PROGRAMME STRUCTURE

BACHELOR OF BIOMEDICAL ENGINEERING

Courses	Content	Credit Hours	
	GIG1012: Philosophy and Current Issues [*] / GLT1049: <i>Bahasa Melayu Komunikasi^{**}</i>	2	
	GIG1013: Appreciation of Ethics and Civilization	2	
	GIG1003: Basic Entrepreneurship Enculturation	2	
University Courses	GLTXXXX: English Communication Programme *	4	
	University Elective Courses (Student Holistic Empowerment)	8	
	Co-Curriculum	2	
Sub-total Credit Hours	5	20	
Faculty Courses	Faculty Core Courses	12	
Sub-total Credit Hours	5	12	
Department Courses	Department Core Courses	81	
Department Courses	Department Elective Courses	35	
Sub-total Credit Hours	116		
TOTAL CREDIT HOURS			

* Compulsory for local students.

** Compulsory for international students.

⁺ Students are required to complete the courses based on their English Proficiency qualification (MUET/IELTS/TOEFL), as stipulated in the respective PATH on page 34.

ACADEMIC PLANNER

INTAKE SESSION 2024/2025

UNIVERSITY COURSES GIG1012/ Philosophy And Current Issues* / GLT1049 Bahasa Melayu Komunikasi ** 2 2 GLTXXXX English Communication Programme I 2	YEAR 1						
GIG1012/ GLT1049 Philosophy And Current Issues* / Bahasa Melayu Komunikasi ** 2 GLTXXXX English Communication Programme I 2 GIG1013 Appreciation of Ethics and Civilisations 2 GLTXXXX English Communication II 2 GLTXXXX English Communication II 2 Sub-total Credit Hours 4 4 VUNVERSITY ELECTIVE COURSES (STUDENT HOLISTIC EMPOWERMENT) CLUSTER 1 Thinking Matters: Mind and Intellect CLUSTER 2 Emotional, Physical and Spiritual Intelligence: Heart, Body & Soul CLUSTER 3 Technology/Artificial Intelligence and Data Analytics: I-Fachie CLUSTER 4 Global Issues and Community Sustainability: Making the World a Better Place Sub-total Credit Hours 2 Sub-total Credit Hours 2 CLUSTER 4 Global Issues and Community Sustainability: Making the World a Better Place Sub-total Credit Hours 2 Sub-total Credit Hours 3 Sub-total Credit Hours 3 KIX1002 Engineering Mathematics 2 Sub-total Credit Hours 3 KIB1010 Anatomy And Physiology XiB1011 Statistics For Biomed	CODE COURSE		S1	S2	SS	TOTAL CREDIT	PRE-REQUISITE
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CLUSTER 4Global Issues and Community Sustainability: Making the World a Better Place22Sub-total Credit Hours22FACULTY COURSESKIX1001Engineering Mathematics 133KIX1002Engineering Mathematics 233Sub-total Credit Hours336DEPARTMENT CORE COURSESKIB1009Statistics For Biomedical Engineering3KIB1010Anatomy And Physiology36KIB1011Statics And Mechanics of Materials31KIB1012Circuit Theory32KIB1013Biomedical Engineering Lab 12KIB1014Human Musculoskeletal System2	CLUSTER 3	Technology/Artificial Intelligence and Data		2			
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KIB1013 Biomedical Engineering Lab 1 2 KIB1014 Human Musculoskeletal System 2	KIB1011	Statics And Mechanics of Materials	3				
KIB1014 Human Musculoskeletal System 2	KIB1012	Circuit Theory	3				
	KIB1013	Biomedical Engineering Lab 1		2			
KIB1015 Dynamics 3	KIB1014	Human Musculoskeletal System		2			
	KIB1015	Dynamics		3			
KIB1016 Electronic Devices 3	KIB1016	KIB1016 Electronic Devices		3			
Sub-total Credit Hours 12 10 22	Sub-total Credit Hours		12	10		22	
TOTAL CREDIT HOURS 19 19 0 38	TOTAL CREDIT	TOTAL CREDIT HOURS				38	

* Compulsory for local students. ** Compulsory for international students.

