



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

School of
Professional and
Continuing
Education
(SPACE)

HANDBOOK OF ACADEMIC GUIDELINE FOR

BRIDGING PROGRAMME

UNIVERSITI TEKNOLOGI MALAYSIA
Second Edition

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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 Regulation.

CONTENT	PAGE
PART I PREAMBLE	1
PART II THE BRIDGING PROGRAMME	2
PART III ADMISSION REQUIREMENTS	3
PART IV ACADEMIC ADVISING	5
PART V REGISTRATION AND COURSES	5
PART VI CREDITS AND GRADING SCHEME	7
PART VII ACADEMIC MISCONDUCT	9
PART VIII GENERAL CIRCULAR	9
PART IX COURSE SYNOPSIS	10
APPENDIX I PROGRAMME TIMELINE	12
APPENDIX II BET AND COURSE REGISTRATION GUIDELINES	13

UNIVERSITI TEKNOLOGI MALAYSIA
ACADEMIC GUIDELINES
Bridging Programme for International Undergraduates

PART I - PREAMBLE

1.1 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 recognised 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.

1.2 School of Professional and Continuing Education, SPACE UTM



The School of Professional and Continuing Education (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 (BBA), Bachelor of General Studies (BGS), 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

2.1 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 students with a sound basis for progression into the undergraduate degree 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 register into respective faculties for the Degree Programme.

2.2 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 sufficient knowledge of the fundamentals in preparation for the Undergraduate Programme in Engineering, Science, Computing, Social Science and Built Environment.

2.3 ADMISSION TO UNDERGRADUATE PROGRAMMES AT THE FACULTY

- a. Students who have been determined to undergo the bridging programme are required to complete and achieve the minimum requirement as stipulated before registering for the offered programme at the faculty.
- b. Change of the offered degree 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 in the faculty.
- c. During the undergraduate programme, all academic activities and documentations will be managed by the faculty.

2.4 ACADEMIC SESSION

The academic session for the bridging programme is in one normal semester and follows the Undergraduate Academic Calendar of UTM. A normal semester should have a minimum of 17 weeks, comprising weekly lectures, a mid-semester break, a revision period, and one week of the final examination.

<u>SEMESTER</u>	
Lectures	7 weeks
Mid-Semester Break	1 week
Lectures	7 weeks
Revision	1 week
Final Examinations	1 week
TOTAL WEEKS	17 weeks

- 2.5 The maximum allowable semester for the Bridging Programme is two semesters. Students are required to complete the Bridging Programme and pass within the maximum allowable **TWO** semesters.

PART III – ADMISSION REQUIREMENTS

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

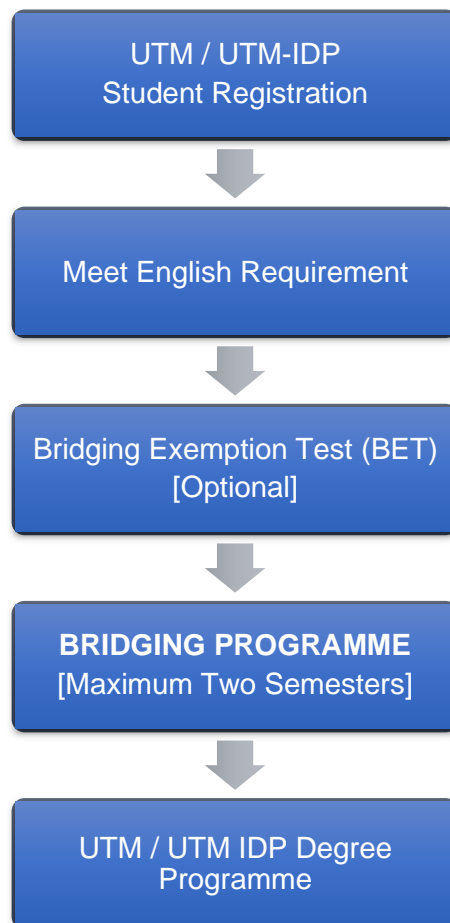


Figure 1: Students' Admission Process

3.2 STUDENT REGISTRATION

There are two different admissions for the Bridging Programme. Students who applied for UTM Mainstream will register under UTM SRAD, meanwhile, SPACE UTM will manage the students' registration under UTM IDP admission.

