UNIMERSITI MALAYSIA SARAWAK

FACULTY OF RESOURCE SCIENCE & TECHNOLOGY



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WELCOME MESSAGE BY THE DEAN

Selamat datang and a warm welcome to new students for the 2023/2024 academic year of Faculty of Resource Science and Technology (FRST), Universiti Malaysia Sarawak (UNIMAS).

Our faculty is recognised as a pioneer faculty in the UNIMAS where high-quality academic programmes are designed based on future ready curriculum framework that highlights three core elements; (i) curriculum structure, (ii) learning and teaching delivery, and (iii) assessment. The curriculum structure is constructively aligned to provide educational experiences relevant to the 21st century world that youth face, as well as to prepare the graduates with knowledge, skills, and competencies to contribute to society.

All five existing programmes offered by the faculty are certified and have received full accreditation from the Malaysia Qualifying Agency (MQA) and they are designed in-line with Industrial Revolution 4.0 (IR 4.0) elements. Last year, we had the previlage of welcoming the first cohort of Agrotechnology and the eexcitement continues this year. This new programme will be conducted using the industry mode 2u2i structure, i.e. students will undertake courses at the university for three years (3u) and one year (1i) in the industry. All of our programmes covered a broad array of topics dealing with the science and management of the aquatic, plant and animal resources, as well as focusing on biotechnology, agrotechnology and chemistry of natural resources that are abundant. These present the uniqueness of Sarawak and Borneo as a whole.

Transition into a tertiary education presents a new challenge for undergraduates. One of the most important adjustments to become an undergraduate student at FRST is the ability to adapt to campus life. The year 2020 onwards presents us with a challenge for a campus life with a new norm due to COVID-19 pandemic. In facing the new challenges, readjustment in teaching and learning processes are inevitable. A hybrid learning process and teaching delivery utilising technologies are adopted by combining the teaching and learning via online and face-to-face approaches. As undergraduates, you are also reminded to be responsible for your own learning, demonstrate and uphold academic honesty and integrity.

Finally, to all new students, I urge you to explore our official faculty website and FRST Undergrad app, and follow our various social media (Facebook, Instagram and Twitter) to stay up to date with the Faculty's activities and news. Do explore and be involved in all the exciting and interesting activities at FRST.

Be assured that the entire FRST and UNIMAS communities are here to support, sustain and encourage you to commit in your pursuit of knowledge and personal development. We are delighted to welcome all students into this vibrant learning community and look forward to any fresh ideas and energies for fruitful campus and learning experiences. We hope that your experiences with UNIMAS and FRST in particular will be enriching as they are rewarding towards fulfilling your future aspirations.

Teguh Bersama

Associate Professor Dr Samsur bin Mohamad Dean Faculty of Resource Science and Technology

BACKGROUND OF THE FACULTY RESOURCE SCIENCE AND TECHNOLOGY

Faculty of Resource Science and Technology (FRST) was established in July 1993, as one of the two pioneering faculties of UNIMAS. The faculty offers Bachelor of Science programmes specializing in natural resource science and management and resource technology. These programmes are designed to meet the need for graduates who have the appropriate knowledge and skills to become research scientists, managers, policy makers and entrepreneurs in various fields related to sustainable utilization, prudent management and conservation of the country's rich resources. Postgraduate (MSc and PhD) programmes by research or coursework are also offered by the faculty. There are now 254 students by research and 43 students by coursework (35 SLUSE and 8 Sustainable Aquaculture). These students carry out various research project under the major niche area that have been identified by the faculty.

The various programmes are facilitated by 77 academic staffs comprising 2 honorary professors, 6 professors, 18 associate professors, 26 senior lecturers and 25 lecturers. These academic staff have broad experience in a wide range of specializations including molecular biology, microbiology, biochemistry, fermentation technology, plant ecology and taxonomy, conservation biology, entomology, animal ecology and taxonomy, environmental chemistry, natural product chemistry, nanotechnology, water quality, geology, aquaculture, and aquatic biology. Science Officers, Assistant Science Officers and Laboratory Assistants are assigned to ensure highest quality in teaching and research activities. In addition, supporting staff headed by a Principal Assistant Registrar are responsible for smooth management of non-academic matters.

In line with the status of UNIMAS as a comprehensive university, the faculty is working towards becoming a prime centre for learning and research and the preferred choice for students and researchers in natural resource science and technology. Accordingly, the faculty introduces an integrated curriculum and academic programmes, capable of meeting the demands, challenges, and changes of the 21st century. The faculty emphasizes innovative, multidisciplinary and practical-based curriculum, relevant to the socio-economic development of the country. The formal class instructions are complemented with and strengthened by relevant research activities.

The faculty endeavours to play a major role in the advancement of science and technology in the country through active participation in technology transfer and promotion of co-operation between universities, government agencies, and industries. The faculty intends to provide the required knowledge, skills and manpower for the development of the Sarawak Corridor of Renewable Energy (SCORE). In this way, the faculty contributes to achieving the goals of accelerating the economic growth and development of Sarawak, as well as improving the quality of life for its people

FACULTY VISION AND MISSION

Vision

To become an exemplary faculty 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

The faculty is committed to achieving excellence through high quality and relevant teachinglearning and research activities related to management and utilization of natural resources in various fields of science and technology.

Goals

The faculty aims to fulfill the following educational goals:

- providing knowledge and skills based on scientific principles
- nurturing attitudes, ethics, sense of professionalism and leadership skills as responsible citizenry for societal advancement within the framework of the national vision
- fostering skills to critically evaluate and make creative decisions based on evidence and experience, thereby accomplishing a given task or solving problems at hand
- developing interest in the quest for knowledge, and life-long learning skills that will make it possible to keep pace with the rapid growth in global knowledge
- giving exposure to general and specific issues that are of institutional, national, regional and global relevance compatible to the contemporary and forward looking aspiration of UNIMAS

Expected Educational Outcomes

At the completion of a degree programme, FRST graduates are expected to be competent in:

- continuously upgrading themselves in seeking, sharing, and using knowledge and skills in the fields of resource science, in a scientific, professional, and ethical manner for national development
- employing their intellectual imagination to analyse issues and problems in resource science and to propose alternative solutions and decisions creatively
- utilizing and adapting scientific knowledge in fulfilling the demands of employment, industry and society
- communicating effectively, and demonstrating attitudes and moral behaviour of responsible citizens

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ACADEMIC STRUCTURE

Academic Programmes

Currently, the faculty offers six undergraduate programmes leading to the Bachelor of Science with Honours.

The programmes are:

- UW-6-545-001 Resource Biotechnology
- UW-6-442-001 Chemistry
- UW-6-421-001 Aquatic Resource Science and Management
- UW-6-421-002 Plant Science
- UW-6-421-003 Animal Resource Science and Management
- UW-6-621-001 Agrotechnology

Programme Structure

Every academic programme in UNIMAS has been designed based on a curriculum that suits the existing as well as the changing needs of the society. The curriculum is based on the total development of individuals as autonomous citizens who are able to mutually function in society. The academic programme structure consists of courses with a minimum total of 120-129 credits. These courses are classified under three categories: core, generic and elective.

- i) Core courses emphasize knowledge and skills towards specialization in fields that are related with the programme. The courses do not only focus on theory and specialization practice, but also on technology and management aspects.
- ii) Generic courses aim to foster positive nature while strengthening personal management skills inclusive of mastering Bahasa Malaysia and English languages. Both cognitive development aspects (motivation, creativity, aesthetics, etc) and affective aspects (value, ethic, social and other) are covered. Students are required to master both Bahasa Malaysia and English Language.
- **iii)** Elective courses give opportunity to students to broaden their knowledge in other fields (other than their own fields) to a satisfactory level.
- iv) General Education Subjects (GES) are compulsory university courses which is the pre-requisite for the undergraduate award. Courses under the category of MPU are seen to be 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.

Credit Definition

Courses offered in UNIMAS contain specific learning units and carry certain credit values. One credit requires students to spend 40 hours per semester covering lectures, tutorials, practical sessions, self learning and/or tests.

In terms of implementation, 1 credit is defined as 1 contact hour or 3 laboratory hours every week for the duration of the semester. For industrial training, 5 credit hours represent 10 weeks of industrial experience.

Admission Session	Core	GES (MPU)	Generic	Elective	Remedial	Total Credit Hours	Programme
	85	10	6	6 (Elective University) 12 (Elective Programme)	1	120	UW-6-545-001
	66	10	6	9 (Elective University) 33 (Elective Programme)	1	125	UW-6-442-001
2023/2024	94	10	6	9 (Elective University)	1	120	UW-6-421-001
	67	10	4*	9 (Elective University) 33 (Elective Programme)	1	124*	UW-6-421-002
	94	10	6	9 (Elective University)	1	120	UW-6-421-003
	103	10	6	9 (Elective University)	1	129	UW-6-621-001

The total number of credit hours required for graduation are as follows:

Note: GES refer to General Educational Subjects. *MUET Band 4-6 only.

Course Codes

Each course is given a code that consists of 3 alphabets followed by 4 numbers:



where:

ST indicates that it is a Faculty of Resource Science and Technology course. n indicates that it is a faculty or departmental course.

n code can be:

- F: Faculty common course
- A: Aquatic Resource Science and Management course
- B: Resource Biotechnology course
- H: Animal Resource Science and Management course
- K: Chemistry course
- T: Plant Science course
- G: Agrotechnology course

where, a, b, c, and d denote numbers (0, 1, 2, ..., 9) as follows:

a indicates level of studies
b running number of courses
c indicates value of credit

Semester System

The academic system in UNIMAS is based on the semester system. Each academic year is divided into 2 semesters and 1 intersession as follows:

Semester 1	14 weeks
Semester 2	14 weeks
Intersession	8 weeks (optional)

Course Registration

Registration for all courses should be done at the required time and duration that is determined by the Undergraduates Studies Division.

Prerequisite Courses

Some courses are subjected to certain prerequisites as determined by the respective departments. Students are required to fulfill these prerequisites prior to taking their respective courses.

Duration of Studies

Students are required to enroll and pass prescribed courses amounting to at least 120 credits or a certain number of credits as approved by the University Senate, within the maximum duration of 6 years.

Academic Regulation Booklet

For the academic regulations on the Bachelors Degree, students are advised to refer the Academic Regulations for Undergraduate Studies (Session 2021/2022).



Assessment

Student's performance in a course is continuously assessed throughout the semester. Evaluation includes assignments, quizzes and examinations. Performance for each semester is indicated by Grade Point Average (GPA), and overall performance by Cumulative Grade Point Average (CGPA).

Example:

Semester I				
Courses	Grade	Grade value	Credits (Cr)	Grade points (Gp)
STF1054	А	4.00	4	16.00
STA1022	A-	3.67	2	7.34
STB1033	B-	2.67	3	8.01
STF1043	D	1.00	3	3.00
			12	34.35

GPA (Semester 1) =
$$\frac{34.35}{12}$$
 = 2.86

Courses	Grade	Grade value	Credits	Total grade points
STF1022	А	4.00	2	8.00
STK1093	A-	3.67	3	11.01
STB1022	B+	3.33	2	6.66
STB1042	C-	1.67	2	3.34
			9	29.01

Semester 2

GPA (Semester 2) =
$$\frac{29.01}{9} = 3.23$$

CGPA (Semester 2) = $\frac{(34.35 + 29.01)}{(12+9)} = 3.02$

Grading scheme for core courses is as follows:

Grade	Grade Value	Marks	Levels Of Achievement
А	4.00	80 - 100	Fxcellence
A-	3.67	75 - 79	Executivite
B+	3.33	70 - 74	Credit
В	3.00	65 - 69	Crount
B-	2.67	60 - 64	
C+	2.33	55 - 59	Dage
С	2.00	50 - 54	Pass
C-	1.67	45 - 49	
D	1.00	40 - 44	Fail
F	0.00	<40	

Dean's List

Students achieving excellent academic performance (with GPA \geq 3.5, credits \geq 12), are accorded Dean's List Award. This award is in accordance with the *Peraturan Akademik Pengajian Ijazah Sarjana Muda* UNIMAS.

Programme	Degree Awarded
Resource Biotechnology	Bachelor of Science with Honours (Resource Biotechnology) Sarjana Muda Sains dengan Kepujian (Bioteknologi Sumber)
Chemistry	Bachelor of Science in Chemistry with Honours Sarjana Muda Sains Kimia dengan Kepujian
Aquatic Resource Science and Management	Bachelor of Science with Honours (Aquatic Resource Science and Management) Sarjana Muda Sains dengan Kepujian (Sains dan Pengurusan Sumber Akuatik)
Plant Science	Bachelor of Plant Science with Honours Sarjana Muda Sains Tumbuhan dengan Kepujian
Animal Resource Science and Management	Bachelor of Science with Honours (Animal Resource Science and Management) Sarjana Muda Sains dengan Kepujian (Sains dan Pengurusan Sumber Haiwan)
Agrotechnology	Bachelor of Science in Agrotechnology with Honours Sarjana Muda Sains Agroteknologi dengan Kepujian

Degree Awarded

Softskill Programme

This programme aims to enable students to acquire knowledge and competencies to help them persue their study in UNIMAS, prepare them for the working environment and improve their employability. Students are required to attend 120 hours of soft skill activities. This 3 credits programme must be completed as a requirement for graduation by all students effective 2008/2009 intake.