	YEAR 2					
CODE	COURSE	S1	S2	SS	TOTAL CREDIT	PRE- REQUISITE
UNIVERSITY	ELECTIVE COURSES (STUDENT HOLIS	STIC EMP	OWERM	ENT)		
GIG1003	Basic Entrepreneurship Enculturation	2				
Sub-total Cre	edit Hours	2			2	
FACULTY CO	DURSES					
KIX2005	Law, Ethics and Sustainability for Engineers		3			
Sub-total Cre	edit Hours		3		3	
DEPARTMEN	IT CORE COURSES					
KIB2009	Biomedical Engineering Lab 2	2				
KIB2010	Biomedical Engineering, Healthcare and Ethics	3				
KIB2011	Biomaterials	3				
KIB2012	Biomedical Engineering Design 1	2				
KIB2013	Fundamentals Of Prosthetics and Orthotics Engineering	3				
KIB2014	Numerical Methods and Programming	2				
KIB2015	Safety And Standards in Biomedical Engineering		3			
KIB2016	Fluid Mechanics and Transport Processes in Biomedical Engineering		3			
KIB2017	Electromagnetism And Biomedical Devices		3			
KIB2018	Biomechanics of Human Motion		3			
KIB2019	Biomedical Engineering Lab 3		2			
KIB2020 Biomedical Engineering Design 2			2			
Sub-Total Credit Hours		15	16		31	
TOTAL CREDIT HOURS		17	19		36	

	EAR 3					
CODE	COURSE	S1	S2	SS	TOTAL CREDIT	PRE- REQUISITE
ELECTIVE UNIVERSITY COURSES (STUDENT HOLISTI			OWERME	ENT)		
CLUSTER 1	Thinking Matters: Mind and Intellect					
CLUSTER 2	Emotional, Physical and Spiritual Intelligence: Heart, Body & Soul					
CLUSTER 3	Technology/Artificial Intelligence and Data Analytics: I-Techie	2				
CLUSTER 4	Global Issues and Community Sustainability: Making the World a Better Place					
Sub-total Credit H	ours	2			2	
FACULTY COURS	ES					
KIX2006	Engineering Economics and Project Management	3				
Sub-total Credit Hours		3			3	
PROGRAMME ELE	ECTIVE COURSES					
KIB3XXX	Elective Courses (Biomedical Field)		15			
KIB3XXX	Elective Courses (Prosthetics and Orthotics Field)		15			
Sub-Total Credit F	lours		15		15	
DEPARTMENT CO	RE COURSES					
KIB3015	Sustainability and Practice in Biomedical Engineering	3				
KIB3016	Biomedical Signal Processing	3				
KIB3017	Medical Imaging	3				
KIB3018 Experimental and Computational Biomechanics		3				
KIB3019 Biomedical Integrate Design Project 1		2				
KIB3030	Biomedical Integrate Design Project 2		3			
KIB3031 Industrial Training				5		
Sub-total Credit Hours		14	3	5	22	
TOTAL CREDIT HOURS		19	18	5	42	

YEAR 4						
CODE	COURSE	S1	S2	SS	TOTAL CREDIT	PRE- REQUISITE
UNIVERSITY COU	RSES					
	Co-Curriculum	2				
Sub-Total Credit H	lours	2			2	
DEPARTMENT CO	RE COURSES					
KIB4020	Final Year Project (P)	2	4		6	
Sub-Total Credit H	lours	2	4		6	
PROGRAMME ELI	ECTIVE COURSES					
KIB4XXX	Elective Course I	3				
KIB4XXX	Elective Course II	3				
KIB4XXX	Elective Course III	3				
KIB4XXX	Elective Course IV		3			
KIBXXXX	Open Elective Course	2				
KIBXXXX	Open Elective Course		6			
Sub-Total Credit H	lours	11	9		20	
ELECTIVE UNIVER	RSITY COURSES (STUDENT HOLIS		VERMEN	IT)		
CLUSTER 1	Thinking Matters: Mind and Intellect					
CLUSTER 2	Emotional, Physical and Spiritual Intelligence: Heart, Body & Soul					
CLUSTER 3	Technology/Artificial Intelligence and Data Analytics: I-Techie	2	2			
CLUSTER 4	Global Issues and Community Sustainability: Making the World a Better Place					
Sub-total Credit Hours		2	2		4	
TOTAL CREDIT HOURS		17	15		32	

