



**STUDENT**  
*Handbook*

**FACULTY OF ENGINEERING**  
UNIVERSITI MALAYSIA SARAWAK

2021/2022

## **VISION**

To become an exemplary university of internationally acknowledged stature and a scholarly institution of choice for both students and academics through the pursuit of excellence in teaching, research and scholarship.

## **MISSION**

To generate, disseminate and apply knowledge strategically and innovatively to enhance the quality of the nation's culture and prosperity of its people.

**STUDENT'S PROFILE**

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Student ID :  
Programme :  
Address in Campus :

Permanent Address :

HP No :  
Email :

In case of emergency please contact:

Name :  
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Relationship with :  
student

**ACADEMIC ADVISOR INFORMATION**

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Academic Calendar for Undergraduate Studies (2021/2021 Session)



### **FOREWORD BY THE DEAN**

Engineers today, play an increasingly important role in the future of our nation and the world. The Faculty of Engineering UNIMAS is uniquely positioned to provide innovative and systematic engineering education and produce engineers with strong technical and interpersonal skills through the dedication and commitment of its faculty members having expertise in diverse niche areas. Through innovative curricula, teamwork approach, problem-based learning, soft skills programme and leadership-building experiences, the Faculty of Engineering imparts to its students' vital communication and critical-thinking skills.

I invite you to become better acquainted with the UNIMAS Faculty of Engineering, where you will discover not only engineering merit but also a campus alive with intellectual, cultural and health activities.

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**Dean**  
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## **FACULTY VISION**

To be a leading faculty with accredited programmes producing quality graduates and benefiting the community and nation through high impact research and exemplary leadership

## **FACULTY MISSION**

To provide a culture of continuous improvement and holistic curriculum involving stakeholders' participation that is delivered by scholarly faculty members who contributes towards knowledge creation.

## **FACULTY OBJECTIVES**

To ensure all activities are appropriate to the development and advancement of new technologies and the future, relevant to the development of the country and in line with efforts to improve professionalism. All this is done by offering various opportunities in engineering education, training and services through the application of scholarship and knowledge in strategic and innovative ways to improve the quality of the nation's culture and prosperity of its citizens.

## **FACULTY HISTORY**

Faculty of Engineering is one of the eight faculties in UNIMAS. It was established on 30 December 1993. On its establishment, Faculty of Engineering offered two undergraduate programmes, which are Civil Engineering and Electronics and Telecommunication and received its first admission in July 1994 academic session. In 1996, the Mechanical and Manufacturing Engineering programme was introduced, followed by offering of Electronics and Computer programme starting May 2000 to fulfill the demand and development in the engineering fields. Chemical Engineering programme was offered in 2009 academic session and Electrical and Electronics Engineering programme in 2014.

## ACADEMIC STRUCTURE

Each programme at UNIMAS has been designed in accordance with the curriculum that is based on individual development as an autonomous citizen but working together in the community.

### CORE COURSE

The courses provide knowledge and skills specializing in a particular field required for a programme.

Each programme not only focuses on the theory and practice of specialization, but also on technology and management.

### GENERAL EDUCATION COURSES (MPU)

General Education Courses (Mata Pelajaran Umum – MPU) are compulsory university courses which are the pre-requisite for the undergraduate award. Courses under the category of MPU are able to produce holistic graduates, appreciate the values of patriotism and Malaysian-born identity and mastering soft skills towards fulfilling job-oriented skills. The course code under this category starts with MPU.

### UNIVERSITY ELECTIVE COURSES (KEU)

Courses from other faculties that provide opportunities for students to explore another area of study beside its own specialization, to the extent that is meaningful and satisfying. Minimum requirement is 9 credits.

### PPD1041 SOFTSKILLS AND BASIC VOLUNTEERISM

PPD1041 Softskills and Basic Volunteerism is a compulsory course for all UNIMAS students which aims to promote volunteerism and enhance softskills in the students. This course exposes first year undergraduate students to the personal, social and academic skills that are essential to ensure the survival and self-efficacy in ensuring their success throughout their studies. This course places strong emphasis on personal skills, academic writing, information literacy, understanding career profiles and professional conduct in collaborative environment.

### PBI ENGLISH COURSES

English courses which aim to improve students' English proficiency in both writing and oral presentation for more effective communication. The English courses are segmented for these MUET results:

MUET BAND 1 – 2	PBI1112 Preparatory English I (Compulsory Remedial English for Band 1&2) PBI1122 Preparatory English II (Compulsory Remedial English for Band 1&2) * prerequisite for PBI1102 & PBI1072
MUET BAND 1 – 3	PBI1102 Academic English I PBI1072 English for Professional Communication
MUET BAND 4 – 6	PBI1092 Academic English 2 PBI1082 English for Occupational Purposes

## BAHASA MELAYU COURSES

Bahasa Melayu courses for communication:-

PBM2072 BM (for Malaysian)

PBM2082 BM Komunikasi Lanjutan (for non-Malaysian)

## PRE-REQUISITES & REQUISITES

PRE-REQUISITES are courses which must be PASSED as a condition before registering for a specific course. REQUISITES = courses which must be TAKEN as a condition before registering for a specific course

Example: KNF1013 Engineering Mathematics I is a pre-requisite for KNF1023 Engineering Mathematics II. (The students must PASS KNF1013 before they are allowed to register for KNF1023)

## COURSE REGISTRATION

Registration for all courses must be done on time and within a specific period.  
(Refer to Undergraduate Studies Division)

## PROGRAMME DURATION

Minimum Semesters = 8 semesters (4 years)

Maximum Semesters = 14 semesters (upon Year of Admission)

## CREDIT TRANSFER (WITHOUT GRADE)

Credit Transfer is applicable for equivalent course credits and 80% course contents in the course. The result to be used for the transfer of credit without grade must be obtained within the recent five (5) years. The allowed course content to be equated must be not more than two courses if to be combined, and the total credit without grade must be not less than the course credit value to be equated. The course applied for the transfer of credit must be part of a Certified Accreditation academic programme recognized by MQA.

Minimum grade for transfer is Grade B and must be supported by the Programme Coordinator / Head of Department before subject to approval by the DEAN.

Transfer of credit without grade will not be allowed in the event of the following cases:

- a) All courses in a Foundation/ Matriculation level to a Bachelor's Degree programme.
- b) Industrial Training is not eligible for transfer of credit.
- c) General Education Subject courses (MPU) at a Diploma level except for the following courses under U1 MPU cluster:
  - i) Philosophy and Current Issue/ Falsafah dan Isu Semasa
  - ii) Ethical Appreciation and Civilisation/ Penghayatan Etika dan Peradaban

### **CREDIT TRANSFER (WITH GRADE)**

Subjected to approval from Faculty/ Centre, Transfer of Credit with Grade by student, will only be allowed for the following situation:

- a) For students currently undertaking programmes in UNIMAS:
  - i. Student switching study programme in UNIMAS.
  - ii. Student undertaking the mobility programme.
- b) For students currently undertaking programmes at other IHL:
  - i. Students from other IHL who are continuing their studies in UNIMAS at the same level and programme.
  - ii. Students from other IHL who are continuing their studies in UNIMAS at the same level but a different programme.

For Transfer of Credit Application, the following general regulation must be complied:

- a) The minimum grade requirement for the requested course for transfer of credit is Grade C;
- b) The course content equivalent must not be less than 80%;
- c) The allowed course content to be equated must be not more than two courses if to be combined, and the total credit without grade must be not less than the course credit value to be equated;
- d) For University Elective Courses, transfer of credit with grade will only be considered if the said course is part of the listed University Elective courses under a different cluster/ programme from the the student's programme; and
- e) Students who switch universities , therefore the transfer of credit is subjected to the student residential year regulation , at least after a year of undertaking the programme at UNIMAS.

Grade obtained by the previous course is given to the approved course for transfer of credit. The grade is then used for the calculation of CGPA of the affected student following course of studies.

Transfer of Credit with Grade IS NOT ALLOWED for students who have been dismissed from their studies due to academic failure and henceforth continuing their studies in a different programme.

### **PROGRAMME ACCUMULATED CREDIT**

All students must undertake the following remedial courses:

- Credited Co-Curriculum Course (For 2019/2020 intake and below)
- Soft Skill and Basic Entrepreneurship course
- Preparatory English Course 1 and Preparatory English Course 2 for students with MUET Band 2

For students undertaking any uniform body courses by fulfilling the Uniform Body Course training 1, 2 and 3 with a total of three (3) credit are exempted from taking Soft Skills and Basic Entrepreneurship, and Credited Co-Curriculum Course. Students may opt to continue their Uniform Body training 4, 5 and 6 in order to qualify them for commissioning. However, students who do not fulfil the three (3) credit hours must undertake either one of the following; Soft Skills; Basic Entrepreneurship or Credited Co-Curriculum Course.

Scoring and grade will be awarded to all listed courses mentioned above except for Soft Skills and Basic Entrepreneurship which are graded with a Pass/Fail.

## ASSESSMENT SYSTEM

In the event where a student failed to undertake the final examination of a course, the scoring of marks for the overall course will still take into account the carry mark and final examination mark.

The Schedule of Grade and Grade Value applicable to all Core Courses for all programmes at Faculty of Engineering:

Grade	Score Range	Grade Point	Core Course Achievement Standards
A	80-100	4.00	Excellent
A-	75-79	3.67	
B+	70-74	3.33	Credit
B	65-69	3.00	
B-	60-64	2.67	Good
C+	55-59	2.33	
C	50-54	2.00	Pass
C-	45-49	1.67	Fail
D	40-44	1.00	
F	< 40	0.00	

In the event where a student fails repetitively, the grade taken into account will be the best grade.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

Programme Educational Objectives are broad statements that describe quality that are supposed to be acquired by the graduates upon graduation and after a few years of employment.



## PROGRAMME LEARNING OUTCOMES (PLO)

Programme Outcomes are statements that describe what students are expected to know and be able to perform or attain by the time of graduation. These relate to the skills, knowledge, and behaviour that students acquired upon completion of the programme.

**IMPORTANT:** For engineering students, all TWELVE (12) Programme Learning Outcomes must be achieved before graduation in compliance with the requirement from the Engineering Accreditation Council (EAC). Students who do not achieve all complete 12 PLOs will have to sit for supplementary remedial assessments before their completion of studies for graduation purposes.

## **ACADEMIC ADVISOR**

A student (Mentee) is assigned to an Academic Advisor (Mentor) at the beginning of his/her studies in UNIMAS. The Academic Advisor shall advise the students on various matters as well as the monitor the academic performances of the student.

The Academic Advisor responsibilities also include:

- Set appointments with mentees at least two times per semester
- Monitor academic progress and development of the mentees
- Provide guidance and offer advices to mentees with problems
- Refer mentees to counsellors in case of extended problems
- Assist mentees to make decisions with regards to academic and career planning
- Retain a good relationship with mentee for an effective implementation of ACAD system
- Allow mentees to “Print Examination Slip” in the ACAD system after end of semester meetings

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## 1.0 PROGRAMME ESTABLISHMENT

Knowledge in Civil Engineering is important in developing highly competent and technically sound engineers in planning, design, construction and operation of building structures, bridges, wharves, dams, power stations, highways, railways, airports, water distribution system, solid waste, wastewater, and flood mitigation and erosion. The main objective of Civil Engineering programme is to meet the nation's aspiration of having educated, trained and specialized engineers capable of integrating various Civil Engineering fields aligned with the current rapid economic and industrial development growth. The programme is also aimed at generating highly competent, responsible, forward looking and professionals in the engineering field.

## 2.0 PROGRAMME EDUCATIONAL OBJECTIVES

PEO 1	Practice professionalism, ethics and responsibility of Civil engineering profession
PEO 2	Broaden knowledge, skills and abilities through lifelong learning and continuously improve competency, to be abreast with technology advancement
PEO 3	Engage with government and industry, domestically or globally to contribute to engineering community and beyond

## 3.0 PROGRAMME LEARNING OUTCOMES

Upon completion of this programme, the students are expected to :

PLO 1	Apply knowledge of mathematics, natural science, engineering fundamentals and an engineering specialization to the solution of complex Civil Engineering problems (WK1-WK4)
PLO 2	Identify, formulate, conduct research literature and analyse complex Civil Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences (WK1-WK4)
PLO 3	Design solutions for complex Civil Engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations (WK5)
PLO 4	Conduct investigation of complex Civil Engineering problems using research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions (WK8)
PLO 5	Create, select and apply appropriate techniques, resources, and modern engineering and IT Tools, including prediction and modelling, to complex Civil Engineering problems, with an understanding of the limitations (WK6)
PLO 6	Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional Civil Engineering practice and solutions to complex Civil Engineering problems (WK7)
PLO 7	Understand and evaluate the sustainability and impact of professional Civil Engineering work in the solutions of complex Civil Engineering problems in societal and environmental contexts (WK7)
PLO 8	Apply ethical principles and commit to professional ethics and responsibilities and norms of Civil Engineering practice (WK7)

PLO 9	Communicate effectively on complex Civil Engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
PLO 10	Function effectively as an individual, and as a member or leader in diverse teams and multi-disciplinary settings
PLO 11	Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change
PLO 12	Demonstrate knowledge and understanding of engineering management principles and economic decision making and apply these to one's own work, as a member and leader in a team, to manage projects in multidisciplinary environments

#### 4.0 CONCEPT OF PROGRAMME

The programme offers Civil Engineering modules in the following fields:

##### **(i) Geotechnical Engineering**

Geotechnical engineers are responsible to identify the earth subsurface structures, in which are the foundations to construction of engineering structures such as buildings, retaining walls, underground pipelines, tunnels and dams. Design of these structures depend largely on the strength and geologic properties of soil layers, as well as other factors related to safety and economy.

##### **(ii) Construction Engineering**

Construction engineers oversee an engineering project from planning stage until completion stage of the project. It is their responsibility to ensure the project is conducted as per planned and within the allocated time and budget, and conformed to given specifications. They manage the workloads and work schedules to ensure that the project runs smoothly and financially sound. They have to be responsive to ever changing natures of the construction processes as the project progresses to make sure the resources and workforce and utilized efficiently.

##### **(iii) Structural Engineering**

Structural engineers are responsible to design structures such as bridges, buildings and power stations. They utilize materials like steel, timber and concrete and work with architects in ensuring the beautiful structures inspired by architects are securely built for occupation.

##### **(iv) Water Resources Engineering**

Water resources engineers analyze the availability and reliability of water sources and design reservoirs, distribution system, dams, water engineering structures, pump stations and other projects related to river and coastal engineering.

##### **(v) Transportation Engineering**

Transportation engineering is the application of technology and scientific principles to the planning, functional design, operation and management of facilities for any mode of transportation in order to provide safe, efficient, rapid, comfortable, convenient, economical and environmentally compatible for the movement of people and goods.