The programme consists of two components: 80 hours of co-curricular activities, and 40 hours of soft skills.

i) Co-Curricular Activities

Co-Curricular activities include the following:

- a) Sports and Recreation
- b) Arts and Culture
- c) Training and Soft Skill

ii) Soft Skills Course

The personal development course covers the 11 modules as follows:

- a) Communication Skills
- b) Critical Thinking and Problem-Solving Skills
- c) Teamwork Skills
- d) Continuous Learning and Information Management
- e) Professional Ethics and Morality
- f) Leadership Skills
- g) Entrepreneurship
- h) Self-Management
- i) Career Management
- j) Nation Building
- k) Current Issues

Final Year Project

The Final Year Project (FYP) is a partial requirement for graduation leading to the Bachelor of Science degree with Honours (BSc. Hons) in the prescribed fields of knowledge, namely Resource Biotechnology, Chemistry, Aquatic Resource Science and Management, Plant Science and Animal Resource Science and Management. The FYP offers students the opportunity to propose, design, undertake and finally report an intensively-supervised independent research.

The FYP is an important piece of work because it is a high-level form of undergraduate education. This is because an excellent FYP accomplishment can only be achieved through the synthesis of both general and specific knowledge acquired through formal lectures, information mining from published work, data collection and analysis. Moreover, the involvement of the elements of innovation requires creativity, skills and original thinking. Thus, FYP is considered as the pinnacle of undergraduate studies.

RESOURCE BIOTECHNOLOGY

Introduction

Biotechnology plays a crucial role in the fields of agriculture, food production, livestock breeding, environmental protection and restoration, medical and health care and resource-based industries in Malaysia. The government has recently recognised the importance of biotechnology which has been identified as one of the national priority Research & Development (R&D) programme.

To meet this objective, Resource Biotechnology students in this programme will be trained in the latest technologies such as recombinant DNA technology, cell and tissue culture, genetic engineering and other molecular techniques, which are essential for Biotechnology research. Final year students can specialize in one of the following major branches of biotechnology: plant, animal, environmental, marine, and medical. In addition, students will be exposed to various social economic applications relevant to biotechnology industries.

At present, the Resource Biotechnology programme has 18 academics and 6 support staffs. The programme manages 14 research laboratories, 8 communal instrument facilities and 3 Biotechnology teaching laboratories.

Programme Educational Objective (PEO)

The programme shall produce graduates who are:

- 1) Knowledgeable and skilful in science related to Biotechnology in line with the national and industrial needs.
- 2) Able to communicate effectively and confidently, work in a team-oriented environment and show good leadership qualities
- 3) Able to solve problems in the field of biotechnology in innovative, creative and ethical ways using technical, digital and numerical skills.
- 4) Able to demonstrate entrepreneurial skills and recognize the importance of lifelong learning needs using a broad range of information.
Upon graduating from this program, the students are able to:

- 1) Be knowledgeable and capable in the concepts of Biotechnology.
- 2) Analyze and interpret data of related knowledge and information in order to suggest solutions related to Biotechnology.
- 3) Perform experiments based on guided manuals and conduct basic guided research to generate reliable data for scientific report, individually or in a group.
- 4) Work together with different people in diverse learning and working communities in the field of Biotechnology as well as other groups locally and internationally.
- 5) Communicate effectively, both orally and in writing with peers and others.
- 6) Analyze, interpret and present data using digital skills.
- 7) Analyze and interpret numerical and graphical data related to Biotechnology.
- 8) Demonstrate problem solving skills in the context of specialization by working collaboratively as a group member or a leader in a group to solve problems using scientific approaches.
- 9) Explore and generate commercialization prospects creatively and innovatively in performing various planned learning activities.
- 10) Integrate effectively in self-directed life- long learning and professional pathways.
- 11) Demonstrate an understanding and awareness of biosafety, ethical, legal, commercial and social issues related to biotechnology

	YEAR 1						
	Semester 1			MU	MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STB1013	Cell Biology	Core	3	/	/	/	
STB1083	Biochemistry	Core	3	/	/	/	
STB1093	Microbiology	Core	3	/	/	/	
STF1113	Diversity of Life	Core	3	/	/	/	
PPD1041	Soft Skills & Basic Volunteerism	Remedial	1	/	/	/	
MPU3192	Appreciation of Ethics and Civilization	MPU	2	/	/	/	
MPU3142	Communication in Malay Language 2 *						
MPU3222	Foundation of Entrepreneurship Inculturation	MPU	2	/	/	/	
PBI1112	Preparatory English 1	Remedial	2	/	-	-	
PBI1102	Academic English 1	Generic		-	/	-	
PBI1092	Academic English 2	Generic		-	-	/	
Total (Local)				19	19	19	
	Total (International Stude	ents)		19	19	19	

Courses in Resource Biotechnology Programme

Semester 2				MU	IUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STB1033	General Genetics	Core	3	/	/	/	
STT1043	Plant Physiology	Core	3	/	/	/	
STK1213	Analytical Chemistry 1	Core	3	/	/	/	
STK1211	Practical for Analytical Chemistry	Core	1	/	/	/	
STF1153	Biostatistics	Core	3	/	/	/	
MPU34x2	Credited Co-curricular	MPU	2	/	/	/	
MPU3182	Philosophy and Current Issue**	MPU	2	/	/	/	
PBI1072	English for Professional Communication	Generic	2	-	/	-	
PBI1082	English for Occupational Purposes			-	-	/	
MPU3342	Malaysian Culture and Ethnicity*	MPU	2	/	/	/	
PBI1122	Preparatory English 2	Remedial	2	/	-	-	
Total (Local Students)				19	19	19	
	Total (International Students)				21	21	

	YEAR 2						
	Semester 1				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STB2013	Advanced Microbiology	Core	3	/	/	/	
STB2043	Advanced Biochemistry	Core	3	/	/	/	
STB2052	Developmental Biology	Core	2	/	/	/	
STB2093	Cell and Tissue Culture	Core	3	/	/	/	
STB2122	Advanced Genetics	Core	2	/	/	/	
STB2192	Animal Biotechnology	Core	2	/	/	/	
PBM2072	Malay Language	Generic	2	/	/	/	
PBM2082	Advanced Malay Language for Communication*						
MPU3372	Integrity and Anti- Corruption	MPU	2	/	/	/	
PBI1102	Academic English 1	Generic	2	/	-	-	
	Total (Local Students)			21	19	19	
	Total (International Students)				17	17	

Semester 2				MU	U ET (Bar	nd)
Code	Course	Status	Credit	1-2	3	4-6
STF2083	Scientific Communication	Core	3	/	/	/
STB2153	Virology and Immunology	Core	3	/	/	/
STB2163	Recombinant DNA Technology	Core	3	/	/	/
STH2203	Animal Physiology	Core	3	/	/	/
STB2242	Plant Biotechnology	Core	2	/	/	/
PBI1072	English for Professional Communication	Generic	2	/	-	-
XXUxxx3	University Elective Course 1	Elective University	3	/	/	/
Total (Local Students)				19	17	17
Total (International Students)				19	17	17

	YEAR 3							
Semester 1				Μ	MUET (Band)			
Code	Course	Status	Credit	1-2	3	4-6		
STF3013	Final Year Project I	Core	3	/	/	/		
STB3593	Socio-economic and Ethical Issues in Biotechnology	Core	3	/	/	/		
STB3123	Bioinformatics	Core	3	/	/	/		
STB3182	Instrumentation and Laboratory Management	Core	2	/	/	/		
STB3053	Bioprocess Technology	Core	3	/	/	/		
STB3613	Enzymology	Core	3	/	/	/		
XXUxxx3	University Elective Course 2	Elective University	3	/	/	/		
Total (Local Students)				20	20	20		
Total (International Students)				20	20	20		

Semester 2				Μ	MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STF3015	Final Year Project II	Core	5	/	/	/	
STB3603	Functional Genomics and Proteomics	Core	3	/	/	/	
STB3xx3	Programme Elective I	Programme	3	/	/	/	
STB3xx3	Programme Elective II	Elective	3	/	/	/	
STB3xx3	Programme Elective III		3	/	/	/	
STB3xx3	Programme Elective IV		3	/	/	/	
Total (Local Students)					20	20	
Total (International Students)				20	20	20	

List of Programme's Elective Courses (Choose 4)

Code	Course
STB3223	Medical Biotechnology
STB3623	Environmental Biotechnology
STB3633	Food Biotechnology
STB3643	Industrial Biotechnology
STB3653	Food Safety Industrial Management
STB3663	Applied and Industrial Enzymology

Semester 3				MUET (Band)			
Code	Course	Status	Credit	1-2	3	4-6	
STF3136	Industrial Training	Core	6	/	/	/	
Total				6	6	6	

MUET (Band)	Core	Programm e Elective	General Studies Course (GES)/ MPU	Generic	University Elective	Remedial	Total Credit Hours
1-	85	12	10	6	6	5	124
3-	85	12	10	6	6	1	120

Notes:

*Courses offered for international students only

**Courses offered only for both local and international students

For more information: please refer page 83 (University Courses); page 84 (Generic

English Courses); page 87 (MPU Courses); page 89-92 (Elective Courses)

CHEMISTRY

Introduction

Chemistry programme is designed as a central discipline in the study of resource science. Students will be taught various sub-disciplines of chemistry with adequate coverage so that graduates will attain a broad understanding of the relevance of chemistry.

The programme has been designed to provide students with a comprehensive training in chemistry. At the same time, students' sustainable thinking in managing the natural resources will be nurtured. Such skills will enhance the nation's research capabilities in utilizing our rich natural resources.

All courses in Chemistry programme are supported by small group teaching. Learning takes place in classrooms and laboratory settings in the area of organic, inorganic, physical, analytical, environmental and natural products chemistry. Students can specialize by undertaking final year project in a research area of interest, supported by the state-of-the art research facility.

At present, the Chemistry programme has 17 academics and 6 support staff. The programme manages 23 research and teaching laboratories, of which 7 are instrument laboratories.

The future ready Chemistry curriculum has been formulated to transform individual into a versatile and competent chemist. Graduates of Chemistry programme can continue professionally in research institutes, industry, government sectors and graduate school after their graduation. It is hoped that they can contribute meaningfully to the nation's quality of life and economic development through best environmental management practices.

Programme Educational Objective (PEO)

The programme shall produce graduates who are:

- 1) Knowledgeable and technically competent in the field of chemistry in line with industry requirement locally and globally.
- 2) Effective in communication, perform well as a team player and demonstrate good leadership qualities in an organisation.
- 3) Capable to solve problems related to the field of chemistry, creatively, innovatively, ethically, using numerical and technical skills, and through sustainable approach.
- 4) Able to demonstrate entrepreneurship skills and recognise the need of lifelong learning, as well using a broad range of information, media and technology applications for successful career advancement.

Upon graduating from this programme, the students are able to:

- 1) Describe fundamental knowledge and principles in chemistry and its application
- 2) Apply critical thinking to solve problems related to chemistry using scientific approach
- 3) Demonstrate practical skills in chemistry through experiment, case study, and research
- 4) Work effectively in a team in diverse learning and working communities in the field of chemistry as well as other groups locally and internationally
- 5) Relate ideas both in written or orally using appropriate forms of presentation confidently, accurately and coherently in a well-structured manner to a diversity of audiences
- 6) Use a broad range of information, media and technology applications to support study and/or work
- 7) Integrate numerical and graphical/visual data for study/work
- Work autonomously, and demonstrate decision making capacities, accountabilities, leadership and professionalism within broad organizational parameters
- 9) Demonstrate self directed lifelong learning for professional development
- 10) Demonstrate entrepreneurial competency with selected projects, including appreciation of broader socio-economic issues at local/national level
- 11) Demonstrate professionalism, positive values, good attitudes and good etiquette as a chemist

	YEAR	1					
	Semester 1			MU	UET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STK1853	Physical Chemistry	Core	3	/	/	/	
STK1201	Practical for Physical Chemistry	Core	1	/	/	/	
STK1863	Analytical Chemistry	Core	3	/	/	/	
STK1211	Practical for Analytical Chemistry	Core	1	/	/	/	
STB1093	Microbiology	Core	3	/	/	/	
PPD1041	Soft Skills and Basic Volunteerism	Remedial	1	/	/	/	
MPU3192	Appreciation of Ethics and	MPU		/	/	/	
	Civilization		2				
MPU3142	Malay Language for	MPU		/	/	/	
	Communication 2 *						
MPU3222	Foundation of Entrepreneurship	MPU	2	/	/	/	
	Inculturation						
PBI1112	Preparatory English I	Remedial		/	-	-	
PBI1102	Academic English I	Generic	2	-	/	-	
PBI1092	Academic English II	Generic		-	-	/	
Total (Loca	l and International students)			18	18	18	

Courses in Chemistry Programme

YEAR 1							
	Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STK1873	Inorganic Chemistry	Core	3	/	/	/	
STK1121	Practical for Inorganic Chemistry	Core	1	/	/	/	
STK1883	Statistics and Chemometrics	Core	3	/	/	/	
STF1023	Introduction to Ecology	Core	3	/	/	/	
XXUxxx3	University Elective Course 1	Elective	3	/	/	/	
MPU34x2	Credited Co-curricular	MPU	2	/	/	/	
MPU3182	Philosophy and Current Issues **	MPU	2	/	/	/	
PBI1072	English for Professional	Generic		-	/	-	
	Communication		2				
PBI1082	English for Occupational Purposes	Generic		-	-	/	
PBI1122	Preparatory English 2 *	Remedial		/	-	-	
Total (Loca	Total (Local and International students)					19	

