental forces (gravitational, electromagnetic and strong and weak nuclear forces). Using physics, a small set of profound natural laws thus can be used to make sense of the complexities of the natural world, as well as the design and operation of our technology. Physics can be divided into different fields of study, with "classical physics" covering mechanics, acoustics, thermodynamics, electromagnetism and optics, and "modern physics" encompassing relativity and the quantum mechanics of light of matter. This course examines the conceptual basis of statics, dynamics, electric and magnetism. In this course students are provided with an introduction to key concepts, and obtain practice with relevant problem solving.										
					SEM 1 18/19	01LP	MON	08:00-08:50	FKP-F-DK-02	L	60	Y	0070 - ZBAW	04/01/2019 - PM	
								09:00-09:50	FKP-F-DK-02	L	60	Y			
								10:00-10:50	FKP-F-DK-02	L	60	Y			
NO TIMETABLE	DEGREE	4	**BPS4534**	**INDUSTRIAL TRAINING REPORT**	During the placement, students are expected to keep a log book, in which they make a regular entries describing the work they are undertaking. Then Students need to provide industrial training report to describe their technical and personal development during their placement. the industrial training report need to hand in to the university supervisor for evaluation. Students need to do presentation as well at the end of their placement for assessment.										
					SEM 1 18/19	01					10	N	TBA		
			***BTM1213**	**STATICS**	This course introduces the force vector algebra, equilibrium of forces on particle, equilibrium of forces on single rigid body and simple force analysis on simple frames and machine structures (multi-rigid bodies) and problems involving dry friction.										
					SEM 1 18/19	GMI					30	Y	TBA		
			BPS4538	**INDUSTRIAL TRAINING**	This course aims to give chances for the students to practise and apply their knowledge and skills that they gain during their study. During the placement, we expect students to keep a log book, in which they make a regular entries describing the work they are undertaking. Students are supervised by industrial and university supervisors to guide and ensure they can do their work as good as possible and achieve the objective for this course.										
					SEM 1 18/19	01					10	N	TBA		
			BTE2123	**ELECTRICAL FUNDAMENTALS AND CIRCUIT ANALYSIS I**	This course introduces the engineering methods of DC circuit analysis. The contents include Mesh and Nodal analysis, Source Transformation, and 4 main network Theorems: Superposition, Thevenin, Norton and Maximum Power Transfer theorems. It also includes the basic of DC transients in capacitors and										

COURSE TIMETABLE

Faculty : **FACULTY OF ENGINEERING TECHNOLOGY**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
NO TIMETABLE	DEGREE		**BTE2123**	**ELECTRICAL FUNDAMENTALS AND CIRCUIT ANALYSIS I**	inductors, and their relationship with electromagnetism concepts. Introduction to AC fundamentals and impedance concept of RLC circuits are also covered.										
					SEM 1 18/19	GMI					30	Y	TBA		
			BTE3262	**ELECTRICAL AUTOMATION**	This course introduces student to electrical switching circuit design and construction. Students will learn how to design hard wire controller using the combination of switches, transistor, relay, timer, sensors, motor, etc.										
					SEM 1 18/19	GMI					20	Y	TBA		
			BTM1213	**ENGINEERING MECHANICS**	This course introduces the force vector algebra, equilibrium of forces on particle, equilibrium of forces on single rigid body and simple force analysis on simple frames and machine structures (multi-rigid bodies) and problems involving dry friction.										
					SEM 1 18/19	GMI					27	Y	TBA	04/01/2019 - AM	
			BTM3523	**PROGRAMMABLE LOGIC CONTROLLERS**	Basic concepts and skills needed to install, program, and apply programmable electronic controllers in industry. Discrete and analog input/output (I/O) devices and ladder logic will be studied, including basic and intermediate PLC functions. Experiments in operation, programming, and industrial applications with emphasis on discrete I/Os.										
					SEM 1 18/19	GMI					30	Y	TBA	12/01/2019 - AM	
			BTM4919	**INDUSTRIAL TRAINING**	In Industrial Training the students should gain insight into industrial practice, in order to visualize the tasks and possibilities of their later occupation work. All students are required to undergo and industrial training for a certain period that has been agreed by the faculty during last semester of the academic year. The performance of each student during the periods of his/her industrial training is evaluated by the faculty staff, and the representatives from employer organization										
					SEM 1 18/19	GMI					28	N	TBA		
			BTV3143	**AIR POLLUTION CONTROL TECHNOLOGY**											
					SEM 1 18/19	01					60		TBA		


FACULTY OF
MANUFACTURING
ENGINEERING

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BFF1102**	**STATICS**	This course introduces the concepts of force vector algebra and free-body diagrams to solve problems on equilibrium of forces. The course covers six major chapters in engineering mechanics of statics as follows: 1. equilibrium of forces on a particle, 2. equilibrium of forces on single rigid body, 3. equilibrium of forces on simple trusses, frames and machine structures (multi-rigid bodies), 4. quilibrium of forces in dry friction, 5. centre of gravity and centroid and 6. moments of inertia.										
					SEM 1 18/19	01	THU	08:00-08:50	FKP-F-PBL-02	L	10	Y	01822 - RBAA	04/01/2019 - AM	
								09:00-09:50	FKP-F-PBL-02	L	10	Y			
							TUE	08:00-08:50	FKP-F-PBL-02	L	10	Y			
								09:00-09:50	FKP-F-PBL-02	L	10	Y			
						02	THU	14:00-14:50	FKP-F-PBL-02	L	10	Y	01822 - RBAA		
								15:00-15:50	FKP-F-PBL-02	L	10	Y			
							TUE	14:00-14:50	FKP-F-PBL-02	L	10	Y			
								15:00-15:50	FKP-F-PBL-02	L	10	Y			
		1	**BFF1103**	**STATICS**											
					SEM 1 18/19	01	THU	08:00-08:50	FKP-F-PBL-02	L	35	Y	01822 - RBAA	04/01/2019 - AM	
								09:00-09:50	FKP-F-PBL-02	L	35	Y			
							TUE	08:00-08:50	FKP-F-PBL-02	L	35	Y			
								09:00-09:50	FKP-F-PBL-02	L	35	Y			
						02	THU	14:00-14:50	FKP-F-PBL-02	L	35	Y	01822 - RBAA		
								15:00-15:50	FKP-F-PBL-02	L	35	Y			
							TUE	14:00-14:50	FKP-F-PBL-02	L	35	Y			
								15:00-15:50	FKP-F-PBL-02	L	35	Y			
		1	**BFF1113**	**ENGINEERING MATERIALS**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BFF1113**	**ENGINEERING MATERIALS**	This course introduces the fundamental concepts of engineering materials which includes the structure of materials, mechanical and physical properties of materials, binary phase diagrams, isothermal diagram, heat treatment, applications and current developments of metal, polymer, ceramic, composite and advanced materials. Also, basic understanding on the environmental degradation of engineering materials.										
					SEM 1 18/19	01	THU	08:00-08:50	FKP-F-DK-02	L	45	Y	01576 - NMBI	04/01/2019 - PM	
								09:00-09:50	FKP-B-M-01	B	45	Y			
							TUE	08:00-08:50	FKP-F-DK-02	L	45	Y			
								09:00-09:50	FKP-F-DK-02	L	45	Y			
						02	THU	14:00-14:50	FKP-F-DK-02	L	45	Y	01576 - NMBI		
								15:00-15:50	FKP-B-M-01	B	45	Y			
							TUE	14:00-14:50	FKP-F-DK-02	L	45	Y			
								15:00-15:50	FKP-F-DK-02	L	45	Y			
		1	**BFF1123**	**DYNAMICS**	This course covers rigid body kinematics and kinetics of 2D planar motions. At the of the course, the students should be able to analyze the position, velocity and acceleration of a 2D planar mechanism. Furthermore, by applying either the principle of force-acceleration, work-energy, and/or impulse-momentum, the students should be able to solve the kinetics problems of 2D planar motion. This course also requires the students to design a 2D planar mechanism that performs a specific function.										
					SEM 1 18/19	01	MON	10:00-10:50	FKP-F-PBL-01	L	45	Y	2213 - KS	08/01/2019 - AM	BFF1102 BFM1102
								11:00-11:50	FKP-F-PBL-01	L	45	Y			
							WED	10:00-10:50	FKP-F-PBL-01	L	45	Y			
								11:00-11:50	FKP-F-PBL-01	L	45	Y			
						02	THU	08:00-08:50	FKP-F-PBL-01	L	45	Y	01776 - MHABH		
								09:00-09:50	FKP-F-PBL-01	L	45	Y			
							TUE	08:00-08:50	FKP-F-PBL-01	L	45	Y			
								09:00-09:50	FKP-F-PBL-01	L	45	Y			
		1	**BFF1303**	**ELECTRICAL/ELECTRONICS ENGINEERING**	This course introduces DC resistive network analysis, AC network analysis, diodes, bipolar junction transistors (BJT), operational amplifier (op-amp) and digital logic circuits										
					SEM 1 18/19	01	THU	16:00-16:50	FKP-F-BK-06	L	10	Y	01498 - ZBI	06/01/2019 - AM	
								17:00-17:50	FKP-F-BK-06	L	10	Y			
							TUE	16:00-16:50	FKP-F-BK-06	L	10	Y			
								17:00-17:50	FKP-F-BK-06	L	10	Y			
		1	**BFF1343**	**FUNDAMENTAL OF ELECTRICAL ENGINEERING**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BFF1343**	**FUNDAMENTAL OF ELECTRICAL ENGINEERING**											
					SEM 1 18/19	01	THU	16:00-16:50	FKP-F-BK-06	L	40	Y	01498 - ZBI	06/01/2019 - AM	
								17:00-17:50	FKP-F-BK-06	L	40	Y			
							TUE	16:00-16:50	FKP-F-BK-06	L	40	Y			
								17:00-17:50	FKP-F-BK-06	L	40	Y			
		1	**BFF1502**	**PROJECT MANAGEMENT**	This course embraces a broad basic overview and principles of project management which has become central to operations in manufacturing enterprises throughout five stages of managing project; initialization, planning, execution, control and closing.										
					SEM 1 18/19	01	MON	08:00-08:50	FKP-F-BK-05	L	45	N	01742 - MYBA		
								09:00-09:50	FKP-F-BK-05	L	45	N			
						02	WED	08:00-08:50	FKP-F-BK-05	L	45	N	01742 - MYBA		
								09:00-09:50	FKP-F-BK-05	L	45	N			
		1	**BFF1602**	**TECHNICAL DRAWING**	This course introduces fundamental knowledge and skill of technical drawing for engineers. Both hand sketching and CAD approach will be used in this course. Student will be exposed with Fundamental of Engineering Graphic Language; Layout and Lettering; Technical Sketching; Geometric Constructions; Basic and Advanced Dimensioning; Orthographic Drawing; Section and Auxiliary Views; Geometric Dimensioning and Tolerancing (GD&T); and 2D Parametric Drawing Construction. This course also preparing the student to creates and interprets technical drawing according to ISO standards.										
					SEM 1 18/19	01	MON	08:00-08:50	FKP-B-MK-02	B	30	N	01832 - MNBMR		
								09:00-09:50	FKP-B-MK-02	B	30	N			
								10:00-10:50	FKP-B-MK-02	B	30	N			
						02	WED	08:00-08:50	FKP-B-MK-02	B	30	N	01832 - MNBMR		
								09:00-09:50	FKP-B-MK-02	B	30	N			
								10:00-10:50	FKP-B-MK-02	B	30	N			
						03	TUE	14:00-14:50	FKP-B-MK-02	B	30	N	01854 - ASBJ		
								15:00-15:50	FKP-B-MK-02	B	30	N			
								16:00-16:50	FKP-B-MK-02	B	30	N			
		1	**BFF1801**	**MACHINING 1**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BFF1801**	**MACHINING 1**	This course introduce the students to the fundamental knowledge and principle of metal removing process. In this course, student will applied the theoritical knowledge to perform the actual material removal operation using appropriate tools and technique according to required dimensions,tolerance, specification and safety regulations.										
					SEM 1 18/19	01	MON	14:00-14:50	FKP-A-M-04	B	30	N	01193 - YBS		
								15:00-15:50	FKP-A-M-04	B	30	N			
								16:00-16:50	FKP-A-M-04	B	30	N			
						02	TUE	14:00-14:50	FKP-A-M-04	B	30	N	01193 - YBS		
								15:00-15:50	FKP-A-M-04	B	30	N			
								16:00-16:50	FKP-A-M-04	B	30	N			
						03	FRI	08:00-08:50	FKP-A-M-04	B	30	N	01193 - YBS		
								09:00-09:50	FKP-A-M-04	B	30	N			
								10:00-10:50	FKP-A-M-04	B	30	N			
		1	**BFF1811**	**MACHINING 2**	This course introduces the student to the fundamental knowledge and technique of milling and surface grinding machining process. In this course, student will applied the theoritical knowledge to performed the actual material removal operations using appropriate tools and techniques according to the required dimension, tolerance, specification and safety regulations.										
					SEM 1 18/19	01	MON	14:00-14:50	FKP-A-M-05	B	30	N	01074 - SBB		
								15:00-15:50	FKP-A-M-05	B	30	N			
								16:00-16:50	FKP-A-M-05	B	30	N			
						02	FRI	08:00-08:50	FKP-A-M-05	B	30	N	01074 - SBB		
								09:00-09:50	FKP-A-M-05	B	30	N			
								10:00-10:50	FKP-A-M-05	B	30	N			
						03	WED	08:00-08:50	FKP-A-M-05	B	30	N	2297 - MNBMT		
								09:00-09:50	FKP-A-M-05	B	30	N			
								10:00-10:50	FKP-A-M-05	B	30	N			
		1	**BFF1921**	**ENGINEERS IN SOCIETY**	This course introduces the engineering profession in local industries sector, issues in local industries, ethics and public responsibility and sustainability practices in global economy										
					SEM 1 18/19	01	MON	16:00-16:50	FKP-F-DK-02	L	50	N	01307 - KBJ@R		
								17:00-17:50	FKP-F-DK-02	L	50	N			
		1	**BFF1922**	**ENGINEERING ECONOMY**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	1	**BFF1922**	**ENGINEERING ECONOMY**	This course introduces concept of life cycle cost, interest and equivalen. Formula and factors for single and multipe cast flow. Method for investmenst assessment and alternative comparison and project evaluation using cost worth ratio, inflation and cash flow method.										
					SEM 1 18/19	01	WED	08:00-08:50	FKP-F-DK-03	L	45	Y	01854 - ASBJ	04/01/2019 - PM	
								09:00-09:50	FKP-F-DK-03	L	45	Y			
						02	TUE	14:00-14:50	FKP-F-DK-03	L	45	Y	1807 - II		
								15:00-15:50	FKP-F-DK-03	L	45	Y			
		1	**BFF1932**	**ENGINEERS IN SOCIETY**											
					SEM 1 18/19	01	MON	16:00-16:50	FKP-F-DK-02	L	40	N	01307 - KBJ@R		
								17:00-17:50	FKP-F-DK-02	L	40	N			
		1	**BFM1313**	**FUNDAMENTAL OF ELECTRICAL ENGINEERING**	This course introduces DC circuit and AC circuit analyses. It covers the fundamental laws and theorems, circuit techniques, transient analysis, sinusoidal steady-state analysis and three-phase systems.										
					SEM 1 18/19	01	THU	16:00-16:50	FKP-F-BK-06	L	10	Y	01498 - ZBI	06/01/2019 - AM	
								17:00-17:50	FKP-F-BK-06	L	10	Y			
							TUE	16:00-16:50	FKP-F-BK-06	L	10	Y			
								17:00-17:50	FKP-F-BK-06	L	10	Y			
		2	**BFF1133**	**MECHANICS OF MATERIALS**	This course introduces the concept of stress, strain and mechanical properties of materials under axial, torsion, bending, transverse, shear and combined loadings in elastic structural members. Plane stress transformation is also included.										
					SEM 1 18/19	01	THU	08:00-08:50	FKP-G-BAP-02	L	45	Y	2111 - AAI	05/01/2019 - AM	BFF1102 BFF1113
								09:00-09:50	FKP-G-BAP-02	L	45	Y			
							TUE	08:00-08:50	FKP-G-BAP-02	L	45	Y			
								09:00-09:50	FKP-G-BAP-02	L	45	Y			
						02	MON	10:00-10:50	FKP-G-BAP-02	L	45	Y	2111 - AAI		
								11:00-11:50	FKP-G-BAP-02	L	45	Y			
							WED	10:00-10:50	FKP-G-BAP-02	L	45	Y			
								11:00-11:50	FKP-G-BAP-02	L	45	Y			
		2	**BFF2003**	**COMPUTER PROGRAMMING**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark: Pre-Requisite
PEKAN	DEGREE	2	**BFF2003**	**COMPUTER PROGRAMMING**	This course introduces the basics of C programming language. The contents of this course includes coding input and output, variables, constants, arithmetic operations, mathematical functions, user-defined functions, loops, selection making decision and repetitive construct, array, and also data structure. The programming language used for the course is C/C++ language.											
						SEM 1 18/19	01	THU	10:00-10:50	FKP-B-MK-02	B	30	N	0503 - NBMY		
									11:00-11:50	FKP-B-MK-02	B	30	N			
								TUE	10:00-10:50	FKP-B-MK-02	B	30	N			
									11:00-11:50	FKP-B-MK-02	B	30	N			
							02	MON	16:00-16:50	FKP-B-MK-02	B	30	N	0503 - NBMY		
									17:00-17:50	FKP-B-MK-02	B	30	N			
								THU	16:00-16:50	FKP-B-MK-02	B	30	N			
									17:00-17:50	FKP-B-MK-02	B	30	N			
							03	MON	14:00-14:50	FKP-B-MK-02	B	30	N	S0336 - KABMP		
									15:00-15:50	FKP-B-MK-02	B	30	N			
								THU	14:00-14:50	FKP-B-MK-02	B	30	N			
									15:00-15:50	FKP-B-MK-02	B	30	N			
		2	**BFF2223**	**FLUID MECHANICS**	This course is a fundamental subjects for engineering students which presents unlimited practical applications from daily life to related industrial fields. Students taking this course are expected to have adequate background of calculus, physics and engineering mechanics. Lesson will be covering the fundamental concepts of fluids, fluid propertis, problem analysis for fluids at static and in motion, fluid flow in pipeline and dimensional homogeneity concept. Students will be also exposed to the application of complex engineering problem such as the utilization of Computational Fluid Dynamics (CFD) to enhance their probelm solving skills and competency.											
						SEM 1 18/19	01	THU	10:00-10:50	FKP-F-PBL-02	L	45	Y	0639 - MABMA	08/01/2019 - AM	BFF1102
									11:00-11:50	FKP-F-PBL-02	L	45	Y			
								TUE	10:00-10:50	FKP-F-PBL-02	L	45	Y			
									11:00-11:50	FKP-F-PBL-02	L	45	Y			
							02	THU	16:00-16:50	FKP-F-PBL-02	L	45	Y	0639 - MABMA		
									17:00-17:50	FKP-F-PBL-02	L	45	Y			
								TUE	16:00-16:50	FKP-F-PBL-02	L	45	Y			
									17:00-17:50	FKP-F-PBL-02	L	45	Y			
		2	**BFF2233**	**THERMODYNAMICS**												