## CURRICULUM STRUCTURE

### YEAR 1 SEMESTER 1

CORE	KNF1013 Engineering Mathematics 1		3 credits
	KNS1022 Engineering Drawing		2 credits
	KNS1042 Civil Engineering Materials		2 credits
	KNS1451 Civil Engineering Laboratory 1		1 credit
	KNS1472 Civil Engineering Management		2 credits
	KNS1633 Engineering Mechanics		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	PBI1102 Academic English 1 (MUET 1-3 or IELTS 5.5) PBI1092 Academic English 2 (MUET 4-6 or IELTS 6) PBI1112 Preparatory English 1*		2 credits
	MPU3192 Appreciation of Ethics and Civilization MPU3142 Malay Language for Communication 2 (non-Malaysian)		2 credits
	PPD1041 Softskills and Basic Volunteerism		1 credit

### YEAR 1 SEMESTER 2

CORE	KNF1023 Engineering Mathematics 2	Pre-requisite: KNF1013	3 credits
	KNS1063 Strength of Materials	Requisite: KNS1633	3 credits
	KNS1073 Engineering Survey		3 credits
	KNS1102 Engineering Geology		2 credits
	KNS1461 Civil Engineering Laboratory 2		1 credit
	KNS1482 Engineering Programming		2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	PBI1072 English for Professional Communication (MUET 1-3 or IELTS 5.5) PBI1082 English for Occupational Purposes (MUET 4-6 or IELTS 6) PBI1122 Preparatory English 2*		2 credits
	MPU3432 / MPU3442 / MPU3452 / MPU3462 / MPU3472 / MPU3482 / MPU3492 / MPU34102 – Co-curricular		2 credits
	MPU3332 National Heritage / MPU3352 Government and Administration in Malaysia / MPU3362 Introduction to Organization Behaviour in Malaysia / MPU3372 Integrity and Anti-Corruption MPU3342 Culture and Ethnicity in Malaysia (non-Malaysian)		2 credits

### YEAR 2 SEMESTER 1

CORE	KNF2033 Engineering Mathematics 3	Pre-requisite: KNF1023	3 credits
	KNS2093 Theory of Structure	Requisite: KNS1063	3 credits
	KNS2113 Fluid Mechanics		3 credits
	KNS2123 Soil Mechanics		3 credits
	KNS2591 Civil Engineering Laboratory 3		1 credit
MPU, GENERIC, REMEDIAL, ELECTIVE	PBM2072 Bahasa Melayu PBM2082 Bahasa Melayu Komunikasi Lanjutan (non-Malaysian)		2 credits
	MPU3222 Foundation of Entrepreneurship Inculturation		2 credits
	PBI1102 Academic English 1(MUET 1-3 or IELTS 5.5) *		2 credits*

**YEAR 2 SEMESTER 2**

CORE	KNS2133 Structural Analysis	Pre-requisite: KNS2093	3 credits
	KNS2153 Hydraulics	Pre-requisite: KNS2113	3 credits
	KNS2163 Geotechnical Engineering	Pre-requisite: KNS2123	3 credits
	KNS2601 Civil Engineering Laboratory 4		1 credit
	KNS2723 Numerical Methods and Statistics		3 credit
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 01 – University Elective Course 1		3 credits
	MPU3182 Philosophy and Current Issues		2 credits
	PBI1072 English for Professional Communication (MUET 1-3 or IELTS 5.5)		2 credits*

**YEAR 3 SEMESTER 1**

CORE	KNS3143 Engineering Hydrology	Requisite: KNS2153	3 credits
	KNS3243 Foundation Engineering	Requisite: KNS2163	3 credits
	KNS3493 Highway Engineering		3 credits
	KNS3611 Civil Engineering Laboratory 5		1 credit
	KNS3742 Reinforced Concrete Design 1	Pre-requisite: KNS2133	2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 02 – University Elective Course 2		3 credits

**YEAR 3 SEMESTER 2**

CORE	KNS3233 Water and Wastewater Engineering		3 credits
	KNS3333 Construction Technology	Requisite: KNS1472	3 credits
	KNS3433 Traffic Engineering		3 credits
	KNS3621 Civil Engineering Laboratory 6		1 credit
	KNS3752 Reinforced Concrete Design 2	Pre-requisite: KNS3742	2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 03 – University Elective Course 3		3 credits

**YEAR 3 SEMESTER INTERSESSION**

CORE	KNF3065 Industrial Training		5 credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

**YEAR 4 SEMESTER 1**

CORE	KNS4193 Water Resources Engineering	Requisite: KNS3143	3 credits
	KNS4222 Final Year Project 1		2 credits
	KNS4442 Integrated Design Project 1	Requisite: KNS3243&KNS3753	2 credits
	KNS4713 Project Management		3 credits
	KNS4793 Steel Structural Design	Requisite: KNS2133	3 credits
	KNS4xx3 Elective 1		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

**YEAR 4 SEMESTER 2**

CORE	KNS4254 Final Year Project 2	Pre-requisite: KNS4222	4 credits
	KNS4343 Engineering Economics		3 credits
	KNS4673 Integrated Design Project 2	Pre-requisite: KNS4442	3 credits
	KNS4732 Ethics in Civil Engineering		2 credits
	KNS4xx3 Elective 2		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

TOTAL CREDITS FOR GRADUATION = 140 (144\*)

**PROGRAMME ELECTIVE COURSES**

KNS4313 Bridge Engineering  
 KNS4393 Hydraulics Structures  
 KNS4403 River and Coastal Engineering  
 KNS4423 Timber Engineering  
 KNS4503 Housing Technology  
 KNS4523 Energy Management  
 KNS4533 Concrete Technology  
 KNS4543 Geo-Environmental Engineering  
 KNS4553 Soil Dynamics  
 KNS4573 Urban Transportation System and Planning  
 KNS4583 Pre-stressed Concrete Design  
 KNS4683 Environmental Impact Assessment and Waste Management  
 KNS4763 Pavement Design, Construction and Maintenance  
 KNS4773 Introduction to Earthquake Engineering  
 KNS4783 Engineering Contract Management

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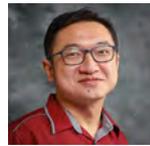
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## 1.0 PROGRAMME ESTABLISHMENT

Electrical and Electronics Engineering is an important professional field in Malaysia where it has been identified as the catalytic activities of public or private sector needs in electrical and electronics industries that can contribute to the national economy. With this programme, it is hoped that it can accommodate the shortage of professionals in this field.

## 2.0 PROGRAMME EDUCATIONAL OBJECTIVES

PEO 1	Apply Electrical and Electronics Engineering knowledge and skills at their respective career in globally competitive environment
PEO 2	Uphold the professionalism and ethics in engineering profession to contribute to the society
PEO 3	Practice leadership and management skills in workplace and/or society

## 3.0 PROGRAMME LEARNING OUTCOMES

Upon completion of this programme, the students are expected to :

PLO 1	Apply knowledge of mathematics, natural science, engineering fundamentals and an engineering specialization to the solution of complex Electrical & Electronics Engineering problems (WK1-WK4)
PLO 2	Identify, formulate, conduct research literature and analyse complex Electrical & Electronics Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences (WK1-WK4)
PLO 3	Design solutions for complex Electrical & Electronics Engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations (WK5)
PLO 4	Conduct investigation of complex Electrical & Electronics Engineering problems using research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions (WK8)
PLO 5	Create, select and apply appropriate techniques, resources, and modern engineering and IT Tools, including prediction and modelling, to complex Electrical & Electronics Engineering problems, with an understanding of the limitations (WK6)
PLO 6	Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional Electrical & Electronics Engineering practice and solutions to complex Electrical & Electronics Engineering problems (WK7)
PLO 7	Understand and evaluate the sustainability and impact of professional Electrical & Electronics Engineering work in the solutions of complex engineering problems in societal and environmental contexts. (WK7)
PLO 8	Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice (WK7)

PLO 9	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
PLO 10	Function effectively as an individual, and as a member or leader in diverse teams and multi-disciplinary settings
PLO 11	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change
PLO 12	Demonstrate knowledge and understanding of engineering management principles and economic decision making and apply these to one's own work, as a member and leader in a team, to manage projects in multidisciplinary environments and to cultivate entrepreneurship skills

#### 4.0 CONCEPT OF PROGRAMME

Sarawak State Government has announced a new economic corridor, Sarawak Corridor of Renewable Energy (SCORE) which is based along the coast from Tanjung Manis to Samalaju. UNIMAS as a center of research and development of human resource in the country, has been called to intensify the human capital development especially in the field of electrical and electronics engineering to accommodate skilled workers and professionals. Electrical and Electronics Engineering programme is offered in order to produce graduates that meet the needs of manpower in power generation sector, power distribution and transmission sector, and other sectors in the field of Electrical and Electronic Engineering.

### CURRICULUM STRUCTURE

#### YEAR 1 SEMESTER 1

CORE	KNR1723 Circuit Theory 1		3 credits
	KNR1073 Electrical Instrumentation		3 credits
	KNR1743 Object Oriented Programming		3 credits
	KNF1013 Engineering Mathematics 1		3 credits
	KNR1042 Measurement and Instrumentation		2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	PBI1102 Academic English 1 (MUET 1-3 or IELTS 5.5)		2 credits
	PBI1092 Academic English 2 (MUET 4-6 or IELTS 6)		
	PBI1112 Preparatory English 1*		
	PBM2072 Bahasa Melayu PBM2082 Bahasa Melayu Komunikasi Lanjutan (non-Malaysian)		2 credits
	PPD1041 Softskills and Basic Volunteerism		1 credit

#### YEAR 1 SEMESTER 2

CORE	KNR1733 Circuit Theory 2		3 credits
	KNR1063 Digital Electronics		3 credits
	KNR1053 Analog Electronics		3 credits
	KNF1023 Engineering Mathematics 2	Pre-requisite: KNF1013	3 credits
	KNR1082 Engineering Design Foundation		2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	PBI1072 English for Professional Communication (MUET 1-3 or IELTS 5.5)		2 credits
	PBI1082 English for Occupational Purposes (MUET 4-6 or IELTS 6)		
	PBI1122 Preparatory English 2*		
	MPU3432 / MPU3442 / MPU3452 / MPU3462 / MPU3472 / MPU3482 / MPU3492 / MPU34102 – Co-curricular		2 credits

**YEAR 2 SEMESTER 1**

CORE	KNR2113 Signals & Systems		3 credits
	KNR2463 Safety and Health in Engineering		3 credits
	KNR2443 Electrical Engineering Technology		3 credits
	KNF2033 Engineering Mathematics 3	Pre-requisite: KNF1023	3 credits
	KNR2452 Analog and Digital Electronic Application		2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	MPU3192 Appreciation of Ethics and Civilization MPU3142 Malay Language for Communication 2 (non-Malaysian)		2 credits
	MPU3222 Foundation of Entrepreneurship Inculturation		2 credits

**YEAR 2 SEMESTER 2**

CORE	KNR2103 Telecommunication Engineering Principles		3 credits
	KNR2153 Electrical Machines		3 credits
	KNR2433 Electromagnetic Theory		3 credits
	KNR2473 Numerical Methods and Statistics	Pre-requisite: KNF2033	3 credits
	KNR2753 Computer Systems Architecture		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	MPU3182 Philosophy and Current Issues		2 credits
	MPU3332 National Heritage / MPU3352 Government and Administration in Malaysia / MPU3362 Introduction to Organization Behaviour in Malaysia / MPU3372 Integrity and Anti-Corruption MPU3342 Culture and Ethnicity in Malaysia (non-Malaysian)		2 credits

**YEAR 3 SEMESTER 1**

CORE	KNR3183 Control System Engineering		3 credits
	KNR3193 Microprocessor		3 credits
	KNR3233 Electrical Power System		3 credits
	KNR3492 Electrical Laboratory 1		2 credits
	KNF3102 Engineering Ethics		2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 01 - University Elective Course 1		3 credits
	PBI1102 Academic English I *		2 credits *

**YEAR 3 SEMESTER 2**

CORE	KNR3243 Power Electronics		3 credits
	KNR3483 Power Quality and Reliability		3 credits
	KNR3522 Electrical Laboratory 2		2 credits
	KNR3762 Integrated Design Project 1		2 credits
	KNR3xx3 Elective 1		3 credits
	KNR3xx3 Elective 2		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	PBI1082 English for Occupational Purposes *		2 credits *

**YEAR 3 SEMESTER INTERSESSION**

CORE	KNF3065 Industrial Training		5 credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

**YEAR 4 SEMESTER 1**

CORE	KNR4553 Engineering Management		3 credits
	KNR4272 Final Year Project 1	Pre-requisite: KNR4272	2 credits
	KNR4543 Integrated Design Project 2	Pre-requisite: KNR3762	3 credits
	KNR4xx3 Elective		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 02 - University Elective Course 2		3 credits

**YEAR 4 SEMESTER 2**

CORE	KNR4593 High Voltage Technology		3 credits
	KNR4344 Final Year Project 2		4 credits
	KNR4xx3 Elective		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 03 - University Elective Course 3		3 credits

TOTAL CREDITS FOR GRADUATION = 138 (142\*)

**PROGRAMME ELECTIVE COURSES**

**3<sup>rd</sup> YEAR**

**(ELECTRICAL OPTIONS)**

KNR3503 Power System Protection  
KNR3513 Power System Analysis

**(ELECTRONIC OPTIONS)**

KNR3693 Digital Signal Processing  
KNR3703 Microelectronics

**4<sup>th</sup> YEAR**

**(POWER)**

KNR4303 Renewable Energy Technology  
KNR4373 Energy Economics and Planning  
KNR4603 High Power Transmission and Distribution

**(TELECOMMUNICATION)**

KNR4653 Optical Fiber Communication  
KNR4663 Wireless Telecommunication System  
KNR4673 Microwave and Antenna Technology  
KNR4683 Data and Computer Networking

**(COMPUTER)**

KNR4613 VLSI Design  
KNR4623 Embedded System Design  
KNR4633 Machine Learning  
KNR4643 Image Processing

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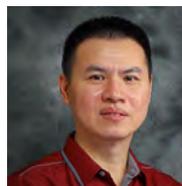
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## 1.0 PROGRAMME ESTABLISHMENT

Work force in the field of Mechanical and Manufacturing Engineering is extremely required. This is in accordance with its position as one of the oldest, biggest and widest field of studies in developed countries. This field of engineering covers a wide scope of specialization, including energy and petroleum, materials research, systems designs, fluid mechanics research and manufacturing. These research areas are important for the development of industries and technologies. Malaysia as a developing nation requires graduates in the field of Mechanical and Manufacturing Engineering to ensure continuous development to achieve a strong economic and industrial growth in the future.

This programme aims to produce graduates who are capable of facing challenges and changes in science and technology, with critical thinking and higher problem solving skills. This programme also aims to equip graduates with attributes that include professionalism, ethics and moral values; in addition to the graduates capable of applying engineering knowledge. Finally, this programme aims to produce graduates with leadership skills, proactive and sensitive to society's needs and forward looking in order to support nation's growth through research and development.