	YEAH	R 2					
	Semester 1			M	MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STK2973	Analytical Techniques	Core	3	/	/	/	
STK2893	Kinetics and Thermodynamic Chemistry	Core	3	/	/	/	
STK2903	Organic Chemistry	Core	3	/	/	/	
STK2911	Practical for Organic Chemistry	Core	1	/	/	/	
STK2923	Transition Metals and Organometallic Chemistry	Elective	3	/	/	/	
STK2933	Coordination Chemistry	Program					
STK2943	Environmental Chemistry	Elective	3	/	/	/	
STK2953	Environmental Aquatic Chemistry	Program					
PBM2072	Malay Language	Remedial	2	/	/	/	
PBI1102	Academic English I	Generic	2	/	-	-	
Total (Local and International students)					18	18	

YEAR 2								
	Semester 2			MUET (Band)				
Code	Course	Status	Credit	1-2	3	4-6		
STB1083	Biochemistry	Core	3	/	/	/		
STK2073	Scientific communication and Research Ethics	Core	3	/	/	/		
STK2963	Organic Chemistry of Functional Groups	Core	3	/	/	/		
STK2983	Waste Management and Toxicology	Core	3	/	/	/		
XXUxxx3	University Elective Course 2	Elective	3	/	/	/		
MPU3342	Culture and Etnicity in Malaysia *	GES	2	/	/	/		
PBI1072	English for Professional Communication	Generic	2	/	-	-		
STK21063	Frontiers in Chemistry: Catalysis and Photocatalysis	Program Elective	3	/	/	/		
STK21073	Frontiers in Chemistry: Green and Sustainable Chemistry							
Total (local students)				20	18	18		
Total (International students)				22	20	20		

YEAR 3									
	Semester 1			Μ	MUET (Band)				
Code	Course	Status	Credit	1-2	3	4-6			
STF3013	Final Year Project 1	Core	3	/	/	/			
STK31003	Terrestrial Natural Product	Program	3	/	/	/			
	Chemistry	Elective							
STK31013	Marine Natural Product Chemistry								
STK3093	Environmental Management System	Program	3	/	/	/			
STK31023	Laboratory Management System	Elective							
STK31033	Food Chemistry and Technology	Program	3	/	/	/			
STK31043	Food Chemistry and Analysis	Elective							
STK31123	Polymer Chemistry	Program	3	/	/	/			
STK31133	Materials Chemistry	Elective							
XXUxxx3	University Elective Course 3	Elective	3	/	/	/			
MPU3372	Integrity and Anti-Corruption	MPU	2	/	/	/			
Total (Local students)				20	20	20			
Total (Inter	national students)			18	18	18			

	YEAR 3						
	Semester 2			Μ	MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STF3015	Final Year Project 2	Core	5	/	/	/	
STK31053	Petroleum Chemistry	Core	3	/	/	/	
STK31083	Industrial Inorganic Chemistry	Program	3	/	/	/	
STK31093	Industrial Organic Chemistry	Elective					
STK31103	Medicinal Chemistry and drug	Program	3	/	/	/	
	development	Elective					
STK31113	Pharmaceutical chemistry						
STK31143	Forensic Toxicology and Drug	Program	3	/	/	/	
	Abuse	Elective					
STK31153	Forensic Fire and Arson						
STK31163	Organic Synthesis and Drug	Program	3	/	//		
	Discovery	Elective					
STK31173	Organic Synthesis and Functional						
	Materials						
Total (Local	and International students)			20	20	20	

YEAR 4								
Semester 1					UET (B	and)		
Code	Course	Status	Credit	1-2	3	4-6		
STF41612	Industrial Training	Core	12	/	/	/		
Total (Local and International students)					12	12		

MUET (Band)	Core	Program Elective	General Studies Course (GES/ MPU)	Generic	Elective	Remedial	Total Credit Hours
1-2	66	33	10	6	9	5	129
3-6	66	33	10	6	9	1	125

Notes:

*Courses offered for international students only

**Courses offered only for both local and international students

AQUATIC RESOURCE SCIENCE AND MANAGEMENT

Introduction

Aquatic Resource Science and Management programme aims to provide students with a sound understanding of the various aquatic ecosystems and resources, to ensure these resources could be utilized for socio-economic and other benefits in a sustainable way.

The programme offers courses that are designed for graduates to have the scientific background, knowledge and expertise to undertake research and development, as well as be innovative, especially in the exploitation and conservation of aquatic resources. The programme also emphasizes the promotion of public awareness and the importance of preserving and conserving aquatic ecosystems and resources for the benefit of future generations.

To fulfill the market needs and contribute to the social and national development, graduates from this programme will have the opportunity to work in government agencies, private agencies, and non-government agencies.

At present, this programme has 12 academic staffs and 6 support staffs working mutually to assure the highest quality of teaching, learning and research. We are equipped with research and teaching laboratories, museum and instrumentation relevant to the programme needs.

Programme Educational Objectives (PEO)

The graduates of the programme are expected to be:

- 1) Knowledgeable in aquatic resource science and management related discipline in-line with the industry requirement
- 2) Effective in communication and demonstrate good leadership quality in an organization
- 3) Capable to solve aquatic resource science and management related problems innovatively, creatively and ethically
- 4) Able to demonstrate and recognize the need of lifelong learning for successful career advancement.

Upon graduating from this programme, the students are able to:

- 1) Be knowledgeable in the field of aquatic science and management.
- 2) Be skilled in managing and preserving aquatic resources in a sustainable manner.
- 3) Demonstrate professional skills in their respective fields, and responsibility in assisting development in accordance with the social, community and global needs.
- 4) Honour knowledge and behave consistently with high credibility and ethical values.
- 5) Communicate effectively with a range of stakeholders.
- 6) Apply their knowledge and skills in problem solving and decision making in various areas related to aquatic science.
- 7) Manage information effectively towards professional development and enhance their knowledge on a continuous basis to meet global challenges.
- 8) Demonstrate specific skills in working collaboratively as a management team and entrepreneurship in the aquatic science-based industries.

YEAR 1								
	Semester 1			MUET (Band)				
Code	Course	Status	Credit	1-2	3	4-6		
STA1013	Physical Oceanography	Core	3	/	/	/		
STA1043	Aquatic Chemistry	Core	3	/	/	/		
STA1223	Aquatic Instrumentation & Methodology I	Core	3	/	/	/		
STF1093	Statistics for Biology 1	Core	3	/	/	/		
STB1033	General Genetics	Core	3	/	/	/		
MPU3222	Foundation of Entrepreneurship Inculturation	MPU	2	/	/	/		
PPD1041	Softskills and Basic Volunteerism	Remedial	1	/	/	/		
MPU3192	Appreciation of Ethics and Civilization	MPU	2	/	/	/		
MPU3142	Communication in Malay Language 2*			/	/	/		
	Total					20		

Courses in Aquatic Resource Science and Management Programme

	Semester 2			MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STA1233	Aquatic Instrumentation and Methodology II	Core	3	/	/	/
STA1833	Biological Oceanography	Core	3	/	/	/
STB1083	Biochemistry	Core	3	/	/	/
STF1023	Introduction to Ecology	Core	3	/	/	/
STF1053	Biodiversity	Core	3	/	/	/
MPU34x2	Credited Co-curricular	MPU	2	/	/	/
MPU3342	Malaysian Culture and Ethnicity*	MPU	2	/	/	/
PBI1112	Preparatory English 1	Remedial	2	/	-	-
PBI1102	Academic English 1	Generic		-	/	-
PBI1092	Academic English 2	Generic		-	-	/
Total (Local Students)				19	19	19
	Total (International Students)					21

	YEAR 2								
	Semester 1			MUET (Band)					
Code	Course	Status	Credit	1-2	3	4-6			
STA2023	Aquatic Vertebrates	Core	3	/	/	/			
STA2053	Marine and Freshwater Invertebrates	Core	3	/	/	/			
STA2193	Limnology	Core	3	/	/	/			
STA2473	Aquaculture	Core	3	/	/	/			
STA2503	Conservation Genetics in Aquatic Ecosystem	Core	3	/	/	/			
XXUxxx3	University Elective Course 1	Elective	3	/	/	/			
PBI1072	English for Professional Communication	Generic	2	-	/	-			
PBI1082	English for Occupational Purposes			-	-	/			
PBI1122	Preparatory English 2	Remedial	2	/	-	-			
	Total					20			

	Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STA2043	Mangrove and Estuarine Ecology	Core	3	/	/	/	
STA2073	Coral Reef Ecology	Core	3	/	/	/	
STA2433	Aquatic Botany	Core	3	/	/	/	
STB1093	Microbiology	Core	3	/	/	/	
STF1103	Statistics for Biology 2	Core	3	/	/	/	
STF2083	Scientific Communication	Core	3	/	/	/	
PBI1102	Academic English 1	Generic	2	/	-	-	
Total					18	18	

Semester 3				Μ	MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STF2125	Industrial Training	Core	5	/	/	/	
Total					5	5	

	YEAR 3									
	Semeste			MUET (Band)						
Code	Course	Status	Credit	1-2	3	4-6				
STA3023	Ecotoxicology	Core	3	/	/	/				
STF3013	Final Year Project 1	Core	3	/	/	/				
STH3013	Environmental Law	Core	3	/	/	/				
PBI1072	English for Professional Communication	Generic	2	/	-	-				
PBM2072	Malay Language	Generic	2	/	/	/				
PBM2082	Advanced Malay Language for Communication*	-								
XXUxxx3	University Elective Course 2	Elective	3	/	/	/				
STB1013	Cell Biology	Core	3	/	/	/				
MPU3372	Integrity and Anti-Corruption	MPU	2	/	/	/				
	Total (Local Students)	1	1	21	19	19				
	Total (International Stude	nts)		19	17	17				

	Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STA3013	Inland and Coastal Fisheries	Core	3	/	/	/	
STA3033	Coastal Zone Management	Core	3	/	/	/	
STF3015	Final Year Project 2	Core	5	/	/	/	
STF3033	Environmental Impact Assessment	Core	3	/	/	/	
XXUxxx3	University Elective Course 3	Elective	3	/	/	/	
MPU3182	Philosophy and Current Issue**	MPU	2	/	/	/	
Total				19	19	19	

MUET (Band)	Core	General Studies Course (GES)	Generic	Elective	Remedial	Total Credit Hours
1-2	94	10	6	9	5	124
3-6	94	10	6	9	1	120

Notes:

*Courses offered for international students only

**Courses offered only for both local and international students

PLANT SCIENCE

Introduction

Plant Science programme provides comprehensive knowledge and management skills for sustainable and conservation of plant resources in numerous sectors including agriculture, forestry, landscape, biotechnologyetc. These sectors have been recognized as among the important drivers of our country economic growth and development.

In fact, the plant science students will gain fundamental experiences which essential in food and crop production, plant management and improvement, environment and landscape restoration, towards enhancing the quality of life globally. Indeed, this is a great advantage for students to establish their career in the related field of plant science and plantation management.

The core and specialized courses provide strong scientific knowledge and application technology for management of agriculture and forest plantation as well as other plant resources.

For the elective courses, students will have the opportunity to select any courses of their interest to broaden their knowledge in other fields offered by other programmes within the faculty or from other faculties in UNIMAS.

The generic courses would strengthen the student's soft skill, interpersonal development and capabilities. Students are required to undertake industrial training in any private or government agencies for job experience and self-evaluation for their future career.

At present, this programme has 8 academician and 7 support staffs that would assist in teaching and research activities. The programme manages the Plant Research Centre and equipped with 7 research and teaching laboratories.

Programme Educational Objectives (PEO)

The graduates of the programme are expected to:

- 1) Be knowledgeable and technically competent in the field of plant science related discipline in line with industry requirement locally and globally.
- 2) Be effective in communication, perform well as a team player and demonstrate good leadership qualities in an organization.
- 3) Be capable to solve problems related to the field of plant science, creatively, innovatively, ethically, using numerical and technical skills, and through sustainable approach.
- 4) Be able to demonstrate entrepreneurship skills and recognize the need of lifelong learning, as well using a broad range of information, media and technology applications for successful career advancement.

Programme Learning Outcomes (PLO)

Upon graduating from this programme, the students are able to:

- 1) Describe advanced and comprehensive theoretical and technical knowledge, and demonstrate relevant skills in a specialized field, or of a multidisciplinary nature related to the field of plant science.
- Apply critical, analytical and evaluation skills to resolve complex application and unpredictable issues with creative and innovative solution(s) in the field of plant science.
- 3) Perform a range of essential methods and procedures, including reviewing, making adjustments and supervising related practices and processes to solve a broad range of complex problems in the field of plant science.
- 4) Work together with different people in diverse learning and working communities in the field of plant science as well as other groups locally and internationally.
- 5) Relate ideas both in written or oral forms using appropriate and different forms of presentation, confidently, accurately and coherently in appropriate context in a well-structured manner to a diversity of audiences.
- 6) Use a broad range of information, media and technology applications to support study and/or work.
- 7) Combine numerical and graphical/visual data for study/work.

- Work autonomously, and demonstrate decision making capacities, accountabilities, leadership and professionalism within broad organizational parameters.
- 9) Integrate effectively in self-directed lifelong learning and professional pathways.
- 10) Demonstrate entrepreneurial competency with selected project(s), including appreciation of broader socio-political economic and cultural issues at local/national and regional level.
- 11) Identify ethical issues, make decision ethically, and act professionally within the varied social and professional environment and practice, as well as local and global issues relating to science, technology, business, social and environmental issues.