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	**BFF2233**	**THERMODYNAMICS**	This course focuses on the application of the thermodynamics knowledge in various engineering systems. The subject covers the review and analysis of energy, concepts of thermodynamics laws and entropy, heat engines, refrigerators and heat pumps cycles.										
					SEM 1 18/19	01	FRI	08:00-08:50	FKP-F-PBL-01	L	45	Y	01838 - ARBAM	08/01/2019 - PM	
								09:00-09:50	FKP-F-PBL-01	L	45	Y			
							WED	08:00-08:50	FKP-F-PBL-01	L	45	Y			
								09:00-09:50	FKP-F-PBL-01	L	45	Y			
						02	THU	16:00-16:50	FKP-G-BAP-02	L	45	Y	01838 - ARBAM		
								17:00-17:50	FKP-G-BAP-02	L	45	Y			
							TUE	16:00-16:50	FKP-G-BAP-02	L	45	Y			
								17:00-17:50	FKP-G-BAP-02	L	45	Y			
		2	**BFF2423**	**MANUFACTURING PROCESSES**	This course inroduces various challenges and issues in modern manufacturing process and operations, ranging from traditional topics such as casting, forming, machining and joining process.										
					SEM 1 18/19	01	MON	08:00-08:50	FKP-F-BK-01	L	35	Y	01860 - NHBR	05/01/2019 - PM	BFF1113
								09:00-09:50	FKP-F-BK-01	L	35	Y			
							WED	08:00-08:50	FKP-F-BK-01	L	35	Y			
								09:00-09:50	FKP-F-BK-01	L	35	Y			
						02	MON	14:00-14:50	FKP-F-BK-01	L	35	Y	01860 - NHBR		
								15:00-15:50	FKP-F-BK-01	L	35	Y			
							THU	14:00-14:50	FKP-F-BK-01	L	35	Y			
								15:00-15:50	FKP-F-BK-01	L	35	Y			
		2	**BFF2433**	**ADVANCED MANUFACTURING PROCESSES**	This course covers the processing of ceramics, glasses, superconductors, plastics, and composite materials. This course also covers, rapid-prototyping processes and operations, advanced machining processes and equipment, fabrication of microelectronic devices, and fabrication of microelectromechanical devices and systems and nanoscale manufacturing.										
					SEM 1 18/19	01	THU	14:00-14:50	FKP-F-BK-02	L	35	Y	2114 - NF	09/01/2019 - PM	BFF1113
								15:00-15:50	FKP-F-BK-02	L	35	Y			
							TUE	14:00-14:50	FKP-F-BK-02	L	35	Y			
								15:00-15:50	FKP-F-BK-02	L	35	Y			
		2	**BFF2513**	**MANUFACTURING SYSTEM**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	**BFF2513**	**MANUFACTURING SYSTEM**	This course provides in-depth understanding of manufacturing system components, Manufacturing Operations, Models and Metrics useful to evaluate them, Material Transport and storage systems, analysis of Single cell, Cellular Manufacturing and Flexible Manufacturing systems. Deals with the analysis of manual and automated assembly systems.										
					SEM 1 18/19	01	THU	14:00-14:50	FKP-F-BK-04	L	35	Y	2425 - PSGR	09/01/2019 - AM	
								15:00-15:50	FKP-F-BK-04	L	35	Y			
							TUE	14:00-14:50	FKP-F-BK-04	L	35	Y			
								15:00-15:50	FKP-F-BK-04	L	35	Y			
		2	**BFF2523**	**QUALITY ENGINEERING**	This course is the application of statistical, mathematical and management methods for improving the quality and reliability of industrial products, processes and systems. Thus, the concept of basic quality tools, fundamental of statistics, controal chart for variables and attributes, fundamental of probability and acceptance sampling systems are the key success of this course.										
					SEM 1 18/19	01	THU	14:00-14:50	FKP-F-BK-03	L	35	Y	01742 - MYBA	07/01/2019 - PM	BUM2413
								15:00-15:50	FKP-F-BK-03	L	35	Y			
							TUE	14:00-14:50	FKP-F-BK-03	L	35	Y			
								15:00-15:50	FKP-F-BK-03	L	35	Y			
		2	**BFF2612**	**COMPUTER AIDED ENGINEERING DESIGN**	This course introduces 3D surface solid modelling which emphasized on the drawing, functioning and organizing the model. Further course content included part assembly, animation and basic FEA application. Students experience the practical learning through the CAD software.										
					SEM 1 18/19	01	MON	08:00-08:50	FKP-B-MK-01	B	30	N	2052 - MAG		BFF1602
								09:00-09:50	FKP-B-MK-01	B	30	N			
								10:00-10:50	FKP-B-MK-01	B	30	N			
						02	WED	08:00-08:50	FKP-B-MK-01	B	30	N	2052 - MAG		
								09:00-09:50	FKP-B-MK-01	B	30	N			
								10:00-10:50	FKP-B-MK-01	B	30	N			
						03	FRI	08:00-08:50	FKP-B-MK-01	B	30	N	2213 - KS		
								09:00-09:50	FKP-B-MK-01	B	30	N			
								10:00-10:50	FKP-B-MK-01	B	30	N			
		2	**BFF2801**	**ELECTRICAL/ELECTRONICS LAB**	This course introduces practical electrical circuits. Students should analyze, synthesize and build circuits using passive/active components										
					SEM 1 18/19	01	MON	14:00-14:50	FKP-B-M-06	B	30	N	01005 - MFBMS		
								15:00-15:50	FKP-B-M-06	B	30	N			
								16:00-16:50	FKP-B-M-06	B	30	N			