## 2.0 PROGRAMME EDUCATIONAL OBJECTIVES

PEO 1	Uphold the professionalism and ethics of the Mechanical and Manufacturing Engineering profession in national and/or international area
PEO 2	Enhance knowledge by practicing independence and lifelong learning in order to contribute to the advancement of the profession through involvement in research and development activities
PEO 3	Promote multicultural harmony and unity amongst different races and cultures through involvement in the technical and/or non-technical societies

## 3.0 PROGRAMME LEARNING OUTCOMES

Upon completion of this programme, the students are expected to :

PLO 1	Apply knowledge of mathematics, natural science, engineering fundamentals and an engineering specialisation to the solution of complex Mechanical and Manufacturing Engineering problems. (WK1-WK4)
PLO 2	Identify, formulate and analyse complex Mechanical and Manufacturing Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences. (WK1-WK4)
PLO 3	Design solutions for complex Mechanical and Manufacturing Engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations. (WK5)
PLO 4	Conduct investigation of complex Mechanical and Manufacturing Engineering problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions (WK8)
PLO 5	Create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex Mechanical and Manufacturing Engineering problems, with an understanding of the limitations. (WK6)

PLO 6	Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional Mechanical and Manufacturing Engineering practice and solutions to complex Mechanical and Manufacturing Engineering problems. (WK7)
PLO 7	Understand and evaluate the sustainability and impact of professional Mechanical and Manufacturing Engineering work in the solutions of complex Mechanical and Manufacturing Engineering problems in societal and environmental contexts. (WK7)
PLO 8	Apply ethical principles and commit to professional ethics and responsibilities and norms of Mechanical and Manufacturing Engineering practice. (WK7)
PLO 9	Communicate effectively on complex Mechanical and Manufacturing Engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PLO 10	Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
PLO 11	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change
PLO 12	Demonstrate knowledge and understanding of engineering management principles and economic decision making and apply these to one's own work, as a member and leader in a team, to manage projects in multidisciplinary environment.

#### 4.0 CONCEPT OF PROGRAMME

The department offers programme in Mechanical Engineering including elements of Manufacturing Engineering which equips engineers in the following fields:

##### (i) Mechanical Engineering

Careers as Mechanical Engineer are diverse which includes conducting research, giving advice and designing machineries, plants and industrial equipment. They are also responsible for the development of industrial systems, ensuring that the systems function, as well as maintaining the systems. Mechanical Engineers also conduct research and give consultations on materials' technology and processes, as well as certain maintenance procedures. Mechanical engineers could practice in sectors that include technology, manufacturing and process, mechanical system design, metal fabrication, rubber and plastic, automotive, electrical and electronic and oil and gas.

Careers as Manufacturing Engineer are also diverse and highly demanded by the manufacturing industry. Manufacturing Engineers have a high level of technical expertise and skills, which they utilize to plan, design, setup, modify, optimize and monitor manufacturing processes. Amongst others, a Manufacturing Engineer could work in quality planning and control section, industrial safety, maintenance or design new systems and processes in local or international companies.

## CURRICULUM STRUCTURE

### YEAR 1 SEMESTER 1

CORE	KNJ1013 Statics		3 credits
	KNJ1072 Engineering Drawing		2 credits
	KNJ1033 Thermodynamics 1		3 credits
	KNP1091 Workshop Practice		1 credit
	KNJ1433 Engineering Materials		3 credits
	KNF1013 Engineering Mathematics 1		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	PBI1102 Academic English 1 (MUET 1-3 or IELTS 5.5)		2 credits
	PBI1092 Academic English 2 (MUET 4-6 or IELTS 6)		
	PBI1112 Preparatory English 1*		
	MPU3192 Appreciation of Ethics and Civilization MPU3142 Malay Language for Communication 2 (non-Malaysian)		2 credits
	PPD1041 Soft skills and Basic Volunteerism		1 credit

### YEAR 1 SEMESTER 2

CORE	KNJ1023 Dynamics	Pre-requisite: KNJ1013	3 credits
	KNJ1083 Solid Mechanics 1	Pre-requisite: KNJ1013	3 credits
	KNJ1231 Engineering Laboratory 1		1 credit
	KNJ1053 Fluid Mechanics 1		3 credits
	KNF1023 Engineering Mathematics 2	Pre-requisite: KNF1013	3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	PBI1072 English for Professional Communication (MUET 1-3 or IELTS 5.5)		2 credits
	PBI1082 English for Occupational Purposes (MUET 4-6 or IELTS 6)		
	PBI1122 Preparatory English 2*		
	MPU3182 Philosophy and Current Issues		2 credits
	PBM2072 Bahasa Melayu PBM2082 Bahasa Melayu Komunikasi Lanjutan (non-Malaysian)		2 credits

### YEAR 2 SEMESTER 1

CORE	KNJ2133 Solid Mechanics 2	**Requisite: KNJ1083	3 credits
	KNJ2093 Thermodynamics 2	Requisite: KNJ1033	3 credits
	KNJ2472 Electrical Engineering Technology		2 credits
	KNJ2511 Engineering Laboratory 2	Requisite: KNJ1023 & KNJ1083	1 credit
	KNF2033 Engineering Mathematics 3	Pre-requisite: KNF1023	3 credits
	KNJ2222 Analysis of Mechanics and Machines	Requisite: KNJ1023	2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	MPU3222 Foundation of Entrepreneurship Inculturation		2 credits
	KEU 01 - University Elective Course 1		3 credits

**YEAR 2 SEMESTER 2**

CORE	KNP2013 Manufacturing Technology		3 credits
	KNJ2103 Fluid Mechanics 2	Requisite: KNJ1053	3 credits
	KNJ2251 Engineering Laboratory 3	Requisite: KNJ2093	1 credit
	KNJ2523 Heat Transfer	Requisite: KNJ2093	3 credits
	KNJ2463 Electronics and Microprocessors		3 credits
	KNJ2332 Engineering Programming		2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	MPU3432 / MPU3442 / MPU3452 / MPU3462 / MPU3472 / MPU3482 / MPU3492 / MPU34102 – Co-curricular		2 credits
	MPU3332 National Heritage / MPU3352 Government and Administration in Malaysia / MPU3362 Introduction to Organization Behaviour in Malaysia / MPU3372 Integrity and Anti-Corruption MPU3342 Culture and Ethnicity in Malaysia (non-Malaysian)		2 credits

**YEAR 3 SEMESTER 1**

CORE	KNP3053 Manufacturing System	Requisite: KNP2013	3 credits
	KNF3102 Engineering Ethics		2 credits
	KNJ3423 Engineering Economy & Finance		3 credits
	KNP3483 Engineering Design 1	Requisite: KNJ1072 & KNJ2133	3 credits
	KNJ3543 Instrumentation and Measurement		3 credits
	KNJ3531 Engineering Laboratory 4	Requisite: KNJ2103	1 credit
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 02 – University Elective Course 2		3 credits
	PBI1102 Academic English I *		2 credits *

**YEAR 3 SEMESTER 2**

CORE	KNJ3373 Finite Element Analysis (FEA)		3 credits
	KNP3063 Robotics and Automation		3 credits
	KNJ3553 Mechanical Vibration	Requisite: KNJ3543	3 credits
	KNP3493 Engineering Design 2	Pre-requisite: KNP3483	3 credits
	KNJ3562 Numerical Methods	Requisite: KNF2033 & KNJ2332	2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 03 – University Elective Course 3		3 credits
	PBI1072 English for Professional Communication *		2 credits *

**YEAR 3 SEMESTER INTERSESSION**

CORE	KNF3065 Industrial Training		5 credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

**YEAR 4 SEMESTER 1**

CORE	KNJ4192 Final Year Project 1		2 credits
	KNP4414 Integrated Design	Requisite: KNP3493	4 credits
	KNP4073 Advanced Manufacturing Systems	Requisite: KNP3053	3 credits
	KNJ4573 Control Engineering	Requisite: KNJ3543	3 credits
	KNJ4xx2 Elective A		2credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

CORE	KNJ4214 Final Year Project 2	Pre-requisite: KNJ4192	4 credits
	KNP4083 Quality Control & Reliability		3 credits
	KNP4443 Engineering Management		3 credits
	KNJ4xx2 Elective B		2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

TOTAL CREDITS FOR GRADUATION = 143 (147\*)

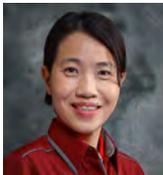
<b>PROGRAMME ELECTIVE COURSES</b>	
KNJ4302 Computational Fluid Dynamics	Requisite: KNJ1033 & KNJ2103
KNP4042 Energy Resources and Management	Requisite: KNJ1033 & KNP2013
KNJ4392 Polymer and Composite	Requisite: KNJ1433
KNJ4582 Engineering Statistics	
KNP4592 Manufacturing Modeling and Simulation	
KNJ4312 Tribology	
KNJ4322 Internal Combustion Engine	Requisite: KNJ2093
KNP4342 Operations Research	Requisite: KNJ3423
KNP4602 Manufacturing Systems Analysis	Requisite: KNP3053
KNP4612 Remanufacturing Operations and Management	

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## 1.0 PROGRAMME ESTABLISHMENT

This programme offers chemical engineering courses which are focusing more on the specialization in energy engineering application and natural resources which are abundance in our country. Natural resources such as oil, gas, fossil, agricultural products biochemistry as well as renewable energy have the potential to be utilized and developed for the benefit of the country. In order to solve the problems in energy management and pollution which is related to these natural resources processes namely air, water and environmental pollution, require the latest knowledge in engineering. In line with country rapid development, more chemical engineers are needed to cater for the inadequacy of this profession.

## 2.0 PROGRAMME EDUCATIONAL OBJECTIVES

The goal of this programme is to produce future engineer who is skillful, efficient and high caliber based on the department programme objectives as follows:

PEO 1	Graduates are able to apply engineering knowledge at their respective career.
PEO 2	Graduates are able to pursue their career in national and multinational organisations.
PEO 3	Graduates are competent to explore, utilise and diversify natural resources sustainably.
PEO 4	Graduates utilise engineering tools and skills necessary to perform job as professional in their workplace.

## 3.0 PROGRAMME LEARNING OUTCOMES

Upon completion of this programme, the students are expected to :

PLO 1	Apply knowledge of mathematics, natural science, engineering fundamentals and an engineering specialization to the solution of complex Chemical Engineering problems (WK1-WK4)
PLO 2	Identify, formulate, conduct research literature and analyse complex Chemical Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences (WK1-WK4)
PLO 3	Design solutions for complex Chemical Engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations (WK5)
PLO 4	Conduct investigation of complex Chemical Engineering problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions (WK8)
PLO 5	Create, select and apply appropriate techniques, resources and modern engineering and IT tools, including prediction and modelling, to complex Chemical Engineering problems, with an understanding of the limitations (WK6)
PLO 6	Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problems (WK7)
PLO 7	Understand and evaluate the sustainability and impact of professional engineering work in the solutions of complex engineering problems in societal and environmental contexts (WK7)
PLO 8	Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice (WK7)

PLO 9	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
PLO 10	Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings
PLO 11	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change
PLO 12	Demonstrate knowledge and understanding of engineering management principles and economic decision making and apply these to one's own work, as a member and leader in a team, to manage projects in multidisciplinary environments and to cultivate entrepreneurship skills

#### 4.0 CONCEPT OF PROGRAMME

This programme offers specialization in chemical engineering field. Chemical Engineering is an important professional field which has been acknowledged as the catalyst to the public and private sector activities or to the needs of the chemical industry sectors which contributes to the economy of the country.

### CURRICULUM STRUCTURE

#### YEAR 1 SEMESTER 1

CORE	KNC1013 Fluid Mechanics		3 credits
	KNC1023 Engineering Physical Chemistry		3 credits
	KNC1032 Engineering Drawing		2 credits
	KNC1041 Workshop Practice		1 credit
	KNC1472 Introduction to Chemical Engineering		2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KNC1482 Engineering Mathematics 1		2 credits
	PBI1102 Academic English 1 (MUET 1-3 or IELTS 5.5)		2 credits
	PBI1092 Academic English 2 (MUET 4-6 or IELTS 6)		
	PBI1112 Preparatory English 1*		
	MPU3192 Appreciation of Ethics and Civilization MPU3142 Malay Language for Communication 2 (non-Malaysian)		2 credits
PPD1041 Softskills and Basic Volunteerism		1 credit	

#### YEAR 1 SEMESTER 2

CORE	KNC1052 Engineering Programming		2 credits
	KNC1063 Engineering Organic Chemistry		3 credits
	KNC1073 Thermodynamics 1		3 credits
	KNC1101 Chemical Engineering Laboratory 1		1 credit
	KNC1492 Engineering Mathematics 2	Pre-req:: KNC1482	2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KNC1503 Mass Balance		3 credits
	PBI1072 English for Professional Communication (MUET 1-3 or IELTS 5.5)		2 credits
	PBI1082 English for Occupational Purposes (MUET 4-6 or IELTS 6)		
	PBI1122 Preparatory English 2*		
MPU, GENERIC, REMEDIAL, ELECTIVE	MPU3432 / MPU3442 / MPU3452 / MPU3462 / MPU3472 / MPU3482 / MPU3492 / MPU34102 - Co- curricular		2 credits
	PBM2072 Bahasa Melayu PBM2082 Bahasa Melayu Komunikasi Lanjutan (non-Malaysian)		2 credits

**YEAR 2 SEMESTER 1**

CORE	KNC2113 Thermodynamic 2	Requisite: KNC1073	3 credits
	KNC2123 Heat and Mass Transfer		3 credits
	KNC2133 Analytical Chemistry		3 credits
	KNC2141 Chemical Engineering Laboratory 2		1 credit
	KNC2513 Energy Balance	Requisite : KNC1503	3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 01 - University Elective Course 1		3 credits
	MPU3222 Foundation of Entrepreneurship Inculturation		2 credits
	PBI1102 Academic English 1 (MUET 1-3 or IELTS 5.5) *		2 credits *

**YEAR 2 SEMESTER 2**

CORE	KNC2093 Material and Polymer Engineering		3 credits
	KNC2153 Transport Process		3 credits
	KNC2443 Numerical Methods and Statistics	Pre-req: KNC1492	3 credits
	KNC2462 Process Instrumentation		2 credits
	KNC2523 Unit Operations 1		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	MPU3182 Philosophy and Current Issues		2 credits
	MPU3332 National Heritage / MPU3352 Government and Administration in Malaysia / MPU3362 Introduction to Organization Behaviour in Malaysia / MPU3372 Integrity and Anti-Corruption MPU3342 Culture and Ethnicity in Malaysia (non-Malaysian)		2 credits
	072 English for Professional Communication (MUET 1-3 or IELTS 5.5)		2 credits *

**YEAR 3 SEMESTER 1**

CORE	KNC3181 Chemical Engineering Laboratory 3		1 credit
	KNC3203 Chemical Reaction Process		3 credits
	KNC3213 Process Control System	Requisite : KNC2462	3 credits
	KNC3453 Engineering Management		3 credits
	KNC3533 Unit Operations 2		3 credits
	KNF3102 Engineering Ethics		2 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 02 - University Elective Course 2		3 credits