3.3 ENGLISH REQUIREMENT

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

Table 1: Minimum Requirement for English Language Test

English Language Test Qualification	Result
International English Language Testing System (IELTS)	A minimum overall score of 5.5 in IELTS (Academic)
Test of English as a Foreign Language (TOEFL) iBT	A minimum score of 46 and above
Malaysian University English Test (MUET)	A minimum MUET Band 4 or higher
Cambridge English Qualification (CEQ) – B2 First, C1 Advanced, C2 Proficiency	A score of 160 and above
PTE Academic	A score of 51 and above
Certified Intensive English Programme (CIEP – ELS)	A level of 108 and above

3.4 BRIDGING EXEMPTION TEST (BET)

- a. Students shall be exempted from the Bridging Programme if they can prove their basic knowledge competency through passing a series of Bridging Exemption Test (BET). BET is not compulsory, as students may decide not to take the BET and therefore proceed with the Bridging Programme for that particular semester.
- b. Students who opt to take BET should register upon completion of the student registration and completely pass the English requirement.
- c. The Bridging Exemption Test (BET) is a test module constructed based on the curriculum of the Bridging Programme. Students are required to sit for the test module according to the Bachelor's Degree Programme offered by UTM.
- d. The passing mark is **65 out of 100** for each paper. This means that students must achieve a **minimum score of 65%** for all papers according to the Module. If the candidates fail, they need to continue with the Bridging Programme for that semester. If the candidates pass, they will directly register for the degree programme at UTM.

PART IV – ACADEMIC ADVISING

- 4.1 An Academic Advisor will be assigned to the students throughout their Bridging Programme study period.
- 4.2 The roles of Academic Advisors are to provide guidance and advice to the students on academic matters.
- 4.3 Students may refer to the 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 V – REGISTRATION AND COURSES

- 5.1 Students who have passed the English test must register for the Bridging Programme. Course registration must be done within the compulsory course registration period as in **Table 2**.

Table 2: Duration of Course Registration

Course Registration	Week one and week two of the semester
Late Course Registration	Week three of the semester

- 5.2 Courses offered in the Bridging Programme are listed in **Table 3**.

Table 3: List of courses in the Bridging Programme

Course Code	Course Names	Credits
BSPM 0014	Mathematics	4
BSPM 0024	Basic Mathematics	4
BSPM 0034	Business Mathematics	4
BSPC 0014	Chemistry	4
BSPP 0014	Physics	4
BSPT 0014	Information and Communication Technology (ICT)	4
BSPT 0024	Fundamentals of Programming	4
BSPE 0014	Economics	4
BSPB 0014	Introduction to Business	4

- 5.3 Students are required to register for **THREE (3)** courses (total of 12 credits) according to their degree programme's clusters 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
<u>ENGINEERING & SCIENCE</u> <ul style="list-style-type: none"> • Civil • Electrical • Chemical & Energy • Biomedical • Mechanical • Science 	BSPM 0014 BSPP 0014 BSPC 0014	Mathematics Physic Chemistry
<u>COMPUTER SCIENCE</u> <ul style="list-style-type: none"> • Software Engineering • Network and Security • Graphic and Multimedia Software 	BSPM 0014 BSPT 0014 BSPT 0024	Mathematics ICT Fundamentals of Programming
<u>SOCIAL SCIENCE</u> <ul style="list-style-type: none"> • Management & Human Resources • Education (TESL) 	BSPM 0034 BSPE 0014 BSPB 0014	Business Mathematics Economics Introduction to Business
<u>BUILT ENVIRONMENT</u> <ul style="list-style-type: none"> • Architecture, Real Estate, Surveying • Quantity Surveying • Urban and Regional Planning • Geoinformation 	BSPE 0014 BSPM 0024 BSPT 0014	Economics Basic Mathematics ICT

- 5.4** All students must register for the course with the correct code, and section upon approval from the Academic Advisor.
- 5.5** Students who failed to register for the course within the first three weeks **MUST** apply for deferment. Students who are in the maximum semester and failed to register for the course within the stipulated time without acceptable reasons will be **TERMINATED**.
- 5.6** Deferment of study can be made based on the following reasons:
- a. Health reasons,
 - b. Personal reasons,
 - c. GPA < 1.00,
 - d. Misconduct,
 - e. State of emergency,
 - f. National interest, or
 - g. Other reasons approved by the academic committee.
- 5.7** Students should adhere to the rules of attendance as stated below:
- a. Students must attend not less than 80% of lecture hours as required for the course.
 - b. Students will be prohibited from attending any lecture and assessment activities upon failure to comply with the above requirement.

PART VI - CREDITS AND GRADING SCHEME

- 6.1** Students' performance in any courses is reflected by the grades obtained. The relationship between marks, grades and point value is shown in **Table 5**.
- 6.2** 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.
- 6.3** Assessment of a course is conducted continuously in the form of tests, quizzes, assignments, and final examinations throughout the semester.
- 6.4** The final examination will be conducted within a specific time frame, according to guidelines set by the SPACE UTM.
- 6.5** Special Exam can be applied for cases as stated in UTM Academic Regulations.