YEAR 1								
	Semester 1			MUET (Band)				
Code	Course	Status	Credit	1-2	3	4-6		
STT1053	Tropical Plant Ecology	Core	3	/	/	/		
STT1022	Soil Science	Core	2	/	/	/		
STT1043	Plant Physiology	Core	3	/	/	/		
STF1053	Biodiversity	Core	3	/	/	/		
MPU3222	Foundation of Entrepreneurship Inculturation	MPU	2	/	/	/		
MPU3192	Appreciation of Ethics and Civilization		2	/	/	/		
PPD1041	Soft Skills & Basic Volunteerism	Remedial	1	/	/	/		
PBI1112	Preparatory English 1	Remedial	2	/				
PBI1102	Academic English 1**	Generic	2		/			
PBI1092	Academic English 2**	Generic	2			/		
	Total			18	18	18		

Courses in Plant Science Programme

	Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STT1073	Botany	Core	3	/	/	/	
STT1083	Introduction to Plant Genetics	Core	3	/	/	/	
STB1083	Biochemistry	Core	3	/	/	/	
STT1363	Soil Fertility and Plant Nutrition Management	Core	3	/	/	/	
MPU3182	Philosophy and Current Issue***	MPU	2	/	/	/	
PBM2072	Malay Language	Generic	2	/	/	/	
MPU34x2	Credited Co-curricuular	MPU	2	/	/	/	
PBI1102	Academic English 1**	Generic	2	/			
PBI1092	Academic English 2**	Generic	2		/		
	Total					18	

	YEAR 2								
	Semester 1			MUET (Band)					
Code	Course	Status	Credit	1-2	3	4-6			
STT2113	Plant Propagation	Core	3	/	/	/			
STT2343	Taxonomy of Vascular Plant	Core	3	/	/	/			
STT2513	Plant Conservation Genetics	Core	3	/	/	/			
STT2453	Plant Diversity and Utilization	Elective	3	/	/	/			
STT2353	Or Plant Molecular Systematic Or	Programme	3	/	/	/			
STT2103	Mycology (Choose any TWO from these courses)		3	/	/	/			
XXUxxx3	University Elective Course 1	Elective University	3	/	/	/			
PBI1092	Academic English 2	Generic	2	/					
	Total			20	18	18			

	Semester 2					MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6		
STT2373	Field Sampling Technique	Core	3	/	/	/		
STT2383	Statistics for Plant Science	Core	3	/	/	/		
STT2393	Research Methodology and Scientific Communication	Core	3	/	/	/		
STT2463	Environment and Natural Resource Economics Or	Elective Programme	3	/	/	/		
STT2323	Plant Pathology Or		3	/	/	/		
STT2473	Wood Science and Technology (Choose any TWO from these courses)		3	/	/	/		
MPU3372	Intergrity and Anti-Corruption	MPU	2	/	/	/		
XXUxxx3	University Elective Course 2	Elective University	3	/	/	/		
MPU3342	Malaysian Culture and Ethnicity*	MPU	2	/	/	/		
Total (Local Students)					20	20		
	Total (International Students)							

YEAR 3									
	Semester 1			MU	ET (Ba	nd)			
Code	Course	Status	Credit	1-2	3	4-6			
STF3013	Final Year Project 1	Core	3	/	/	/			
STT3403	Plant Protection	Core	3	/	/	/			
STT3413	Biodiversity Governance and	Elective	3	/	/	/			
STF3023 STT3483	Conservation Or Remove Sensing and GIS Or Plant Secondary Metabolites	Programme	3 3	/	/	/			
STT3493	Or Natural Resource Management and Legislation (<i>Choose any THREE from these</i> <i>courses</i>)		3	/	/	/			
XXUxxx3	University Elective Course 3	Elective University	3	/	/	/			
	Total			18	18	18			

	Semester 2			MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STF3015	Final Year Project 2	Core	5	/	/	/
STT3503	Forest Science and Management	Core	3	/	/	/
STT3423	Wetland Ecosystem	Elective	3	/	/	/
STT3443	Or Special Topics in Plant Conservation Or	Programme	3	/	/	/
STT3433	Plantation Crop Management (Choose any TWO from these		3	/	/	/
STT3023	Advanced Crop Protection and Management Or	Elective Programme	3	/	/	/
STT3173	Nature-Based Recreation and Ecotourism Or		3	/	/	/
STT3033	Environmental Impact Assessment (Choose any TWO from these courses)		3	/	/	/
	Total	· ·		20	20	20

YEAR 4								
Semester 1				MUET (Band)				
Code	Course	Status	Credit	1-2	3	4-6		
STF41612	Industrial Training	Core	12	/	/	/		
Total				12	12	12		

MUET (Band)	Core	GES/ MPU	Generic	Elective University	Elective Programme	Remedial	Total Credit Hours
1-2	67	10	6	9	33	3	128
3	67	10	6	9	33	1	126
4-6	67	10	4	9	33	1	124

Notes:

*Courses offered for international students only

**Courses offered only for both local and international students

ANIMAL RESOURCE SCIENCE AND MANAGEMENT

Introduction

The native fauna of Malaysia, well known for its uniqueness and diversity, is an important component of the nation's natural heritage. Knowledge of their composition, distribution and population dynamics as well as in-depth understanding of their habitats and ecology are important prerequisites for developing sustainable management and effective conservation strategies.

Animal Resource Science and Management programme focuses on various important fields of research and knowledge application within zoology. During the first year, fundamental courses such as biodiversity, ecology, statistics, general genetics and biochemistry will be introduced. Second year students will be exposed to specialised courses including animal systematics, animal physiology, animal nutrition, evolution and entomology. Crucial to this, students will be trained in the field to conduct data collection and sampling methods involving various animal classes (e.g. mammals, birds, amphibians, reptiles, insects, fish and other invertebrates). In addition to completing Final Year Project (FYP), environmental laws and management courses including animal pest, captive animal and park and wildlife management were designed to prepare future graduates to solve human-wildlife conflicts and formulate conservation strategies involving threatened and protected animals.

To fulfill the market needs and contribute to the social and national development, graduates from this programme will have the opportunity to work in government agencies (e.g. Department of Wildlife & National Park, Sarawak Forest Department, Sarawak Forestry Corporation, etc.), private agencies (e.g. animal farm, zoo, etc.), and non- government agencies (e.g. World Wide Fund for Nature Malaysia (WWF), Wildlife Conservation Society (WCS), etc.).

At present, the programme members comprised of 13 academicians and 6 support staffs. The programme also manages 7 research laboratories, 2 teaching laboratories and a museum.

Programme Educational Objectives (PEO)

The programme shall produce graduates who are:

- 1) Academically equipped with the fundamental knowledge and current issues related to animal resource sciences and management,
- 2) Competent in practical and problem-solving skills related to animal resource science and management,
- 3) Skillful in communication, leadership and entrepreneurship, as well as pursues lifelong learning in their chosen profession, and
- 4) Equipped with professionalism, good values and ethics, and demonstrate social skills in fulfilling professional duties or personal goals.

Upon graduating from this program, the students are able to:

- 1) Comprehend the fundamental knowledge of animal resource science and management,
- 2) Apply practical skills in animal resource science and management,
- 3) Demonstrate social skills and fulfill social responsibilities,
- 4) Practice professionalism, positive values, good attitudes and ethical behaviour in fulfilling responsibilities,
- 5) Communicate effectively when delivering information, and demonstrate leadership and team skills in fulfilling their responsibilities,
- 6) Think critically and solve problems related to animal resource science and management effectively and innovatively through scientific approaches,
- 7) Collate and manage information efficiently and perform life-long learning, and
- 8) Demonstrate entrepreneurship and managerial skills.

YEAR 1							
	Semester 1			MUET (Band)			
Code	Course	Status	Credit	1-2	3	4-6	
STB1083	Biochemistry	Core	3	/	/	/	
STF1023	Introduction to Ecology	Core	3	/	/	/	
STF1053	Biodiversity	Core	3	/	/	/	
STF1093	Statistics For Biology 1	Core	3	/	/	/	
XXUxxx3	University Elective Course 1	Elective	3	/	/	/	
PPD1041	Soft Skills & Basic Volunteerism	Remedial	1	/	/	/	
MPU3192	Appreciation of Ethics and Civilization	MPU	2	/	/	/	
MPU3142	Communication in Malay Language*						
MPU3222	Foundation of Entrepreneurship Inculturation	MPU	2	/	/	/	
PBI1112	Preparatory English 1	Remedial	2	/	-	-	
PBI1102	Academic English 1	Generic		-	/	-	
PBI1092	Academic English 2	Generic		-	-	/	
	Total			22	22	22	

Courses in Animal Resource Science and Management Programme

	Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STB1033	General Genetics	Core	3	/	/	/	
STB1093	Microbiology	Core	3	/	/	/	
STF1103	Statistics For Biology 2	Core	3	/	/	/	
STK1213	Analytical Chemistry 1	Core	3	/	/	/	
STK1211	Practicals For Analytical Chemistry 1	Core	1	/	/	/	
XXUxxx3	University Elective Course 2	Elective	3	/	/	/	
MPU34x2	Credited Co-curricular	MPU	2	/	/	/	
MPU3182	Philosophy and Current Issue**	MPU	2	/	/	/	
PBI1122	Preparatory English 2	Remedial	2	/	-	-	
Total				22	20	20	

YEAR 2								
	Semester 1			MUET (Band)				
Code	Course	Status	Credit	1-2	3	4-6		
STH2023	Animal Systematics	Core	3	/	/	/		
STH2043	Evolution and Population Genetics	Core	3	/	/	/		
STH2073	Invertebrate Biology	Core	3	/	/	/		
STH2153	Animal Nutrition	Core	3	/	/	/		
STH2313	Sampling Method and Analysis	Core	3	/	/	/		
PBM2072	Malay Language	Generic	2	/	/	/		
PBM2082	Advanced Malay Language for Communication*							
MPU3372	Integrity and Anti-Corruption	MPU	2	/	/	/		
PBI1102	Academic English 1	Remedial	2	/	-	-		
Total (Local Students)					19	19		
	Total (International Studer	nts)		19	17	17		

Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STF2083	Scientific Communication	Core	3	/	/	/
STH2083	Vertebrate Biology	Core	3	/	/	/
STH2063	Techniques in Molecular Ecology	Core	3	/	/	/
STH2093	Entomology	Core	3	/	/	/
STH2203	Animal Physiology	Core	3	/	/	/
STH2114	Field Ecology	Core	4	/	/	/
PBI1072	English for Professional Communication	Generic	2	-	/	-
PBI1082	English for Occupational Purposes			-	-	/
Total				19	21	21

Semester				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STF2125	Industrial Training	Core	5	/	/	/
Total					5	5

YEAR 3								
	Semester 1					and)		
Code	Course	Status	Credit	1-2	3	4-6		
STF3013	Final Year Project 1	Core	3	/	/	/		
STH3013	Environmental Law	Core	3	/	/	/		
STH3023	Conservation Biology	Core	3	/	/	/		
STH3123	Animal Pest Management	Core	3	/	/	/		
STH3233	Animal Population Ecology	Core	3	/	/	/		
PBI1072	English for Professional Communication	Generic	2	/	-	-		
Total					15	15		

Semester				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STF3015	Final Year Project 2	Core	5	/	/	/
STF3033	Environmental Impact Assessment	Core	3	/	/	/
STH3033	Captive Animal Management	Core	3	/	/	/
STH3324	Park and Wildlife Management	Core	4	/	/	/
XXUxxx3	University Elective Course 3	Elective	3	/	/	/
MPU3342	Malaysian Cultural and Ethnicity*	MPU	2	/	/	/
Total (Local Students)					18	18
Total (International Students)					20	20

MUET (Band) (GES)	Core	MPU	Generic	Elective	Remedial	Total Credit Hours
1-2	94	10	6	9	5	124
3-6	94	10	6	9	1	120

Notes:

*Courses offered for international students only

**Courses offered only for both local and international students

AGROTECHNOLOGY

Introduction

The Agrotechnology full time programme is offered for 8 semesters, with the minimum credit required to graduate being 129 credits. This programme will be conducted using an industry mode 2u2i structure where students will undertake courses at the university for three years (3u), and one year (1i) in the industry.

The focus of the curriculum of this programme is the combination of basic agriculture and the application of current agricultural technology by taking into account the strategic position of the state of Sarawak which is rich in diversity of agricultural resources.

Moreover, the programme will focus on modernising the agricultural sector to ensure food security. The use of modern technology will not only be a catalyst for increasing quantity, quality, and sustainability, but can also make the agricultural sector more cost-effective.

Graduates from this programme will have the opportunity to work in government agencies or in the private sector or industry. They have the opportunity to work in various research labs and private agencies, including those in the agriculture industry. Apart from that, they also have the opportunity to venture into other sectors such as tourism, entrepreneurship, and etc.

At present, this programme has 7 academicians and 7 support staffs working together to ensure the highest standards of teaching, learning, and research. The programme is supported by relevant research and teaching, laboratory equipment, and industry partners.

Programme Educational Objective (PEO)

The graduates of the programme are expected to be:

1) Knowledgeable and technically competent in the field of agricultural technology related discipline in line with industry requirement locally and globally.

2) Effective in communication, perform well as a team player and demonstrate good leadership qualities in an organization.

3) Capable to solve problems related to the field of agriculture, creatively, innovatively, ethically, using numerical and technical skills, and through sustainable approach.