**YEAR 3 SEMESTER 2**

CORE	KNC3221 Chemical Engineering Laboratory 4		1 credit
	KNC3262 Engineering Economics		2 credits
	KNC3413 Process Integration and Optimisation		3 credits
	KNC3543 Occupational Safety and Health		3 credits
	KNC3553 Integrated Design Project 1		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE	KEU 03 - University Elective Course 3		3 credits

**YEAR 3 SEMESTER INTERSESSION**

CORE	KNF3065 Industrial Training		5 credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

**YEAR 4 SEMESTER 1**

CORE	KNC4233 Environmental Engineering		3 credits
	KNC4283 Energy Resources and Applications		3 credits
	KNC4312 Energy and Environmental Management		2 credits
	KNC4322 Final Year Project 1		2 credits
	KNC4564 Integrated Design Project 2	Pre-req: KNC3553	4 credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

**YEAR 4 SEMESTER 2**

CORE	KNC4293 Quality Control & Reliability		3 credits
	KNC4344 Final Year Project 2	Pre-req: KNC4322	4 credits
	KNC4xx3 Elective 1		3 credits
	KNC4xx3 Elective 2		3 credits
MPU, GENERIC, REMEDIAL, ELECTIVE			

TOTAL CREDITS FOR GRADUATION = 139 (143\*)

**PROGRAMME ELECTIVE COURSES**

KNC4333 Polymer for Engineering Application  
KNC4353 Biodiesel and Fuel Cell for Transportation  
KNC4383 Natural Gas Engineering  
KNC4393 Sustainability in Energy Industry  
KNC4423 Multiphase Systems  
KNC4363 Bio-Energy  
KNC4373 Water and Wastewater Treatment Engineering  
KNC4403 Processing Technology in Industry  
KNC4433 Fundamental Rheology

## MPU COURSES

MPU-U1	MPU3192 Appreciation of Ethics and Civilizations (for Malaysian) MPU3142 Malay Language for Communication 2 (for non-Malaysian)
	MPU3182 Philosophy and Current Issues
MPU-U2	MPU3222 Foundation of Entrepreneurship Inculturation
MPU-U3	MPU3332 National Heritage (for Malaysian) / MPU3352 Government and Administration in Malaysia / MPU3362 Introduction to Organization Behaviour in Malaysia / MPU3372 Integrity and Anti-Corruption  MPU3342 Culture and Ethnicity in Malaysia (for non-Malaysian)
MPU-U4	MPU3432 Credited Co-curricular (Initiative and Innovation)
	MPU3442 Credited Co-curricular (Culture)
	MPU3452 Credited Co-curricular (Leadership)
	MPU3462 Credited Co-curricular (Volunteerism)
	MPU3472 Credited Co-curricular (Entrepreneurship)
	MPU3482 Credited Co-curricular (Community Service)
	MPU3492 Credited Co-curricular (Sports)
	MPU34102 Credited Co-curricular (Public Speaking) Uniformed Bodies

## KEU - UNIVERSITY ELECTIVE COURSES

FACULTY	COURSE CODE & NAME	SEMESTER OFFERED
FACULTY OF SOCIAL SCIENCES & HUMANITIES	SSU1013 Basics of Social Science	SEM 1 & 2
	SSU1023 Basics of Anthropology and Sociology	SEM 1 & 2
	SSU1033 Introduction to Psychology	SEM 1 & 2
	SSU1053 Introduction to Social Interaction	SEM 1 & 2
FACULTY OF APPLIED AND CREATIVE ARTS	GKU1013 Modern Malay Drama and Theatre of Malaysia	SEM 1
	GKU1033 Digital Photography and Social Media Imaging	SEM 1
	GKU1043 History of Malaysian Cinema	SEM 1
	GKU1053 History of Drama and Theater	SEM 2
	GKU1063 Introduction to Basic Music	SEM 2
	GKU1083 Introduction to Stage Directing	SEM 2
	GKU1093 Basic Figure Drawing	SEM 1
FACULTY OF BUILT ENVIRONMENT	BEU1013 Building Anatomy and Basic Estimating	SEM 1
	BEU1023 Creative Sketches	SEM 1
	BEU1033 Fundamentals of the Built Environment	SEM 2
FACULTY OF ENGINEERING	KNU1013 Introduction to Green Technology	SEM 1
	KNU 1033 Energy, Environment and Society	SEM 1
	KNU1073 Introduction to Solar Photovoltaic System	SEM 1
	KNU 1053 Safety Management in Workplace	SEM 2
	KNU1023 Engineers in Society	SEM 2
	KNU1103 Introduction to Hydro Power System	SEM 2
	KNU1093 Water Resources in Community Development	SEM 1 & 2

FACULTY	COURSE CODE & NAME	SEMESTER OFFERED
FACULTY OF RESOURCE SCIENCE AND TECHNOLOGY	STU1033 Aquatic Science and Daily Life	SEM 1 & 2
	STU1013 Introduction to Biotechnology	SEM 1 & 2
	STU1043 Introduction to Plant Physiology	SEM 1 & 2
	STU2063 Ecotourism Industry in Malaysia	SEM 1 & 2
	STU2073 Natural Resource Managements	SEM 1 & 2
FACULTY OF MEDICINE AND HEALTH SCIENCES	MDU 1123 Introduction to Learning Disabilities	SEM 1
	MDU 1033 Healthy Lifestyle	SEM 1
	MDU 1073 Introduction to Biomedical Physiology	SEM 1
	MDU 1043 Introduction to Medical Entomology	SEM 2
	MDU 1013 Basic First Aid	SEM 2
	MDU 1023 Introduction to Medical Genetics	SEM 2
	MDU 1083 Introduction to Health and Behaviour	SEM 1 & 2
FACULTY OF COGNITIVE SCIENCES AND HUMAN DEVELOPMENT	KMU1063 Introduction to Mental Health	SEM 1
	KMU1053 Theories and Concepts: Human Computer Interaction	SEM 1
	KMU1023 Introduction to Human Resource Development	SEM 2
	KMU1013 Helping Relationship	SEM 1 & 2
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	TMU1013 Introduction to Computer Technologies	SEM 1 & 2
	TMU1023 Ethics in Information Technology	SEM 1 & 2
	TMU1043 Multimedia Technology	SEM 1 & 2
	TMU1053 Mathematics in Daily Life	SEM 1 & 2
FACULTY OF ECONOMICS AND BUSINESS	EBU1063 Smart Money Management	SEM 1 & 2
	EBU 2043 Introduction to Intellectual Property	SEM 1 & 2
	EBU 1023 Managing Small Business Accounts	SEM 1 & 2
	EBU 1053 Online Business Management	SEM 1 & 2
	EBU1033 Malaysian Economics Environments	SEM 1 & 2
FACULTY OF LANGUAGE AND COMMUNICATION	PBU1133 Arabic Language Level 1	SEM 1 & 2
	PBU2143 Arabic Language Level 2	SEM 1 & 2
	PBU3153 Arabic Level 3	SEM 1 & 2
	PBU1043 Japanese Language Level 1	SEM 1 & 2
	PBU2053 Japanese Language Level 2	SEM 1 & 2
	PBU3063 Japanese Level 3	SEM 1 & 2
	PBU1073 French Level 1	SEM 1 & 2
	PBU2083 French Level 2	SEM 1 & 2
	PBU3093 French Level 3	SEM 1 & 2
	PBU1103 Mandarin Level 1	SEM 1 & 2
	PBU2113 Mandarin Level 2	SEM 1 & 2
	PBU3123 Mandarin Level 3	SEM 1 & 2
	PBU0033 Iban Language for Communication	SEM 1 & 2

## ENGLISH COURSES – INTENSIVE LANGUAGE PROGRAMME (ILP) INTERNATIONAL STUDENTS

Grade C+ and C	PBI1112 Preparatory English I (Compulsory Remedial English for Band 1&2) PBI1122 Preparatory English II (Compulsory Remedial English for Band 1&2) * prerequisite for PBI1102 & PBI1072
Grade B+	PBI1102 Academic English I PBI1072 English for Professional Communication
Grade A and A-	PBI1092 Academic English 2 PBI1082 English for Occupational Purposes

## ENGLISH COURSES – IELTS INTERNATIONAL STUDENTS

Band 5 and below	PBI1112 Preparatory English I (Compulsory Remedial English for Band 1&2) PBI1122 Preparatory English II (Compulsory Remedial English for Band 1&2) * prerequisite for PBI1102 & PBI1072
Band 5.5 – 6.5	PBI1102 Academic English I PBI1072 English for Professional Communication
Band 7 and above	PBI1092 Academic English 2 PBI1082 English for Occupational Purposes

## UNIFORMED BODIES

CODE	COURSE NAME
PPA1041	Military Training 1
PPA1051	Military Training 2
PPA2061	Military Training 3
PPA2071	Military Training 4
PPA3081	Military Training 5
PPA3091	Military Training 6
PPB1011	Airforce Training 1
PPB1021	Airforce Training 2
PPB2031	Airforce Training 3
PPB2041	Airforce Training 4
PPB3051	Airforce Training 5
PPB3061	Airforce Training 6
PPJ1041	Civil Defence Training 1
PPJ1051	Civil Defence Training 2
PPJ2061	Civil Defence Training 3
PPJ2071	Civil Defence Training 4
PPJ3081	Civil Defence Training 5
PPJ3091	Civil Defence Training 6
PPP1041	Police Training 1
PPP1051	Police Training 2
PPP2061	Police Training 3
PPP2071	Police Training 4
PPP3081	Police Training 5
PPP3091	Police Training 6

# **ATTACHMENTS**

**1. TRANSFER OF CREDIT WITHOUT GRADE**

1.1 Upon Faculty approval, student may apply transfer of credit without grade, subjected to the following general regulation:

- a) Minimum passing grade requirement for the requested course for transfer of credit is Grade C

For academic programs bound to a professional body, the transfer is subjected to the set standards of the affected professional body;

- b) The result to be used for the transfer of credit without grade must be obtained within the recent five (5) years;
- c) The course content equivalent must not be less than 80% similar;
- d) The allowed course content to be equated must be not more than two courses if to be combined, and the total credit without grade must be not less than the course credit value to be equated;
- e) The course credit value for the previous programme must be the same if not more than the current registered programme course credit value; and
- f) The course applied for the transfer of credit must be part of a Certified Accreditation academic programme recognised by MQA.

1.2 Vertical transfer of credit without grade for a qualified Diploma to Bachelor's Degree with a maximum transfer of 50% from the total registered programme is subjected as follows:

<b>Transfer of Credit Percentage (%)</b>	<b>Course Minimum Grade</b>
1 to 30	Grade C
31 to 50	Grade B

For academic programmes bound to professional body, the limit for transfer of credit without grade is subjected to the set standards of the affected professional body.

1.3 Transfer of credit without grade will not be allowed in the event of the following cases:

- a) All courses in a Foundation/ Matriculation level to a Bachelor's Degree programme.
- b) Industrial Training is not eligible for transfer of credit.
- c) General Education Subject courses (MPU) at a Diploma level except for the following courses under U1 MPU cluster:

- i) Philosophy and Current Issue/ Falsafah dan Isu Semasa
- ii) Ethical Appreciation and Civilisation/ Penghayatan Etika dan Peradaban

Students are only allowed to apply for transfer of credit ONCE within the duration of studies. In the case where the student has transferred the credit for an MPU course during Diploma level and continued their studies to a Bachelor's Degree level, the student is given exemption from taking the course and is required to take a different course in order to fulfill the total credit hour requirement to graduate.

Any mismatch in the credit value offered by the IHL/ IPT under the U1 Cluster may be replaced where the student may undertake any courses under the U3 or U4 Cluster in order to fulfil the total credit hours to graduate. Undertaking of Cluster U3 and U4 to fulfil the total credit hours to graduate is as stated in Attachment 1 - Schedule 1: MPU Courses Session 2020/2021 BACHELOR'S DEGREE Level (Overall Total Credit: 10) affective Semester 1, Session 2021/2022.

## **2. TRANSFER OF CREDIT WITH GRADE**

2.1 Subjected to approval from Faculty/ Centre, Transfer of Credit with Grade by student, will only be allowed for the following situation:

- a) For students currently undertaking programmes in UNIMAS:
  - i. Student switching study programme in UNIMAS.
  - ii. Student undertaking the mobility programme.
- b) For students currently undertaking programmes at other IHL:
  - i. Students from other IHL who are continuing their studies in UNIMAS at the same level and programme.
  - ii. Students from other IHL who are continuing their studies in UNIMAS at the same level but a different programme.

2.2 For Transfer of Credit Application, the following general regulation must be complied:

- a) The minimum grade requirement for the requested course for transfer of credit is Grade C;
- b) The course content equivalent must not be less than 80%;
- c) The allowed course content to be equated must be not more than two courses if to be combined, and the total credit without grade must be not less than the course credit value to be equated;

For the Medical Programme, the student must obtain the approval for transfer of credit with grade from the related professional body.

- d) The result to be used for the transfer of credit without grade must be obtained within the recent five (5) years;
- e) The course credit value for the previous programme must be the same if not more than the current registered programme course credit value;

- f) The course applied for the transfer of credit must be part of a Certified Accreditation academic programme recognised by MQA;
  - g) For University Elective Courses, transfer of credit with grade will only be considered if the said course is part of the listed University Elective courses under a different cluster/ programme from the the student's programme; and
  - h) Students who switch universities , therefore the transfer of credit is subjected to the student residential year regulation , at least after a year of undertaking the programme at UNIMAS.
- 2.3 No limit of credit transfer is set, except for academic programmes accredited by professional bodies, in which the limit for transfer of credit is subjected to the standards set by the mentioned professional bodies.
- 2.4 Grade obtained by the previous course is given to the approved course for transfer of credit. The grade is then used for the calculation of CGPA of the affected student following course of studies.
- 2.5 Transfer of Credit with Grade IS NOT ALLOWED for students who have been dismissed from their studies due to academic failure and thenceforth continuing their studies in a different programme.

### 3. PROGRAMME ACCUMULATED CREDIT

- 3.1 All students must undertake the following remedial courses:
- a) Credited Co-Curriculum Course (For 2019/2020 intake and below)
  - b) Soft Skill and Basic Entrepreneurship course
  - c) Preparatory English Course 1 and Preparatory English Course 2 for students with MUET Band 2
  - d) For students undertaking any uniform body courses by fulfilling the Uniform Body Course training 1, 2 and 3 with a total of three (3) credit are exempted from taking Soft Skills and Basic Entrepreneurship, and Credited Co-Curriculum Course. Students may opt to continue their Uniform Body training 4, 5 and 6 in order to qualify them for commissioning. However, students who do not fulfil the three (3) credit hours must undertake either one of the following; Soft Skills, Basic Entrepreneurship, or Credited Co-Curriculum Course.
- 3.2 Scoring and grade will be awarded to all listed courses mentioned above except for Soft Skills and Basic Entrepreneurship which are graded with a Pass/Fail.

