UTM
UNIVERSITI TEKNOLOGI MALAYSIA

School of Professional and Continuing Education (SPACE)

ACADEMIC GUIDE BOOK

2025 / 2026

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BRIDGING PROGRAMME

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Centre for **Degree and Foundation Studies**

BRIDGING PROGRAMME

ACADEMIC GUIDEBOOK

School of Professional and Continuing Education (SPACE)
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First Edition 2011
Second Edition 2023
Third Edition 2024
Fourth Edition 2025

The information in this guideline is correct at the time of publication. In any situation where there is a dispute, the regulations stated in the UTM Academic Regulations will apply.
For any further details on the academic matters please refer to UTM Academic Regulations (Full-Time Degree Programme).

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Part I – Preamble

THE UNIVERSITY

Universiti Teknologi Malaysia (UTM) was established as a full-fledged university in 1972. It is located both in the heart of Kuala Lumpur, known as the UTM Kuala Lumpur Campus and in Johor Bahru, which is its main campus, situated in a strategic location in the Iskandar Malaysia region, a vibrant economic corridor in the south of Peninsular Malaysia. Along with its established vision to be recognized as a world-class Entrepreneurial Research University, UTM is set to be the centre of academic and technological excellence. Its mission is to be a leader in the development of human capital and innovative technologies that will contribute to the nation's wealth creation. UTM is now regarded as Malaysia's premier institution in engineering, science and technology.

SCHOOL OF PROFESSIONAL AND CONTINUING EDUCATION (SPACE) UTM

SPACE UTM is one of the schools in UTM that offers and performs teaching and learning activities for UTM academic programmes such as UTM Foundation, UTM Diploma, Bachelor of Business Administration with Honours (SSPB), Bachelor of General Studies with Honours (SSPG), and Bridging programme. SPACE UTM is proud to have produced smart and marketable students to achieve their dreams in professional careers in various engineering, science, technology, and management fields.

Part II – The Bridging Programme

THE BRIDGING PROGRAMME

The Bridging programme for international undergraduates was first introduced by the University in 2007. The programme is offered in full-time mode, with a maximum of two semesters. The programme aims to prepare international students with a sound basis for progression into the undergraduate programmes at UTM by ensuring that they possess the necessary knowledge, values, skills, and competencies. Students are encouraged to reflect on their learning and to be increasingly self-motivated and self-critical, with assignments and examinations becoming progressively more challenging and demanding throughout the programme. Students are required to pass the Bridging programme before they can enrol into respective faculties for the undergraduate programmes in UTM.

OBJECTIVES

The objectives of the Bridging programme are as follows:

a. To facilitate international students' enrollment into the undergraduate programmes at the various faculties in UTM.
b. To ensure the international students have sufficient knowledge of the fundamentals in preparation for the undergraduate programmes in **FOUR (4)** main clusters: Engineering and Science, Computing, Social Science and Built Environment.

ADMISSION TO UNDERGRADUATE PROGRAMMES AT THE FACULTY IN UTM

a. Students who have been determined to undergo the Bridging programme are required to complete and achieve the minimum requirement as stipulated before the admission into the offered programme at the faculty (UTM Academic Regulations, Part 3 Item 3(2)).
b. Change of the offered programme while undergoing the Bridging programme is not allowed. Students who plan to change their programme of study may only do so upon entering their first semester of the offered programme in the faculty (UTM Academic Regulations, Part 3 Item 8(1a)).
c. In the course of the degree programmes in UTM, all academic activities and documentations will be managed by the faculty.

ACADEMIC SESSION

The academic session for the Bridging programme is in one normal semester and follows the Undergraduate Academic Calendar of UTM (UTM Academic Regulations, Part 2 Item 1(1)). A normal semester should have a minimum of 17 weeks, comprising weekly lectures, a mid-semester break, revision week, and final examination week. The Academic session is shown below:

SEMESTER	
Lectures (First Half)	7 weeks
Mid-Semester Break	1 week
Lectures (Second Half)	7 weeks
Revision Week	1 week
Final Examination	1 week
TOTAL	**17 weeks**

The **MAXIMUM** allowable semesters in the Bridging programme are **TWO** semesters. Students are required to pass and complete the Bridging programme within the maximum allowable **TWO** semesters.