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	**BFF2821**	**MECHANICS LAB**	This lab introduces principles of engineering and solid mechanics through practical experiments. The covered areas are for principles of statics, dynamic and mechanics of materials.										
					SEM 1 18/19	01	THU	14:00-14:50	FKP-B-M-10	B	30	N	01189 - ASBS		
								15:00-15:50	FKP-B-M-10	B	30	N			
								16:00-16:50	FKP-B-M-10	B	30	N			
						02	FRI	08:00-08:50	FKP-B-M-10	B	30	N	01189 - ASBS		
								09:00-09:50	FKP-B-M-10	B	30	N			
								10:00-10:50	FKP-B-M-10	B	30	N			
		2	**BFM2013**	**PROGRAMMING FOR ENGINEERS**	This course introduces the parallel/serial interfacing techniques between PC and external circuit built with the components such as LEDs, motors (DC/stepper), thermometer etc. using C/C++ programming language. In addition, the intermediate level of programming techniques such as pointers, dynamic memory allocation, data structures, and graphical user interface are also introduced to fit the purpose. By the end of semester, the students apply the interfacing techniques in a mechatronics-based project.										
					SEM 1 18/19	01	MON	16:00-16:50	FKP-B-MK-01	B	30	N	01802 - AFBAN		BFF2003
								17:00-17:50	FKP-B-MK-01	B	30	N			
							THU	16:00-16:50	FKP-B-MK-01	B	30	N			
								17:00-17:50	FKP-B-MK-01	B	30	N			
		2	**BFM2303**	**ANALOG ELECTRONICS**	In this course students will learn about discrete electronic circuits; that is, circuits containing discrete resistors, capacitors, diodes and transistors. The analysis of these fundamental circuits provides a key understanding of circuit operation and characteristics. Throughout this course, students will also develop, analyze, and design more complex analog electronic circuits by combining and expanding the basic circuits considered, to form more complex circuits. Lastly, students will learn how to analyze and design discrete circuits, these circuits are usually fabricated as integrated circuits called operational amplifiers.										
					SEM 1 18/19	01	THU	14:00-14:50	FKP-F-BK-05	L	60	Y	01873 - ABA	07/01/2019 - AM	
								15:00-15:50	FKP-F-BK-05	L	60	Y			
							TUE	14:00-14:50	FKP-F-BK-05	L	60	Y			
								15:00-15:50	FKP-F-BK-05	L	60	Y			
		2	**BFM2313**	**DIGITAL ELECTRONICS**	This course is designed to introduce the basic principle of digital systems and digital circuit design with analysis. Lecture and tutorial will cover the following: Algebra Boolean, Numbering System, Basic Logic Gate, Combinational Logic Circuit Design, Bi-stable Memory Devices and Sequential Circuits Design.										
					SEM 1 18/19	01	THU	14:00-14:50	FKP-G-BAP-02	L	45	Y	S0218 - KZBMA	07/01/2019 - PM	
								15:00-15:50	FKP-G-BAP-02	L	45	Y			
							TUE	14:00-14:50	FKP-G-BAP-02	L	45	Y			
								15:00-15:50	FKP-G-BAP-02	L	45	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	2	**BFM2831**	**FUNDAMENTAL OF ELECTRICAL ENGINEERING LAB**	This course introduces practical electrical circuits. Students should analyze, synthesize and build circuits using passive/active components.										
					SEM 1 18/19	01	FRI	08:00-08:50	FKP-B-M-06	B	35	N	01383 - SBP		BFM1313 BFF1303
								09:00-09:50	FKP-B-M-06	B	35	N			
								10:00-10:50	FKP-B-M-06	B	35	N			
		3	**BFF3103**	**VIBRATIONS**	This course introduces the fundamental of vibration, free vibration (Single Degree of Freedom - SDOF System), harmonically excited vibration (SDOF System), general excited vibration (SDOF System), two degree of freedom (TDOF System), and vibration control.										
					SEM 1 18/19	01	MON	10:00-10:50	FKP-F-BK-05	L	60	Y	0215 - ARBY	06/01/2019 - PM	BFF1123 MEC1392
								11:00-11:50	FKP-F-BK-05	L	60	Y			
							WED	10:00-10:50	FKP-F-BK-05	L	60	Y			
								11:00-11:50	FKP-F-BK-05	L	60	Y			
						02	THU	08:00-08:50	FKP-F-BK-06	L	60	Y	01773 - ZBK		
								09:00-09:50	FKP-F-BK-06	L	60	Y			
							TUE	08:00-08:50	FKP-F-BK-06	L	60	Y			
								09:00-09:50	FKP-F-BK-06	L	60	Y			
		3	**BFF3123**	**MACHINE DESIGN**	This course focuses on the fundamentals of component design - free body diagrams, force flow concepts, failure theories, and fatigue design, with application to fasteners, springs, bearings, gears, shafts, clutches, and brakes. It explains the basics of mechanics, strength of materials, and materials properties on how to apply these fundamentals to specific machine components design.										
					SEM 1 18/19	01	MON	16:00-16:50	FKP-F-BK-06	L	60	Y	2080 - DMN	05/01/2019 - PM	BFM1102 BFF1102
								17:00-17:50	FKP-F-BK-06	L	60	Y			
							WED	08:00-08:50	FKP-F-BK-06	L	60	Y			
								09:00-09:50	FKP-F-BK-06	L	60	Y			
						02	THU	10:00-10:50	FKP-F-BK-06	L	60	Y	2080 - DMN		
								11:00-11:50	FKP-F-BK-06	L	60	Y			
							TUE	10:00-10:50	FKP-F-BK-06	L	60	Y			
								11:00-11:50	FKP-F-BK-06	L	60	Y			
		3	**BFF3242**	**HEAT TRANSFER**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BFF3242**	**HEAT TRANSFER**	The course introduces the laws of heat transfers and thermodynamics principles to develop the enginering approach for solving heat transfer problem. Practical engineering problems are approximated and modeled as a heat transfer system for objective evaluation on analytical solutions and component performances. Fundamentals topics of conduction, convection and radiation heat transfers will be followed by the applications of the governing equations for solving practical problems in manufacturing and mechatronics engineerings.										
					SEM 1 18/19	01	THU	10:00-10:50	FKP-F-BK-05	L	60	Y	01680 - NBR	06/01/2019 - AM	BFF2233
								11:00-11:50	FKP-F-BK-05	L	60	Y			
							TUE	10:00-10:50	FKP-F-BK-05	L	60	Y			
								11:00-11:50	FKP-F-BK-05	L	60	Y			
						02	MON	10:00-10:50	FKP-F-BK-06	L	60	Y	01680 - NBR		
								11:00-11:50	FKP-F-BK-06	L	60	Y			
							WED	10:00-10:50	FKP-F-BK-06	L	60	Y			
								11:00-11:50	FKP-F-BK-06	L	60	Y			
		3	**BFF3302**	**SENSOR AND INSTRUMENTATION SYSTEMS**	This course covers instrumentations system including instrument principles, measurement techniques and data analysis for a particular sensor and measurement situation.										
					SEM 1 18/19	01	MON	14:00-14:50	FKP-F-BK-05	L	30	N	01816 - ASBAG		BFF2801 BFM2831
								15:00-15:50	FKP-F-BK-05	L	30	N			
							TUE	08:00-08:50	FKP-B-M-04	B	30	N			
								09:00-09:50	FKP-B-M-04	B	30	N			
						02	MON	14:00-14:50	FKP-F-BK-05	L	30	N	01816 - ASBAG		
								15:00-15:50	FKP-F-BK-05	L	30	N			
							THU	08:00-08:50	FKP-B-M-04	B	30	N			
								09:00-09:50	FKP-B-M-04	B	30	N			
		3	**BFF3403**	**ADVANCED MACHINING**	This course will introduce the knowledge and technologies in precision machining, technique of making tool and die and engineering measurement using industrial standard equipments										
					SEM 1 18/19	01	MON	08:00-08:50	FKP-B-M-07	B	20	N	01158 - MAHBS		BFF1801 BFF1811
								09:00-09:50	FKP-B-M-07	B	20	N			
							WED	08:00-08:50	FKP-B-M-07	B	20	N			
								09:00-09:50	FKP-B-M-07	B	20	N			
		3	**BFF3503**	**PRODUCTION ENGINEERING**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BFF3503**	**PRODUCTION ENGINEERING**	This course covers various aspect of fundamental and application knowlege for Production Engineering to manage a new product development activities, process measurement and planning in order to assemble discrete product as practised in industry.										
					SEM 1 18/19	01	THU	16:00-16:50	FKP-F-BK-05	L	30	N	0298 - MZBS		
								17:00-17:50	FKP-F-BK-05	L	30	N			
							TUE	16:00-16:50	FKP-F-BK-05	L	30	N			
								17:00-17:50	FKP-F-BK-05	L	30	N			
						02	MON	10:00-10:50	FKP-F-BK-02	L	30	N	0298 - MZBS		
								11:00-11:50	FKP-F-BK-02	L	30	N			
							WED	10:00-10:50	FKP-F-BK-02	L	30	N			
								11:00-11:50	FKP-F-BK-02	L	30	N			
		3	**BFF3523**	**PRODUCTION PLANNING AND CONTROL**	This course introduces the concept and techniques used for planning and controlling all aspects of manufacturing. The course covers the topics of ERP, demand management, forecasting techniques, sales and operation planning, MPS, MRP, Capacity requirement planning, production activity control and scheduling techniques										
					SEM 1 18/19	01	MON	10:00-10:50	FKP-F-BK-03	L	35	Y	1807 - II	07/01/2019 - AM	
								11:00-11:50	FKP-F-BK-03	L	35	Y			
							WED	10:00-10:50	FKP-F-BK-03	L	35	Y			
								11:00-11:50	FKP-F-BK-03	L	35	Y			
		3	**BFF3563**	**PROCESS AUDITING TECHNIQUES**	This course introduces the concept of basic internal auditing program i.e. step by step to be an effective auditor; establish audit program; implement audit execution; analyse audit findings and prepare audit report for Quality Management Systems (QMS); Environmental Management System (EMS) and relevant management systems.										
					SEM 1 18/19	01	THU	10:00-10:50	FKP-F-BK-01	L	20	N	S0391 - ABMA		
								11:00-11:50	FKP-F-BK-01	L	20	N			
							TUE	10:00-10:50	FKP-F-BK-01	L	20	N			
								11:00-11:50	FKP-F-BK-01	L	20	N			
		3	**BFF3622**	**COMPUTER AIDED MANUFACTURING**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis										Remark
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
PEKAN	DEGREE	3	**BFF3622**	**COMPUTER AIDED MANUFACTURING**	This course introduces to develop students a degree of competencies in the CAM principle, application, and integration that applied in the modern manufacturing system. Emphasizes will be given on the manual programming fundamentals and the application of various prismatic (2-axis) and surface (3-axis) machining strategies, through the selected computer assisted simulation software interface (CATIA).										
					SEM 1 18/19	01	THU	08:00-08:50	FKP-B-MK-02	B	30	N	2055 - MO		BFF1602 BFF2612 BFF1612
								09:00-09:50	FKP-B-MK-02	B	30	N			
							TUE	08:00-08:50	FKP-B-MK-01	B	30	N			
								09:00-09:50	FKP-B-MK-01	B	30	N			
						02	MON	14:00-14:50	FKP-B-MK-01	B	30	N	01322 - ARBAM		
								15:00-15:50	FKP-B-MK-01	B	30	N			
							THU	14:00-14:50	FKP-B-MK-01	B	30	N			
								15:00-15:50	FKP-B-MK-01	B	30	N			
						03	THU	16:00-16:50	FKP-A-MK-01	B	30	N	2055 - MO		
								17:00-17:50	FKP-A-MK-01	B	30	N			
							TUE	16:00-16:50	FKP-A-MK-01	B	30	N			
								17:00-17:50	FKP-A-MK-01	B	30	N			
		3	**BFF3632**	**DESIGN OF JIGS & FIXTURES**	This course covers the important of jigs and fixture in industrial application. Several type of jigs and fixture are introduces where emphasis given to the function of locating, supporting, clamping and positioning as requirement for all applications before design of efficient and ergonomic jigs and fixture is develop to improve productivity.										
					SEM 1 18/19	01	MON	16:00-16:50	FKP-F-BK-01	L	35	N	0568 - MNBOZ		BFF1801 BFF1811 BFF2612
								17:00-17:50	FKP-F-BK-01	L	35	N			
							THU	08:00-08:50	FKP-F-BK-01	L	35	N			
								09:00-09:50	FKP-F-BK-01	L	35	N			
		3	**BFF3801**	**THERMAL-FLUID ENGINEERING LAB**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BFF3801**	**THERMAL-FLUID ENGINEERING LAB**	This course introduces the thermodynamics concepts and experimental approaches to verify approximate solutions of thermofluids problems at conceptual design stage. The course covers three major chapters in thermofluid engineering as follows: 1. Experimental measurements and analysis 2. Experimental techniques for engineering thermodynamics 3. Experimental technique for engineering fluid mechanics										
					SEM 1 18/19	01	TUE	14:00-14:50	FKP-B-M-08	B	30	N	TBA0001 - ES(		BFF2223 BFF2233
								15:00-15:50	FKP-B-M-08	B	30	N			
								16:00-16:50	FKP-B-M-08	B	30	N			
						02	FRI	08:00-08:50	FKP-B-M-08	B	30	N	TBA0001 - ES(		
								09:00-09:50	FKP-B-M-08	B	30	N			
								10:00-10:50	FKP-B-M-08	B	30	N			
		3	**BFM3002**	**COMPUTER SIMULATION**	This course introduces simulation software MATLAB (simple operations, matrices and vectors, functions, plot, programming and symbolic calculation) and Simulink (functional principle of Simulink, designing a block diagram, solving differential equation, starting simulink systems from matlab and importing plots to word and power points)										
					SEM 1 18/19	01	MON	10:00-10:50	FKP-A-MK-01	B	30	N	01776 - MHABH		
								11:00-11:50	FKP-A-MK-01	B	30	N			
							WED	10:00-10:50	FKP-A-MK-01	B	30	N			
								11:00-11:50	FKP-A-MK-01	B	30	N			
						02	THU	12:00-12:50	FKP-A-M-01	B	30	N	2196 - MAH		
								13:00-13:50	FKP-A-M-01	B	30	N			
							TUE	12:00-12:50	FKP-A-M-01	B	30	N			
								13:00-13:50	FKP-A-M-01	B	30	N			
		3	**BFM3003**	**ARTIFICIAL INTELLIGENCE SYSTEM**	This course introduces expert system, fuzzy logic, artificial newral network, genetic algorithm and hybrid artificial intelligence.										
					SEM 1 18/19	01	FRI	08:00-08:50	FKP-A-MK-01	L	20	N	2196 - MAH		
								09:00-09:50	FKP-A-MK-01	L	20	N			
							MON	14:00-14:50	FKP-A-MK-01	L	20	N			
								15:00-15:50	FKP-A-MK-01	L	20	N			
		3	**BFM3303**	**ELECTRICAL DRIVE SYSTEM**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	3	**BFM3303**	**ELECTRICAL DRIVE SYSTEM**	This course begins by introducing the basic electrical drive system components. The modelling and equivalent system of the dc motor and induction motor will be derived. This will lead to the design of the drive system using flux controlled, voltage controlled, controlled rectifier, chopper controlled, scalar control.										
					SEM 1 18/19	01	FRI	08:00-08:50	FKP-B-M-04	B	30	Y	01741 - MABZ	04/01/2019 - AM	BFM2831 BFF2801
								09:00-09:50	FKP-B-M-04	B	30	Y			
							WED	08:00-08:50	FKP-B-M-04	B	30	Y			
								09:00-09:50	FKP-B-M-04	B	30	Y			
						02	FRI	10:00-10:50	FKP-B-M-04	B	30	Y	S0062 - NABZ		
								11:00-11:50	FKP-B-M-04	B	30	Y			
							WED	10:00-10:50	FKP-B-M-04	B	30	Y			
								11:00-11:50	FKP-B-M-04	B	30	Y			
		3	**BFM3313**	**ELECTRICAL POWER AND MACHINES**	This course introduces the fundamental concepts of electric machinery and power systems. Emphasis is given on the understanding of the principles and the analysis of three-phase circuits, transformers, synchronous machines (generator and motor), induction motor as well as DC machines. This course aims to develop the ability in visualising physical configurations, constructing meaningful mathematical models in solving engineering problems whilst inculcating analytical rigour, and engineering judgement.										
					SEM 1 18/19	01	THU	10:00-10:50	FKP-F-BK-03	L	20	Y	01599 - FBMT	08/01/2019 - PM	
								11:00-11:50	FKP-F-BK-03	L	20	Y			
							TUE	10:00-10:50	FKP-F-BK-03	L	20	Y			
								11:00-11:50	FKP-F-BK-03	L	20	Y			
		3	**BFM3403**	**FLUID DRIVE SYSTEM**	This course introduces fundamental knowledge and skill of hydraulic and pneumatic system for engineers. Both design and development approach will be used in this course. Student will be exposed with fundamental in fluid power, pneumatic system, hydraulic system and programmable logic controller. Laboratory management and 5S implementation is essential for the lab sesion.										
					SEM 1 18/19	01	MON	08:00-08:50	FKP-B-M-05	B	30	N	01085 - MRBR 01869 - ZBI		
								09:00-09:50	FKP-B-M-05	B	30	N			
							WED	08:00-08:50	FKP-B-M-05	B	30	N			
								09:00-09:50	FKP-B-M-05	B	30	N			
						02	THU	08:00-08:50	FKP-B-M-05	B	30	N	01085 - MRBR 2005 - ABPAM		
								09:00-09:50	FKP-B-M-05	B	30	N			
							TUE	08:00-08:50	FKP-B-M-05	B	30	N			
								09:00-09:50	FKP-B-M-05	B	30	N			