Table 5: The Relationship between Marks, Grades, and Point Value

Marks	Grade	Point value	
90 - 100	A+	4.00	
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	
30 - 34	D-	0.67	
00 - 29	E	0.00	

6.6 EXAMPLE OF CGPA CALCULATION

$$\begin{aligned} \text{CGPA} &= \frac{\text{Sum of Total Point Value}}{\text{Sum of Credits Counted}} \\ &= \frac{k_1 \times m_1 + k_2 \times m_2 + k_3 \times m_3}{k_1 + k_2 + k_3} \end{aligned}$$

where,

$$\begin{aligned} \text{Sum of Total Point Value} &= k_1 \times m_1 + k_2 \times m_2 + k_3 \times m_3 \\ \text{Sum of Credits Counted} &= k_1 + k_2 + k_3 \\ k_1, k_2, k_3 &= \text{course credits taken} \\ m_1, m_2, m_3 &= \text{point value} \end{aligned}$$

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

$$\text{CGPA} = 40 / 12 = 3.33$$

$$\text{Status} = \text{PASS}$$

Example 2

Courses	Credits (k)	Marks (%)	Grade	Point Value (m)	Total Point Value (k × m)
BSPM 0034	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

$$\text{CGPA} = 30.68 / 12 = 2.56$$

$$\text{Status} = \text{FAIL}$$

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

$$\text{CGPA} = 17.32 / 12 = 1.44$$

$$\text{Status} = \text{FAIL}$$

PART VII - ACADEMIC MISCONDUCT

- 7.1** 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.

PART VIII – GENERAL CIRCULAR

- 8.1** Students must be neatly, decently and appropriately attired.
- 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
- 8.2** Students are not allowed to wear shorts, sleeveless shirts, skimpy tight-fitting clothes and flip-flops/slippers.
- 8.3** 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
- 8.4** Students are not allowed to display tattoos on any body part.
- 8.5** Students must display their matriculation cards at all times while on campus.
- 8.6** Students are not allowed to bring vehicles into the campus.
- 8.7** Students violating the regulations will be given a warning or penalty of not more than RM50.00 or face the UTM Disciplinary Board.

9.1 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.

BSPM 0034 Business Mathematics

This course encompasses basic mathematical concepts, techniques and applications that are useful to students in the field of business, economics, management and social science. Some of the basic mathematical concepts are such as the real number system, linear equations and system of linear equations and applications, quadratic functions and differentiation. Matrices operations will also be discussed. Some of the key business topics are simple interest and compound interest, and business discounts and markups will also be covered.

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 behaviour 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 analyse 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.

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

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.