### 4. ASSESSMENT SYSTEM

- 4.1 In the event where a student failed to undertake the final examination of a course, the scoring of marks for the overall course will still take into account the carrymark and final examination mark.
- 4.2 The Schedule of Grade and Grade Value applicable to all **Core Courses** for all programmes at **Faculty of Engineering** are as follows:

Grade	Score Range	Grade Point	Core Course Achievement Standards
A	80-100	4.00	Excellent
A-	75-79	3.67	
B+	70-74	3.33	Credit
B	65-69	3.00	
B-	60-64	2.67	Good
C+	55-59	2.33	
C	50-54	2.00	Pass
C-	45-49	1.67	Fail
D	40-44	1.00	
F	< 40	0.00	

4.3 Scoring of the Special Re-Examination Assessment (PUK) are taken on the basis of the following grades:

- a) C (Student of the 2014/2015 academic intake and below)
- b) C- (Student of the 2015/2016 academic intake and above) exception for core courses at the Faculty of Engineering and Faculty of Medicine and Health Sciences which retain grade C as a passing grade.
- c) C (Student of the 2017/2018 academic intake and above) for core courses at the Faculty of Built Environment
- d) C (Student of the 2020/2021 academic intake and above) for core courses of the Accounting Programme at the Faculty of Economy and Business)

In the event where a student fails repetitively, the grade taken into account will be the best grade.

**SENARAI KURSUS WAJIB UNIVERSITI  
BAGI SESI 2020/2021 DAN SETERUSNYA.**

Jadual 4: Kursus Umum UNIMAS sesi 2020/2021 dan seterusnya(Jumlah keseluruhan kredit = 26)

Pelajar Warganegara			Pelajar Bukan Warganegara		
Kod kursus	Kursus	Semester ditawarkan	Kod kursus	Kursus	Semester ditawarkan
*PPD1041	Kemahiran Insaniah dan Asas Kesukarelawanan <i>Softskill &amp; Basic Volunteerism</i>	Tahun 1 Semester 1	PPD1041	Kemahiran Insaniah dan Asas Kesukarelawanan <i>Softskill &amp; Basic Volunteerism</i>	Tahun 1 Semester 1
PBM2072	Bahasa Melayu <i>Malay Language</i>	1 & 2	PBM2082	Bahasa Melayu Komunikasi Lanjutan <i>Advanced Malay Language for Communication</i>	1 & 2
Rujuk Jadual 5	Kursus Bahasa Inggeris (2 kursus – 4 kredit) (Rujuk <b>Jadual 5</b> untuk senarai kursus)	1 & 2	Rujuk Jadual 5	Kursus Bahasa Inggeris (2 kursus – 4 kredit) (Rujuk <b>Jadual 5</b> untuk senarai kursus)	1 & 2
*MPUXXXX	Matapelajaran Pengajian Umum (MPU) (Rujuk <b>Jadual 6 &amp; 7</b> untuk senarai kursus)	(Rujuk Jadual 3)	MPUXXXX	Matapelajaran Pengajian Umum (MPU) (Rujuk <b>Jadual 6 &amp; 7</b> untuk senarai kursus)	(Rujuk Jadual 3)
Rujuk Lampiran 1 Senarai KEU	Kursus Elektif Universiti (KEU) (Rujuk <b>Lampiran Senarai KEU</b> )	Tertakluk kepada kursus yang dipilih	Rujuk Lampiran 1 Senarai KEU	Kursus Elektif Universiti (KEU) (Rujuk <b>Lampiran Senarai KEU</b> )	Tertakluk kepada kursus yang dipilih

\*Nota: pengecualian terhadap kursus PPD1041 dan kursus MPU Kokurikulum Berkredit kepada pelajar yang melengkapkan sekurang-kurangnya 3 kredit kursus-kursus badan beruniform dari agensi yang sama. Dok.6.3/191 - Senat Bil.06/2020 Ke-191

Jadual 5: Kursus Bahasa Inggeris Sesi 2020/2021 dan seterusnya (Jumlah keseluruhan kredit = 4)

Pelajar Warganegara		Pelajar Bukan Warganegara	
Kelayakan Masuk BI	Kursus	Kelayakan Masuk BI	Kursus
MUET Band 1 & 2	Preparatory English 1 Preparatory English 2, <b>DAN</b> PBI1102 - Academic English I PBI1072 - English for Professional Communication		
MUET Band 3	PBI1102 - Academic English I PBI1072 - English for Professional Communication	MUET Band 3/ IELTS 5.5/TOEFL iBT 42/ Pearson Test of English 47/Cambridge English Qualifications Test 154	PBI1102 Academic English 1, <b>DAN</b> PBI1072 English for Professional Communication
MUET Band 4,5 & 6	PBI1092 - Academic English II PBI1082 - English for Occupational Purposes	MUET Band 4-6/ IELTS 6/TOEFL iBT 60/ Pearson Test of English 59/Cambridge English Qualifications Test 169	PBI1082 English for Occupational Purposes, <b>DAN</b> PBI1092 English for Academic Purposes

Jadual 6: Kursus MPU Sesi 2020/2021 Tahap **DIPLOMA** (Jumlah keseluruhan kredit: 8)

Kelompok	Pelajar Warganegara			Pelajar Bukan Warganegara		
	Kod kursus	Kursus	Semester ditawarkan	Kod kursus	Kursus	Semester ditawarkan
U1	MPU2112	Falsafah dan Isu Semasa <i>Philosophy and Current Issues</i> (2 kredit), <b>ATAU</b>	2	MPU2122	Falsafah dan Isu Semasa <i>Philosophy and Current Issues</i> (2 kredit)	2
	MPU2122	Penghayatan Etika dan Peradaban <i>Appreciation of Ethics and Civilization</i> (2 kredit)	1			
U2	MPU2212	Asas Pembudayaan Keusahawanan <i>Foundation of Entrepreneurship Inculturation</i> (2 kredit)	1 & 2	MPU2212	Asas Pembudayaan Keusahawanan <i>Foundation of Entrepreneurship Inculturation</i> (2 kredit)	1 & 2
U3	MPU2312	Warisan Nusa <i>National Heritage</i> (2 kredit)	1 & 2	MPU2322	Budaya dan Etnisiti Malaysia <i>Malaysian Culture and Ethnicity</i> (2 kredit)	2
U4	MPU2412	Kokurikulum Berkredit (Kesukarelawan) <i>Credited Co-curricular (Volunteerism)</i> (2 kredit), <b>ATAU</b>	2	MPU2412	Kokurikulum Berkredit (Kesukarelawan) <i>Credited Co-curricular (Volunteerism)</i> (2 kredit), <b>ATAU</b>	2
	MPU2422	Kokurikulum Berkredit (Sukan) <i>Credited Co-curricular (Sports)</i> (2 kredit)		MPU2422	Kokurikulum Berkredit (Sukan) <i>Credited Co-curricular (Sports)</i> (2 kredit)	

Jadual 7: Kursus MPU Sesi 2020/2021 Tahap **SARJANA MUDA** (Jumlah keseluruhan kredit: 10)

Kelompok	Pelajar Warganegara			Pelajar Bukan Warganegara		
	Kod kursus	Kursus	Semester ditawarkan	Kod kursus	Kursus	Semester ditawarkan
U1	MPU3192	Penghayatan Etika dan Peradaban <i>Appreciation of Ethics and Civilization</i> (2 kredit), <b>DAN</b>	1	MPU3142	Bahasa Melayu Komunikasi 2 <i>Malay Language for Communication 2</i> (2 kredit) <b>DAN</b>	1 & 2
	MPU3182	Falsafah dan Isu Semasa <i>Philosophy and Current Issues</i> (2 kredit)	2	MPU3182	Falsafah dan Isu Semasa <i>Philosophy and Current Issues</i> (2 kredit)	2
U2	MPU3222	Asas Pembudayaan Keusahawanan <i>Foundation of Entrepreneurship Inculturation</i> (2 kredit)	1 & 2	MPU3222	Asas Pembudayaan Keusahawanan <i>Foundation of Entrepreneurship Inculturation</i> (2 kredit)	1 & 2
U3	MPU3332	Warisan Nusa <i>National Heritage</i> (2 kredit), <b>ATAU</b>	1 & 2	MPU3342	Budaya dan Etnisiti Malaysia <i>Malaysian Culture and Ethnicity</i> (2 kredit)	2
	MPU3352	Kerajaan Dan Pentadbiran di Malaysia <i>Government and Administration in Malaysia</i> (2 kredit) <b>ATAU</b>				
	MPU3362	Pengenalan Kepada Tingkah Laku Organisasi <i>Introduction to Organization Behavior in Malaysia</i> (2 kredit), <b>ATAU</b>				
	MPU3372	Integriti dan Anti-Rasuah (KIAR) <i>Integrity and Anti-Corruption</i> (2 kredit).				
U4	MPU3432	Kokurikulum Berkredit (Daya Usaha dan Inovasi) <i>Credited Co-curricular (Initiative and Innovation)</i> (2 kredit), <b>ATAU</b>	2	MPU3432	Kokurikulum Berkredit (Daya Usaha dan Inovasi) <i>Credited Co-curricular (Initiative and Innovation)</i> (2 kredit), <b>ATAU</b>	2
	MPU3442	Kokurikulum Berkredit (Kebudayaan) <i>Credited Co-curricular (Culture)</i> (2 kredit), <b>ATAU</b>		MPU3442	Kokurikulum Berkredit (Kebudayaan) <i>Credited Co-curricular (Culture)</i> (2 kredit), <b>ATAU</b>	
	MPU3452	Kokurikulum Berkredit (Kepimpinan) <i>Credited Co-curricular (Leadership)</i> (2 kredit), <b>ATAU</b>		MPU3452	Kokurikulum Berkredit (Kepimpinan) <i>Credited Co-curricular (Leadership)</i> (2 kredit), <b>ATAU</b>	
	MPU3462	Kokurikulum Berkredit (Kesukarelawanan) <i>Credited Co-curricular (Volunteerism)</i> (2 kredit), <b>ATAU</b>		MPU3462	Kokurikulum Berkredit (Kesukarelawanan) <i>Credited Co-curricular (Volunteerism)</i> (2 kredit), <b>ATAU</b>	
	MPU3472	Kokurikulum Berkredit (Keusahawanan)		MPU3472	Kokurikulum Berkredit (Keusahawanan)	

		<i>Credited Co-curricular (Entrepreneurship)</i> (2 kredit), <b>ATAU</b>			<i>Credited Co-curricular (Entrepreneurship)</i> (2 kredit), <b>ATAU</b>	
	MPU3482	Kokurikulum Berkredit (Khidmat Komuniti) <i>Credited Co-curricular (Community Service)</i> (2 kredit), <b>ATAU</b>		MPU3482	Kokurikulum Berkredit (Khidmat Komuniti) <i>Credited Co-curricular (Community Service)</i> (2 kredit), <b>ATAU</b>	
	MPU3492	Kokurikulum Berkredit (Sukan) <i>Credited Co-curricular (Sports)</i> (2 kredit), <b>ATAU</b>		MPU3492	Kokurikulum Berkredit (Sukan) <i>Credited Co-curricular (Sports)</i> (2 kredit), <b>ATAU</b>	
	MPU34102	Kokurikulum Berkredit (Pengucapan Awam) <i>Credited Co-curricular (Public Speaking)</i> (2 kredit)		MPU34102	Kokurikulum Berkredit (Pengucapan Awam) <i>Credited Co-curricular (Public Speaking)</i> (2 kredit)	
	Rujuk Lampiran 2	*Mana-mana kursus Badan Beruniform daripada agensi yang sama (minimum 2 kredit)	1 & 2			

\*Nota: Dok.6.6/191 - Senat Bil.06/2020 Ke-191

**Lampiran 1: Senarai Kursus Elektif Universiti Sesi 2021/2022**

<b>Kluster</b>	<b>Kategori Kluster</b>	<b>Kod dan Nama Kursus (Bahasa Melayu)</b>	<b>Kod dan Nama Kursus (Bahasa Inggeris)</b>	<b>Semester Penawaran</b>	<b>Fakulti</b>
<b>1</b>	<b>Sains, Teknologi dan Perubatan Science, Technology and Medicine</b>	BEU1013 Anatomi Bangunan dan Asas Anggaran	BEU1013 Building Anatomy and Basic Estimating	1	Fakulti Alam Bina (FAB)
		BEU1033 Asas Alam Bina	BEU1033 Fundamentals of the Built Environment	2	
		KNU1093 Sumber Air dalam Pembangunan Komuniti	KNU1093 Water Resources in Community Development	1 & 2	Fakulti Kejuruteraan(FK)
		KNU 1033 Tenaga, Persekitaran Dan Masyarakat	KNU 1033 Energy, Environment and Society	1	
		KNU 1053 Pengurusan Keselamatan Di Tempat Kerja	KNU 1053 Safety Management in Workplace	2	
		KNU1103 Pengenalan kepada Sistem Kuasa Hidro	KNU1103 Introduction to Hydro Power System	2	
		KNU1073 Pengenalan kepada Sistem Solar Photovoltaic	KNU1073 Introduction to Solar Photovoltaic System	1	
		KNU1013 Pengenalan Kepada Teknologi Hijau	KNU1013 Introduction to Green Technology	1	
		KNU1023 Jurutera Dalam Masyarakat	KNU1023 Engineers in Society	2	
		STU1033 Sains Akuatik dan Kehidupan Harian	STU1033 Aquatic Science and Daily Life	1 & 2	
		STU1013 Pengantar Bioteknologi	STU1013 Introduction to Biotechnology	1 & 2	
		STU1043 Introduction to Plant Physiology	STU1043 Introduction to Plant Physiology	1 & 2	
		STU2063 Industri Eko-pelancongan Di Malaysia	STU2063 Ecotourism Industry in Malaysia	1 & 2	
		STU2073 Pengurusan Sumber Asli	STU2073 Natural Resource Managements	1 & 2	
		MDU1123 Pengenalan Masalah Pembelajaran	MDU 1123 Introduction to Learning Disabilities	1	Fakulti Perubatan dan Sains Kesihatan (FPSK)
		MDU1033 Gaya Hidup Sihat	MDU 1033 Healthy Lifestyle	1	
		MDU1043 Pengantar Entomologi Perubatan	MDU 1043 Introduction to Medical Entomology	2	
		MDU1073 Pengenalan kepada Fisiologi Bioperubatan	MDU 1073 Introduction to Biomedical Physiology	1	