Part III - List of Academic Staff

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Part IV – Admission Requirements

STUDENTS' ADMISSION PROCESS

The process of admission of international students into the undergraduate programmes is depicted in **Figure 1**.

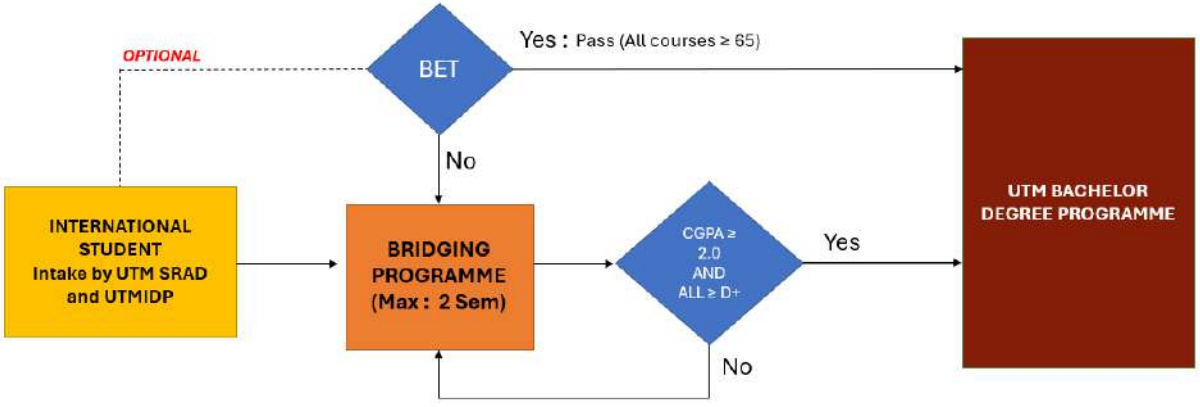


Figure 1: Students' Admission Process

STUDENT'S REGISTRATION

There are two different admissions for the Bridging programme:

a. For students who are registered under **UTM mainstream programmes**, their admission will be managed by UTM SRAD.
b. For students who are registered under **UTM International Degree Programmes (UTM-IDP)**, their admission will be managed by SPACE UTM.

ENGLISH REQUIREMENTS

Students are required to pass any recognized English Language test prior to admission to the Bridging programme as shown in **Table 1**:

Table 1: Minimum Requirements for English Language Test

English Language Test Qualification	Required Bands and Score
Malaysian University English Test (MUET)	Band 4.0 and above
International English Language Testing System (IELTS)	Band 5.5 and above
Test of English as a Foreign Language (TOEFL) iBT / TOEFL IBT Home Edition	Score of 46 and above
The Pearson Test of English (PTE Academic / PTE Academic Online)	Score of 51 and above
Cambridge English Qualification (CEQ) – B2 First, C1 Advanced, C2 Proficiency, Linguaskill Online	Score of 160 and above
Certified Intensive English Programme (CIEP – ELS)	Complete level 108 and above

BRIDGING EXEMPTION TEST (BET)

a. Students shall be exempted from the Bridging programme if they can verify their basic knowledge competency by passing the BET. BET is not compulsory, as students may decide not to take the test. Therefore, they can proceed with the Bridging programme for that particular semester.
b. Students who opt to take BET should register upon completion of the student registration for undergraduate programmes at UTM and completely pass the English requirement.
c. BET is a test module constructed based on the curriculum of the Bridging programme. Candidates are required to sit for **THREE** (3) modules, according to their undergraduate programmes offered as listed in **Appendix III**.
d. The passing mark is **65 out of 100** for each module. This means that candidates must achieve a **minimum score of 65%** for all modules.
e. There are two (2) sessions held for BET. Candidates can choose any session they want.
    i. If a candidate opts for the first session and fails any module, they are allowed to repeat the failed module in the second session.
    ii. If a candidate opts for the second session and fails any module, they are not allowed to re-sit for the test.
f. Candidates who fail in both sessions, must continue with the Bridging Program for that semester.
g. Candidates who have passed in any sessions, will be able to enrol in the undergraduate programmes at UTM for that semester.

