



**PROGRAMME SPECIFICATION**

<b>Programme Name</b>	<b>Bachelor in Technology Management (Construction) with Honours</b>	
<b>Recognition</b>	<b>Bachelor in Technology Management (Construction) with Honours</b>	
<b>Study Duration</b>	Minimum	Maximum
	<b>7 Semester</b>	<b>11 Semester</b>

**Entry Requirements**

Minimum entry requirements to enter the programme:

1. All candidates should have basic requirements:
  - i. Pass in Sijil Pelajaran Malaysia (SPM) or equivalent.
  - ii. Pass with credit in Bahasa Melayu /Bahasa Malaysia in Sijil Pelajaran Malaysia (SPM) or equivalent.
  - iii. Pass in English Language at SPM or equivalent or Pass in Malaysian University English Test (MUET) with Band 1.
2. Sijil Tinggi Pelajaran Malaysia (STPM) Qualification:
  - i. Pass in STPM with minimum C Grade in any three (3) of the following subjects; General Paper, Mathematics, Additional Mathematics, Physics, Chemistry, Biology, Economic, Business Management, Accounting, Commerce, Information Technology.
3. Ministry of Higher Education Matriculation Programme Qualification:
  - i. Obtained CPA 2.00 with minimum C Grade in Mathematics, Physics, Chemistry, Economic, Business Management, Accounting, Commerce.
4. Diploma Holder/ Equivalent:
  - i. Diploma graduate from IPTA/ Polytechnic/ equivalent qualification recognized by Ministry of Higher Education and approved by the IPTA Senate with minimum CPA 2.70 or two (2) years work experience in related field.
  - ii. Diploma qualified for this programme are Diploma in Civil Engineering, Diploma in Civil Engineering (Construction), Diploma in Building, Diploma in Building Surveying, Diploma in Quantity Surveying and Diploma in Architecture.
5. Special requirements:
  - i. Pass in medical test as required by the University.

**Programme Educational Objectives (PEO)**

The Programme Educational Objectives that need to be achieved by students in several years after completion of study are as follows:

1. Technically competent in applying and managing related technology of construction management.
2. Practising the professional ethics in handling the issues relating to construction management.
3. Practising the profession of Construction Project Manager in fulfill the responsibility to social, culture and environment.
4. Practising the life long learning for career development.



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**Programme Learning Outcome (PLO)**

Upon graduation, the students will have the ability to:

1. Apply knowledge in science, mathematic, technology and management in construction industries.
2. Carry out the practical and skills work related to construction industry according to standard requirement.
3. Ethically and good manner according to professional ethics which has been implemented in construction industry.
4. Apply scientific methods in research and development (R&D) in construction management.
5. Communicate effectively through oral, writing and ICT application methods in the field of construction.
6. Work in group as a group leader or team member.
7. Involve in life long learning to improve knowledge and skills.
8. Self-motivate and construct entrepreneurship characteristics for career development.

**Programme Structures**

Code	Courses	Credit	Lecture	Tutorial	Practical	TMH
BSM 1813	Mathematics for Management	3	3	1	0	4
UMA 1132/1142	Islamic Studies / Moral Studies	2	2	0	0	2
UMB 1052	Effective Communication	2	2	1	0	3
UQ 1**1	Co-Cocurriculum I	1	0	0	3	3
BPA 1013	Economy	3	3	1	0	4
BPA 1022	Principles Management	2	2	1	0	3
BPD 1012	Engineering Drawing	2	1	0	3	4
BPD 1213	Project Construction Management	3	1	0	3	4
BSM 1823	Statistics for Management	3	3	1	0	4
UMB 1042	Technical Writing	2	2	1	0	3
UMA 1162	Islam Civilization and Asian Civilization	2	2	0	0	2
UMB 1011	English for Academic Purposes	1	0	1	1	1
UQ 1**1	Co-Cocurriculum II	1	0	0	3	3
BPA 1042	Human Resource Management	2	2	0	0	3
BPA 1052	Principles Marketing	2	2	1	0	3
BPD 1313	Construction Technology I	3	2	1	3	6
BPD 1332	Material Mechanic	2	1	1	3	5
UMS 1122	Ethnic Relation	2	0	0	2	2
UMC 1022	Creativity and Innovation	2	2	1	0	3
BSF 2812	Engineering Science Fundamental	2	2	1	0	3
BPA 2073	Management Information System	3	3	1	0	4
BPA 2083	Technology Management	3	3	1	0	4
BPD 2023	Construction Land Survey	3	1	1	6	8
BPD 2223	Construction Technology II	3	3	1	0	4
UMS 1113	Nationhood and Current Development	3	3	0	0	3
BPA 2102	Entrepreneurship	2	2	0	0	2