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**BFF4103**	**CONTROL SYSTEM ENGINEERING**	This subject will cover the analysis of the system's stability and performance of the control system by using the time domain and frequency domain approaches. Conventional controller such as PID controller will be used to improve the transient and steady state performances in the time domain approach. In the frequency domain approach, the bode plot method will be utilised. The lead, lag and led-lag compensators are introduced in improving the performance of the control system using the frequency approach.										
					SEM 1 18/19	01	THU	14:00-14:50	FKP-F-BK-06	L	45	Y	01857 - ANBI	05/01/2019 - AM	BFM2831 BFM3002 BFF2801
								15:00-15:50	FKP-F-BK-06	L	45	Y			
							TUE	14:00-14:50	FKP-F-BK-06	L	45	Y			
								15:00-15:50	FKP-F-BK-06	L	45	Y			
						02	THU	08:00-08:50	FKP-F-BK-05	L	45	Y	01857 - ANBI		
								09:00-09:50	FKP-F-BK-05	L	45	Y			
							TUE	08:00-08:50	FKP-F-BK-05	L	45	Y			
								09:00-09:50	FKP-F-BK-05	L	45	Y			
		4	**BFF4503**	**FACTORY MANAGEMENT**	This course is designed to provide students with an understanding of Factory Management (FM) concepts, issues, strategies, management approaches and tools commonly used in factory. The main topics which are covered are Operations and Supply Chain Management, Quality Management, Product Design, Processes and Technology; Capacity and Facilities Design, Human Resources, Supply Chain Management Strategy and Design; Global Supply Chain Procurement and Distribution; Resource Planning and Lean Systems.										
					SEM 1 18/19	01	MON	10:00-10:50	FKP-F-BK-04	L	20	Y	01861 - SZBI		
								11:00-11:50	FKP-F-BK-04	L	20	Y			
							WED	10:00-10:50	FKP-F-BK-04	L	20	Y			
								11:00-11:50	FKP-F-BK-04	L	20	Y			
		4	**BFF4513**	**LEAN PRODUCTION SYSTEM**	This course introduces the role of lean production system in a manufacturing environment. The concept of value adding and waste elimination through implementing lean production system. Using the basic principle of Pull system to promote waste elimination, various Lean tools would be introduced which include Kanban, supermarket concept, Heijunka, Cellular manufacturing, Jidoka and value stream mapping.										
					SEM 1 18/19	01	THU	10:00-10:50	FKP-F-BK-02	L	20	N	0482 - NBMR		
								11:00-11:50	FKP-F-BK-02	L	20	N			
							TUE	10:00-10:50	FKP-F-BK-02	L	20	N			
								11:00-11:50	FKP-F-BK-02	L	20	N			
		4	**BFF4563**	**PRODUCTION LINE MANAGEMENT**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**BFF4563**	**PRODUCTION LINE MANAGEMENT**	This course introduces the basic approach to effectively managing production line from receiving the manufacturing order to producing the required quantity, meeting the quality requirements, delivering on-time and realizing the product with optimal cost.										
					SEM 1 18/19	01	MON	16:00-16:50	FKP-F-BK-02	L	20	N	S0279 - MPBHM		
								17:00-17:50	FKP-F-BK-02	L	20	N			
							TUE	16:00-16:50	FKP-F-BK-02	L	20	N			
								17:00-17:50	FKP-F-BK-02	L	20	N			
		4	**BFF4573**	**SIX SIGMA**	In this program, students will be able to use all tools, technics and concepts learned in the introduction program to solve problem in Six Sigma methodology. Students will be doing hands-on Six Sigma project and deployment from Define phase until Control phase.										
					SEM 1 18/19	01	THU	08:00-08:50	FKP-F-BK-03	L	20	N	S0278 - MSBO		
								09:00-09:50	FKP-F-BK-03	L	20	N			
							TUE	08:00-08:50	FKP-F-BK-03	L	20	N			
								09:00-09:50	FKP-F-BK-03	L	20	N			
		4	**BFF4603**	**MOLD 1**	This course intent to providing a substantial knowledge on Plastic Injection Mould. The course consist of three main parts; basic mould components, types of mould and general mould design practices.										
					SEM 1 18/19	01	THU	10:00-10:50	FKP-A-MK-01	L	20	N	01322 - ARBAM		
								11:00-11:50	FKP-A-MK-01	L	20	N			
							TUE	10:00-10:50	FKP-A-MK-01	L	20	N			
								11:00-11:50	FKP-A-MK-01	L	20	N			
		4	**BFF4613**	**DIE 1**	This course introduce students to the basic terminologies and concept of tool & die and ensure the students able to distinguish the stamping process of the sheet metal part and categorizes type of die for different sheet metal product. Finally they are able to develop basic die construction with proper design procedure										
					SEM 1 18/19	01	THU	10:00-10:50	FKP-B-MK-01	L	20	N	0671 - ZBH		
								11:00-11:50	FKP-B-MK-01	L	20	N			
							TUE	10:00-10:50	FKP-B-MK-01	L	20	N			
								11:00-11:50	FKP-B-MK-01	L	20	N			
		4	**BFF4643**	**MANUFACTURING PROCESS PLANNING**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**BFF4643**	**MANUFACTURING PROCESS PLANNING**	This course requires the students to design and develop a computer-controlled manufacturing machine as a product. It integrates the knowledge of software programming; manufacturing processes planning and design; mechanical and electronic design. Students are required to design and developed a machine in a group as well as performing individual engineering roles in a multi-disciplinary setting. The design and development are for providing a solution for complex engineering problems with consideration of health and safety, economy, productivity, quality, environmental and sustainability										
					SEM 1 18/19	01	FRI	08:00-08:50	FKP-F-DK-01	L	40	N	01560 - IBI		
								09:00-09:50	FKP-F-DK-01	L	40	N			
							TUE	08:00-08:50	FKP-F-DK-01	L	40	N			
								09:00-09:50	FKP-F-DK-01	L	40	N			
						02	FRI	08:00-08:50	FKP-F-DK-01	L	40	N	0639 - MABMA		
								09:00-09:50	FKP-F-DK-01	L	40	N			
							TUE	08:00-08:50	FKP-F-DK-01	L	40	N			
								09:00-09:50	FKP-F-DK-01	L	40	N			
		4	**BFF4911**	**ENVIRONMENT SAFETY & HEALTH**	This course covers the topics on industrial safety and health regulations, accident causation phenomenon, accident investigation, accident analysis, industrial hazard, industrial hygiene and managing environment safety and health										
					SEM 1 18/19	01	TUE	16:00-16:50	FKP-F-DK-02	L	90	N	01307 - KBJ@R		
								17:00-17:50	FKP-F-DK-02	L	90	N			
		4	**BFM4323**	**DIGITAL SYSTEM IN MECHATRONICS DESIGN**											
					SEM 1 18/19	01	MON	10:00-10:50	FKP-B-M-06	B	20	N	01568 - ZBMY		
								11:00-11:50	FKP-B-M-06	B	20	N			
							WED	10:00-10:50	FKP-B-M-06	B	20	N			
								11:00-11:50	FKP-B-M-06	B	20	N			
		4	**BFM4503**	**ROBOTICS FOR ENGINEERS**	This course provides an overview of robot mechanisms, kinematics, motion kinematic, dynamics, and planning control. Topics include robotic system overview, rotational matrices, translational matrices, homogeneous and composite matrices, D-H algorithm representation, Lagrange-Euler formulation, and robot planning. At the end of the course, students shall design the robot, together with the complete mathematical modelling to implement the theories that have been learnt.										
					SEM 1 18/19	01	THU	10:00-10:50	FKP-B-M-05	B	35	N	01741 - MABZ		
								11:00-11:50	FKP-B-M-05	B	35	N			
							TUE	10:00-10:50	FKP-B-M-05	B	35	N			
								11:00-11:50	FKP-B-M-05	B	35	N			
		4	**BFM4523**	**AUTONOMOUS ROBOTIC SYSTEM**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**BFM4523**	**AUTONOMOUS ROBOTIC SYSTEM**											
					SEM 1 18/19	01	THU	12:00-12:50	FKP-B-M-04	B	20	N	01741 - MABZ		
								13:00-13:50	FKP-B-M-04	B	20	N			
							TUE	12:00-12:50	FKP-B-M-04	B	20	N			
								13:00-13:50	FKP-B-M-04	B	20	N			
		4	**BFM4633**	**DATA ANALYTICS**											
					SEM 1 18/19	01	THU	14:00-14:50	FKP-A-MK-01	B	20	N	01802 - AFBAN		
								15:00-15:50	FKP-A-MK-01	B	20	N			
							TUE	14:00-14:50	FKP-A-MK-01	B	20	N			
								15:00-15:50	FKP-A-MK-01	B	20	N			
		4	**BFM4733**	**MECHATRONICS SYSTEM DESIGN**	This course requires the students to design and develop a computer-controlled manufacturing machine as a product. It integrates the knowledge of software programming; manufacturing processes planning and design; mechanical and electronic design. Students are required to design and developed a machine in a group as well as performing individual engineering roles in a multidisciplinary setting. The design and development are for providing a solution for complex engineering problems with consideration of health and safety, economy, productivity, quality, environmental and sustainability.										
					SEM 1 18/19	01	FRI	08:00-08:50	FKP-F-DK-01	L	40	N	0224 - WABWY		BFM2013
								09:00-09:50	FKP-F-DK-01	L	40	N			
							TUE	08:00-08:50	FKP-F-DK-01	L	40	N			
								09:00-09:50	FKP-F-DK-01	L	40	N			
						02	FRI	08:00-08:50	FKP-F-DK-01	L	40	N	0224 - WABWY		
								09:00-09:50	FKP-F-DK-01	L	40	N			
							TUE	08:00-08:50	FKP-F-DK-01	L	40	N			
								09:00-09:50	FKP-F-DK-01	L	40	N			
			BFM3333	**MICROCONTROLLER SYSTEM**											