Part V – Academic Advising

An academic advisor will be assigned to the students throughout their Bridging programme study period.

The roles of academic advisors are to provide guidance and advice to students on academic matters. They are also responsible for verifying the course registration of the students to ensure students register for the correct courses (UTM Academic Regulations, Part 2 Item 2(3)).

Students may refer to their respective academic advisor for guidance and advice related to academic and disciplinary matters in order to improve their overall academic performance and personal well-being throughout their studies.

Part VI – Registration and Courses

Students who have met the minimum requirement of the English test are allowed to register for the Bridging programme. They must register for all THREE (3) courses taken in the semester. The course registration period is stated in **Table 2**.

Table 2: Duration of Course Registration

Pre-Course Registration	One week before the semester begins
Compulsory Course Registration	The first three weeks of the new semester

Students can only register for the courses offered in the Bridging programme which are listed in **Table 3** according to the faculty's requirements.

Table 3: List of Courses in Bridging Programme

Course Code	Course Names	Credits
BSPM 0014	Mathematics	4
BSPM 0024	Basic Mathematics	4
BSPT 0014	Information and Communication Technology	4
BSPT 0024	Fundamentals of Programming	4
BSPG 0014	Biology	4
BSPC 0014	Chemistry	4
BSPP 0014	Physics	4
BSPE 0014	Economics	4
BSPB 0014	Introduction to Business	4

Students are required to register for **THREE** (3) courses (total of 12 credits) according to their undergraduate programmes as listed in **Table 4**. Guidelines for course registration are stated in **Appendix II.**

Table 4: Clusters of Bridging Courses by Programmes / Faculties.

Cluster	Course Code	Course Name
ENGINEERING & SCIENCE ● Civil ● Electrical & Biomedical ● Chemical & Energy ● Mechanical ● Science	BSPM 0014 BSPP 0014 BSPC 0014 **OR** BSPG 0014 **OR** BSPT 0024	Mathematics Physics Chemistry **OR** Biology **OR** Fundamentals of Programming
COMPUTING ● Software Engineering ● Network and Security ● Graphic and Multimedia Software ● Artificial Intelligence	BSPM 0014 BSPT 0014 BSPT 0024	Mathematics Information & Communication Technology Fundamentals of Programming
SOCIAL SCIENCE ● Management ● Accounting ● Human Resources ● Education (TESL)	BSPM 0024 BSPE 0014 BSPB 0014	Basic Mathematics Economics Introduction to Business
BUILT ENVIRONMENT ● Architecture and Landscape ● Real Estate ● Land and Quantity Surveying ● Urban and Regional Planning ● Geoinformation ● Industrial Design	BSPM 0024 BSPT 0014 BSPE 0014 **OR** BSPG 0014 **OR** BSPP 0014	Basic Mathematics Information & Communication Technology Economics **OR** Biology **OR** Physics

The selection of courses is based on the undergraduate programmes offered by UTM. Every course taken in the semester must be registered correctly by stating the course code, section number, credits and status upon approval from the academic advisor (UTM Academic Regulations, Part 3 Item 4(8)). List of courses by programme at the faculty for Bridging programme are listed in **Appendix III.**

Students must register for the courses within the registration period stipulated by the University.

a. New students are not allowed to register after the compulsory source registration period ended and **MUST** apply for deferment of study. Students may also apply for deferment due to other reasons as stated in UTM Academic Regulations, Part 3 Item 7(1). Course registration after this period will not be allowed unless permission is obtained from the Dean of SPACE.
b. Students who are in maximum semester and have not registered for the repeated course/s without valid reasons will be TERMINATED from his/her study.

Deferment of study can be made based on the following reasons:

a. Health reasons,
b. Personal reasons,
c. State of emergency,
d. National interest, or

Other reasons approved by the SPACE academic committee

PART VII –
ATTENDANCE AND GRADING SCHEME

Students must adhere to the rules of attendance (UTM Academic Regulations, Part 5 Item 20(2)) as stated below:

a. Students must attend not less than 80% of lecture hours as required for the course.
b. Students who do not fulfill the condition listed above without valid reasons accepted by the university will not be allowed to attend subsequent learning activities and sit for any form of assessment.