		MDU1083 Pengenalan kepada Tingkahlaku dan Kesihatan	MDU 1083 Introduction to Health and Behaviour	1 & 2	
		MDU1013 Asas Pertolongan Cemas	MDU 1013 Basic First Aid	2	
		MDU1023 Pengantar Genetik Perubatan	MDU 1023 Introduction to Medical Genetics	2	
		MDU1053 Pengenalan Kepada Parasitologi Perubatan	MDU1053 Introduction to Medical Parasitology	1	
		MDU1133 Pengenalan Kepada Promosi Kesihatan Berasaskan Komuniti	MDU1133 Introduction to Community-Based Health Promotion	1	
		KMU1053 Teori dan Konsep: Interaksi Manusia Komputer	KMU1053 Theories and Concepts: Human Computer Interaction	1	Fakulti Sains Kognitif dan Pembangunan Manusia (FSKPM)
		TMU1013 Pengenalan kepada Teknologi Komputer	TMU1013 Introduction to Computer Technologies	1 & 2	
		TMU1023 Etika dalam Teknologi Maklumat	TMU1023 Ethics in Information Technology	1 & 2	Fakulti Sains Komputer dan Teknologi Maklumat(FSKTM)
		TMU1043 Teknologi Multimedia	TMU1043 Multimedia Technology	1 & 2	
		TMU1053 Matematik dalam Kehidupan Sehari-hari	TMU1053 Mathematics in Daily Life	1 & 2	
<b>2</b>	<b>Sains Sosial dan Kemanusiaan Social Science and Humanities</b>	SSU1013 Asas Sains Sosial	SSU1013 Basics of Social Science	1 & 2	Fakulti Sains Sosial dan Kemanusiaan (FSSK)
		SSU1023 Asas Antropologi dan Sosiologi	SSU1023 Basics of Anthropology and Sociology	1 & 2	
		SSU1033 Pengantar Psikologi	SSU1033 Introduction to Psychology	1 & 2	
		SSU1053 Pengantar Interaksi Sosial	SSU1053 Introduction to Social Interaction	1 & 2	
		KMU1013 Hubungan Menolong	KMU1013 Helping Relationship	1 & 2	Fakulti Sains Kognitif dan Pembangunan Manusia (FSKPM)
		KMU1063 Pengenalan Kesihatan Mental	KMU1063 Introduction to Mental Health	1	
<b>3</b>	<b>Perniagaan dan Pengurusan Business and Management</b>	EBU1063 Pengurusan Wang Bijak	EBU1063 Smart Money Management	1 & 2	Fakulti Ekonomi dan Perniagaan (FEP)
		EBU2043 Pengenalan Kepada Harta Intelektual	EBU 2043 Introduction to Intellectual Property	1 & 2	
		EBU1023 Pengurusan Akaun Perniagaan Kecil	EBU 1023 Managing Small Business Accounts	1 & 2	
		EBU1053 Pengurusan Perniagaan Dalam Talian	EBU 1053 Online Business Management	1 & 2	
		EBU1033 Persekitaran Ekonomi Malaysia	EBU1033 Malaysian Economics Environments	1 & 2	

		KMU1023 Pengenalan Pembangunan Sumber Manusia	KMU1023 Introduction to Human Resource Development	2	Fakulti Sains Kognitif dan Pembangunan Manusia (FSKPM)
4	<b>Seni Kreatif dan Reka Bentuk</b> <i>Creative Arts and Design</i>	GKU1013 Drama dan Teater Moden Melayu Malaysia	GKU1013 Modern Malay Drama and Theatre of Malaysia	1	Fakulti Sains Gunaan dan Kreatif (FSGK)
		GKU1033 Fotografi Digital dan Imej Media Sosial	GKU1033 Digital Photography and Social Media Imaging	1	
		GKU1043 Sejarah Sinema Malaysia	GKU1043 History of Malaysian Cinema	1	
		GKU1053 Sejarah Drama dan Teater	GKU1053 History of Drama and Theater	2	
		GKU1063 Pengenalan Kepada Asas Muzik	GKU1063 Introduction to Basic Music	2	
		GKU1083 Pengenalan Pengarahan Pentas	GKU1083 Introduction to Stage Directing	2	
		GKU1093 Asas Lukisan Figura	GKU1093 Basic Figure Drawing	1	
		BEU1023 Lakaran Kreatif	BEU1023 Creative Sketches	1	Fakulti Alam Bina (FAB)
5	<b>Linguistik dan Komunikasi</b> <i>Linguistic and Communication</i>	PBU1133 Bahasa Arab 1	PBU1133 Arabic Language Level 1	1 & 2	Fakulti Bahasa dan Komunikasi (FBK)
		PBU1043 Bahasa Jepun 1	PBU1043 Japanese Language Level 1	1 & 2	
		PBU1073 Bahasa Perancis 1	PBU1073 French Level I	1 & 2	
		PBU1103 Bahasa Mandarin 1	PBU1103 Mandarin Level 1	1 & 2	
		PBU0033 Bahasa Iban untuk Komunikasi	PBU0033 Iban for Communication	1 & 2	
		PBU2143 Bahasa Arab 2	PBU2143 Arabic Language Level 2	1 & 2	
		PBU2053 Bahasa Jepun 2	PBU2053 Japanese Language Level 2	1 & 2	
		PBU2083 Bahasa Perancis 2	PBU2083 French Level 2	1 & 2	
		PBU2113 Bahasa Mandarin 2	PBU2113 Mandarin Level 2	1 & 2	
		PBU3153 Bahasa Arab 3	PBU3153 Arabic Level 3	1 & 2	
		PBU3063 Bahasa Jepun 3	PBU3063 Japanese Language Level 3	1 & 2	
		PBU3093 Bahasa Perancis 3	PBU3093 French Level 3	1 & 2	
		PBU3123 Bahasa Mandarin 3	PBU3123 Mandarin Level 3	1 & 2	

6	<b>Elektif Bebas</b> <i>Free Elective</i>	Semua kursus yang dinyatakan dalam kluster di atas. Pelajar hanya dibenarkan memilih <b>maksimum 2 kluster</b> sahaja daripada 5 kluster.	Seperti maklumat diatas	Semua Fakulti
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**Lampiran 2: Senarai Kursus, Pelan Pembelajaran dan Penawaran Kursus Badan Beruniform**

A (i)	Latihan Ketenteraan (Darat)						
	Tahun	Semester	Nama Kursus	Kod Kursus	Jam Kredit	Pengredan	Jumlah Kredit
1	1		Latihan Ketenteraan (Darat) 1	PPA1041	1	A/B/C/D/F	6
	2		Latihan Ketenteraan (Darat) 2	PPA1051	1		
2	1		Latihan Ketenteraan (Darat) 3	PPA2061	1	A/B/C/D/F	
	2		Latihan Ketenteraan (Darat) 4	PPA2071	1		
3	1		Latihan Ketenteraan (Darat) 5	PPA3081	1	A/B/C/D/F	
	2		Latihan Ketenteraan (Darat) 6	PPA3091	1		

B (i)	Latihan Ketenteraan (Udara)						
	Tahun	Semester	Nama Kursus	Kod Kursus	Jam Kredit	Pengredan	Jumlah Kredit
1	1		Latihan Ketenteraan (Udara) 1	PPB1011	1	A/B/C/D/F	6
	2		Latihan Ketenteraan (Udara) 2	PPB1021	1		
2	1		Latihan Ketenteraan (Udara) 3	PPB2031	1	A/B/C/D/F	
	2		Latihan Ketenteraan (Udara) 4	PPB2041	1		
3	1		Latihan Ketenteraan (Udara) 5	PPB3051	1	A/B/C/D/F	
	2		Latihan Ketenteraan (Udara) 6	PPB3061	1		

C	Latihan Pertahanan Awam						
	Tahun	Semester	Nama Kursus	Kod Kursus	Jam Kredit	Pengredan	Jumlah Kredit
1	1		Latihan Pertahanan Awam 1	PPJ1041	1	A/B/C/D/F	6
	2		Latihan Pertahanan Awam 2	PPJ1051	1		
2	1		Latihan Pertahanan Awam 3	PPJ2061	1	A/B/C/D/F	
	2		Latihan Pertahanan Awam 4	PPJ2071	1		
3	1		Latihan Pertahanan Awam 5	PPJ3081	1	A/B/C/D/F	
	2		Latihan Pertahanan Awam 6	PPJ3091	1		

D	Latihan Kepolisan						
	Tahun	Semester	Nama Kursus	Kod Kursus	Jam Kredit	Pengredan	Jumlah Kredit
1	1		Latihan Kepolisan 1	PPP1041	1	A/B/C/D/F	6
	2		Latihan Kepolisan 2	PPP1051	1		
2	1		Latihan Kepolisan 3	PPP2061	1	A/B/C/D/F	
	2		Latihan Kepolisan 4	PPP2071	1		
3	1		Latihan Kepolisan 5	PPP3081	1	A/B/C/D/F	
	2		Latihan Kepolisan 6	PPP3091	1		

## **MPU Courses Offered for 2021/2022 Session**

**Senarai Kursus MPU Terkini Ditawarkan Sesi 2021/2022**

Kelompok	Pelajar Warganegara			Pelajar Bukan Warganegara		
	Kod kursus	Kursus	Semester ditawarkan	Kod kursus	Kursus	Semester ditawarkan
U1	MPU3192	Penghayatan Etika dan Peradaban <i>Appreciation of Ethics and Civilization</i> (2 kredit), <b>DAN</b>	1	MPU3142	Bahasa Melayu Komunikasi 2 <i>Malay Language for Communication 2</i> (2 kredit) <b>DAN</b>	1 & 2
	MPU3182	Falsafah dan Isu Semasa <i>Philosophy and Current Issues</i> (2 kredit)	2	MPU3182	Falsafah dan Isu Semasa <i>Philosophy and Current Issues</i> (2 kredit)	2
U2	MPU3222	Asas Pembudayaan Keusahawanan <i>Foundation of Entrepreneurship Inculturation</i> (2 kredit)	1 & 2	MPU3222	Asas Pembudayaan Keusahawanan <i>Foundation of Entrepreneurship Inculturation</i> (2 kredit)	1 & 2
U3	MPU3332	Warisan Nusa <i>National Heritage</i> (2 kredit), <b>ATAU</b>	1 & 2	MPU3342	Budaya dan Etnisiti Malaysia <i>Malaysian Culture and Ethnicity</i> (2 kredit)	2
	MPU3352	Kerajaan Dan Pentadbiran di Malaysia <i>Government and Administration in Malaysia</i> (2 kredit) <b>ATAU</b>				
	MPU3362	Pengenalan Kepada Tingkah Laku Organisasi <i>Introduction to Organization Behavior in Malaysia</i> (2 kredit), <b>ATAU</b>				
	MPU3372	Integriti dan Anti-Rasuah (KIAR) <i>Integrity and Anti-Corruption</i> (2 kredit)				
U4	MPU3432	Kokurikulum Berkredit (Daya Usaha dan Inovasi) <i>Credited Co-curricular (Initiative and Innovation)</i> (2 kredit), <b>ATAU</b>	2	MPU3432	Kokurikulum Berkredit (Daya Usaha dan Inovasi) <i>Credited Co-curricular (Initiative and Innovation)</i> (2 kredit), <b>ATAU</b>	2
	MPU3442	Kokurikulum Berkredit (Kebudayaan) <i>Credited Co-curricular (Culture)</i> (2 kredit), <b>ATAU</b>		MPU3442	Kokurikulum Berkredit (Kebudayaan) <i>Credited Co-curricular (Culture)</i> (2 kredit), <b>ATAU</b>	
	MPU3452	Kokurikulum Berkredit (Kepimpinan) <i>Credited Co-curricular (Leadership)</i> (2 kredit), <b>ATAU</b>		MPU3452	Kokurikulum Berkredit (Kepimpinan) <i>Credited Co-curricular (Leadership)</i> (2 kredit), <b>ATAU</b>	
	MPU3462	Kokurikulum Berkredit (Kesukarelawanan) <i>Credited Co-curricular (Volunteerism)</i> (2 kredit), <b>ATAU</b>		MPU3462	Kokurikulum Berkredit (Kesukarelawanan) <i>Credited Co-curricular (Volunteerism)</i> (2 kredit), <b>ATAU</b>	
	MPU3472	Kokurikulum Berkredit (Keusahawanan)		MPU3472	Kokurikulum Berkredit (Keusahawanan)	

Kelompok	Pelajar Warganegara			Pelajar Bukan Warganegara		
	Kod kursus	Kursus	Semester ditawarkan	Kod kursus	Kursus	Semester ditawarkan
		<i>Credited Co-curricular (Entrepreneurship)</i> (2 kredit), <b>ATAU</b>			<i>Credited Co-curricular (Entrepreneurship)</i> (2 kredit), <b>ATAU</b>	
	MPU3482	Kokurikulum Berkredit (Khidmat Komuniti) <i>Credited Co-curricular (Community Service)</i> (2 kredit), <b>ATAU</b>		MPU3482	Kokurikulum Berkredit (Khidmat Komuniti) <i>Credited Co-curricular (Community Service)</i> (2 kredit), <b>ATAU</b>	
	MPU3492	Kokurikulum Berkredit (Sukan) <i>Credited Co-curricular (Sports)</i> (2 kredit), <b>ATAU</b>		MPU3492	Kokurikulum Berkredit (Sukan) <i>Credited Co-curricular (Sports)</i> (2 kredit), <b>ATAU</b>	
	MPU34102	Kokurikulum Berkredit (Pengucapan Awam) <i>Credited Co-curricular (Public Speaking)</i> (2 kredit)		MPU34102	Kokurikulum Berkredit (Pengucapan Awam) <i>Credited Co-curricular (Public Speaking)</i> (2 kredit)	
	Rujuk Lampiran 2	*Mana-mana kursus Badan Beruniform daripada agensi yang sama (minimum 2 kredit)	1 & 2			

\*Nota: Dok.6.6/191 - Senat Bil.06/2020 Ke-191

**Senarai Kursus-Kursus REMEDIAL / PENGUKUHAN**

Kod	Kursus	Catatan	Jumlah Kredit	Semester	Catatan
PPD1041	Kemahiran Insaniah dan Asas Kesukarelawan	<b>Semua pelajar</b> (warganegara dan bukan warganegara)	1	1	Bagi pelajar yang mengambil kursus Badan Beruniform DIKECUALIKAN daripada mengambil kursus ini dan kursus Kokurikulum Berkredit dengan jumlah 3 kredit
PBI1112	(1 kredit) Preparatory English 1	Pelajar dengan MUET Band 1-2	2		
PBI1122	(1 kredit) Preparatory English 1		2		
<b>Pelajar MUET Band 1-2 mesti melengkapkan kursus (Remedial) Jumlah Kredit = 5</b>					
<b>DAN</b>					
<b>Pelajar MUET Band 3-6 hanya perlu melengkapkan kursus (Remedial) Jumlah Kredit = 1</b>					

**Senarai Kursus-Kursus Generik**

Pelajar Warganegara			Pelajar Bukan Warganegara		
PBI1102	(2 kredit) Academic English 1	Pelajar dengan MUET Band 3  <b>Atau</b> (MUET Band 1-2) MESTI LULUS PBI1112 dan PBI1122	PBI1102	(2 kredit) Academic English 1	<b>**International students: Intensive English band 5.5 to 6.5 OR IELTS 5.5</b>
PBI1072	(2 kredit) English for Professional Communication	MESTI LULUS PBI1102	PBI1072	(2 kredit) English for Professional Communication	MESTI LULUS PBI1102
PBI1092	(2 kredit) Academic English 2	Pelajar dengan MUET Band 4,5 dan 6	PBI1092	(2 kredit) Academic English 2	<b>**International students; intensive English Band 7 and above OR IELTS 6 and above</b>
PBI1082	(2 kredit) English for Occupational Proposes	MESTI LULUS PBI1092	PBI1082	(2 kredit) English for Occupational Proposes	MESTI LULUS PBI1092
PBM2072	(2 kredit) Bahasa Melayu		PBM2082	(2 kredit) Malay language	
<b>Jumlah Kredit Generik = 6</b>			<b>Jumlah Kredit Generik = 6</b>		