COURSE TIMETABLE

Faculty : **FACULTY OF MANUFACTURING ENGINEERING**

Campus	Level	Year	Code	Course Name	Course Synopsis									Remark	
					Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
PEKAN	DEGREE		BFM3333	MICROCONTROLLER SYSTEM	This course is an introduction to microcontroller system and embedded devices. Students are exposed to microcontroller architecture, peripherals, and subsystems. These include processing unit, registers, memory, internal data flow, I/O, timer, PWM, Analog Digital Converter, interrupt, serial communication, Master-Slave configuration.										
					SEM 1 18/19	01	THU	14:00-14:50	FKP-B-M-04	B	30	N	SA0006 - JABMJ		
								15:00-15:50	FKP-B-M-04	B	30	N			
							TUE	14:00-14:50	FKP-B-M-04	B	30	N			
								15:00-15:50	FKP-B-M-04	B	30	N			
						02	MON	12:00-12:50	FKP-B-M-04	B	30	N	SA0006 - JABMJ		
								13:00-13:50	FKP-B-M-04	B	30	N			
							WED	12:00-12:50	FKP-B-M-04	B	30	N			
								13:00-13:50	FKP-B-M-04	B	30	N			

FACULTY OF INDUSTRIAL MANAGEMENT

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	1	**BPF1223**	**INTRODUCTION TO COST ACCOUNTING**	To introduce students to the concepts and terminology of accounting and financial reporting for modern business enterprises. They will also learn to use accounting information to make conclusions about business activities and to communicate these conclusions to others, basic accounting concepts, how accounting information reflects basic activities of businesses and organizations and how accounting information is used to make decisions about these entities.										
					SEM 1 18/19	01	FRI	15:00-15:50	BKO02	L	30	Y	2234 - SKT	08/01/2019 - AM	
							THU	14:00-14:50	BKO02	L	30	Y			
								15:00-15:50	BKO02	L	30	Y			
		1	**BPT1113**	**OPERATION & PRODUCTION IN INDUSTRIAL MANAGEMENT**	The course provides a range of academic knowledge, operations understanding, operational management techniques. It will focus on the main decision areas of operations management and their impact on business functions and the role of the operations manager and the relationship with productivity improvement.										
					SEM 1 18/19	SA01	THU	12:00-12:50	Z01-0005	L	60	Y	2045 - SS	10/01/2019 - AM	
							TUE	12:00-12:50	Z01-0005	L	60	Y			
								13:00-13:50	Z01-0005	L	60	Y			
						SB01	THU	12:00-12:50	Z01-0005	L	60	Y	2045 - SS		
							TUE	12:00-12:50	Z01-0005	L	60	Y			
								13:00-13:50	Z01-0005	L	60	Y			
						SC01	MON	12:00-12:50	W-DK-14	L	60	Y	2045 - SS		
								13:00-13:50	W-DK-14	L	60	Y			
							WED	12:00-12:50	W-DK-14	L	60	Y			
		2	**BPF2113**	**RESEARCH METHODOLOGY**	This course is designed to introduce students to the research methods that can be applied when conducting research projects. The topics to be covered include Introduction to research, approaches to research, problem statement, research objective, research question, literature reviews, theoretical framework and hypothesis development, research design, case study research, data collection method, measurement, sampling, data analysis, introduction to Excel/SPSS and writing the research proposal, poster and article.										
					SEM 1 18/19	01	FRI	08:00-08:50	ZDK12	L	38	N	2383 - GN		
							TUE	08:00-08:50	ZDK12	L	38	N			
								09:00-09:50	ZDK12	L	38	N			
						02	MON	16:00-16:50	ZDK12	L	40	N	2383 - GN		
								17:00-17:50	ZDK12	L	40	N			
							TUE	17:00-17:50	ZDK12	L	40	N			
		2	**BPF2213**	**INTRODUCTION TO FINANCE**	With recent spate of companies financial difficulties, the issue of sound financial management is now more important than ever. This course enables students to appreciate and understand the financial issues faced by an organization management and the activities undertaken by the organization to have effective financial management. It examines relevant issues including financial strategy, debt and equity management, the key drivers of shareholders value, risk and return concept in investment, and capital budgeting as vehicles to evaluate investment choices.										
					SEM 1 18/19	02	MON	16:00-16:50	ZDK11	L	30	Y	2330 - SP	07/01/2019 - AM	
								17:00-17:50	ZDK11	L	30	Y			
							TUE	17:00-17:50	ZDK11	L	30	Y			
		2	**BPP2113**	**PROJECT PLANNING & CONTROL**											

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	**BPP2113**	**PROJECT PLANNING & CONTROL**	The aim of this course is to expose students to frameworks and processes that are useful in project planning and control. At the end of this course students will be able to apply SMART principles to a project. They will be aware of the wider issues of planning and control in relation to project management.										
					SEM 1 18/19	01	MON	10:00-10:50	ZDK13	L	30	Y	2382 - AQA	09/01/2019 - AM	BPP1113
								11:00-11:50	ZDK13	L	30	Y			
						01A	TUE	10:00-10:50	FKPPT-01A	B	30	Y	2382 - AQA		
								11:00-11:50	FKPPT-01A	B	30	Y			
		2	**BPP2123**	**PROJECT PORTFOLIO MANAGEMENT**	This course aims to provide a bird-eye's view in managing all projects within the organization. Students will have opportunity to obtain firm understanding on project portfolio management (PPM). Improving resource utilization and planning and making right decision at the right time about adding new projects or continues with the current one are the key topics. Establishing proper methods in evaluating, selecting and prioritizing organizational resources to the projects shall be discuss extensively. Appropriate tools and techniques shall be practice in class to assists student in evaluating project that is aligned with corporate strategies and return on investment goals. At the end, students are able to develop necessary skills in monitoring resource utilization, cost and projects across the portfolio.										
					SEM 1 18/19	01	MON	14:00-14:50	ZDK13	L	30	Y	2382 - AQA	11/01/2019 - AM	BPP1113
								15:00-15:50	ZDK13	L	30	Y			
							TUE	14:00-14:50	ZDK13	L	30	Y			
		2	**BPP2223**	**PROJECT COST & BUDGET MANAGEMENT**	This subject is intended to introduce students the first step in successfully managing a project's costs is to have a project budget that realistically reflects the costs for executing the project. Project Cost & Budget Management addresses the identification, elaboration, planning, development and management of the project budget. Using best practices students learn how to develop a project cost estimate, project budget and the project budget baseline. In addition, students practice the preparation of a spending profile that supports variance analysis and corrective action using earned value management (EVM). Students gain an effective skill set for developing and controlling the project budget baseline										
					SEM 1 18/19	01	MON	14:00-14:50	ZDK14	L	30	Y	S0640 - NBA	11/01/2019 - PM	BPP1113
								15:00-15:50	ZDK14	L	30	Y			
							TUE	14:00-14:50	ZDK14	L	30	Y			
		2	**BPT2113**	**LEGAL AND ETHICAL ISSUES**	This subject introduces fundamental legal knowledge in relation to business activities and commercial transactions by focusing on relevant legal theories, priciples and aspects and their application within Malaysian legal framework and global business environment. The student will be exposed to the concept of law, legal system and legal liabilities in commercial contracts, commercial crime, tort, consumerism, industrial relations and intellectual property. Upon completing this subject, the student will have the basic understanding on the mechanics of law and its significance to business.										
					SEM 1 18/19	01	FRI	10:00-10:50	BKO03	L	30	Y	0487 - WNHBWMZ	13/01/2019 - PM	
								10:00-10:50	BKO04	L	30	Y			
							THU	10:00-10:50	BKO03	L	30	Y			
								10:00-10:50	BKO04	L	30	Y			
								11:00-11:50	BKO03	L	30	Y			
								11:00-11:50	BKO04	L	30	Y			
		2	**BPT2123**	**SUPPLY CHAIN MANAGEMENT**											

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	2	BPT2123	SUPPLY CHAIN MANAGEMENT	The subject is intended to introduce the strategic role of a supply chain from vendor to customer and the methods used to manage these supply chains. This course will provide the students with knowledge and business management skills focusing in continuous planning, developing, controlling, informing and monitoring of actions within and between supply chain links so that an integrated supply process results which meets overall strategic goals.										
					SEM 1 18/19	01	FRI	10:00-10:50	BKO05	L	50	Y	01883 - LKL	13/01/2019 - AM	
							THU	10:00-10:50	BKO05	L	50	Y			
								11:00-11:50	BKO05	L	50	Y			
		2	BPT2413	PRINCIPLES OF CAD/CAM	The subject is intended to provide students with introduction and theoretical understanding of computer-aided technologies used in design (CAD) and manufacturing. Students are exposed to various problem solving techniques as well as hands-on experience and project-based approach in the aspects of industrial product design and development										
					SEM 1 18/19	01	MON	08:00-08:50	FKPPT-L-08	L	30	N	01577 - FBM		
								09:00-09:50	FKPPT-L-08	L	30	N			
						01A	TUE	08:00-08:50	FKPPT-L-08	B	30	N	01380 - MZZBB		
								09:00-09:50	FKPPT-L-08	B	30	N			
		2	BPT2423	STATISTICAL PROCESS CONTROL	The subject is designed to introduce methods for data collection, quality tools and control chart construction and interpretation, and statistical diagnosis for process control and improvement. The course blends statistical process control (SPC) and principles of statistics for quality control and process improvement purpose. It also covers process capability analysis and acceptance sampling methods.										
					SEM 1 18/19	01	FRI	10:00-10:50	BKO02	L	30	Y	01368 - HBZ	09/01/2019 - PM	
								11:00-11:50	BKO02	L	30	Y			
						01B	TUE	10:00-10:50	FKPPT-L-08	B	30	Y	01368 - HBZ		
								11:00-11:50	FKPPT-L-08	B	30	Y			
		3	BPF3113	MANAGING HUMAN CAPITAL	This subject is intended to understand theories and principles of various human capital management functions, apply research skills in analyzing the actual practice of human capital management of a company. It also explains how human capital management in a company can be managed more effectively.										
					SEM 1 18/19	01	THU	11:00-11:50	ZDK13	L	60	Y	0155 - YCY	06/01/2019 - AM	
							TUE	10:00-10:50	ZDK13	L	60	Y			
								11:00-11:50	ZDK13	L	60	Y			
						02	FRI	15:00-15:50	ZDK13	L	60	Y	0155 - YCY		
							THU	14:00-14:50	ZDK13	L	60	Y			
								15:00-15:50	ZDK13	L	60	Y			
		3	BPP3113	CHANGE MANAGEMENT	In this course, students will identify ways to solve problems related to change on the job, including recognizing, anticipating and effectively managing change. Student will also define change management, identify change management strategies, define the psychological process of moving through change, identify ways of preparing for change, and explore ways to embrace change on ongoing basis.										
					SEM 1 18/19	01	MON	16:00-16:50	ZDK14	L	60	Y	FP0003 - NBB	04/01/2019 - PM	
								17:00-17:50	ZDK14	L	60	Y			
							TUE	17:00-17:50	ZDK14	L	60	Y			
		3	BPP3133	CONTRACT AND PROCUREMENT MANAGEMENT	This course develops an understanding on the concepts and practices in contract and procurement management. The discussion involved strategies applied during procurement processes and contract										