Students' performance in any courses is reflected by the grades obtained. The relationship between marks, grades and point value is shown in **Table 5**.

Students shall pass with a minimum grade of **D+ (40-44 marks)** for each course **AND** obtain a minimum CGPA of **2.00** throughout the entire Bridging programme. Students are required to repeat the respective course on failing any courses. The result is only used to pass the Bridging programme and will not be carried forward to the faculty.

Assessments of a course are conducted continuously in the form of tests, quizzes, assignments, and final examinations throughout the semester.

The final examination will be conducted within a specific time frame, according to guidelines set by the SPACE UTM.

Students may only apply for a course grade appeal if students are not satisfied with the result after they have reviewed and discussed the answer scripts with the respective lecturers within the set appeal period after the end of the final examination week (UTM Academic Regulations, Part 5 Item 27(1)).

Special Examination can be applied for the cases such as:

a. students who are unable to sit for the final examination because of illness certified by a medical officer from the University or government hospital or
b. students who have passed with Good Status (KB) (pointer 2.00 and above) but failed in ONE (1) of the courses taken during the last TWO (2) semesters of study UTM Academic Regulations, Part 5 Item 25(2)).
c. and other reasons permitted as stated in UTM Academic Regulations, Part 5 Item 25(1).

Table 5: The Relationship between Marks, Grades, and Point Value
(UTM Academic Regulations, Part 5 Item 19)

Marks	Grade	Point value	
90 – 100	A+	4.00	PASS
80 – 89	A	4.00	
75 – 79	A-	3.67	
70 – 74	B+	3.33	
65 – 69	B	3.00	
60 – 64	B-	2.67	
55 – 59	C+	2.33	
50 – 54	C	2.00	
45 – 49	C-	1.67	
40 – 44	D+	1.33	
35 – 39	D	1.00	FAIL
30 – 34	D-	0.67	
00 – 29	E	0.00	

EXAMPLE OF CGPA CALCULATION

$$\text{CGPA} = \frac{\text{Sum of Total Point Earned}}{\text{Sum of Credits Counted}} = \frac{k_1 \times m_1 + k_2 \times m_2 + k_3 \times m_3}{k_1 + k_2 + k_3}$$

where,

Sum of Total Point Earned = $k_1 \times m_1 + k_2 \times m_2 + k_3 \times m_3$

Sum of Credits Counted = $k_1 + k_2 + k_3$

k_1, k_2, k_3 = Course credits taken

m_1, m_2, m_3 = Point earned

Example 1

Courses	**Credits** (k)	**Marks** (%)	**Grade**	**Point Value** (m)	**Total Point Value** (k × m)
BSPM 0014	**4**	**76**	**A-**	**3.67**	**14.68**
BSPP 0014	**4**	**70**	**B+**	**3.33**	**13.32**
BSPC 0044	**4**	**66**	**B**	**3.00**	**12.00**
SUM	**12**				**40**

CGPA = 40 / 12 = 3.33

Status = PASS

Example 2

Courses	Credits (k)	Marks (%)	Grade	Point Value (m)	Total Point Value (k × m)
BSPM 0024	**4**	**33**	**D-**	**0.67**	**2.68**
BSPB 0014	**4**	**83**	**A**	**4.00**	**16.00**
BSPE 0014	**4**	**65**	**B**	**3.00**	**12.00**
SUM	**12**				**30.68**

CGPA = 30.68 / 12 = 2.56

Status = FAIL

Example 3

Courses	Credits (k)	Marks (%)	Grade	Point Value (m)	Total Point Value (k × m)
BSPM 0014	**4**	**41**	**D+**	**1.33**	**5.32**
BSPP 0014	**4**	**43**	**D+**	**1.33**	**5.32**
BSPC 0014	**4**	**46**	**C-**	**1.67**	**6.68**
SUM	**12**				**17.32**

CGPA = 17.32 / 12 = 1.44

Status = FAIL

PART VIII – ACADEMIC MISCONDUCT

Students who have committed misconduct or academic wrongdoing can be charged with Academic misconduct according to University and College University Acts, 1971, Regulations of Universiti Teknologi Malaysia (Students Disciplinary), 1999 (UTM Academic Regulations, Part 7 Item 37 & 38).