DEPARTMENT ELECTIVE COURSES

CODE	COURSE NAME	CREDIT HOURS
PROGRAMM	E ELECTIVE COURSES IN BIOMEDICAL	
KIB3020	Electrical Safety Design of Medical Devices and System	3
KIB3021	Photonics In Biomedical Engineering	3
KIB3022	Biomedical Control System	3
KIB3023	Microcomputer And Digital System	3
KIB3024	Medical Electronics	3
KIB4014	Instrumentation And Measurement	3
KIB4015	Computational Modelling in Biomedical Engineering	3
KIB4016	Healthcare Technology and Clinical Management	3
KIB4021	Artificial Intelligence in Biomedical Engineering	3
PROGRAMM	E ELECTIVE COURSES IN PROSTHETICS AND ORTHOTICS	•
KIB3025	Biomechanics in Prosthetics and Orthotics	3
KIB3026	Below Knee Prosthetics	3
KIB3027	Principles of Upper Limb Prosthetics and Orthotics Design	3
KIB3028	Principles of Lower Limb Orthotics Design	3
KIB3029	Above Knee Prosthetics	3
KIB4017	Industrial Prosthetics Design	3
KIB4018	Industrial Orthotics Design	3
KIB4019	Practice Management in Prosthetic and Orthotics	3
KIB4022	Advanced Prosthetics and Orthotics Engineering	3
OPEN PROG	RAMME ELECTIVE COURSES	·
KIB4023	Sports Biomechanics and Rehabilitation	2
KIB4024	Assistive Technology in Rehabilitation	2
KIB4025	Mechanical Circulatory and Respiratory Support	2
KIB4026	Biomechatronics	2
KIB4027	Pattern And Image Analysis	2
KIB4028	Micro Technologies for Biomedical Engineering	2
KIB4029	Medical IT and Telemedicine	2
KIB4030	Clinical Prosthetics	2
KIB4031	Clinical Orthotics	2
KIB4032	Spinal Orthoses	2
KIB4033	Tissue Engineering	2
KIB4034	Advanced Biomaterials	2
KIB4035	Biochemistry And Analytical Techniques	2
KIB4036	Wireless Power Transfer in Biomedical Engineering	2

UNIVERSITY COURSES

The list of university courses offered for each semester could be found through the following link:

https://citra.um.edu.my/list-of-university-courses

A. Student Holistic Empowerment (SHE)

The Student Holistic Empowerment (SHE) courses are categorized into four () clusters:

Cluster 1

Thinking Matters: Mind and Intellect

Cluster 2

Emotional, Physical and Spiritual Intelligence: Heart, Body & Soul

Cluster 3

Technology/Artificial Intelligence and Data Analytics: i-Techie

Cluster 4

Global Issues and Community Sustainability: Making the World a Better Place

All students are required to register one (1) course from each cluster.

B. Co-curricular Courses

The list of co-curricular courses available is as follows:

CODE	COURSE
GKA1001	Attach@Industry
GKI1001	Independent Research
GKK1001	Community Services
GKP1001	Talent Development
GKS1001	Volunteerism
GKU1001	Entrepreneurship
	1