4) Able to demonstrate entrepreneurship skills and recognize the need of lifelong learning, as well using a broad range of information, media and technology applications for successful career advancement.

Upon graduating from this programme, the students are able to:

1) Describe advanced and comprehensive theoretical and technical knowledge, and demonstrate relevant skills in a specialized field, or of a multidisciplinary nature related to the field of agriculture.

2) Apply critical, analytical and evaluation skills to resolve complex application and unpredictable issues with creative and innovative solution(s) in the field of agriculture.

3) Perform a range of essential methods and procedures, including reviewing, making adjustments and supervising related practices and processes to solve a broad range of complex problems in the field of agriculture.

4) Work together with different people in diverse learning and working communities in the field of agriculture as well as other groups locally and internationally.

5) Relate ideas both in written or oral forms using appropriate and different forms of presentation, confidently, accurately and coherently in appropriate context in a well-structured manner to a diversity of audiences.

6) Use a broad range of information, media and technology applications to support study and/or work.

7) Combine numerical and graphical/visual data for study/work.

8) Work autonomously, and demonstrate decision making capacities, accountabilities, leadership and professionalism within broad organizational parameters.

9) Integrate effectively in self-directed lifelong learning and professional pathways.

10) Demonstrate entrepreneurial competency with selected project(s), including appreciation of broader socio-political economic and cultural issues at local/national and regional level.

11) Identify ethical issues, make decision ethically, and act professionally within the varied social and professional environment and practice, as well as local and global issues relating to science, technology, business, social and environmental issues.

YEAR 1								
Semester 1				MU	MUET (Band)			
Code	Course	Status	Credit	1-2	3	4-6		
STG1012	Introduction to Agricultural	Core	2	/	/	/		
STG1023	Plant Science	Core	3	/	/	/		
STG1312	Soil Science	Core	2	/	/	/		
STG1323	Plant Physiology	Core	3	/	/	/		
MPU3192	Appreciation of Ethics and Civilization	MPU	2	/	/	/		
MPU3222	Foundation of Entrepreneurship Inculturation	MPU	2	/	/	/		
PPD1041	Soft Skills & Basic Volunteerism	Remedial	1	/	/	/		
Total Credits					15	15		

Courses in Agrotechnology Programme

Semester 2					MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STG1033	Biodiversity and Agriculture	Core	3	/	/	/	
STG1043	Chemistry in Agriculture	Core	3	/	/	/	
STG1053	Agronomy	Core	3	/	/	/	
STG1063	Smart Agriculture	Core	3	/	/	/	
STG1343	Soil Fertility and Plant Nutrition	Core	3	/	/	/	
MPU3182	Philosophy and Current Issues	MPU	2	/	/	/	
MPU34x2	Credited Co-curricular	MPU	2	/	/	/	
Total Credits					19	19	

YEAR 2								
	Semester 1				JET (Ba	nd)		
Code	Course	Status	Credit	1-2	3	4-6		
STG2073	Plant Protection	Core	3	/	/	/		
STG2083	Genetics and Plant Breeding	Core	3	/	/	/		
STG2093	Statistics for Agriculture	Core	3	/	/	/		
XXUxxx3	University Elective Course 1	Elective	3	/	/	/		
MPU3372	Integrity and Anti-Corruption	MPU	2	/	/	/		
PBM2072	Malay Language	Generic	2	/	/	/		
PBI1102	Academic English 1			/	/			
	Or	Generic	2					
PBI1092	Academic English 2					/		
Total Credits					18	18		

	Semester 2				MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STG2103	Weed Science	Core	3	/	/	/	
STG2113	Urban Agricultural Technology	Core	3	/	/	/	
STG2123	Agricultural Biotechnology	Core	3	/	/	/	
STG2133	Seed Science and Technology	Core	3	/	/	/	
STG2333	Research Methodology and	Core	3	/	/	/	
	Scientific Communication						
XXUxxx3	University Elective Course 2	Elective	3	/	/	/	
PBI1072	English for Professional			/	/		
	Communication						
	Or						
PBI1082	English for Occupational	Generic	2				
	Purposes					/	
	Total Credits		•	20	20	20	

	YEAR 3								
	Semester 1					MUET (Band)			
Code	Course	Status	Credit	1-2	3	4-6			
STG3143	Research Project 1	Core	3	/	/	/			
STG3173	Plant Propagation								
	Or	Elective	3	/	/	/			
STG3183	Nursery Management	Core							
STG3193	Organic Agriculture								
	Or	Elective	3	/	/	/			
STG3203	Indigenous Plant for Agriculture	Core							
STG3213	Horticulture								
	Or	Elective	3	/	/	/			
STG3223	Apiculture	Core							
XXUxxx3	University Elective Course 3	Elective	3	/	/	/			
Total Credits					15	15			

	Semester 2			MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6
STG3155	Research Project 2	Core	5	/	/	/
STG3162	Current Issues in Agriculture	Core	2	/	/	/
STG3233	Agricultural Economics					
	Or	Elective	3	/	/	/
STG3243	Agricultural Marketing	Core				
STG3253	Crop Diseases Management					
	Or					
STG3263	Invertebrate and Vertebrate Pest	Elective	3	/	/	/
	Management	Core				
STG3273	Agricultural Waste Management					
	Or	Elective	3	/	/	/
STG3283	Agricultural Quality Assurance	Core				
Total Credits				16	16	16

YEAR 4							
Semester 1				MU	JET (Ba	nd)	
Code	Course	Status	Credit	1-2	3	4-6	
STG42914	Technology in Agriculture	Core	14	/	/	/	
Total Credits					14	14	

Semester 2					MUET (Band)		
Code	Course	Status	Credit	1-2	3	4-6	
STG43012	Industrial Training	Core	12	/	/	/	
	12	12	12				

MUET (Band	Core	MPU	Generic	Elective	Remedial	Total Credit Hours
1-2	103	10	6	9	1	129
3-6	103	10	6	9	1	129

Notes:

*Courses offered for international students only

**Courses offered only for both local and international students

ACADEMIC ADVISOR SYSTEM (ACADS)

Academic Advisor System (ACADS) telah diperkenalkan di Universiti Malaysia Sarawak (UNIMAS) pada tahun 2017 untuk menggantikan sistem Mentor-Mentee.

Sistem ini diwujudkan untuk membantu pelajar mencapai kecemerlangan akademik di samping mempunyai ciri-ciri yang digariskan oleh Kementerian Pendidikan Malaysia (KPT) dalam 10 Lonjakan Pelan Pembangunan Pendidikan Malaysia (PPPM) 2015-2025 (Pendidikan Tinggi (PT)).

Pelajar-pelajar diletakkan di bawah bimbingan Penasihat Akademik (PA) daripada kalangan pensyarah sepanjang pengajian mereka di UNIMAS.

PA berperanan menasihati dan membantu pelajar menyusun strategi untuk bergraduat dengan cemerlang dan bersedia untuk menghadapi dunia selepas graduasi.

Academic Advisor System (ACADS) adalah satu sistem yang direkabentuk untuk:

- 1. Membantu PA memantau prestasi akademik dan sahsiah pelajar.
- 2. Membantu PA membuat dan menyimpan rekod janji temu dengan pelajar di bawah penasihatan akademik mereka.
- 3. Membantu Program / Fakulti untuk memantau prestasi akademik dan sahsiah pelajar, seterusnya merancang program intervensi berkaitan.

Tanggungjawab PA Pelajar

- Memberi nasihat kepada pelajar mengenai perkara akademik dan bukan akademik (secara umum).
- Menggalakkan pelajar cemerlang dalam pengajian mereka dan menjalani kehidupan yang seimbang serta fleksibel di universiti.
- Memberikan pandangan tentang penyelidikan di dalam bidang dan perspektif kerjaya.
- Memupuk nilai-nilai murni dan semangat cintakan fakulti dan universiti.
- Merujuk pelajar kepada Timbalan Dekan (Hal Ehwal Pelajar dan Alumni) (TD HEPA) sekiranya terdapat kes pelajar yang berkaitan dengan perkara selain akademik.

Tanggungjawab Pelajar

- Menyemak janji temu daripada PA melalui emel siswa dan portal pelajar dari semasa ke semasa.
- Menghadiri perjumpaan bersama-sama PA sekurang-kurangnya sekali dalam satu semester. Kegagalan berbuat demikian akan menyebabkan pelajar terhalang daripada menduduki peperiksaan akhir.
INDUSTRIAL TRAINING

Industrial training is one of the important courses in the curriculum for the undergraduate program of the Faculty of Resource Science and Technology. Industrial training is compulsory for all students in the Faculty. This course is a graduation requirement for the Bachelor Degree students of the Faculty.

Industrial training is conducted to archive these objectives:

- Expose student to practice, problems and challenges of real work and as a source of reference;
- Engender students to become outstanding graduates who are open minded, innovative, effective communicators and competitive;
- Shape a positive attitude toward the field employment option in the market;
- Encourage graduates of UNIMAS to consider permanent job opportunities in the relevant agencies in the future;
- Provide experience for the student to learn problem solving techniques encountered during work, and to be able to contribute valuable ideas to the organization;
- Create awareness among industries, government and private organizations of the abilities potentials of UNIMAS graduates;
- Provide opportunities for the organization to train and identify the locally credible university graduates.

Background of Industrial Training

The industrial training comprises of 2 components:

- Students undergo industrial training either in private/ government organization or performing community service/ research project in a community/ research organization.
- Students prepare an Industrial training report (including log books)

Introduction

In order to effectively implement the industrial training several aspects should be considered such as the ability of the agency to provide an effective work program during the placement process. Selected agency should be able to provide a capable and experienced coordinator to guide students involved in the industrial training programs.

Period and Duration

The time frame required to undergo industrial training is ten (10) weeks during intersession for Resource Biotechnology (Year 3), Aquatic Resource Science and Management (Year 2) and Animal Resource Science and Management (Year 2). Twelve (12) weeks are required for Chemistry (Sem 1 of Year 4) and Plant Science (Sem 1 of Year 4). Similarly, twelve (12) weeks are required for Agrotechnology programme during Sem 2 of Year 4.

Method of Application

Students should write an application letter for placement by using the faculty prepared format. Students could choose the organization from the list of organizations posted on faculty notice boards or identify their own preferred organization. Students must notify the Industrial Training Coordinator if they have obtained their placement within a certain period of time. Students need to update the information of the organization after a week of starting their industrial training.

Type of Industrial Training

The type of industrial training taken by the students must be in accordance to the scope of resource science and technology. The faculty will contact the organization and determine their suitability. The students are expected to carry out daily tasks as determined by the organization/supervisor and additional tasks (if necessary).

Suitable Organization

Students and faculty will work together to find a suitable organization for placement. Students are encouraged to apply for placement in an organization related to their respective field of academic study. Students must undergo industrial training only in organization that offer formal working hours and atmosphere.

Placement Briefing

There is an internship coordinator in each program. The internship coordinator will conduct an industrial training placement briefing within last three weeks of the Fourth Semester in the student academic session prior to the industrial training. All students involved in internship are required to attend.

Industrial Training Assessment

Industrial training is a **6 credits** course for Resource Biotechnology programme (STF3136), **12 credits** course for Chemistry (STF41612), Plant Science (STF41612) and Agrotechnology programme (STG43012), whereas **5 credits** course for Aquatic Resource Science and Management (STF2125) and Animal Resource Science and Management programme (STF2125). The student will be given a grade of **PASS** or **FAIL** for Industrial Training assessment.

CODE OF ETHICS SEXUAL HARASSMENT

Dasar Menangani Gangguan Seksual Di Universiti Malaysia Sarawak (UNIMAS)

1. Pengenalan

- 1.1 Dasar Menangani Gangguan Seksual (DMGS) di Universiti Malaysia Sarawak (UNIMAS) memperuntukkan dan menggariskan perkara- perkara berikut:
 - a) Maksud gangguan seksual
 - b) Bentuk-bentuk gangguan seksual dan kesan
 - c) Pernyataan tegahan dan larangan
 - d) Peranan dan tanggungjawab warga UNIMAS dalam menangani gangguan seksual
 - e) Prosedur pengendalian kes gangguan seksual
 - f) Perlindungan ke atas pengadu/saksi
 - g) Tatacara Penyelesaian
 - h) Tindakan disiplin

2. Latar Belakang

2.1 Pentadbiran negara Malaysia melihat gangguan seksual sebagai perbuatan serius yang boleh mengganggu hubungan dalam pekerjaan. Pada tahun 1993, kerajaan telah menggariskan larangan gangguan seksual dalam sektor awam melalui Peraturan 4A, Peraturan-Peraturan Awam (Kelakuan dan Tatatertib) 1993. Pada tahun 2005, kerajaan mengedarkan Pekeliling Perkhidmatan Bilangan 22 yang mengandungi dokumen Garis Panduan Mengendalikan Gangguan Seksual di Tempat Kerja Dalam Perkhidmatan Awam. Selain itu, pada tahun 1999, Kementerian Sumber Manusia memperkenalkan Kod Amalan Untuk Mencegah dan Membasmi Gangguan Seksual di Tempat Kerja untuk diguna pakai di sektor swasta.

3. Pernyataan Dasar

3.1 Universiti Malaysia Sarawak, sebagai sebuah agensi perkhidmatan awam yang merupakan badan berkanun, telah menerima pakai Pekeliling Perkhidmatan Bilangan 25 Ogos 2005. Untuk menunjukkan pihak UNIMAS tidak akan bertoleransi dengan perbuatan gangguan seksual, UNIMAS dengan ini menjadikan gangguan seksual sebagai satu bentuk salah laku yang boleh membawa kepada tindakan disiplin dan hukuman lain jika salah laku dibuktikan.