PART IX – GENERAL CIRCULAR

Students must be neatly, decently and appropriately attired. Guidelines for dress code are stated in **Appendix IV.**

a. Male: Shirt or T-shirt with collar, trousers, shoes
b. Female: Shirt or T-shirt, trousers, dress or skirt that goes below the knees, shoes

Students are **NOT ALLOWED** to wear shorts, sleeveless shirts, skimpy tight-fitting clothes and flip-flops / slippers.

Students must make sure that the style and length of their hair follow the University guidelines.

a. Male: short and neat, not coloured / dyed
b. Female: neat, not coloured / dyed

Students are **NOT ALLOWED** to display tattoos on any part of the body.

Students are required to wear matric card within the vicinity of the University. The card must be worn and displayed around the chest area.

Students are **NOT ALLOWED** to bring vehicles into the University.

Students violating the rules and regulations will be given warnings or fine of not more than RM50.00 (for first offence) or being referred to the UTM Disciplinary Board for any repeated offences.

PART X – COURSE SYNOPSIS

BSPM 0014 Mathematics

This course provides a solid foundation of basic mathematics prior to the pursuance of any mathematics at the university level. It comprises various topics such as Vectors, Complex numbers, Curves and Polar Coordinates, Differentiation, Integration and Matrices: The intention is to equip students with the necessary tools required for further mathematics and engineering courses.

BSPM 0024 Basic Mathematics

This is an introductory mathematics course. It provides students with a solid foundation in the fundamental theoretical aspects of the operations of arithmetic, algebra, geometry, and trigonometry. Students will learn to solve the linear system of equations using matrices and all basic concepts in statistics.

BSPT 0014 Information and Communication Technologies (ICT)

This course is an introductory course on information and communication technologies. Topics include ICT Terminologies, hardware and software components, the internet and the world wide web, and ICT-based applications.

BSPT 0024 Fundamentals of Programming (FOP)

This course is an introductory course on problem-solving techniques. Students are required to develop programmes using C++ programming language to solve easy to moderate problems. The course covers the following: preprocessor directives, constants and variables, data types, input and output statements, text files, control structures: sequential, selection and loop, built-in and user-defined functions, and array.

BSPG 0014 Biology

This course introduces students to the important principles and concepts in biology. Part I comprises molecules of life, cell structure and function, genetic inheritance, population genetics, expression of biological information, mutation, and recombinant DNA technology. Part II covers various biological processes which include cellular respiration, photosynthesis, gaseous exchange, transport system, homeostasis, coordination, and immunity. This is to equip students with basic knowledge in fundamental biology before they go to a biology-related program at a higher level.

BSPC 0014 Chemistry

This course will discuss the fundamental concept of chemistry. The course will include tools of chemistry, the atom, molecules and compounds, stoichiometry, periodic table, thermochemistry, organic chemistry, the behavior of gases, chemical kinetics, chemical equilibrium, the chemistry of acids and bases, and electrochemistry. For every topic, students will be introduced to the understanding of basic concepts and terminology in chemistry.

BSPP 0014 Physics

This course is especially suited for students taking one semester of basic concepts and principles of physics course that can be applied later on in the study of the field of engineering. Students should be able to determine the resultant force as a vector used in Newton's laws of motion and to study the friction forces and their influence on the equilibrium system. They will also analyze the study of a capacitor, resistance and current to the circuit of direct current (DC) as well as magnetism and apply the basic course of optics that can be used in engineering study.