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BPD 2032	Construction Law	2	2	1	0	3
BPD 2043	Structure Analysis	3	1	2	3	6
BPD 2052	Soil Mechanics	2	1	1	3	5
BPD 2162	Construction Equipments	2	2	1	0	3
BPD 2232	Financial Construction Management	2	2	1	0	3
UM* 1312	Foreign Language	2	2	1	0	3
BPA 3112	Leadership and Supervision	2	2	0	0	2
BPD 3073	Construction Procurement	3	3	1	0	4
BPD 3082	Structural Design	2	1	0	3	4
BPD 3093	Construction Material & Testing	3	1	2	3	6
BPD 3242	Safety Construction Management	2	2	1	0	3
BPD 3322	Fundamental Architectural landscape Design	2	2	1	3	6
BPD 3103	Construction Cost Estimation	3	3	1	0	4
BPD 3113	Construction Scheduling and Planning	3	3	1	0	4
BPD 3292	Building Services	2	2	1	0	3
BPD 3272	Construction Professional Ethics	2	2	1	0	3
BPD 3302	Environmental Management	2	2	1	0	3
BPD 3142	Degree Project I	2	0	0	6	6
BPF 3073	Risk Management	3	3	1	0	4
BPF 3163	Town Planning for Construction	3	3	1	0	4
BPF 3173	Land Economy for Construction	3	3	1	0	4
BPF 3183	Traffic and Transportation Management	3	3	1	0	4
BPD 3154	Industrial Training	4	0	0	12	12
BPD 4192	Computer Application for Construction	2	1	1	3	5
BPD 4252	Facilities Management in Construction	2	2	1	0	3
BPD 4282	Construction Economic	2	2	1	0	3
BPD 4292	Strategic Management in Construction	2	2	1	0	3
BPD 4204	Degree Project II	4	0	0	12	12
BPF 4093	Building Technology for Health & Comfort	3	3	1	0	4
BPF 4103	Water Resource and Treatment	3	3	1	0	4
BPF 4203	Environmental Technology	3	3	1	0	4
BPE 3103	Real Estate Development and Appraisal	3	3	1	0	4



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Programme Learning Outcomes Matrix – Subjects

No.	Code	Courses	Programme Learning Outcomes							
			LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8
1.	BSM 1813	Mathematics for Management	x			x	x			
2.	BSM 1823	Statistic for Management	x	x		x	x	x		
3.	BSF 2812	Fundamental Engineering Science	x	x	x					x
4.	UMA 1132/1142	Islamic Studies/Moral Studies					x	x	x	
5.	UMB 1042	Technical Writing					x	x	x	
6.	UQ*1**1	Co-Curriculum I					x			
7.	UMB 1052	Effective Communication					x	x	x	
8.	UQ*1**1	Co-Curriculum II					x			
9.	UMA 1122	Islam Civilization and Asian Civilization					x	x	x	
10.	UMC 1012	Creativity & Innovation				x	x	x	x	
11.	UMB 1011	English for Academic Purpose					x	x	x	
12.	UMS 1122	Ethnic Relation					x	x	x	
13.	UMS 1113	Nationhood and Current Development					x	x	x	
14.	UM* 1312	Foreign Language					x	x	x	
15.	BPA 1013	Economy	x				x			
16.	BPA 1022	Principles Management	x		x		x	x		
17.	BPA 1042	Human Resource Management	x		x					
18.	BPA 1052	Principles Marketing	x		x		x			
19.	BPA 2073	Management Information System	x	x			x	x		
20.	BPA 2083	Technology Management	x	x	x		x			
21.	BPA 2132	Entrepreneurship	x				x	x		x
22.	BPA 3112	Leadership and Supervision	x	x						