4. Takrifan

4.1 Dalam DMGS ini, melainkan jika konteksnya menghendaki makna yang lain-"universiti" merujuk kepada Universiti Malaysia Sarawak (UNIMAS);

"pelajar" merujuk kepada seseorang pelajar berdaftar yang mengikuti kursus pengajian secara sepenuh masa atau separuh masa di UNIMAS;

"warga UNIMAS" merujuk kepada kakitangan yang berkhidmat di UNIMAS, yang meliputi akademik dan bukan akademik, juga termasuk pelajar yang mengikuti pengajian secara sepenuh masa dan separuh masa di UNIMAS;

"kampus" merujuk kepada kampus UNIMAS yang meliputi semua institusi, bangunan dan asrama universiti;

"luar universiti" merujuk kepada mana-mana kawasan di luar kampus UNIMAS;

"kakitangan" merujuk kepada mana-mana perkerja yang berkhidmat untuk UNIMAS;

"orang luar" merujuk kepada individu berikut:

- a) Dia seorang yang mempunyai hubungan yang sah dengan UNIMAS untuk tujuan pembelajaran, latihan atau perantisan
- b) Dia seorang yang memasuki kontrak untuk memberi khidmat (contract for service) dengan UNIMAS
- c) Dia seorang yang bekerja secara sah dengan orang yang memasuki kontrak untuk memberi khidmat (contract for service) dengan UNIMAS
- d) Dia seorang pelawat yang mempunyai urusan yang sah dengan UNIMAS
- e) Dia seorang pelawat yang berada di premis universiti secara sah dan termasuk orang yang menerima khidmat secara sah daripada mana-mana pusat tanggungjawab UNIMAS
- f) Dia seorang yang berada di premis universiti secara tidak sah atau secara tanpa kebenaran daripada pihak UNIMAS

"pengadu" merujuk kepada pelajar atau kakitangan UNIMAS yang mendapati dirinya atau orang yang mempercayai dia mengalami gangguan seksual ataupun diganggu secara seksual dan membuat laporan rasmi berkenaan kejadian tersebut, dengan syarat bahawa orang ini mestilah mempunyai kaitan dengan UNIMAS dalam konteks berikut:

- a) Dia seorang yang memasuki hubungan pekerjaan dengan UNIMAS secara sah dan boleh dikuatkuasakan oleh undang-undang
- b) Dia seorang yang mempunyai hubungan yang sah dengan UNIMAS untuk tujuan pembelajaran, latihan atau perantisan
- c) Dia seorang yang dilantik secara sah untuk memegang jawatan awam atau jawatan berasaskan statut di UNIMAS
- d) Dia seorang yang memasuki kontrak untuk memberi khidmat (contract for service) dengan UNIMAS
- e) Dia seorang yang bekerja secara sah dengan orang yang memasuki kontrak untuk memberi khidmat (contract for service) dengan UNIMAS
- f) Dia seorang pelawat yang mempunyai urusan yang sah dengan UNIMAS
- g) Dia seorang pelawat yang berada di premis universiti secara sah dan termasuk orang yang menerima khidmat secara sah daripada mana-mana pusat tanggungjawab UNIMAS;

"pengganggu" merujuk kepada individu, sama ada kakitangan, pelajar, orang luar, yang dinamakan oleh pengadu sebagai bertanggungjawab dalam melakukan gangguan seksual atau orang yang dikatakan mengganggu pengadu secara seksual dengan syarat bahawa orang ini mestilah mempunyai kaitan dengan UNIMAS dalam konteks berikut:

- a) Dia seorang yang memasuki hubungan pekerjaan dengan UNIMAS secara sah dan boleh dikuatkuasakan oleh undang-undang
- b) Dia seorang yang mempunyai hubungan yang sah dengan UNIMAS untuk tujuan pembelajaran, latihan atau perantisan
- c) Dia seorang yang dilantik secara sah untuk memegang jawatan awam atau jawatan berasaskan statut di UNIMAS
- d) Dia seorang yang memasuki kontrak untuk memberi khidmat (contract for service) dengan UNIMAS
- e) Dia seorang yang bekerja secara sah dengan orang yang memasuki kontrak untuk memberi khidmat (contract for service) dengan UNIMAS
- f) Dia seorang pelawat yang mempunyai urusan yang sah dengan UNIMAS
- g) Dia seorang pelawat yang berada di premis universiti secara sah dan termasuk orang yang menerima khidmat secara sah daripada mana-mana pusat tanggungjawab UNIMAS
- h) Dia seorang yang berada di premis universiti secara tidak sah atau secara tanpa kebenaran daripada pihak UNIMAS

"ketua" merujuk kepada pemegang jawatan rasmi yang tertinggi di sesebuah jabatan, fakulti, unit, bahagian, pusat (center), asrama atau kolej di UNIMAS;

"tindakan disiplin" merujuk kepada prosedur disiplin yang tertakluk dalam protokol ganguan seksual ini;

"tugasan rasmi" merujuk kepada urusan yang berhubung dan berkaitan secara langsung dengan UNIMAS; dan

"gangguan seksual" merujuk kepada salah laku disiplin yang diguna pakai dalam DMGS ini.

5. Definisi Gangguan Seksual

- 5.1 Gangguan seksual bermaksud sebarang tingkah laku berunsur seksual yang tidak diingini, tidak disenangi dan memberi kesan sebagai satu gangguan sama ada secara lisan, bukan lisan, visual, psikologi atau fizikal;
 - Yang atas sebab yang munasabah, yang dianggap oleh pengadu sebagai syarat berbentuk seksual ke atas pekerjaan atau pembelajarannya; atau
 - Yang atas sebab yang munasabah, boleh dianggap oleh pengadu sebagai satu pencabulan maruah, atau penghinaan atau ancaman terhadap dirinya tetapi tiada hubungan terus ke atas pekerjaan atau pembelajarannya; dan
 - *Gangguan seksual boleh berlaku sekali atau berulang kali.*
- 5.2 Gangguan seksual dalam konteks ini diklasifikasikan seperti yang berikut:
 - Gangguan seksual berbentuk balasan atau quid pro quo Merujuk kepada gangguan berbentuk seksual, permintaan memberikan ganjaran seksual (sexual favour), atau perbuatan lisan atau fizikal atau komunikasi bertulis yang berbentuk seksual yang memberi kesan secara langsung kepada status pekerjaan kakitangan dan pembelajaran pelajar.

- Gangguan seksual yang mengancam ketenteraman peribadi kakitangan dan pelajar UNIMAS Merujuk kepada tingkah laku seksual yang dianggap oleh pengadu sebagai ancaman, ugutan dan penghinaan, tetapi tidak mempunyai kaitan secara langsung dengan faedah-faedah pekerjaan atau pembelajaran. Termasuk dalam klasifikasi ini ialah gangguan seksual sesama kakitangan atau sesama pelajar dan antara kakitangan dan pelajar, oleh orang luar yang berurusan dengan universiti terhadap kakitangan atau pelajar UNIMAS.
- 5.3 Gangguan seksual di luar kampus universiti yang timbul daripada hubungan dan tanggungjawab yang berkaitan dengan pekerjaan dan pembelajaran di universiti ini. Situasi gangguan seksual seperti ini yang boleh berlaku merangkumi (tetapi tidak terhad kepada):
 - a) Majlis sosial berhubung dengan tugasan rasmi universiti
 - b) Semasa kakitangan menjalankan tugas atau pelajar mengikuti tugasan rasmi universiti
 - c) Sesi persidangan atau latihan berkaitan dengan tujuan pekerjaan dan pembelajaran
 - d) Semasa perjalanan berkaitan dengan tugasan rasmi universiti
 - e) Melalui telefon dan media elektronik

6. Bentuk – bentuk Gangguan Seksual

- 6.1 Bentuk-bentuk gangguan seksual boleh diklasifikasikan kepada lima jenis, iaitu:
 - a. Gangguan secara lisan
 - b. Gangguan secara isyarat/ bukan lisan
 - c. Gangguan visual
 - d. Gangguan psikologi
 - e) Gangguan fizikal

7. Pernyataan Tegahan dan Larangan

7.1 Mana-mana perbuatan yang dianggap dan/atau menjurus kepada perlakuan gangguan seksual yang digariskan dalam Perkara 4 dan 5 di atas adalah bertentangan dengan DMGS UNIMAS dan dengan ini ditegah dan dilarang sama sekali. Larangan ini terpakai kepada semua kakitangan UNIMAS sama ada berjawatan tetap, kontrak atau sementara, pelajar dan orang luar semasa berada di kampus.

8. Peranan dan Tanggungjawab Warga UNIMAS

- 8.1 Gangguan seksual boleh berlaku kepada sesiapa sahaja dalam konteks hubungan dalam kalangan warga UNIMAS. Hubungan antara pengadu dengan pengganggu biasanya merupakan hubungan berbentuk hierarki atau yang disokong oleh hierarki. Untuk menangani kes gangguan seksual, penggunaan kuasa yang betul dan jujur serta menghormati hak masing – masing adalah amat penting.
- 8.2 Warga UNIMAS memainkan peranan penting untuk mempromosi dan mewujudkan persekitaran universiti yang aman dan bebas daripada segala bentuk ancaman, termasuk gangguan seksual. Hal ini boleh ditangani dengan membincangkan secara telus masalah gangguan seksual untuk mencari penyelesaian pada setiap peringkat universiti.
- 8.3 Warga UNIMAS berperanan memberi sokongan kepada seseorang yang datang meminta bantuan kerana mengalami gangguan seksual. Jika kakitangan kampus merupakan seseorang yang berada dalam kedudukan berkuasa dan boleh membantu secara formal dan sah, menjadi tanggungjawabnya untuk berbuat demikian. Kakitangan dalam kumpulan setara juga boleh membantu dengan mendapatkan maklumat berkaitan penyelesaian aduan pengadu.

9. Tindakan Yang Boleh Diambil Oleh Seseorang Yang Mengalami Gangguan Seksual

- 9.1 Apabila seseorang mempercayai dirinya mengalami gangguan seksual, dia boleh mengambil beberapa bentuk tindakan. Keputusan mengambil tindakan mestilah dibuat oleh pengadu secara sukarela, dan bukan kerana paksaan. Berikut merupakan tindakan yang boleh diambil oleh pengadu:
 - a) Memberitahu/ berkongsi masalah dengan seseorang. Pihak-pihak yang boleh dihubungi ialah Ketua di jabatan, unit, fakulti atau bahagian, rakan-rakan dan juga kakitangan universiti seperti pensyarah, penolong pendaftar, pengurus asrama dan kaunselor.
 - b) Membuat dan menyimpan catatan berkaitan insiden gangguan seksual. Catatan berkenaan haruslah dibuat secara terperinci yang boleh dan mengandungi rekod mengenai masa, tempat, keadaan dan perasaan pengadu semasa mengalami gangguan tersebut. Komunikasi pengadu kepada seseorang berkenaan insiden tersebut mungkin boleh dijadikan bukti. Jika gangguan melibatkan serangan seksual, pengadu dinasihatkan supaya segera mendapatkan rawatan perubatan dan berterus terang kepada pegawai perubatan mengenai punca kecederaan.

c) Mengakses prosedur penyelesaian gangguan seksual yang sah dan tepat.

10. Perlindungan ke atas Pengadu dan Saksi

10.1 Pengadu dan / atau saksi dalam kes gangguan seksual diberi jaminan untuk dilindungi oleh UNIMAS semasa siasatan dan perbicaraan kes berlaku dan segala maklumat ataupun aduan dianggap sebagai sulit. Langkah perlindungan ini dijalankan bagi memastikan bahawa pengadu dan / atau saksi berada dalam keadaan selamat tanpa ancaman daripada pengganggu. Sebarang pendedahan maklumat sulit yang berkaitan dengan pengadu dan / atau saksi dianggap melanggar DMGS ini dan boleh dikenakan tindakan disiplin.

11. Tatacara Penyelesaian

11.1 Mana-mana kes gangguan seksual yang berlaku di dalam UNIMAS akan diselesaikan terlebih dahulu mengikut Tatacara Penyelesaian Kes Gangguan Seksual UNIMAS sebelum tindakan disiplin di bawah Akta Akta Badan-Badan Berkanun (Tatatertib dan Surcaj) 2000 (Akta 605), ialah satu tatacara yang memperuntukkan garis panduan dan peraturan penyelesaian kes gangguan seksual.

12. Tindakan Disiplin

12.1 Prosedur tindakan disiplin untuk badan berkanun terpakai dan berkuat kuasa bagi mengadili kes gangguan seksual. Jika hasil penyiasatan mendedahkan bukti-bukti sahih yang menyokong aduan dan ia disokong, maka pelaku salah (pengganggu) akan dikenakan tindakan disiplin mengikut Akta Badan-Badan Berkanun (Tatatertib dan Surcaj) 2000 (Akta 605). Tindakan penamatan kontrak, tempoh percubaan serta pemecatan terus boleh dikenakan ke atas kakitangan yang berjawatan kontrak, sementara atau dalam tempoh percubaan serta boleh dikenakan tindakan perundangan bagi kes jenayah di bawah Kanun Keseksaan (Akta 574). Pelajar akan tertakluk kepada tindakan tatatertib di bawah Akta Universiti dan Kolej Universiti 1971 dan Kaedah - Kaedah Universiti Malaysia Sarawak (Tatatertib Pelajar-Pelajar) 1999.