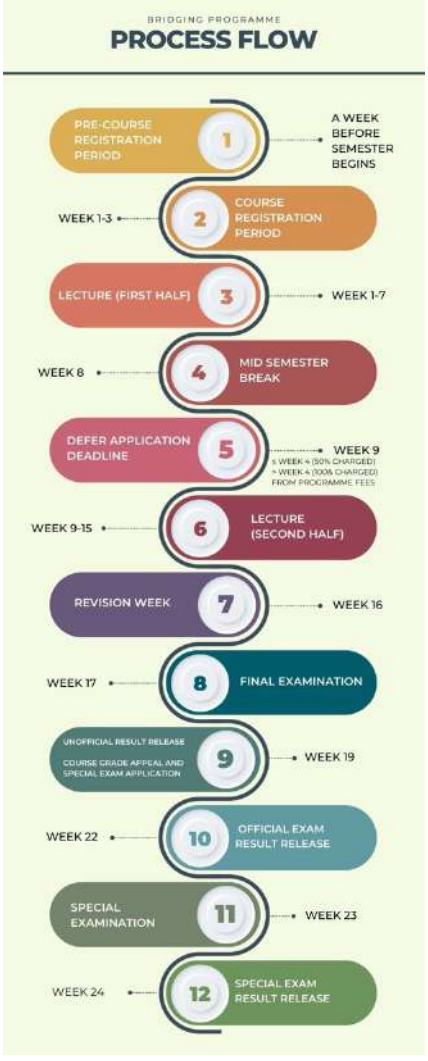
BSPE 0014 Economics

This course introduces the basic concepts of economics with a focus on the most important tools in economics. It teaches the application of basic economic principles. It aims to equip students who are embarking on a first-degree tertiary education with an understanding of the principles of microeconomics and macroeconomics necessary to analyze real-world economic issues.

BSPB 0014 Introduction to Business

This course introduces students to competitive environments, goals and strategy, organizational culture and structure, marketing, and operation management. It develops essential skills for independent thinking, carrying out research in an electronic environment, and business report writing.

APPENDIX I – BRIDGING PROGRAMME PROCESS FLOW



APPENDIX II – BET AND COURSE REGISTRATION GUIDELINES

UTM
UNIVERSITI TEKNOLOGI MALAYSIA

GUIDELINE FOR BRIDGING PROGRAMME REGISTRATION

1. Ensure to register as a student with the Student Recruitment & Admission Department (SRAD) in UTM to obtain your Matric Number (e.g: T23xxxxxx)

2. Go to the website **bridging.utmspace.edu.my** within 24 hours of student registration (working days).

3. Log in using
Username: **Matric Number**
Password: **Matric Number**

4. Update student's details and upload English result slip.

5. Choose '**Register BET**' to proceed with BET Registration (Step A) OR '**Register**' to proceed with Course Registration (Step B)

*BET is only for new students and it is OPTIONAL

Prepared by:
Centre for Degree and Foundation Studies, SPACE UTM
For any inquiries, please contact:
bridging@utmspace.edu.my / +6075318061
Student Portal: https://studentppi.utmspace.edu.my/

(A) STEPS FOR BRIDGING EXEMPTION TEST (BET) REGISTRATION

1. Select your Degree Programme as stated in the Offer Letter
2. Choose three (3) modules that should be taken based on the degree programme offered.
3. Choose available BET session
4. Upload the Payment Slip and click Submit
5. The BET Registration Slip will appear after the registration has been **VERIFIED** by BET Coordinator
6. Please check the BET Schedule in Student Portal and bring the BET Registration Slip during the test

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bridging@utmspace.edu.my / +6075318061
Student Portal: https://studentppi.utmspace.edu.my/

(B) STEPS FOR COURSE REGISTRATION

1. Select your Degree Programme as stated in the Offer Letter
2. For new students, choose **THREE (3)** courses that should be taken based on the degree programme offered.
3. For repeating students, **ONLY** choose the courses to be repeated.
4. Choose available Section
5. Upload the Offer Letter and click Submit
6. The Course Registration Slip will appear after the registration has been **VERIFIED** by Academic Advisor
7. Please check the Class Schedule in Student Portal

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For any inquiries, please contact:
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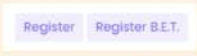
SAMPLE FOR REGISTRATION FLOW

1 **Login ID**

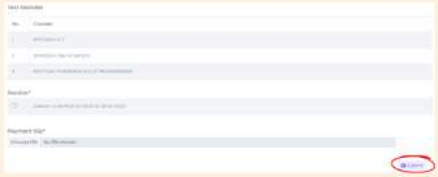
2 **Update Details & English Result Slip**