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23.	BPD 1213	Project Construction Management	X	X	X			X		
24.	BPD 1012	Engineering Drawing	X	X						
25.	BPD 1332	Material Mechanic	X	X			X	X		
26.	BPD 1313	Construction Technology I	X	X			X			
27.	BPD 2023	Construction Land Survey	X	X			X	X		
28.	BPD 2223	Construction Technology II	X	X	X	X				
29.	BPD 2043	Structure Analysis	X	X			X	X		
30.	BPD 2052	Soil Mechanic	X	X			X	X		
31.	BPD 2162	Construction Equipment	X	X		X	X	X		
32.	BPD 2232	Financial Construction Management	X	X		X	X	X		
33.	BPD 2032	Construction Law	X		X					
34.	BPD 3073	Construction Procurement	X							
35.	BPD 3082	Structural Design	X	X			X	X		
36.	BPD 3093	Construction Material and Testing	X	X		X	X			X
37.	BPD 3242	Safety Construction Management	X		X	X		X	X	
38.	BPD 3322	Fundamental Architectural Landscape Design	X			X		X	X	
39.	BPD 3113	Construction Scheduling and Planning	X	X			X	X		
40.	BPD 3103	Construction Cost Estimation	X							
41.	BPD 3272	Construction Professional Ethics	X	X	X	X				
42.	BPD 3302	Environmental Management	X				X	X		
43.	BPD 3292	Building Services	X				X	X		
44.	BPD 3142	Degree Project I	X			X	X		X	
45.	BPD 4292	Strategic Management in Construction	X		X	X				
46.	BPD 4282	Economy Construction	X	X			X	X		
47.	BPD 4252	Facility Management in Construction	X				X	X		



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48.	BPD 4192	Computer Application for Construction	x	x			x	x	x	
49.	BPD 4204	Degree Project II	x			x	x		x	
50.	BPF 3073	Risk Management	x				x	x		
51.	BPF 3173	Land Economy for Construction	x				x	x		
52.	BPF 3183	Traffic and Transportation Management	x		x		x	x		
53.	BPF 3163	Town Planning for Construction	x			x			x	
54.	BPF 4203	Environmental Technology	x			x	x		x	
55.	BPF 4103	Water Resources and Treatment	x		x	x	x	x		
56.	BPE 3103	Real Estate Development and Appraisal	x		x	x				
57.	BPF 4093	Building Technology for Health and Comfort	x				x	x		
58.	BPD 3154	Industrial Training		x	x					

**Delivery Approach**

This programme is being delivered by using various approaches to fulfill the subject learning outcomes and in general shall provide central learning opportunities. The approaches are as follows:-

1. Lecture
2. Interactive Tutorial
3. Orientation sessions of training and application: lab work, studio workshop, site visit/ field work, demonstration, simulation.
4. Industrial Conference and Technical Visit.
5. Project Oriented Problem-based Learning (POPBL)
6. Project
7. Industrial Training
8. E-learning

**Assessment Methodology**

Assessment via formative and summative are as follows:-

1. Written Examination
2. Test and Quiz
3. Assignment
4. Presentation



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5. Practical Test
6. Lab Report
7. Oral Examination
8. Dynamic cluster monitoring, skill
9. Log book
10. Portfolio
11. Industrial Assessment

### Programme Recognition Requirement

The conditions for programme recognition are as follows:

1. Students apply for recognition and have obtained approval from the faculty;
2. Pass all the subjects required by the programme;
3. Obtained the total of *Kredit Dapat* as per required and *Kedudukan Baik (KB)*;
4. Pass with credit in the Bahasa Melayu subject at Sijil Pelajaran Malaysia (SPM) level;
5. Achieved minimum of Band 2 in MUET;
6. Application must be made by submitting the Degree or Diploma Recognition Application Form within the period as per required by the University.
7. Obtained approval and recognition certification from Senate.

### Working Opportunity

Students have great opportunities in the construction industries at both local and international, with positions as Assistant Project Manager, Assistant Construction Manager, Site Engineer, Project Coordinator, Site Agent, Site Supervisor, Site Clerk, Project Planning Executive, and Material Procurement Officer. The industrial training is provided to ensure the graduates contribute to related fields. The personality of the graduates will be enlightened from the soft skills learning. For those who are interested in doing research, they can work as researchers in any universities which are doing research in Construction Project Management. Other than that, the graduates are also qualified to further their study at the postgraduate level in any local or overseas universities if they possess excellent academic results.

### Additional Information

(Lecturer / Facilitator/ Project/ Target Group / Fee / etc )

1. Academic Staff:  
Lecturers who will be teaching the University's compulsory and supporting subjects are from the Centre of Science Studies (PPS), Humanity and Communication Studies (PPKK) and Centre of Curricular, Sports and Culture (PKSK). Meanwhile, the programmes' Core and Elective subjects will be delivered by academic staff from the Faculty of Technology Management.
2. Education Concept  
This programme is based on the *practice-oriented* and *Outcome Based (OBE)* concept of a system where the students will be embarked on theoretical and practical training for 7 semesters at the University and 10 weeks in the industry.
3. Fees  
The fees rate for this programme is RM510.00 (one-off fees) and RM1,908.00 (repeating fees per semester).

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4. The faculty's PROFORMA can be retrieved from the University's website at [www.uthm.edu.my](http://www.uthm.edu.my).

Prepared by

Certified by

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*Note: The informations are genuine during publishing and it can be changed at any time.*