PENAWARAN KURSUS BADAN BERUNIFORM (MPU U4)

Jadual Pelan Pembelajaran dan Penawaran Kursus Badan Beruniform

A (i) Latihan Ketenteraan (Darat)						
Tahun	Semester	Nama Kursus	Kod Kursus	Jam Kredit	Pengredan	Jumlah Kredit
1	1	Latihan Ketenteraan (Darat) 1	PPA1041	1	A/B/C/D/F	6
	2	Latihan Ketenteraan (Darat) 2	PPA1051	1		
2	1	Latihan Ketenteraan (Darat) 3	PPA2061	1	A/B/C/D/F	
	2	Latihan Ketenteraan (Darat) 4	PPA2071	1		
3	1	Latihan Ketenteraan (Darat) 5	PPA3081	1	A/B/C/D/F	
	2	Latihan Ketenteraan (Darat) 6	PPA3091	1		

B (i) Latihan Ketenteraan (Udara)						
Tahun	Semester	Nama Kursus	Kod Kursus	Jam Kredit	Pengredan	Jumlah Kredit
1	1	Latihan Ketenteraan (Udara) 1	PPB1011	1	A/B/C/D/F	6
	2	Latihan Ketenteraan (Udara) 2	PPB1021	1		
2	1	Latihan Ketenteraan (Udara) 3	PPB2031	1	A/B/C/D/F	
	2	Latihan Ketenteraan (Udara) 4	PPB2041	1		
3	1	Latihan Ketenteraan (Udara) 5	PPB3051	1	A/B/C/D/F	
	2	Latihan Ketenteraan (Udara) 6	PPB3061	1		

C Latihan Pertahanan Awam						
Tahun	Semester	Nama Kursus	Kod Kursus	Jam Kredit	Pengredan	Jumlah Kredit
1	1	Latihan Pertahanan Awam 1	PPJ1041	1	A/B/C/D/F	6
	2	Latihan Pertahanan Awam 2	PPJ1051	1		
2	1	Latihan Pertahanan Awam 3	PPJ2061	1	A/B/C/D/F	
	2	Latihan Pertahanan Awam 4	PPJ2071	1		
3	1	Latihan Pertahanan Awam 5	PPJ3081	1	A/B/C/D/F	
	2	Latihan Pertahanan Awam 6	PPJ3091	1		

D Latihan Kepolisian						
Tahun	Semester	Nama Kursus	Kod Kursus	Jam Kredit	Pengredan	Jumlah Kredit
1	1	Latihan Kepolisian 1	PPP1041	1	A/B/C/D/F	6
	2	Latihan Kepolisian 2	PPP1051	1		
2	1	Latihan Kepolisian 3	PPP2061	1	A/B/C/D/F	
	2	Latihan Kepolisian 4	PPP2071	1		
3	1	Latihan Kepolisian 5	PPP3081	1	A/B/C/D/F	
	2	Latihan Kepolisian 6	PPP3091	1		

## **Senarai Kursus Elektif Universiti Bagi Sesi 2021/2022**

**Senarai Kursus Elektif Universiti Bagi Sesi 2021/2022**

<b>Kluster</b>	<b>Kategori Kluster</b>	<b>Kod dan Nama Kursus (Bahasa Melayu)</b>	<b>Kod dan Nama Kursus (Bahasa Inggeris)</b>	<b>Semester Penawaran</b>	<b>Fakulti</b>
<b>1</b>	Sains, Teknologi dan Perubatan <i>Science, Technology and Medicine</i>	BEU1013 Anatomi Bangunan dan Asas Anggaran	BEU1013 Building Anatomy and Basic Estimating	1	Fakulti Alam Bina (FAB)
		BEU1033 Asas Alam Bina	BEU1033 Fundamentals of the Built Environment	2	
		KNU1093 Sumber Air dalam Pembangunan Komuniti	KNU1093 Water Resources in Community Development	1 & 2	Fakulti Kejuruteraan (FK)
		KNU 1033 Tenaga, Persekitaran Dan Masyarakat	KNU 1033 Energy, Environment and Society	1	
		KNU 1053 Pengurusan Keselamatan Di Tempat Kerja	KNU 1053 Safety Management in Workplace	2	
		KNU1103 Pengenalan kepada Sistem Kuasa Hidro	KNU1103 Introduction to Hydro Power System	2	
		KNU1073 Pengenalan kepada Sistem Solar Photovoltaic	KNU1073 Introduction to Solar Photovoltaic System	1	
		KNU1013 Pengenalan Kepada Teknologi Hijau	KNU1013 Introduction to Green Technology	1	
		KNU1023 Jurutera Dalam Masyarakat	KNU1023 Engineers in Society	2	
		STU1033 Sains Akuatik dan Kehidupan Harian	STU1033 Aquatic Science and Daily Life	1 & 2	
		STU1013 Pengantar Bioteknologi	STU1013 Introduction to Biotechnology	1 & 2	
		STU1023 Fotografi Hidupan Liar	STU1023 Wildlife Photography	1 & 2	
		STU1043 Introduction to Plant Physiology	STU1043 Introduction to Plant Physiology	1 & 2	
		STU2063 Industri Eko-pelancongan Di Malaysia	STU2063 Ecotourism Industry in Malaysia	1 & 2	
		STU2073 Pengurusan Sumber Asli	STU2073 Natural Resource Managements	1 & 2	
		MDU1123 Pengenalan Masalah Pembelajaran	MDU 1123 Introduction to Learning Disabilities	1	Fakulti Perubatan dan Sains Kesihatan (FPSK)
		MDU1033 Gaya Hidup Sihat	MDU 1033 Healthy Lifestyle	1	
		MDU1043 Pengantar Entomologi Perubatan	MDU 1043 Introduction to Medical Entomology	2	
		MDU1073 Pengenalan kepada Fisiologi Bioperubatan	MDU 1073 Introduction to Biomedical Physiology	1	
		MDU1083 Pengenalan kepada Tingkahlaku dan Kesihatan	MDU 1083 Introduction to Health and Behaviour	1 & 2	
MDU1013 Asas Pertolongan Cemas	MDU 1013 Basic First Aid	2			
MDU1023 Pengantar Genetik Perubatan	MDU 1023 Introduction to Medical Genetics	2			

Kluster	Kategori Kluster	Kod dan Nama Kursus (Bahasa Melayu)	Kod dan Nama Kursus (Bahasa Inggeris)	Semester Penawaran	Fakulti
		KMU1053 Teori dan Konsep: Interaksi Manusia Komputer	KMU1053 Theories and Concepts: Human Computer Interaction	1	Fakulti Sains Kognitif dan Pembangunan Manusia (FSKPM)
		TMU1013 Pengenalan kepada Teknologi Komputer	TMU1013 Introduction to Computer Technologies	1 & 2	Fakulti Sains Komputer dan Teknologi Maklumat (FSKTM)
		TMU1023 Etika dalam Teknologi Maklumat	TMU1023 Ethics in Information Technology	1 & 2	
		TMU1043 Teknologi Multimedia	TMU1043 Multimedia Technology	1 & 2	
		TMU1053 Matematik dalam Kehidupan Sehari-hari	TMU1053 Mathematics in Daily Life	1 & 2	
<b>2</b>	Sains Sosial dan Kemanusiaan <i>Social Science and Humanities</i>	SSU1013 Asas Sains Sosial	SSU1013 Basics of Social Science	1 & 2	Fakulti Sains Sosial dan Kemanusiaan (FSSK)
		SSU1023 Asas Antropologi dan Sosiologi	SSU1023 Basics of Anthropology and Sociology	1 & 2	
		SSU1033 Pengantar Psikologi	SSU1033 Introduction to Psychology	1 & 2	
		SSU1053 Pengantar Interaksi Sosial	SSU1053 Introduction to Social Interaction	1 & 2	
		KMU1013 Hubungan Menolong	KMU1013 Helping Relationship	1 & 2	Fakulti Sains Kognitif dan Pembangunan Manusia (FSKPM)
		KMU1063 Pengenalan Kesihatan Mental	KMU1063 Introduction to Mental Health	1	
<b>3</b>	Perniagaan dan Pengurusan <i>Business and Management</i>	EBU1063 Pengurusan Wang Bijak	EBU1063 Smart Money Management	1 & 2	Fakulti Ekonomi dan Perniagaan (FEP)
		EBU2043 Pengenalan Kepada Harta Intelek	EBU 2043 Introduction to Intellectual Property	1 & 2	
		EBU1023 Pengurusan Akaun Perniagaan Kecil	EBU 1023 Managing Small Business Accounts	1 & 2	
		EBU1053 Pengurusan Perniagaan Dalam Talian	EBU 1053 Online Business Management	1 & 2	
		EBU1033 Persekitaran Ekonomi Malaysia	EBU1033 Malaysian Economics Environments	1 & 2	
		KMU1023 Pengenalan Pembangunan Sumber Manusia	KMU1023 Introduction to Human Resource Development	2	Fakulti Sains Kognitif dan Pembangunan Manusia (FSKPM)
<b>4</b>	Seni Kreatif dan Reka Bentuk <i>Creative Arts and Design</i>	GKU1013 Drama dan Teater Moden Melayu Malaysia	GKU1013 Modern Malay Drama and Theatre of Malaysia	1	Fakulti Sains Gunaan dan Kreatif (FSGK)
		GKU1033 Fotografi Digital dan Imej Media Sosial	GKU1033 Digital Photography and Social Media Imaging	1	
		GKU1043 Sejarah Sinema Malaysia	GKU1043 History of Malaysian Cinema	1	
		GKU1053 Sejarah Drama dan Teater	GKU1053 History of Drama and Theater	2	
		GKU1063 Pengenalan Kepada Asas Muzik	GKU1063 Introduction to Basic Music	2	

Kluster	Kategori Kluster	Kod dan Nama Kursus (Bahasa Melayu)	Kod dan Nama Kursus (Bahasa Inggeris)	Semester Penawaran	Fakulti
		GKU1083 Pengenalan Pengarahan Pentas	GKU1083 Intoduction to Stage Directing	2	
		GKU1093 Asas Lukisan Figura	GKU1093 Basic Figure Drawing	1	
		BEU1023 Lakaran Kreatif	BEU1023 Creative Sketches	1	Fakulti Alam Bina (FAB)
5	Linguistik dan Komunikasi <i>Linguistic and Communication</i>	PBU1133 Bahasa Arab 1	PBU1133 Arabic Language Level 1	1 & 2	Fakulti Bahasa dan Komunikasi (FBK)
		PBU1043 Bahasa Jepun 1	PBU1043 Japanese Language Level 1	1 & 2	
		PBU1073 Bahasa Perancis 1	PBU1073 French Level I	1 & 2	
		PBU1103 Bahasa Mandarin 1	PBU1103 Mandarin Level 1	1 & 2	
		PBU1013 Bahasa Korea	PBU1013 Korean Language	belum ditawarkan	
		PBU0033 Bahasa Iban untuk Komunikasi	PBU0033 Iban for Communication	1 & 2	
		PBU2143 Bahasa Arab 2	PBU2143 Arabic Language Level 2	1 & 2	
		PBU2053 Bahasa Jepun 2	PBU2053 Japanese Language Level 2	1 & 2	
		PBU2083 Bahasa Perancis 2	PBU2083 French Level 2	1 & 2	
		PBU2113 Bahasa Mandarin 2	PBU2113 Mandarin Level 2	1 & 2	
		PBU3153 Bahasa Arab 3	PBU3153 Arabic Level 3	1 & 2	
		PBU3063 Bahasa Jepun 3	PBU3063 Japanese Language Level 3	1 & 2	
		PBU3093 Bahasa Perancis 3	PBU3093 French Level 3	1 & 2	
PBU3123 Bahasa Mandarin 3	PBU3123 Mandarin Level 3	1 & 2			
6	Elektif Bebas <i>Free Elective</i>	Semua kursus yang dinyatakan dalam kluster di atas. Pelajar hanya dibenarkan memilih <b>maksimum 2 kluster</b> sahaja daripada 5 kluster.		Seperti maklumat diatas	Semua Fakulti

**AKTA UNIVERSITI DAN KOLEJ UNIVERSITI 1971**  
**Kaedah-Kaedah Universiti Malaysia Sarawak**  
**(Tatatertib Pelajar-Pelajar) 1999**  
**Perkara 6 (AKTA A1342)**

**Larangan Terhadap Plagiarism**

**AKTA UNIVERSITI DAN KOLEJ UNIVERSITI 1971**  
**Kaedah-Kaedah Universiti Malaysia Sarawak**  
**(Tatatertib Pelajar-Pelajar) 1999**

**Perkara 6 (AKTA A1342)**

**Larangan terhadap plagiarism**

6. (1) Seseorang pelajar tidak boleh memplagiat apa-apa idea, penulisan, data atau ciptaan kepunyaan orang lain.

(2) Bagi maksud kaedah ini, plagiarisme termasuklah- (a) perbuatan mengambil sesuatu idea, penulisan, data atau ciptaan orang lain dan mengaku bahawa idea, penulisan, data atau ciptaan itu ialah hasil dapatan atau ciptaannya sendiri; atau

(b) suatu cubaan untuk menonjolkan atau perbuatan menonjolkan, dengan apa-apa cara, bahawa dia ialah sumber asal atau pencipta sesuatu idea, penulisan, data atau ciptaan yang sebenarnya telah diambil daripada mana-mana sumber lain.