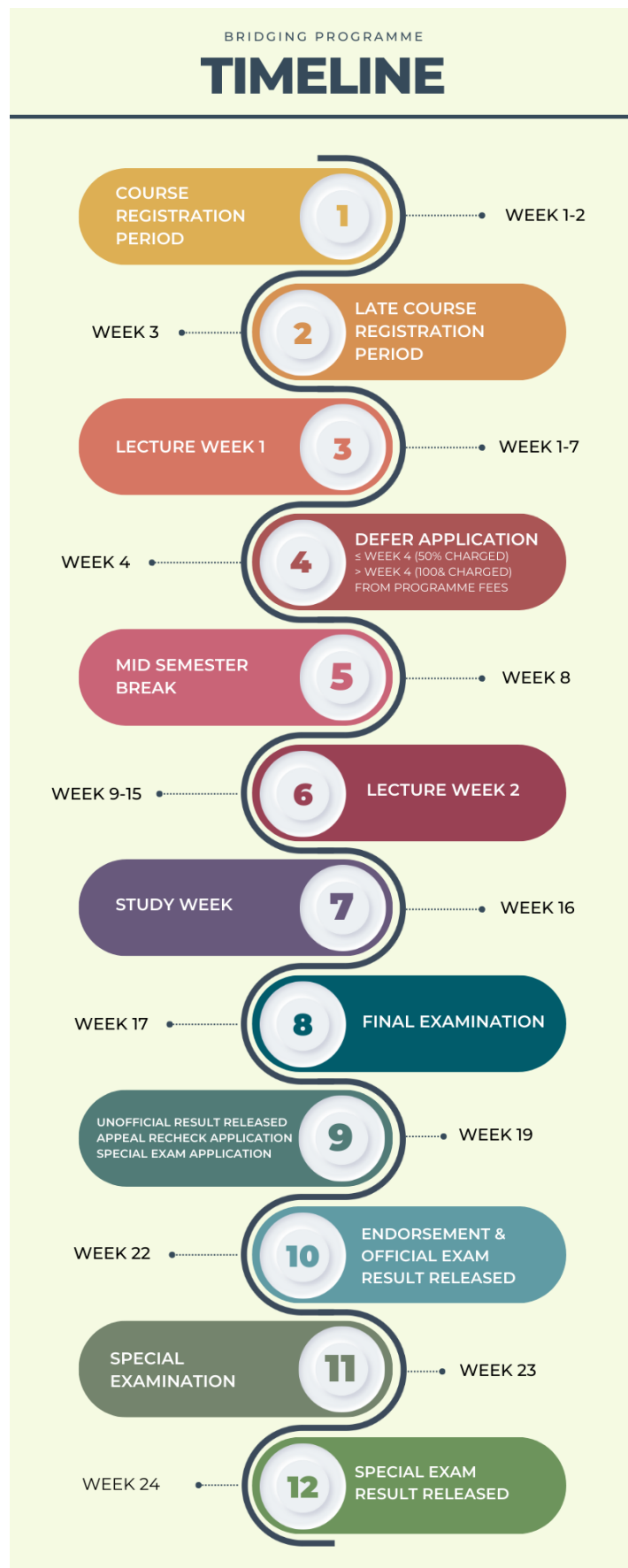
BSPE 0014 Economics

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 analyse real-world economic issues.

BSPB 0014 Introduction to Business

This course introduces students to competitive environments, goals and strategy, organisational 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 – PROGRAMME TIMELINE





GUIDELINE FOR BRIDGING PROGRAMME REGISTRATION

1

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

2

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

3

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

4

Update student's particular details and upload English result slip (**Compulsory**).

5

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

[Register](#) [Register B.E.T.](#)

*BET is only for new students and 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

The Test Module will be listed based on the degree programme selected

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@utmpace.edu.my / +6075318061

Student Portal: <https://studentppi.utmpace.edu.my/>

(B) STEPS FOR COURSE REGISTRATION

1

Select your Degree Programme as stated in the Offer Letter

2

For new students, choose all the courses listed.
For repeating students, **ONLY** choose the courses to be repeated.

3

Choose available Section

4

Upload the Payment Slip and click Submit

5

The Course Registration Slip will appear after the registration has been verified by Academic Advisor

6

Please check the Class Schedule in Student Portal

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For any inquiries, please contact:

bridging@utmpace.edu.my / +6075318061

Student Portal: <https://studentppi.utmpace.edu.my/>

SAMPLE FOR REGISTRATION FLOW

1 **Login ID**



2 **View/Update account details** **Update Details & English Slip**

English Result Slip*
Choose File No file chosen

3 **Register** **Register B.E.T.** **Register Course/ BET**

4 **Degree Program Offered***

Please Select Program

Choose Degree Programme

5 **Test Modules**

No.	Courses
1	BSP1004 ICT
2	BSPM004 MATHEMATICS
3	BSP1024 FUNDAMENTALS OF PROGRAMMING

Session*
 Session 1 | From 01-10-2023 to 09-10-2023

Payment Slip*
Choose File No file chosen

Submit

BET Registration (Optional)

6 **Course Registration**

Degree Program Offered*
SECJH | BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING) WITH HONOURS

Cluster*
C1 | COMPUTING

Section*
CSI (Apost)

Course Code	Status
<input checked="" type="checkbox"/> BSP1004 ICT	NEW
<input checked="" type="checkbox"/> BSPM004 MATHEMATICS	NEW
<input checked="" type="checkbox"/> BSP1024 FUNDAMENTALS OF PROGRAMMING	NEW

Payment Slip*
Choose File No file chosen

Register

Course Registration for New Students

Course Registration

Program*
SECJH | BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING) WITH HONOURS

Cluster*
C1 | COMPUTING

Section*
CSI (Apost)

Course Code	Status
<input checked="" type="checkbox"/> BSPM004 MATHEMATICS	UK
<input type="checkbox"/> BSP1004 ICT	UK
<input type="checkbox"/> BSP1024 FUNDAMENTALS OF PROGRAMMING	UK

UK (Deployment Course) Repeat of a failed course taken in the previous semester.
UC Repeat of a passed course with a grade D- and below and with approval from the faculty for the purpose of improving the student's academic performance.

Payment Slip*
Browse... No file selected

Register

Course Registration for Repeating Students

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Student Portal: <https://studentppi.utmSPACE.edu.my/>