13. Semakan dan Pindaan

13.1 Dasar ini akan disemak dan dipinda dari semasa ke semasa mengikut perubahan dalam undang - undang Malaysia yang berkuat kuasa dan apabila perlu berbuat demikian bagi memastikan keberkesanannya dalam membendung dan menangani masalah gangguan seksual.

14. Penutup

- 14.1 Dasar Menangani Gangguan Seksual di UNIMAS menunjukkan komitmen universiti bagi menyediakan persekitaran pekerjaan dan pembelajaran yang selamat kepada kakitangan dan pelajar UNIMAS.
- 14.2 Pendekatan yang digunakan dalam DMGS berperanan menyampaikan maklumat yang betul berkenaan masalah gangguan seksual, proses penyelesaian dan mewujudkan rasa tanggungjawab dalam kalangan warga universiti untuk menangani masalah gangguan seksual.

PHOHIBITION AGAINST PLAGIARISME

- 1) Students should not plagiarize other people ideas, writings, date or inventions belonging to another person.
- 2) For this purpose, plagiarism includes:
 - a. The acts of taking other people's ideas, writings, data or inventions of another person and claiming these as their own: or
 - b. Any attempt to make or the act of making or passing off other people's works as their own
- 3) Without compromising the broad definition given in (2) students commit plagiarism when they;
 - a. Publish any abstract or summary, scientific or academic paper, a book or part of a book written by several people as their own;
 - b. Include themselves or allow themselves to be included in any abstract or summary, scientific or academic paper, or a book without contributing anything;
 - c. Force others to include them as joint researcher or author without contributing anything;
 - d. Quote academic data based on research with other people, such as laboratory fieldwork findings, whether published or not, and claim the data as part of their academic research without acknowledging the others or the original source;
 - e. Use research data from joint research without obtaining permission from or acknowledging the other researchers;
 - f. Copy other people's ideas or work in any form, either written, printed or electronic, in slides form, teaching materials or research instruments, and claim those as their own either directly or indirectly;
 - g. Translate whole or part of other people's writing or inventions and present the translated version in any form as their own;
 - h. Quote, paraphrase or change other people's ideas from writings inventions and rearrange the ideas in any form without proper referencing.

UNIVERSITY COURSES

Table 1: University Courses: 1. Remedial; 2. Generic; 3. Mata Pelajaran Umum (MPU); and 4. University Electives

Classification	Malaysian Students		International Students	
	Course Code & Name	Credits	Course Code & Name	Credits
REMEDIAL (Compulsory for all students)	PPD1041 Soft Skills and Basic Volunteerism	1	PPD1041 Soft Skills and Basic Volunteerism	1
REMEDIAL	PBI1112 Preparatory English 1	4*	Not Applicable	-
(Compulsory for Student with MUET Band 2*)	PBI1122 Preparatory English 2			
GENERIC (Compulsory for all	PBM2072 Malay Language	2	PBM2082 Advanced Malay Language for Communication	2
students)	Two (2) English Courses • Refer Table 2 (page 75) • 2 credits for each course	4	Two (2) English Courses • Refer Table 2 (page 75) • 2 credits for each course	4
MPU (Compulsory for all students)	 Five (5) MPU Courses Refer Table 3 (page 78) 2 credits for each course 	10	 Five (5) MPU Courses Refer Table 3 (page 78) 2 credits for each course 	10
ELECTIVE (Compulsory for all students)	 Three (3) ELECTIVES Courses** Refer Table 5 (page 80-82) 3 credits for each course **Except for Resource Biotechnology Programme, all students of 2020/2021 & 2021/2022 cohort will register TWO (2) Elective Courses only 	9 6**	Three (3) ELECTIVES Courses** • Refer Table 5 (page 80-82) • 3 credits for each course **Except for Resource Biotechnology Programme, all students of 2020/2021 & 2021/2022 Cohort will register TWO (2) Electives Courses only	9 6**
	TOTAL CREDITS	26 23**	TOTAL CREDITS	26 23**

REMEDIAL COURSES

Both Malaysians and international students must enroll PPD1041 Softskill and Basic Volunteerism. This course will **ONLY** be offered in Year 1, Semester 1 for each intake.

GENERIC COURSES

Malay Language

Please note on the difference of courses that MUST be enrolled by respective Malaysian and international students.

English Courses

In general, students are **required to complete only four (4) credits** i.e. two (2) courses for English courses. **Table 2** depicts English courses that respective students MUST enroll, depending on his/ her respective English qualification. Page 85 represents the pathways for English courses for respective English qualification. Even though English courses are categorized as Generic courses, for Malaysian students who score MUET Band 1 & 2, they are required to complete to **TWO** (2) English Remedial courses.

Malaysian Students		International Students		
English Qualification	Course Code and Name	English Qualification	Course Code & Name	
MUET Band 1, 2 & 2.5	ENGLISH REMEDIAL & GENERIC COURSES. 1. PBI1112 Preparatory English 1 2. PBI1122 Prepratory English 2 AND 1. PBI1102 Academic English 1 2. PBI1072 English for Professional Communication	Not Applicable	Not Applicable	
MUET Band 3 & 3.5	Image: Communication GENERIC COURSES 1. PBI1102 Academic English I 2. PBI1072 English for Professional Communication	 MUET Band 3 OR IELTS 5.5 OR TOEFL iBT 42 OR Pearson Test of English 47 OR Cambridge English Qualifications Test 154 	GENERIC COURSES 1. PBI1102 Academic English I 2. PBI1072 English for Professional Communication	
MUET Band 4, 5 & 6	GENERIC COURSES 1. PBI1092 English for Academic Purposes 2. PBI1082 English for Occupational Purposes	 MUET Band 4-6 OR IELTS 6 OR TOEFL iBT 60 OR Pearson Test of English 59 OR Cambridge English Qualifications Test 169 	GENERIC COURSES 1. PBI1092 English for Academic Purposes 2. PBI1082 English for Occupational Purposes	

Table 2: English Courses List

Additional Information On English Remedial Courses and English Generic Courses



 Pelajar antarabangsa yang mendapat tawaran bersyarat WAJIB Julus PBIO040 Intensive English Language Programme (IELP) dan mendapat sekurang-kurangnya MUET Band 3.5 ke atas ATAU IELTS 5.0 ke atas.

Struktur pengambilan kursus ini hanya untuk pelajar ambilan semester 2022/2023 dan seterusnya (tidak terpakai untuk ambilan terdahulu).

LAMPIRAN 1

English Competency Test	Name of Component	CEFR Low B1	CEFR Mid B1	CEFR High B1	CEFR Low B2	CEFR Mid B2	CEFR High B2	
MUET	MUET	Ba	3.0	B3.5	B4	4.0	B4.5	
IELTS	IELTS	4.0	4.5	5.0	5.5	6.0	6.5	
	TOEFL IBT	30 - 31	33	40	46	60	79	
TOEFL	TOEFL Essentials (Online)	5	6.5	7.5	8	8.5	9.5	
PEARSON TEST OF ENGLISH	PTE Academic/ PTE Academic (Online)	36	43	47	51	59	63	
CAMBRIDGE ENGLISH QUALIFICATIONS AND TESTS	 B1 Preliminary, B2 First, C1 Advanced, C2 Proficiency 	140 147	140	147	154	160	169	176
	(ii) Linguaskill Online							
	 (iii) Occupational English Test (OET) (Conventional/Online) 	-	-	-	200	250	300	

Mata Pelajaran Pengajian Umum (MPU)

All students are required to complete a total of **10 credit** of General Studies or *Mata Pelajaran Pengajian Umum* (MPU) courses. It is designed to enhance the students' knowledge and skills that goes beyond the academic disciplines. Refer to: Buku Garis Panduan Pengajian Umum (2nd ed) <u>https://drive.google.com/file/d/1et2imuro5- KERLJUPgN18d03HxAzJfSY/view.</u>

There are four (4) MPU categories as outlined in MPU Guideline 2nd Edition:

- (i) U1: Penghayatan falsafah, nilai dan sejarah
- (ii) U2: Penguasaan kemahiran insaniah
- (iii) U3: Perluasan ilmu pengetahuan tentang Malaysia
- (iv) U4: Kemahiran pengurusan masyarakat yang bersifat praktikal seperti khidmat masyarakat dan kokurikulum

MPU	Malaysian Students		International Students	
Category	Course Code & Name	Credits	Course Code & Name	Credits
	MPU3192 Appreciation of Ethics	2	MPU3142 Malay Language for	2
U1	and Civilization		Communication 2	
	MPU3182 Philosphy and Current	2	MPU3182 Philosphy and Current	2
	Issues		Issues	
U2	MPU3222 Foundation of	2	MPU3222 Foundation of	2
	Entrepreneurship Inculturation		Entrepreneurship Inculturation	
U3	MPU3332 National Heritage	2	MPU3222 Malaysian Culture and	2
	OR		Ethnicity	
	MPU3352 Government and		-	
	Administration in Malaysia			
	OR			
	MPU3362 Introduction to			
	Organization Behaviour			
	OR			
	MPU3372 Integrity and Anti-			
	Corruption			
U4	MPU3432 Credited Co-curricular	2	MPU3432 Credited Co-curricular	2
	(Innovation and Initiative)		(Innovation and Initiative)	
	OR		OR	
	MPU3442 Credited Co-curricular		MPU3442 Credited Co-curricular	
	(Culture)		(Culture)	
	OR		OR	
	MPU3452 Credited Co-curricular		MPU3452 Credited Co-curricular	
	(Leadership)		(Leadership)	
	MPU3462 Credited Co-curricular		MPU3462 Credited Co-curricular	
	(volunteerism)		(volunteerism)	
	UK MDU2472 Craditad Calendration		UK MDU2472 Credited Commission	
	(France construction)		(Entrement annulation)	
	(Entrepreneursinp)		(Entrepreneursinp)	
	MPU3482 Credited Co. curricular		MPU3482 Credited Co. curricular	
	(Community Services)		(Community Services)	
	OR		OR	
	MPU3492 Credited Co-curricular		MPU3492 Credited Co-curricular	
	(Snorts)		(Snorts)	
	OR		OR	
	MPU34102 Credited Co-		MPU34102 Credited Co-	
	curricular (Public Speaking)		curricular (Public Speaking)	
	· · · · · · · · · · · · · · · · · · ·		······································	
	Total Credits for MPU	10	Total Credits for MPU	10

Table 3: List of MPU Courses

UNIVERSITY ELECTIVE COURSES

University elective course is a course taken either from other programmes within or outside the faculty. For FRST students the following credits must be completed for university elective courses:

	Programmes	Credits to be Completed
1.	Resource Biotechnology	6
2.	Chemistry	9
3.	Aquatic Resource Science and Management	9
4.	Plant Science	9
5.	Animal Resource Science and Management	9
6.	Agrotechnology	9

 Table 4: University Electives credits to be completed by FRST students

Commencing, Semester 1, 2019/2020 and for intake 2019/2020 onwards, all undergraduate students must enroll **Cluster Based Elective** Modules (Ref: Senat Meeting Bil. 06/2019 ke 182):

- i. The Elective Cluster courses will be based on the first elective course enrolled by the student. The change of cluster is allowed up until Week 4 of the semester;
- Any changes or drop-off the university's elective courses are subject to the existing work process;
- iii. In the event that a student change to another programme, any elective courses taken and passed, can be brought forward as a grade transfer. Refer to **Table 5** for the Elective Cluster courses list:

TABLE 5: LIST OF UNIVERSITY ELECTIVE COURSES OFFERED ACCORDING TO CLUSTERS

Cluster	Cluster	Course Code & Name	Semester	Faculty Offered
	Categories		Offered	
		1. MDU 1033 Healthy Lifestyle	1	Faculty of Medicine and
		2. MDU1043 Introduction to Medical Entomology	2	Health Sciences
		3. MDU1123 Introduction to Learning Disabilities	1	
		4. MDU1073 Introduction to Biomedical Physiology	1	
		5. MDU1083 Introduction to Health and Behaviour	1 & 2	
		6. MDU1013 Basic First Aid	$\frac{2}{2}$	
		7. MDU1023 Introduction to Medical Genetics	2	
		1. TMU1013 Introduction to Computer Technologies	1 & 2	Faculty of Computer
		2. TMU1023 Ethics in Information Technology	1 & 2	Science and Information
1	Science,	TMU1043 Multimedia Technology	1 & 2	Technology
	Technology and	4. TMU1053 Mathematics in Daily Life	1 & 2	
	Medicine	1. STU1013 Introduction to Biotechnology	1 & 2	Faculty of Resource
		2. STU1033 Aquatic Science and Daily Life	1 & 2	Science and Technology
		3. STU1043 Introduction to Plant Physiology	1 & 2	
		STU2063 Ecotourism Industry in Malaysia	1 & 2	
		5. STU2073 Natural Resource Managements	1 & 2	
		1. KNU1013 Introduction to Green Technology	1	Faculty of Engineering
		2. KNU1033 Energy, Environment and Society	1	
		KNU1073 Introduction to Solar Photovoltaic System	1	
		KNU1023 Engineers in Society	2	
		5. KNU1053 Safety Management in Workplace	2	
		 KMU1053 Theories and Concepts: Human Computer 	1	Faculty of Cognitive
		Interaction		Science and Human
				Development
		1. BEU1013 Building Anatomy and Basic Estimating	1	Faculty of Build
		2. BEU1033 Fundamentals of the Built Environment	2	Environment