3 **Register Course/ BET**

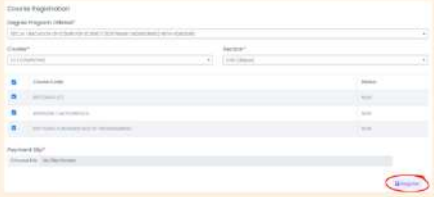


4 **Choose Degree Programme**

5 **BET Registration (Optional)**
Choose THREE (3) modules only



6 **Course Registration for New Students**
Choose THREE (3) courses only



Course Registration for Repeating Students

Prepared by:
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For any inquiries, please contact:
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Student Portal: https://studentppi.utmspace.edu.my/

APPENDIX III – LIST OF COURSES BY DEGREE PROGRAMME

CLUSTER		DEGREE PROGRAMME	COURSE 1	COURSE 2	COURSE 3
ENGINEERING & SCIENCE	E1	Chemical Engineering	BSPM0014 MATHEMATICS	BSPP0014 PHYSICS	BSPC0014 CHEMISTRY
		Chemical Engineering (Gas)			
		Chemical Process Engineering			
		Nuclear Engineering			
		Petroleum Engineering			
	E2	Civil Engineering	BSPM0014 MATHEMATICS	BSPP0014 PHYSICS	BSPT0024 FUNDAMENTALS OF PROGRAMMING
		Electronic System Engineering			
		Engineering (Naval Architecture and Offshore Engineering)			
		Mechanical Engineering			
		Mechanical Engineering (Aeronautics)			
		Mechanical Engineering (Manufacturing)			
		Mechanical Precision Engineering			
		Science (Physics)			
		Science (Industrial Physics)			
		Science (Mathematics)			
		Science (Industrial Mathematics)			
		Electrical Engineering			
		Electronic Engineering			
		Electrical (Mechatronics) Engineering			
	E3	Biomedical Engineering	BSPM0014 MATHEMATICS	BSPP0014 PHYSICS	BSPG0014 BIOLOGY
	E4	Science (Chemistry)	BSPM0014 MATHEMATICS	BSPC0014 CHEMISTRY	BSPG0014 BIOLOGY
		Science (Industrial Chemistry)			
		Science in Biotechnology			
		Science Biology			
	E5	Chemical Engineering (Bioprocess)	BSPM0014 MATHEMATICS	BSPC0014 CHEMISTRY	BSPT0024 FUNDAMENTALS OF PROGRAMMING
COMPUTING	C1	Artificial Intelligence	BSPM0014 MATHEMATICS	BSPT0014 INFORMATION AND COMMUNICATION TECHNOLOGY	BSPT0024 FUNDAMENTALS OF PROGRAMMING
		Computer Science (Graphics and Multimedia Software)			
		Computer Science (Network and Security)			
		Software Engineering			

SOCIAL SCIENCE	B1	Accounting Business Administration (International Business) Education (Teaching English as a Second Language) General Studies Management (Marketing) Management (Technology) Psychology with Human Resource Development Science (Human Resource Development)	BSPM0024 BASIC MATHEMATICS	BSPB0014 INTRODUCTION TO BUSINESS	BSPE0014 ECONOMICS
BUILT ENVIRONMENT	L1	Quantity Surveying Real Estate Science Geoinformatics Science in Architecture Science in Construction Science Land Administration and Development Science (Industrial Design) Urban and Regional Planning	BSPM0024 BASIC MATHEMATICS	BSPT0014 INFORMATION AND COMMUNICATION TECHNOLOGY	BSPE0014 ECONOMICS
	L2	Geomatics Engineering	BSPM0024 BASIC MATHEMATICS	BSPT0014 INFORMATION AND COMMUNICATION TECHNOLOGY	BSPP0014 PHYSICS
	L3	Landscape Architecture	BSPM0024 BASIC MATHEMATICS	BSPT0014 INFORMATION AND COMMUNICATION TECHNOLOGY	BSPG0014 BIOLOGY

APPENDIX IV – DRESS CODE

Source: https://studentaffairs.utm.my/panduan/

Source: https://studentaffairs.utm.my/panduan/

space.utm.my