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	**BPP3133**	**CONTRACT AND PROCUREMENT MANAGEMENT**	negotiation as one of the project management activities. Procurement solution options, procurement decision model, problem solving approach by considering project activities, risk allocation and responsibility will be discuss during the class sessions. At the end of teh course, students will be equipped with the skills and necessary knowledge in negotiating and successfully managing the contract and procurement processes for a project.										
					SEM 1 18/19	01	FRI	10:00-10:50	W-DK-17	L	60	Y	2315 - MWAK	12/01/2019 - AM	BPP2113 BPP2223
								11:00-11:50	W-DK-17	L	60	Y			
							THU	11:00-11:50	W-DK-16	L	60	Y			
		3	**BPP3143**	**PROJECT RISK MANAGEMENT**	This course develops student with necessary knowledge and skills in managing risk and becoming good project manager. Project managers are required to possess a wide range of knowledge and skills, including time management, budget analysis, interpersonal and communication skills as well as risk management competencies. In this course, students will be exposed to the Project Life Cycle in assessing risk management process. The discussion will cover input and output from risk identification, quantification, response development as well as risk control.										
					SEM 1 18/19	01	TUE	08:00-08:50	BKO03	L	60	Y	01339 - LCK	10/01/2019 - PM	BPP2113 BPP2223
								08:00-08:50	BKO04	L	60	Y			
								09:00-09:50	BKO03	L	60	Y			
								09:00-09:50	BKO04	L	60	Y			
							WED	08:00-08:50	BKO03	L	60	Y			
								08:00-08:50	BKO04	L	60	Y			
		3	**BPP3213**	**ESTIMATING & SCHEDULING**	Realistic schedules and budgets for every project is crucial and perhaps one of the most challenging aspects in project planning. This to ensure that project could be delivered within teh agreed time, reasonable cost and manageable constraints. On the other hand, studies show that majority of projetcs finish "Late" or "Over Budget". Such scenarios make project managers and his team fail in the eyes of key stakeholder, unable to deliver as what is expected by their clients and less support to the business objectives. Further, attempting to meet impossible deadlines and budgets leads to unplanned product shortfalls that cause long term support and utilization problems. As a matter of fact, this course attempts to explain the importance of estimation and scheduling process in the project planning. The discussion will focus on approach and strategies in developing viable schedules and cost estimation which is influence the business success projects, products and organizations.										
					SEM 1 18/19	01	TUE	08:00-08:50	ZDK13	L	60	Y	2333 - AIBNH	10/01/2019 - AM	BPP2223
								09:00-09:50	ZDK13	L	60	Y			
							WED	08:00-08:50	ZDK13	L	60	Y			
		3	**BPP3413**	**PROJECT MANAGEMENT TOOLS**	Project Management Tools course aims to endow students with knoweldge as well as practical experiences in managing a project using selected project management software. The ultimate goal of this course is to show how elements of project management can be made more predicatable and scientific through the use of structured system and integrated tools. Selected project management tools/software will be introduced during the lab session to grant student with necessary knowledge and skills in dealing with stages of the project life cycle, how to work within organizational and cost constraints, manage resource and project team effectively.										
					SEM 1 18/19	01	FRI	10:00-10:50	ZDK14	L	60	N	2418 - FMK		BPP2113
								11:00-11:50	ZDK14	L	60	N			
						01A	MON	10:00-10:50	FKPPT-01A	B	30	N	2418 - FMK		
								11:00-11:50	FKPPT-01A	B	30	N			
						01B	TUE	12:00-12:50	FKPPT-01A	B	30	N	2418 - FMK		
								13:00-13:50	FKPPT-01A	B	30	N			

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	BPP3613	STAKEHOLDER MANAGEMENT	Business is about how customers, suppliers, employees, financiers (e.g., stockholders, bondholders, bank etc), communities, media and the organization interact and create values. In this subject, the concrete principles and practical techniques for managing the relationships between an organization and its stakeholders in order to ensure the organization's survival, reputation and success will be learnt.										
					SEM 1 18/19	01	MON	16:00-16:50	ZDK13	L	60	Y	01339 - LCK	04/01/2019 - AM	
								17:00-17:50	ZDK13	L	60	Y			
							TUE	17:00-17:50	ZDK13	L	60	Y			
		3	BPT3113	MANAGEMENT OF TECHNOLOGY	This subject is intended to give an understanding on the concept of technology management and its application to an organization particularly business firm. The topics to be covered are : Introduction to Management of Technology, The Role of Technology in the Creation of Wealth, Critical Factors in Managing Technology, Technology Life Cycles, The Process of Technological Innovation, Business Strategy and Technology Strategy, Competitiveness, Technology Planning and Technology Transfer.										
					SEM 1 18/19	01	FRI	11:00-11:50	ZDK12	L	60	Y	01662 - PFBMT	13/01/2019 - AM	
							THU	10:00-10:50	ZDK12	L	60	Y			
								11:00-11:50	ZDK12	L	60	Y			
		3	BPT3123	INDUSTRIAL LOGISTICS	This course will cover tools and techniques used in the industrial logistics operations. It focuses on logistics system which includes inventory management, transportation and shipping, material management, warehousing, logistics information technology framework, international logistics and logistics system control.										
					SEM 1 18/19	01	THU	08:00-08:50	ZDK13	L	60	Y	2316 - ABI	08/01/2019 - AM	
								09:00-09:50	ZDK13	L	60	Y			
							WED	09:00-09:50	ZDK13	L	60	Y			
		3	BPT3133	PROCUREMENT IN INDUSTRIAL MANAGEMENT	This subject is aimed to provide the students with the understanding of procurement management in industrial sector. It focuses on the management of the procurement, purchasing procedures and system contracting, order management, supplier selection and evaluation, price/cost analysis, negotiation strategies, relationship management and e-procurement.										
					SEM 1 18/19	01	THU	08:00-08:50	ZDK11	L	60	Y	2424 - NRHBMH	08/01/2019 - PM	
								09:00-09:50	ZDK11	L	60	Y			
							WED	09:00-09:50	ZDK11	L	60	Y			
		3	BPT3153	CREATIVITY AND INNOVATION	This subject is intended to help students develop or enhance their own creativity, to understand the relationship between creativity and innovation, and finally, to explore how business organizations foster and inhibit creativity for competitiveness and commercialization.										
					SEM 1 18/19	01	FRI	08:00-08:50	BKO03	L	60	N	01608 - MGBM		
								08:00-08:50	BKO04	L	60	N			
								09:00-09:50	BKO03	L	60	N			
								09:00-09:50	BKO04	L	60	N			
						01A	FRI	10:00-10:50	FKPPT- L-08	B	30	N	01608 - MGBM		
								11:00-11:50	FKPPT- L-08	B	30	N			
						01B	THU	14:00-14:50	FKPPT- L-08	B	30	N	01608 - MGBM		
								15:00-15:50	FKPPT- L-08	B	30	N			
		3	BPT3413	OPTIMIZATION METHODS											

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	3	BPT3413	OPTIMIZATION METHODS	The course will expose and develop skills in theory, algoriths as well as application in optimizations methodology including linear programming, network optimization, integer programming, decision analysis and goal programming										
					SEM 1 18/19	01	MON	08:00-08:50	ZDK11	L	60	Y	0973 - SBM	12/01/2019 - PM	
								09:00-09:50	ZDK11	L	60	Y			
						01A	TUE	08:00-08:50	FKPPT-01A	B	30	Y	0973 - SBM		
								09:00-09:50	FKPPT-01A	B	30	Y			
						01B	FRI	08:00-08:50	FKPPT-01A	B	30	Y	0973 - SBM		
								09:00-09:50	FKPPT-01A	B	30	Y			
		3	BPT3423	PRODUCTION PLANNING AND CONTROL	The subject covers planning and controlling of production in production and operation management; concepts of JIT, MRP, MRPII, ERP, production system design, analytical techniques and concepts of production and process control in industrial management.										
					SEM 1 18/19	01	THU	16:00-16:50	ZDK13	L	42	Y	01888 - MFBY	10/01/2019 - AM	
								17:00-17:50	ZDK13	L	42	Y			
						01A	MON	16:00-16:50	FKPPT-01A	B	12	Y	01888 - MFBY		
								17:00-17:50	FKPPT-01A	B	12	Y			
						01B	FRI	16:00-16:50	FKPPT-01A	B	30	Y	01888 - MFBY		
								17:00-17:50	FKPPT-01A	B	30	Y			
		4	BPP4113	PROJECT COMMUNICATION & NEGOTIATION	This subject is intended to introduce communication and negotiation skills for project management. It focuses on project communication management, documentation, performance reporting, information distribution, administration closure, project management bottleneck, communication plan, managing conflict and negotiation in project and negotiation ethics in project management environment.										
					SEM 1 18/19	01	FRI	09:00-09:50	ZDK12	L	45	Y	2272 - SP	07/01/2019 - AM	
							TUE	08:00-08:50	ZDK14	L	45	Y			
								09:00-09:50	ZDK14	L	45	Y			
						02	FRI	10:00-10:50	T-DK-01	L	45	Y	2272 - SP		
							WED	10:00-10:50	ZDK12	L	45	Y			
								11:00-11:50	ZDK12	L	45	Y			
		4	BPP4123	CONTRACT LAW	This course will provide students and future project managers with essential understanding and knowledge of principles, techniques and requirements for effective project contract management. Students will be given opportunity to analyze various contract law definitions and implications, what types of contract exists and the effect of statutory law on any contractual agreements. In addition, this course will also inculcate the crucial elements in preparing a good contract, tips for understanding contractual material as well as traps and pitfalls of contract drafting. On top of that, contract law also scrutinize the "exit door" when things does not go well, offering options for assessing damages and remedies for contract breach as well as contractual implication.										
					SEM 1 18/19	01	MON	08:00-08:50	ZDK13	L	45	Y	2315 - MWAK	05/01/2019 - AM	
								09:00-09:50	ZDK13	L	45	Y			
							WED	09:00-09:50	BKO03	L	45	Y			
								09:00-09:50	BKO04	L	45	Y			
						02	FRI	09:00-09:50	ZDK11	L	45	Y	2315 - MWAK		
							THU	08:00-08:50	ZDK14	L	45	Y			
								09:00-09:50	ZDK14	L	45	Y			

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Remark	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE	4	**BPP4133**	**STRATEGIC MANAGEMENT**	This course exposes students on the aspects of strategic management in business environment. The covered areas for this course are: the nature of strategic management; external and internal assessment; strategic analysis and choice; strategy implementation; and strategic evaluation and control.											BPP4133 FOR PROJECT MANAGEMENT STUDENT ONLY
						SEM 1 18/19	01	FRI	11:00-11:50	Z01-0010	L	45	Y	0109 - MHBA	09/01/2019 - PM	
								THU	11:00-11:50	Z01-0010	L	45	Y			
									12:00-12:50	Z01-0010	L	45	Y			
							02	MON	16:00-16:50	W-DKU-S-01	L	45	Y	0109 - MHBA		
									17:00-17:50	W-DKU-S-01	L	45	Y			
								TUE	16:00-16:50	Z01-0010	L	45	Y			
		4	**BPT4113**	**STRATEGIC MANAGEMENT**	This course exposes students on the aspects of strategic management in business environment. The covered areas for this course are: the nature of strategic management; external and internal assessment; strategic analysis and choice; strategy implementation; and strategic evaluation and control.											BPT4113 FOR INDUSTRIAL TECHNOLOGY MANAGEMENT STUDENTS ONLY
						SEM 1 18/19	01	FRI	11:00-11:50	Z01-0010	L	45	Y	0109 - MHBA	09/01/2019 - PM	
								THU	11:00-11:50	Z01-0010	L	45	Y			
									12:00-12:50	Z01-0010	L	45	Y			
							02	MON	16:00-16:50	W-DKU-S-01	L	45	Y	0109 - MHBA		
									17:00-17:50	W-DKU-S-01	L	45	Y			
								TUE	16:00-16:50	Z01-0010	L	45	Y			
		4	**BPT4413**	**MANUFACTURING TECHNOLOGY**	The subject is intended to introduce manufacturing processes as used by industries to transform raw material to a final product: covering basic principles in metal forming, casting, joining and machining processes. The subject also covers other essential processes such as bulk deformation processes, powder metallurgy and surface treatments. Besides theoretical learning, students are also will be exposed to the practical experiences related to basic manufacturing works which are common to the production industries.											
						SEM 1 18/19	01	MON	10:00-10:50	ZDK14	L	60	N	01577 - FBM		
									11:00-11:50	ZDK14	L	60	N			
							01A	THU	08:00-08:50	ET-WS-01	B	30	N	01380 - MZZBB		
									09:00-09:50	ET-WS-01	B	30	N			
							01B	FRI	10:00-10:50	ET-WS-01	B	30	N	01380 - MZZBB		
									11:00-11:50	ET-WS-01	B	30	N			
							02	WED	10:00-10:50	ZDK14	L	30	N	01577 - FBM		
									11:00-11:50	ZDK14	L	30	N			
							02A	FRI	08:00-08:50	ET-WS-01	B	30	N	01401 - MFBAA		
									09:00-09:50	ET-WS-01	B	30	N			
		4	**BPT4423**	**MANUFACTURING DESIGN**												