Cluster	Cluster Categories	Course Code & Name	Semester Offered	Faculty Offered
		1. KMU1013 Helping Relationship	1 & 2	Faculty of Cognitive
		2. KMU1063 Introduction to Mental Health	1	Science and Human
2	Social Science and			Development
	Humanities	1. SSU1013 Basics of Social Science	1 & 2	Faculty of Social
		2. SSU1033 Introduction to Psychology	1 & 2	Sciences and Humanities
		SSU1023 Basics of Anthropology and Sociology	1 & 2	
		4. SSU1053 Introduction to Social Interaction	1 & 2	
		1 KMU1022 Introduction to Human Descurres Development	2	Equilty of Cognitive
		1. KW101025 Introduction to Human Resource Development	2	Science and Human
				Development
3	Business and			Development
-	Management	1. EBU1053 Online Business Management	1 & 2	
	-	2. EBU1023 Managing Small Business Accounts	1 & 2	Faculty of Economic
		3. EBU1033 Malaysian Economic Environment	1 & 2	and Business
		4. EBU2043 Introduction to Intellectual Property	1 & 2	
		5. EBU1063 Smart Money Management	1 & 2	
			1	
4	Creative Arts and	1. GKU1013 Modern Malay Drama and Theatre of Malaysia	l	Faculty of Applied and
	Design	2. GKU1033 Digital Photography and Social Media Imaging	1	Creative Arts
		5. GKU1045 History of Malaysian Cinema	1	
		4. OKU1035 HIStory of Diama and Theatre	2	
		6 GKU1003 Introduction to Stage Directing	$\frac{2}{2}$	
		7 GKU1003 Basic Figure Drawing	1	
		7. OKO1075 Basic Liguic Diawing	1	

Cluster	Cluster	Course Code & Name	Semester	Faculty Offered
	Categories		Offered	
5	Linguistic and	1. PBU1133 Arabic Language Level 1	1 & 2	Faculty of Language and
	Communication	2. PBU2143 - Arabic Language Level 2	1 & 2	Communication
		3. PBU3153 - Arabic Level 3	1 & 2	
		4. PBU1043 - Japanese Language Level 1	1 & 2	
		5. PBU2053 - Japanese Language Level 2	1 & 2	
		6. PBU3063 - Japanese Level 3	1 & 2	
		7. PBU1073 - French Level 1	1 & 2	
		8. PBU2083 - French Level 2	1 & 2	
		9. PBU3093 - French Level 3	1 & 2	
		10. PBU1103 - Mandarin Level 1	1 & 2	
		11. PBU2113 - Mandarin Level 2	1 & 2	
		12. PBU3123 - Mandarin Level 3	1 & 2	
		13. PBU0033 - Iban Language for Communication	1 & 2	
6	Special Elective	All courses listed above, from any TWO (2) of the CLUSTERS.		ALL FACULTIES

Note:

STU1013 Introduction to Biotechnology – open to all students EXCEPT for students from Resource Biotechnology STU1033 Aquatic Sicence and Daily Life – open to all students EXCEPT for students from Aquatic Resource Science and Management STU1043 Introduction to Plant Physiology – open to all students EXCEPT for students from Resource Biotechnology & Plant Science STU2063 Ecotourism Industry in Malaysia – open to all students EXCEPT for students from Plant Science STU2073 Natural Resource Management – open to all students

TRANSFER OF CREDIT WITHOUT GRADE

- 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
 - 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 proggrame 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.
- 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:

Transfer of Credit Percentage (%)	Course Minimum Grade
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.

- 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 Table 3 (page 82): MPU Courses Session 2020/2021 BACHELOR'S DEGREE Level (Overall Total Credit: 10) affective Semester 1, Session 2021/2022.

TRANSFER OF CREDIT WITH GRADE

- 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. 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 proggrame 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.

- 3. No limit of credit transfer is set, except for academic programmes accreditated by professional bodies, in which the limit for transfer of credit is subjected to the standards set by the mentioned professional bodies.
- 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.
- 5. Transfer of Credit with Grade IS NOT ALLOWED for students who have been dismissed from their studies due to academic failure and then henceforth continuing their studies in a different programme.

PROGRAMME ACCUMULATED CREDIT

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.

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 carrymark and final examination mark.

Scoring of the *Penilaian Ulangan Khas* (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.

SCIENCE LAB SAFETY RULES AND PROCEDURES

- 1. Perform the experiments as directed. Do not do anything which is not part of an approved experimental procedure. Follow all instruction given by your lecturer or lab staff.
- 2. Be properly prepared to do the experiment. Read the written procedures in advance and understand what you are going to do. Lack of familiarity wastes your time and is a major cause of injury. Know the hazards before you do the experiment.
- 3. Never work alone in the laboratory.
- 4. Wear appropriate protective equipment. A lab coat or apron and eye protection should be worn at all times. This will usually mean chemical splash goggles. In addition, gloves and faces shields should be used as appropriate.
- 5. Learn the locations and operation of emergency equipment. This includes eyewash, safety shower, fire extinguisher, fire blanket, sinks and first aid supplies. Know what to do in case of emergency.
- 6. Act in a responsible manner at all times. No horseplay or fooling around should occur in the lab or experimental area.
- 7. Wear leather shoes which cover the entire foot. No sandals or canvas shoes. Clothing should not be too loose or floppy, especially in the sleeves. Some new fabrics are highly flammable and should not be worn. Arms and legs should be covered.
- 8. Tie back long hair to keep it away from flames and chemicals.
- 9. Never taste a chemical. Checks odors only if instructed to do so, by gently wafting some of the vapor towards your nose with your hand. Be sure your work area is adequately ventilated for your experiment.
- 10. Always work in a well-ventilated area. Use the fume hood when working with volatile substances or poisonous vapors. Never place your head into the fume hood.
- 11. Turn off your Bunsen burner or other heat source whenever you are not using it. Never let it operate unattended.

- 12. Treat burns immediately by putting the burned area under cold water at least 15 minutes. Cold water markedly reduces the subsequent pain and blisters.
- 13. Read the chemical label very carefully. Read them 3 times: when you pick it up; just before you use it; and after you are finished. Many mistake some dangerous result from mixing the wrong chemical. Review **Material Safety Data Sheet (MSDS)** if needed.
- 14. Smoking, eating, or drinking in the lab or experimental work area are FORBIDDEN.
- 15. Report all accidents, injuries and close calls to your lecturer/lab staff/seniors immediately.
- Dispose of chemicals properly. Nothing goes down the drain. Container should be available for waste chemicals. Broken glass goes in special receptacles/ containers.
- 17. Never return unused reagents to the reagent bottle. Be careful to take only what you actually need. Do not contaminate the reagents.
- 18. Clean up spills immediately. This includes water.
- Handle all living organisms used in a laboratory activity in a humane manner. Preserved biological materials are to be treated with respect and disposed of properly.
- 20. List your allergies on the bottom of this page. If the experiment deals with something to which you are allergic, consult with your lecturer or lab staff.
- 21. Treat all chemicals with the respect they deserve. Know the hazards before you handle the material.
- 22. Take great care when transporting acids and other chemicals from one part of the laboratory to another. Hold them securely and walk carefully.
- 23. Never take chemicals, supplies or equipment out of the laboratory without the knowledge and consent of the lab staff.
- 24. Report damaged electrical equipment immediately. Look for things such as frayed cords, exposed wires, and loose connections. Do not use damaged electrical equipment.

- 25. If you do not understand how to use a piece of equipment, ask your supervisor/ lab staff for help.
- 26. Wash off chemicals splashed or spilled on your skin or body immediately and for 15 minutes. Remove contaminated clothing immediately. Notify your lecturer or lab staff.
- 27. Clean your lab bench, put away all equipment and reagents, and washes your hands at the end of each work session.
- 28. Laboratory normal operational time is between 8.00 am to 5.00pm. Any students that wish to use the lab beyond this time or during weekends/public holidays are required to fill up the OT form which can be obtained from the general off

KALENDAR AKADEMIK PENGAJIAN IJAZAH SARJANA MUDA SESI 2023/2024

(ACADEMIC CALENDAR FOR UNDERGRADUATE STUDIES SESSION 2023/2024)

Altiviti (Activity	SEMESTER 1	
Akuviu/Acuvity	Tarikh	Catatan
Pendaftaran Pelajar Baharu (New Student Registration) <u>Online Registration</u>	20 Sep 2023 – 1 Okt 2023 (12 hari / 12 days)	 September 2023 (28 September 2023) Hari Keputeraan Nabi Muhammad S.A.W (Maulidur Rasul)
Pendaftaran Kolej Kediaman Pelajar Baharu (Residential College Registration)	30 Sept 2023 – 1 Okt 2023 (2 hari/2 days)	
Minggu Aluan Pelajar (Student's Orientation Week) / Hari Bersama fakulti	2 Okt 2023 – 4 Okt 2023 (3 hari/3 days)	
Pendaftaran Online Pelajar Semasa (Returning Student's Registration) <u>Online Registration</u>	3 Okt 2023 – 8 Okt 2023 (6 hari/6 days)	
Pendaftaran Kolej Kediaman Pelajar Semasa (Returning Student's Residential College Registration)	7 Okt 2023 – 8 Okt 2023 (2 hari/2 days)	
Perkuliahan (Lectures)	9 Okt 2023 – 26 Nov 2023 (7 minggu/7 weeks)	 14 Oktober 2023 (14 October 2023) Hari Jadi TYT Sarawak (Sarawak Governor's Birthday) 12 November 2023 (24 November 2023) Hari Deepavali (Semenanjung Malaysia sahaja)
Cuti Pertengahan Semester 1 (Mid-Semester Break)	27 Nov 2023 – 3 Dis 2023 (7 hari/ 7 days)	
Perkuliahan (Lectures)	4 Dis 2023 – 21 Jan 2024 (7 minggu/ 7 weeks)	25 & 26 Disember 2023 (25 & 26 December 2023) • Hari Krismas (Christmas) 1 Januari 2024 (1 January 2024) • Cuti Tahun Baharu 2024 (New Year)
Minggu Ulangkaji (Revision Week)	22 Jan 2024 – 28 Jan 2024 (7 hari/ 7 days)	
Minggu Peperiksaan (Examination Week)	29 Jan 2024 – 18 Feb 2024 (3 minggu/3 weeks)	10, 11 & 12 Februari 2024 (10, 11 & 12 February 2024) • Tahun Baru Cina (Chinese New Year)
Cuti Semester 1 (Semester Break)	19 Feb 2024 – 17 Mac 2024 (4 minggu /4 weeks)	

Alttiniti (Astinity	SEMESTER 2	
Akuvut/Acuvity	Tarikh	Catatan
Pendaftaran Online Pelajar Semasa (Returning Student 's Registration/Online Semester Registration)	12 Mac 2024 – 15 Mac 2024 (4 hari/4 days)	
Pendaftaran Kolej Kediaman Pelajar Semasa (Returning Student's Residential College Registration)	16 Mac 2024 – 17 Mac 2024 (2 hari/2 days)	
Perkuliahan (Lectures)	18 Mac 2024 – 5 Mei 2024 (7 minggu/ 7 weeks)	29 Mac 2024 (29 March 2024) • Good Friday 10 & 11 April 2024 (10 & 11 April 2024) • Hari Raya Aidilfuri (Eld Mubarak)
		1 Mei 2024 (1 May 2024) • Cuti Hari Pekerja (Labour Day)
Cuti Pertengahan Semester 2 (Mid-Semester Break)	6 Mei 2024 – 12 Mei 2024 (7 hari/ 7 days)	
Perkuliahan (Lectures)	13 Mei 2024 – 30 Jun 2024 (7 minggu/ 7 weeks)	 Mei 2024 (22 May 2024) Hari Wesak (<i>Wesak Day</i>) 2 & 3 Jun 2024 (1, 2 & 3 June 2024) Hari Gawai (<i>Gawai Day</i>) 3 Jun 2024 (3 June 2024) Hari Kaputaraan TDP Agong (Agong 's Birthday) 17 Jun 2024 (17 June 2024) Hari Raya Aidiladha (Eid al-Adha)
Minggu Ulangkaji (Revision Week)	1 Jul 2024 – 7 Jul 2024 (7 hari/ 7 days)	
Minggu Peperiksaan (Examination Week)	8 Jul 2024 – 28 Jul 2024 (3 minggu/ 3 weeks)	8 Julai 2024 (8 July 2024) • Awal Muharram 22 Julai 2024 (22 July 2024) • Hari Sarawak (Sarawak Day)
Cuti Panjang (Long Break)	29 Jul 2024 - 6 Okt 2024 (10 minggu/ 10 weeks)	

Alexisti /A stisity	ANTARSESI	
Akuvu/Acuvny	Tarikh	Catatan
Pendaftaran Pelajar Semasa	29 Jul 2024 - 4 Ogos 2024	
(Returning Student's Registration) Online Semester Registration	(1 minggu/ 1 weeks)	
Perkuliahan	29 Jul 2024 – 22 Sept 2024	
(Lectures)	(8 minggu/ 8 weeks)	
Latihan Industri	29 Jul 2024 – 6 Okt 2024 (10 minggu/ 10 weeks)	

Nota: Kelulusan Senat Bil 02/2023 ke-211 bertarikh 22 Februari 2023

Disediakan oleh: Unit Pengambilan dan Kemasukan Bahagian Pengajian Prasiswazah Universiti Malaysia Sarawak NOTES

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