(3) Tanpa menjejaskan keluasan subkaedah (2), seseorang pelajar memplagiat apabila dia— (a) menerbitkan, atas namanya sendiri sebagai pengarang, suatu ringkasan, artikel, kertas saintifik atau akademik, atau buku yang keseluruhannya atau sebahagiannya ditulis oleh mana-mana orang lain;

(b) menggabungkan dirinya atau membenarkan dirinya digabungkan sebagai pengarang bersama sesuatu ringkasan, artikel, kertas saintifik atau akademik, atau buku, sedangkan dia tidak langsung membuat apa-apa sumbangan bertulis kepada ringkasan, artikel, kertas saintifik atau akademik, atau buku itu;

(c) memaksa orang lain untuk memasukkan namanya dalam senarai penyelidik bersama bagi sesuatu projek penyelidikan tertentu atau dalam senarai pengarang bersama bagi sesuatu penerbitan sedangkan dia tidak membuat apa-apa sumbangan yang boleh

melayakkan dirinya menjadi penyelidik bersama atau pengarang bersama;

(d) memetik data akademik yang merupakan hasil penyelidikan yang dijalankan oleh mana-mana orang lain, seperti dapatan makmal atau dapatan kerja lapangan atau data yang diperoleh melalui penyelidikan perpustakaan, sama ada yang diterbitkan atau tidak diterbitkan, dan menggabungkan data itu sebagai sebahagian daripada penyelidikan akademiknya tanpa memberikan pengiktirafan yang sewajarnya kepada sumber asal;

(e) menggunakan data penyelidikan yang diperoleh melalui kerja usaha sama dengan mana-mana orang lain, sama ada atau tidak orang lain itu ialah anggota kakitangan atau pelajar Universiti, sebagai sebahagian daripada penyelidikan akademik peribadinya yang lain dan berbeza, atau bagi penerbitan atas namanya sendiri sebagai pengarang tunggal, tanpa memperoleh keizinan penyelidik bersamanya sebelum memulakan penyelidikannya sendiri atau sebelum menerbitkan data itu;

(f) menyalin idea atau ciptaan orang lain yang disimpan dalam apa-apa jua bentuk, sama ada bertulis, tercetak atau tersedia dalam bentuk elektronik, atau dalam bentuk slaid, atau dalam apa-apa jua bentuk pengajaran atau perkakas penyelidikan atau dalam apa-apa bentuk lain, dan mengaku sama ada secara langsung atau tidak langsung bahawa dia ialah pencipta idea atau ciptaan itu;

(g) menterjemahkan hasil penulisan atau karya orang lain daripada satu bahasa ke dalam bahasa lain sama ada atau tidak secara keseluruhan atau sebahagian, dan kemudian mengaku bahawa terjemahan itu yang dibuat dalam apa-apa jua bentuk atau cara sebagai hasil penulisannya atau karyanya sendiri; atau

(h) memetik idea daripada penulisan atau ciptaan orang lain dan membuat ubah suaian tertentu tanpa menyebut dengan sewajarnya sumber asal dan menyusunnya semula dengan apa-apa cara sehingga kelihatan seolah-olah dia ialah pencipta idea itu.

## **Student Dress Code**

**KALENDAR AKADEMIK PENGAJIAN IJAZAH SARJANA MUDA SESI 2021/2022**  
(*ACADEMIC CALENDAR FOR UNDERGRADUATE STUDIES SESSION 2021/2022*)

Aktiviti /Activity	SEMESTER 1	
	Tarikh	Catatan
<b>Pendaftaran Pelajar Baharu</b> ( <i>New Student Registration</i> ) <b><u>Online Registration</u></b>	<b>23 Sept 2021 – 9 Okt 2021</b> (17 hari / 17 days)	<b>9 Oktober 2021 (10 October 2021)</b> • Hari Jadi TYT Sarawak ( <i>Sarawak Governor's Birthday</i> )
<b>Pendaftaran Kolej Kediaman Pelajar Baharu</b> ( <i>Residential College Registration</i> )	<b>2 Okt 2021 – 5 Okt 2021</b> (4 hari/4 days)	
<b>Minggu Aluan Pelajar</b> ( <i>Student's Orientation Week</i> ) / <b>Hari Bersama fakulti</b>	<b>6 Okt 2021– 8 Okt 2021</b> (3 hari/3 days)	
<b>Pendaftaran <u>Online</u> Pelajar Semasa</b> ( <i>Returning Student's Registration</i> ) <b><u>Online Registration</u></b>	<b>5 Okt 2021– 10 Okt 2021</b> (6 hari/6 days)	
<b>Pendaftaran Kolej Kediaman Pelajar Semasa</b> ( <i>Returning Student's Residential College Registration</i> )	<b>9 Okt 2021– 10 Okt 2021</b> (2 hari/2 days)	
<b>Perkuliahan</b> ( <i>Lectures</i> )	<b>11 Okt 2021 – 16 Jan 2022</b> (14 minggu/14 weeks)	<b>19 Oktober 2021 (19 October 2021)</b> • Maulidur Rasul ( <i>Prophet Muhammad's Birthday</i> )  <b>4 November 2021 (4 November 2021)</b> • Hari Deepavali (Semenanjung Malaysia sahaja)  <b>25 Disember 2021 (25 December 2021)</b> • Hari Krismas ( <i>Christmas</i> )  <b>1 Januari 2022 (1 January 2022)</b> Cuti Tahun Baharu 2022 ( <i>New Year</i> )
<b>Minggu Peperiksaan</b> ( <i>Examination Week</i> )	<b>17 Jan 2022 – 30 Jan 2022</b> (3 minggu/3 weeks)	
<b>Cuti Semester 1</b> ( <i>Semester Break</i> )	<b>31 Jan 2022 – 13 Mac 2022</b> (4 minggu /4 weeks)	<b>1 &amp; 2 Feb 2022 (1 &amp; 2 Feb 2022)</b> • Tahun Baru Cina ( <i>Chinese New Year</i> )

<b><i>Aktiviti /Activity</i></b>	<b>SEMESTER 2</b>	
	<b>Tarikh</b>	<b>Catatan</b>
<b>Pendaftaran Online Pelajar Semasa</b> <i>(Returning Student 's Registration/Online Semester Registration)</i>	<b>8 Mac 2022 – 11 Mac 2022</b> <i>(4 hari/4 days)</i>	
<b>Pendaftaran Kolej Kediaman Pelajar Semasa</b> <i>(Returning Student 's Residential College Registration)</i>	<b>12 Mac 2022 – 13 Mac 2022</b> <i>(2 hari/2 days)</i>	
<b>Perkuliahan</b> <i>(Lectures)</i>	<b>14 Mac 2022 – 1 Mei 2022</b> <i>(7 minggu/ 7 weeks)</i>	<b>15 April 2022 (15 April 2022)</b> • Good Friday  <b>1 Mei 2022 (1 May 2022)</b> • Cuti Hari Pekerja ( <i>Labour Day</i> )
<b>Cuti Pertengahan Semester 2</b> <i>(Mid-Semester Break)</i>	<b>2 Mei 2022 – 8 Mei 2022</b> <i>(7 hari/ 7 days)</i>	<b>2 &amp; 3 Mei 2022 (2 &amp; 2 May 2022)</b> • Hari Raya Aidilfitri ( <i>Eid Mubarak</i> )
<b>Perkuliahan</b> <i>(Lectures)</i>	<b>9 Mei 2022 – 26 Jun 2022</b> <i>(7 minggu/ 7 weeks)</i>	<b>15 Mei 2022 (15 May 2022)</b> • Hari Wesak ( <i>Wesak Day</i> )  <b>1 &amp; 2 Jun 2022 (1 &amp; 2 June 2022)</b> • Hari Gawai ( <i>Gawai Day</i> )  <b>6 Jun 2022 (6 June 2022)</b> • Hari Keputeraan YDP Agong ( <i>Agong's Birthday</i> )
<b>Minggu Ulangkaji</b> <i>(Revision Week)</i>	<b>27 Jun 2022 – 3 Jul 2022</b> <i>(7 hari/ 7 days)</i>	
<b>Minggu Peperiksaan</b> <i>(Examination Week)</i>	<b>4 Jul 2022 – 24 Jul 2022</b> <i>(3 minggu/ 3 weeks)</i>	<b>9 Julai 2022 (9 July 2022)</b> • Hari Raya Aidiladha ( <i>Eid Al-Adha</i> )  <b>22 Julai 2022 (22 July 2022)</b> • Hari Sarawak ( <i>Sarawak Day</i> )
<b>Cuti Panjang</b> <i>(Long Break)</i>	<b>25 Jul 2022 – 2 Okt 2022</b> <i>(10 minggu/ 10 weeks)</i>	<b>30 Julai 2022 (30 July 2022)</b> • Awal Muharram ( <i>1<sup>st</sup> day Muharram</i> )  <b>31 Ogos 2022 (31 August 2022)</b> • Hari Kemerdekaan ( <i>National Day</i> )  <b>16 September 2022 (16 September 2022)</b> • Hari Malaysia ( <i>Malaysia Day</i> )

<b><i>Aktiviti /Activity</i></b>	<b>ANTARSESI</b>	
	<b>Tarikh</b>	<b>Catatan</b>
<b>Pendaftaran Pelajar Semasa</b> <i>(Returning Student 's Registration)</i> <u>Online Semester Registration</u>	<b>25 Jul 2022 – 31 Julai 2022</b> <i>(1 minggu/ 1 weeks)</i>	
<b>Perkuliahan</b> <i>(Lectures)</i>	<b>25 Jul 2022 – 18 Sept 2022</b> <i>(8 minggu/ 8 weeks)</i>	

**Nota:**

1. Tertakluk kepada pindaan

Disediakan oleh:

**Unit Pengambilan dan Kemasukan**

Bahagian Pengajian Prasiswazah

Universiti Malaysia Sarawak

## **Student Dress Code**



## UNIVERSITI MALAYSIA SARAWAK PERATURAN BERPAKAIAN PELAJAR

Setiap pelajar adalah tertakluk kepada Peraturan Berpakaian Pelajar yang ditetapkan oleh Universiti ketika berada di dalam kampus

### PAKAIAN PELAJAR LELAKI

- Setiap pelajar hendaklah berpakaian kemas, sopan dan bersesuaian dengan keadaan sepertimana yang diarahkan oleh pihak Universiti (berseluar panjang dengan berbaju kemeja atau kemeja-T atau berpakaian kebangsaan masing-masing yang sesuai).
- Berambut pendek, kemas dan tidak mencecah kolar baju (Rujuk Akta Universiti dan Kolej Universiti, 1971, Perkara 26).
- Memakai pakaian sukan yang sesuai semasa bersukan atau berekreasi.
- Memakai kasut yang sesuai. Pemakaian selipar dan sandal adalah dilarang.
- Tidak memakai perhiasan perempuan atau pakaian menyerupai perempuan.

### CONTOH PAKAIAN PELAJAR LELAKI



### PAKAIAN PELAJAR PEREMPUAN

- Setiap pelajar hendaklah berpakaian kemas dan sopan dan bersesuaian dengan keadaan sepertimana yang diarahkan oleh pihak Universiti (pakaian kebangsaan, blaus atau pakaian etnik masing-masing yang sesuai dan tidak menjolok mata. Pakaian mestilah tidak ketat serta tidak menunjukkan bentuk tubuh badan).
- Memakai skirt yang labuhnya hendaklah di bawah paras lutut.
- Memakai seluar yang bersesuaian dan sopan.
- Memakai alat solek, aksesori dan pewangi secara sederhana.
- Memakai kasut yang sesuai.

### CONTOH PAKAIAN PELAJAR PEREMPUAN



### TEMPAT PENGUATKUASAAN PERATURAN BERPAKAIAN

- Menghadiri kuliah, tutorial dan amali.
- Pusat Khidmat Maklumat Akademik (PKMA).
- Berurusan di Fakulti/Institut/Pusat/Bahagian.
- Menghadiri majlis rasmi Universiti di dalam dan di luar kampus.
- Menduduki peperiksaan.
- Menjalani latihan industri.

### CONTOH RAMBUT LELAKI DAN RAMBUT WANITA



**TINDAKAN TATATERTIB ATAU HUKUMAN TATATERTIB  
TERUS BOLEH DIAMBIL TERHADAP PELAJAR YANG  
TIDAK MEMATUHI PERATURAN DI ATAS.**

**i) AMARAN  
ii) DENDA TIDAK LEBIH DARIPADA RM50**

**SEMUA PELAJAR WAJIB MEMPAMERKAN KAD PELAJAR SEMASA BERADA DI DALAM KAWASAN KAMPUS**

**Covid-19Alert!**

## COVID-19

### LANGKAH BERJAGA-JAGA

### AMBIL PERHATIAN TERHADAP LANGKAH-LANGKAH INI!

**TANGAN YANG BERSIH**  
Bersihkan cucian tangan menggunakan sabun, or elapung dengan pembersih tangan berkesan alcohol.

**BERASA KURANG SIKAT?**  
Jika ada gejala seperti demam, batuk dan sakit sembelit, segeralah berjumpa dengan pakar kesihatan & hampakan rujuk perijinan atau hubungi talian hotline COVID-19 di bawah.

**BATUK / BERSIN**  
Bersin batuk / bersin, tutupkan mulut & hidung dengan tisu atau bahagian dalam lengan. Segera buanglah tisu tersebut & basuhlah tangan dengan teliti.

**PENJARAKKAN SOSIAL**  
Kalahkan jarak sekurang-kurangnya 2 meter / 6 kaki dari orang lain.

**HUBUNGAN DENGAN ORANG SAKIT**  
Elakkan berhubung rapat dengan orang yang dijangkiti demam & batuk.

**MAKANAN MENTAH & BELUM MASAK**  
Elakkan memakan daging mentah atau yang separuh masak & penyediaan secara lalai adalah diperlukan bagi mengelakkan makanan bercontam oleh bahan / makanan mentah.

**Talian Hotline COVID-19**  
• **082-443 248**  
(Pusat Kesiediaan & Tindak Balas Krisis, Sarawak)

**Pusat Kesihatan Daerah**

• 082-248 864 (PKB Kuching)	• 084-345 862 (PKB Sibul)
• 082-672 101 (PKB Samarahan)	• 084-873 302 (PKB Mukah)
• 082-872 331 (PKB Serian)	• 084-799 264 (PKB Kapit)
• 083-320 230 (PKB Sri Aman)	• 086-315 235 (PKB Bintulu)
• 083-472 388 (PKB Betong)	• 085-410 722 (PKB Miri)
• 084-652 815 (PKB Sarikei)	• 085-211 726 (PKB Limbang)

#fightCOVID19

## COVID-19

### PRECAUTIONS

### TAKE THESE PRECAUTIONS SERIOUSLY!

**CLEAN HANDS**  
Frequently clean hands by using alcohol-based hand rub or soap & water.

**FEELING ILL?**  
If you have fever, cough and difficulty breathing seek medical care immediately & share travel history or call COVID-19 hotline below.

**COUGHING / SNEEZING**  
When coughing / sneezing, cover mouth & nose with flexed elbow or tissue. Discard tissue away immediately & wash hands thoroughly.

**SOCIAL DISTANCING**  
Maintain a minimum distance of 2 metres / 6 feet from others.

**CONTACT WITH**  
Avoid close contact with anyone afflicted with fever & cough.

**RAW & UNCOOKED FOOD**  
Avoid consumption of raw & undercooked animal products, of which careful handling is needed to prevent cross-contamination with uncooked food.

**COVID-19 Hotlines**  
• **082-443 248**  
(Crisis Preparedness & Response Centre, Sarawak)

**Regional Health Offices**

• 082-248 864 (PKB Kuching)	• 084-345 862 (PKB Sibul)
• 082-672 101 (PKB Samarahan)	• 084-873 302 (PKB Mukah)
• 082-872 331 (PKB Serian)	• 084-799 264 (PKB Kapit)
• 083-320 230 (PKB Sri Aman)	• 086-315 235 (PKB Bintulu)
• 083-472 388 (PKB Betong)	• 085-410 722 (PKB Miri)
• 084-652 815 (PKB Sarikei)	• 085-211 726 (PKB Limbang)

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