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE	4	**BPT4423**	**MANUFACTURING DESIGN**	The subject is intended to give an in-depth understanding of the entire process of new product development, as it should operate within a modern manufacturing company which encompassing both the design and development, not only of the visual appearance of products but also design for manufacturing, design to meet market needs, design for cost reduction, design for reliability and design for environmental friendliness.										
					SEM 1 18/19	01	THU	14:00-14:50	W-DKU-S-01	L	90	N	0973 - SBM		
								15:00-15:50	W-DKU-S-01	L	90	N			
						01A	MON	14:00-14:50	FKPPT-L-08	B	30	N	0973 - SBM		
								15:00-15:50	FKPPT-L-08	B	30	N			
						01B	WED	12:00-12:50	FKPPT-L-08	B	30	N	01361 - ANBNK		
								13:00-13:50	FKPPT-L-08	B	30	N			
						01C	TUE	14:00-14:50	FKPPT-L-08	B	30	N	01361 - ANBNK		
								15:00-15:50	FKPPT-L-08	B	30	N			
		4	**UGE2002**	**TECHNOPRENEURSHIP**	This course intends to provide an understanding of fundamentals of entrepreneurship.The topic includes assessing economic environment for new business ventures application of technology in entrepreneurship, regulations governing business entities in Malaysia, financial assistances and technical supports from various agencies business plan, marketing plan, business operational plan and financing plan. students will be exposed to various case successful entrepreneurs, locally and internationally.										
					SEM 1 18/19	01G	MON	10:00-10:50	W-DKU-S-01	L	60	N	0843 - ABHA		
								11:00-11:50	W-DKU-S-01	L	60	N			
						02G	TUE	10:00-10:50	W-DKU-S-01	L	60	N	01180 - MBM		
								11:00-11:50	W-DKU-S-01	L	60	N			
						03G	TUE	08:00-08:50	W-DKU-S-01	L	60	N	0843 - ABHA		
								09:00-09:50	W-DKU-S-01	L	60	N			
						04G	TUE	16:00-16:50	W-DKU-S-01	L	60	N	0843 - ABHA		
								17:00-17:50	W-DKU-S-01	L	60	N			
						05G	WED	08:00-08:50	W-DKU-K-01	L	60	N	01180 - MBM		
								09:00-09:50	W-DKU-K-01	L	60	N			
						06G	THU	16:00-16:50	W-DKU-S-01	L	60	N	0843 - ABHA		
								17:00-17:50	W-DKU-S-01	L	60	N			
			BPC1113	**PRINCIPLES OF MANAGEMENT**	This course serves as an introduction to the discipline of management. It is designed to integrate the accepted theories in the area with real world applications to provide students with the basic knowledge and skills needed for managing others. This course begins with a discussion of the current issues in management and then proceeds to cover the traditional functions of management: planning, organizing, leading, and controlling. Contemporary issues and global challenges for future managers will also be discussed to equipped students with current trends and best practices in managing a successful										BPF1113 - SUBJECT CODE FOR BATCH 2010 UNTIL 2016 BPC1113 - SUBJECT CODE FOR BATCH 2017

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		BPC1113	PRINCIPLES OF MANAGEMENT	organization.										
					SEM 1 18/19	01	THU	08:00-08:50	T-DK-01	L	60	Y	2272 - SP	10/01/2019 - AM	
							WED	08:00-08:50	T-DK-01	L	60	Y			
								09:00-09:50	T-DK-01	L	60	Y			
						02	MON	10:00-10:50	ZDK11	L	30	Y	2272 - SP		
								11:00-11:50	ZDK11	L	30	Y			
							TUE	10:00-10:50	ZDK11	L	30	Y			
						03	FRI	08:00-08:50	BKO05	L	60	Y	0511 - SABAG		
							TUE	08:00-08:50	BKO05	L	60	Y			
								09:00-09:50	BKO05	L	60	Y			
			BPC1123	PRINCIPLES OF ECONOMICS	This course is designed to introduce students to key concepts used in microeconomics and macroeconomics, and to facilitate a basic understanding of economic phenomena. The goals will help students to understand fundamental concepts and tools so that students can use them to analyse various economic issues at the national and international levels. This course is primarily concerned with Malaysian economy and will help them understand how economy works.										BPC1123 - SUBJECT CODE FOR BATCH 2010 UNTIL 2016 BPF1213 - SUBJECT CODE FOR BATCH 2017
					SEM 1 18/19	01	THU	08:00-08:50	ZDK12	L	60	Y	1846 - LY	10/01/2019 - PM	
							WED	08:00-08:50	ZDK12	L	60	Y			
								09:00-09:50	ZDK12	L	60	Y			
						02	MON	10:00-10:50	T-DK-01	L	70	Y	2421 - ZABK		
								11:00-11:50	T-DK-01	L	70	Y			
							TUE	10:00-10:50	T-DK-01	L	70	Y			
			BPC1133	PRINCIPLES OF MARKETING	This course serves as an introduction to the discipline of management. It is designed to integrate the accepted theories in the area with real world applications to provide students with the basic knowledge and skills needed for managing others. This course is designed to provide students with an understanding of marketing mix components; explain the environmental factors which influence consumer and organizational decision-making processes; outline a marketing plan; and how marketing works in today's marketing environment .										
					SEM 1 18/19	01	FRI	10:00-10:50	W-DKU-S-01	L	60	Y	0511 - SABAG	06/01/2019 - AM	
							THU	10:00-10:50	W-DKU-S-01	L	60	Y			
								11:00-11:50	W-DKU-S-01	L	60	Y			
						02	MON	14:00-14:50	W-DKU-S-01	L	60	Y	0511 - SABAG		
								15:00-15:50	W-DKU-S-01	L	60	Y			
							TUE	14:00-14:50	W-DKU-S-01	L	60	Y			
			BPC1143	INDUSTRIAL PSYCHOLOGY	This course introduces non industrial/organizational psychology students to important themes in I/O psychology. Students will learn how employers prepare a job analysis, recruit applicants, evaluate employees' performance and decide who needs training and what training is needed. Issues behind employee motivation, satisfaction and commitment, organizational communication, leadership, group behavior and conflict, organizational development, and stress management will also be examined.										
					SEM 1 18/19	01	MON	14:00-14:50	T-DK-01	L	60	Y	2429 - SBH	08/01/2019 - PM	
								15:00-15:50	T-DK-01	L	60	Y			
							TUE	14:00-14:50	T-DK-01	L	60	Y			
						02	FRI	17:00-17:50	T-DK-01	L	60	Y	2429 - SBH		
							THU	16:00-16:50	T-DK-01	L	60	Y			
								17:00-17:50	T-DK-01	L	60	Y			
			BPC1153	BUSINESS INFORMATION SYSTEM	This course aims to provide firm understanding on the significance and strategic role of information										BPF2413 - SUBJECT CODE FOR

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BPC1153**	**BUSINESS INFORMATION SYSTEM**	system to the organization particularly in supporting wide range of business functions across the corporate environment. The lectures shall cover theoritical part which is covers the foundation of information systems, information technology infrastructure and contemporary issues pertaining to information security. Lab sessions aim to provide students with hands-on and practical experiences on the usage of office automation systems, developing database as well as exploring the selected approach in information system development.										BATCH 2010 UNTIL 2016 BPC1153 - SUBJECT CODE FOR BATCH 2017 BTU2413 - FOR BPS STUDENT ONLY
					SEM 1 18/19	01	MON	16:00-16:50	BKO05	L	60	Y	2422 - FIBR	04/01/2019 - PM	
								17:00-17:50	BKO05	L	60	Y			
						01A	TUE	16:00-16:50	FKPPT-01A	B	30	Y	S0640 - NBA		
								17:00-17:50	FKPPT-01A	B	30	Y			
						01B	THU	16:00-16:50	FKPPT-01A	B	30	Y	S0641 - MAZA		
								17:00-17:50	FKPPT-01A	B	30	Y			
						02	MON	08:00-08:50	BKO05	L	60	Y	2421 - ZABK		
								09:00-09:50	BKO05	L	60	Y			
						02A	WED	08:00-08:50	FKPPT-01A	B	30	Y	S0641 - MAZA		
								09:00-09:50	FKPPT-01A	B	30	Y			
						02B	THU	08:00-08:50	FKPPT-01A	B	30	Y	S0641 - MAZA		
								09:00-09:50	FKPPT-01A	B	30	Y			
						03	FRI	15:00-15:50	BKO05	L	17	Y	2421 - ZABK		
								16:00-16:50	BKO05	L	17	Y			
						03A	MON	10:00-10:50	FKPPT- L-08	B	9	Y	S0642 - MSBS		
								11:00-11:50	FKPPT- L-08	B	9	Y			
						03B	WED	10:00-10:50	FKPPT- L-08	B	8	Y	TBA0001 - ES(		
								11:00-11:50	FKPPT- L-08	B	8	Y			
						04	WED	10:00-10:50	ZDK11	L	18	Y	2222 - WMNSBMD		
								11:00-11:50	ZDK11	L	18	Y			
						04A	THU	10:00-10:50	FKPPT-01A	B	9	Y	TBA0001 - ES(		
								11:00-11:50	FKPPT-01A	B	9	Y			
						04B	FRI	10:00-10:50	FKPPT-01A	B	9	Y	TBA0001 - ES(		
								11:00-11:50	FKPPT-01A	B	9	Y			
			BPC2113	**QUALITY MANAGEMENT**											

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BPC2113**	**QUALITY MANAGEMENT**	The course provides a comprehensive understanding in the fields of quality management and process improvement. The quality management principles, performance management, and quality improvement alongside relevant tools, techniques, models and frameworks will be learnt.										
					SEM 1 18/19	01	FRI	10:00-10:50	ZDK12	L	40	Y	01361 - ANBNK	04/01/2019 - AM	
							WED	10:00-10:50	T-DK-01	L	40	Y			
								11:00-11:50	T-DK-01	L	40	Y			
						02	MON	16:00-16:50	T-DK-01	L	50	Y	2222 - WMNSBMD		
								17:00-17:50	T-DK-01	L	50	Y			
							TUE	16:00-16:50	ZDK11	L	50	Y			
						03	MON	08:00-08:50	BKO03	L	50	Y	2222 - WMNSBMD		
								08:00-08:50	BKO04	L	50	Y			
								09:00-09:50	BKO03	L	50	Y			
								09:00-09:50	BKO04	L	50	Y			
							THU	09:00-09:50	ZDK12	L	50	Y			
			BPC2123	**ORGANIZATIONAL BEHAVIOUR**											
					SEM 1 18/19	01	FRI	10:00-10:50	ZDK11	L	60	Y	1846 - LY	06/01/2019 - PM	BPC1143
							THU	10:00-10:50	ZDK11	L	60	Y			
								11:00-11:50	ZDK11	L	60	Y			
						02	MON	10:00-10:50	ZDK12	L	60	Y	01766 - DBK		
								11:00-11:50	ZDK12	L	60	Y			
							WED	10:00-10:50	ZDK13	L	60	Y			
			BPM1313	**PROJECT MANAGEMENT**	This course provides foundation and knowledge of project management. Students will be exposed to various body of knowledge and institutions related to project management in particular to Project Management Institute (PMI). Through out semester, students be give the well-round knowledge of theories, project management process and the skills required to manage a project effectively. Last but not least, students also will have opportunity to explore various methods and approaches of project management and project management software.										BPP1113 - SUBJECT CODE FOR BATCH 2010 UNTIL 2016 BPM1313 - SUBJECT CODE FOR BATCH 2017
					SEM 1 18/19	01	MON	08:00-08:50	T-DK-01	L	60	Y	2418 - FMK	04/01/2019 - AM	
								09:00-09:50	T-DK-01	L	60	Y			
							THU	09:00-09:50	T-DK-01	L	60	Y			
			BPM2313	**PROJECT FINANCIAL MANAGEMENT**											
					SEM 1 18/19	01	FRI	16:00-16:50	ZDK11	L	60	Y	0512 - HBH	07/01/2019 - AM	
							THU	16:00-16:50	ZDK11	L	60	Y			
								17:00-17:50	ZDK11	L	60	Y			
			BPM2323	**PROJECT ESTIMATING & BUDGETING**											
					SEM 1 18/19	01	FRI	16:00-16:50	ZDK12	L	60	Y	2360 - KFBA	07/01/2019 - PM	
							THU	16:00-16:50	ZDK12	L	60	Y			
								17:00-17:50	ZDK12	L	60	Y			
			BPM2333	**PLANNING & SCHEDULING**											
					SEM 1 18/19	01	THU	14:00-14:50	T-DK-01	L	60	Y	0512 - HBH	05/01/2019 - AM	
								15:00-15:50	T-DK-01	L	60	Y			
						01A	MON	14:00-14:50	FKPPT-01A	B	30	Y	0512 - HBH		
								15:00-15:50	FKPPT-01A	B	30	Y			
						01B	TUE	14:00-14:50	FKPPT-01A	B	30	Y	0512 - HBH		
								15:00-15:50	FKPPT-01A	B	30	Y			
			BPM2343	**INTEGRATED PROJECT MANAGEMENT 1**											