PATH FOR ENGLISH COMMUNICATION PROGRAMME

ENGLISH COMMUNICATION PROGRAMME (UNIVERSITY COURSE) LIST OF COURSES TO BE COMPLETED BY ALL STUDENTS						
PATH 1	PATH 2	PATH 3	PATH 4			
 MUET BAND 2 IELTS Band 4.0 TOEFL Paper – Based Test (437 – 473) TOEFL Computer – Based Test (123 – 150) TOEFL Internet – Based Test (41 – 52) PTE (Academic) – (10 – 28) 	 MUET BAND 3 IELTS Band 4.5 - 5.0 TOEFL Paper - Based Test (477 - 510) TOEFL Computer - Based Test (153 - 180) TOEFL Internet - Based Test (53 - 64) PTE (Academic) - (29 - 41) 	 MUET BAND 4 IELTS Band 5.5 - 6.0 TOEFL Paper - Based Test (513 - 547) TOEFL Computer - Based Test (183 - 210) TOEFL Internet - Based Test (65-78) PTE (Academic) - (42 - 57) FCE (B & C) GCE A Level (English) (Minimum C) IGCSE/GCSE (English) (A, B & C) 	 MUET BAND 5 & BAND 6 IELTS Band 6.5 - 9.0 TOEFL Paper - Based Test (550 - 677) TOEFL Computer - Based Test (213 - 300) TOEFL Internet - Based Test (79 - 120) PTE (Academic) (58 - 90) FCE (A) GCE A Level (English) (B & A) 			
Students need to complete 2 courses (2 courses x 2 credits each) from this PATH	Students need to complete 2 courses (2 courses x 2 credits each) from this PATH	Students need to complete 2 courses (2 courses x 2 credits each) from this PATH	Students need to complete 2 courses (2 courses x 2 credits each) from this PATH			
COMPULSORY	COMPULSORY	COMPULSORY	CHOOSE TWO:			
GLT1018 – Proficiency in English I	GLT1021 – Proficiency in English II	GLT1024 – Proficiency in English III	GLT1027 – Advanced Oral Communication*			
 ** <u>CHOOSE ONE</u>: GLT1019 – Let's Speak GLT1020 – Fundamental Writing 	 ** <u>CHOOSE ONE</u>: GLT1022 – Speak Up GLT1023 – Effective Workplace Writing 	 ** <u>CHOOSE ONE</u>: GLT1025 – Effective Oral Communication GLT1026 – Writing at the Workplace 	 GLT1028 – Advanced Business Writing* Alternative courses - Foreign Language *Students can only register for one course per semester 			

** These courses have prerequisites and students can only register for them after obtaining a PASS in the compulsory course as stipulated in the respective PATH.

LIST OF FOREIGN LANGUAGE COURSES

Alternative Courses for Path 4

No.	Course Code	Course Name	Credit Hours
1	GLT1029	Bahasa Arab Asas 1 / Basic Arabic Language 1	2
2	GLT1030	Bahasa Arab Asas 2 / Basic Arabic Language 2	2
3	GLT1031	Bahasa Jepun Asas 1 / Basic Japanese Language 1	2
4	GLT1032	Bahasa Jepun Asas 2 / <i>Basic Japanese Language 2</i>	2
5	GLT1033	Bahasa Korea Asas 1 / Basic Korean Language 1	2
6	GLT1034	Bahasa Korea Asas 2 / Basic Korean Language 2	2
7	GLT1035	Bahasa Parsi Asas / Basic Persian Language	2
8	GLT1036	Bahasa Portugis Asas 1 / Basic Portuguese Language 1	2
9	GLT1037	Bahasa Portugis Asas 2 / Basic Portuguese Language 2	2
10	GLT1038	Bahasa Rusia Asas 1 / Basic Russian Language 1	2
11	GLT1039	Bahasa Rusia Asas 2 / Basic Russian Language 2	2
12	GLT1040	Bahasa Sepanyol Asas 1 / Basic Spanish Language 1	2
13	GLT1041	Bahasa Sepanyol Asas 2 / Basic Spanish Language 2	2
14	GLT1042	Bahasa Thai Asas 1 / Basic Thai Language 1	2
15	GLT1043	Bahasa Thai Asas 2 / Basic Thai Language 2	2
16	GLT1044	Bahasa Turki Asas / Basic Turkish Language	2