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Remark	Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Pre-Requisite
GAMBANG	DEGREE		BPM2343	INTEGRATED PROJECT MANAGEMENT 1												
						SEM 1 18/19	01	FRI	09:00-09:50	W-DKU-S-01	L	120	N	2382 - AQA		
								THU	08:00-08:50	W-DKU-S-01	L	120	N			
									09:00-09:50	W-DKU-S-01	L	120	N			
			BPM2353	PROCUREMENT MANAGEMENT												
						SEM 1 18/19	01	MON	14:00-14:50	BKO05	L	60	Y	2424 - NRHBMH	12/01/2019 - AM	
									15:00-15:50	BKO05	L	60	Y			
								THU	15:00-15:50	BKO05	L	60	Y			
			BPP2533	CONSTRUCTION TECHNOLOGY	This course focuses on the knowledge of construction technology. The course begins with the construction work organizations and site preparations works. Then, students will be exposed with the design aspects and construction methods for buildings. It includes selected topics on substructure and superstructure works, which give fundamental concepts of the structure of a building. The topics include the construction of frames, walls, floors and roofs. It also covers the construction of stairs, doors and windows including associated glass and glazing, and external works associated to a building.										ELECTIVE SUBJECT FOR PROJECT MANAGEMENT STUDENTS	
						SEM 1 18/19	01	THU	12:00-12:50	ZDK12	L	30	Y	TBA0001 - ES(	05/01/2019 - PM	
								TUE	12:00-12:50	ZDK12	L	30	Y			
									13:00-13:50	ZDK12	L	30	Y			
			BPQ1213	MANAGEMENT ACCOUNTING	This course is an introductory course and enables students to understand the basic concepts and terminology of accounting and financial reporting for modern business enterprises. The students will learn to apply accounting information for business activities and decisions. The course will equip students with understanding and application on context of management accounting, cost identification and behaviour, standard costing, financial planning and control, and accounting control systems.											
						SEM 1 18/19	01	MON	14:00-14:50	ZDK12	L	60	Y	2234 - SKT	06/01/2019 - PM	
									15:00-15:50	ZDK12	L	60	Y			
								TUE	14:00-14:50	ZDK12	L	60	Y			
									15:00-15:50	ZDK12	L	60	Y			
			BPQ1223	PRINCIPLES OF OPERATION MANAGEMENT	The course provides a range of academic knowledge, operations understanding, operational management techniques. It will focus on the main decision areas of operations management and their impact on business functions and the role of the operations manager and the relationship with productivity improvement.											
						SEM 1 18/19	01	THU	14:00-14:50	ZDK11	L	60	Y	01888 - MFBY	04/01/2019 - AM	
									15:00-15:50	ZDK11	L	60	Y			
								TUE	14:00-14:50	ZDK11	L	60	Y			
			BPQ2213	FINANCIAL MANAGEMENT												
						SEM 1 18/19	01	FRI	08:00-08:50	ZDK13	L	45	Y	2330 - SP	11/01/2019 - AM	
								MON	08:00-08:50	ZDK12	L	45	Y			
									09:00-09:50	ZDK12	L	45	Y			
							02	FRI	16:00-16:50	ZDK13	L	45	Y	2330 - SP		
								TUE	15:00-15:50	ZDK13	L	45	Y			
									16:00-16:50	ZDK13	L	45	Y			
			BPQ2223	SUPPLY CHAIN & LOGISTIC MANAGEMENT												
						SEM 1 18/19	01	TUE	08:00-08:50	T-DK-01	L	60	Y	2392 - YF	07/01/2019 - AM	
									09:00-09:50	T-DK-01	L	60	Y			
								WED	08:00-08:50	ZDK11	L	60	Y			
			BPQ2233	PROJECT MANAGEMENT												

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
GAMBANG	DEGREE		**BPQ2233**	**PROJECT MANAGEMENT**											
					SEM 1 18/19	01	FRI	15:00-15:50	ZDK11	L	60	Y	2418 - FMK	13/01/2019 - PM	
							MON	14:00-14:50	ZDK11	L	60	Y			
								15:00-15:50	ZDK11	L	60	Y			
			BPQ2243	**FUNDAMENTAL OF MANUFACTURING**											
					SEM 1 18/19	01	FRI	09:00-09:50	ZDK13	L	60	Y	01368 - HBZ	07/01/2019 - PM	
							WED	08:00-08:50	ZDK14	L	60	Y			
								09:00-09:50	ZDK14	L	60	Y			
			BPQ2253	**MANAGEMENT OF TECHNOLOGY**											
					SEM 1 18/19	01	FRI	15:00-15:50	ZDK12	L	60	Y	01662 - PFBMT	13/01/2019 - AM	
							THU	14:00-14:50	ZDK12	L	60	Y			
								15:00-15:50	ZDK12	L	60	Y			
			BPT2633	**LEAN MANAGEMENT**	Lean manufacturing focuses on eliminating wastes in processes, which may impede the flow of product as it is being transformed in the value chain. This subject introduces the key concepts and elements of lean manufacturing such as just-in-time, pull/kanban system, quality control, uniform production level, setup time reduction, etc. The course will examine the socio-technical interactions within a modern manufacturing organization and develop skills and processes for implementing changes for achieving agile manufacturing and global competitiveness.										
					SEM 1 18/19	01	TUE	12:00-12:50	BKO03	L	30	Y	2383 - GN	05/01/2019 - AM	
								12:00-12:50	BKO04	L	30	Y			
								13:00-13:50	BKO03	L	30	Y			
								13:00-13:50	BKO04	L	30	Y			
							WED	12:00-12:50	BKO03	L	30	Y			
								12:00-12:50	BKO04	L	30	Y			
			BPT3633	**INDUSTRIAL PROJECT MANAGEMENT**	The overall aim of this course is to produce professional business managers that are capable of making effective and efficient project management decisions. This course also provides a range of academic knowledge, business undestanding, project management techniques and seeks to develop within students the ability to integrate these with an appreciation of the usefulness of appropriate project management software. On completion of the course, students will have the core knowledge needed to work successfully as a project team or as a project manager on small projects in an environment constrained with time, cost and quality.										ELECTIVE 2 FOR BPT STUDENT
					SEM 1 18/19	01	THU	16:00-16:50	BKO05	L	60	Y	01608 - MGBM	10/01/2019 - PM	
								17:00-17:50	BKO05	L	60	Y			
							TUE	16:00-16:50	BKO05	L	60	Y			
PEKAN	DEGREE	4	**UGE2002**	**TECHNOPRENEURSHIP**											

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
PEKAN	DEGREE	4	**UGE2002**	**TECHNOPRENEURSHIP**	This course intends to provide an understanding of fundamentals of entrepreneurship.The topic includes assessing economic environment for new business ventures application of technology in entrepreneurship, regulations governing business entities in Malaysia, financial assistances and technical supports from various agencies business plan, marketing plan, business operational plan and financing plan. students will be exposed to various case successful entrepreneurs, locally and internationally.										
					SEM 1 18/19	01P	MON	16:00-16:50	FKP-F-DK-04	L	60	N	0517 - IRBT		
								17:00-17:50	FKP-F-DK-04	L	60	N			
						02P	MON	08:00-08:50	E00DK2	L	60	N	0517 - IRBT		
								09:00-09:50	E00DK2	L	60	N			
						03P	TUE	16:00-16:50	E00DK2	L	60	N	0073 - WKABWAM		
								17:00-17:50	E00DK2	L	60	N			
						04P	THU	10:00-10:50	FKP-F-DK-04	L	60	N	0517 - IRBT		
								11:00-11:50	FKP-F-DK-04	L	60	N			
						05P	THU	14:00-14:50	E00DK2	L	60	N	0517 - IRBT		
								15:00-15:50	E00DK2	L	60	N			
						06P	MON	14:00-14:50	FKP-F-DK-04	L	60	N	0073 - WKABWAM		
								15:00-15:50	FKP-F-DK-04	L	60	N			
NO TIMETABLE	DEGREE	3	**BPP3522**	**FINAL YEAR PROJECT 1**	Final Year Project 1 (FYP 1) exposes the students on the process of conducting academic research in order to provide the skills and ability in carrying out research project in the area of Project Management. The outcome of FYP 1 is a complete research proposal, which covers research background, research problem, research questions, research objectives, scope of study, significance of study, literature review, research framework/model, and research methodology. At the end of FYP 1, students shall present their proposal.										
					SEM 1 18/19	01					90	N	TBA		BPF2113
		3	**BPT3512**	**FINAL YEAR PROJECT 1**	Final Year Project 1 (FYP 1) exposes the students on the process of conducting academic research in order to provide skills and ability in carrying out research project in the area of Industrial Technology Management. The outcome of FYP 1 is a complete research proposal, which covers research background, research problem, research questions, research objectives, scope of study, significance of study, literature review, research framework/model, and research methodology. At the end of FYP 1, students shall present their proposal.										
					SEM 1 18/19	01					88	N	TBA		BPF2113
		4	**BPP4524**	**FINAL YEAR PROJECT 2**	Final Year Project 2 (FYP 2) exposes the students on the process of conducting academic research in order to provide the skills and ability in carrying out research project in the area of Project Management. In this course, students are required to analyze and interpret the data, write a full report, prepare technical paper and poster presentation. At the end of the FYP 2, students shall present their works in the FYP poster presentation and exhibition.										
					SEM 1 18/19	01					10	N	TBA		BPP3522
		4	**BPP4528**	**INDUSTRIAL TRAINING**											

COURSE TIMETABLE

Faculty : **FACULTY OF INDUSTRIAL MANAGEMENT**

Campus	Level	Year	Code	Course Name	Course Synopsis / Sem	Sec	Day	Time	Loc	Mode	Cap	Exam	Staff	Exam Schedule	Remark / Pre-Requisite
NO TIMETABLE	DEGREE	4	**BPP4528**	**INDUSTRIAL TRAINING**	This course aims to give chances for the students to practise and apply their knowledge and skills that they gain during their study. During the placement, we expect students to keep a log book, in which they make a regular entries describing the work they are undertaking. Students are supervised by industrial and university supervisors to guide and ensure they can do their work as good as possible and achieve the objective for this course.										
					SEM 1 18/19	01					88	N	TBA		
		4	**BPP4534**	**INDUSTRIAL TRAINING REPORT**	During the placement, we expect students to keep a log book, in which they make a regular entries describing the work they are undertaking. Then, students need to provide industrial training report to describe their technical and personal development during their placement. The industrial training report needs to be submitted to the university supervisor. Students need to do final presentation for assessment.										
					SEM 1 18/19	01					88	N	TBA		
		4	**BPT4514**	**FINAL YEAR PROJECT 2**	Final Year Project 2 (FYP 2) exposes the students on the process of conducting academic research in order to provide the skills and ability in carrying out research project in the area of Project Management. In this course, students are required to analyze and interpret the data, write a full report, prepare technical paper and poster presentation. At the end of the FYP 2, students shall present their works in the FYP poster presentation and exhibition.										
					SEM 1 18/19	01					10	N	TBA		BPT3512
		4	**BPT4534**	**INDUSTRIAL TRAINING REPORT**	During the placement, we expect students to keep a log book, in which they make a regular entries describing the work they are undertaking. Then, students need to provide industrial training report to describe their technical and personal development during their placement. The industrial training report needs to be submitted to the university supervisor. Students need to do final presentation for assessment.										
					SEM 1 18/19	01					88		TBA		
			BPT4538	**INDUSTRIAL TRAINING**	This course aims to give chances for the students to practise and apply their knowledge and skills that they gain during their study. During the placement, we expect students to keep a log book, in which they make a regular entries describing the work they are undertaking. Students are supervised by industrial and university supervisors to guide and ensure they can do their work as good as possible and achieve the objective for this course.										
					SEM 1 18/19	01					88	N	TBA		