

LESSON PLAN

1	Course Name:	FINAL YEAR PROJECT II					
	Course Code:	BFC43604					
	Course Classification:	Major (core)					
2	Synopsis:	<p>Final Year Project (FYP) is a form of training and exposure to engineering research undertaken by students independently and systematically under the guidance of a supervisor selected among academicians. The project focuses on a particular field of knowledge, the use of principles and related concepts and the application of techniques dealing with complex yet relevant engineering problems. Students are required to carry out the project individually. The project consists of 2 phases, i.e. FYP 1 and FYP 2, which are conducted consecutively in the final year of the program. Two credit hours are assigned to FYP 1 and four credit hours are assigned to FYP 2.</p> <p>For this course, students are required to execute the project that was proposed in the previous semester (FYP 1). All the data collected will have to be analysed using appropriate methods, and the research findings, conclusions and recommendations will have to be communicated. At the end of course, each student is required to submit a technical paper and a final report. The paper and report must comply with the prescribed formats. The student is also required to present his/her project in front of an examination panel.</p>					
3	Name(s) of Academic Staff Teaching This Course:	1	Dr. Zalipah binti Jamellodin (Coordinator)				
		2	All academic staff who have been appointed as Supervisor				
4	Semester and Year offered:	Year Offered	4	Semester	Remarks: SEMESTER II SESSION 2022/2023		
5	Credit Value:	4					
6	Pre-requisite/ co-requisite (if any):	BFC43402 (FINAL YEAR PROJECT I)					
7	Course Learning Outcome(s)						
	CLO	Statement				UTHM LOD	Taxonomy Level
	CLO1	Interpret results from the analyses of data and formulate solutions to engineering problems with respect to the research topic (LOD3-PLO3-C6)				LOD3	C6
	CLO2	Revise research processes in accordance with current methodologies and analytical methods, and effectively communicate them in the project report and technical paper (LOD8-PLO10-P6)				LOD8	P6
	CLO3	Justify the application of research methods, and defend the findings and conclusions drawn from the project with respect to past and current research (LOD15-PLO8-A5)				LOD15	A5

8 Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment Methods

CLO	Programme Learning Outcomes (PLO)												Teaching Methods	Assessment Methods	KPI	
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12				
CLO1			√											Project	Final Reports	50% students achieved 55% marks
CLO2										√				Project	Final Reports	50% students achieved 55% marks
CLO3								√						Project	Final Reports / Presentation	50% students achieved 55% marks
Mapping with MQF Cluster of Learning Outcomes			C2					C5		C3C				Indicate the primary causal link between the CLO and PLO by ticking '√' in the appropriate box. C1 = Knowledge & Understanding, C2 = Cognitive Skills, C3A = Practical Skills, C3B = Interpersonal Skills, C3C = Communication Skills, C3D = Digital Skills, C3E = Numeracy Skills, C3F = Leadership, Autonomy & Responsibility, C4A = Personal Skills, C4B = Entrepreneurial Skills, C5 = Ethics & Professionalism		

9 Transferable Skills (if applicable)

Skills learned in the course of study which can be useful and utilized in other settings.

Note: Refer to MQF Cluster Mapping in Section 8

1	Cognitive skills
2	Ethics and Professionalism
3	Communication Skills

Open-ended response (if any)

4	
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10 Distribution of Student Learning Time (SLT)

Continous Assesement	CLO	%	Week	Face-to-Face (F2F)				NF2F Independent Learning for Assessment (Asynchronous)	SLT	
				Physical		Online/ Technology- mediated (Synchronous)				
				Theory	Practical	Theory	Practical			
1	Draft Report	1 2 3	55	13	40				84	124
2	Technical Report	1 2 3	20	15	6				12	18
3	Presentation	1 2 3	25	16	6				12	18
4										
SUB-TOTAL MARKS:			100	SUB-TOTAL SLT:					160	
Final Assesement	CLO	%	Week	Face-to-Face (F2F)				NF2F Independent Learning for Assessment (Asynchronous)	SLT	
				Physical		Online/ Technology- mediated (Synchronous)				
				Theory	Practical	Theory	Practical			
1										
2										
3										
4										
SUB-TOTAL MARKS:				SUB-TOTAL SLT:						
SLT for Assessment:									160	
GRAND TOTAL SLT:									160	
A	% SLT for F2F Physical Component: <i>[Total F2F Physical / (Total F2F Physical + Total F2F Online + Total Independent Learning) x 100]</i>									
B	% SLT for Online & Independent Learning Component: <i>[(Total F2F Online + Total Ind. Learning) / (Total F2F Physical + Total F2F Online + Total Ind. Learning) x 100]</i>									
C	% SLT for All Practical Component: <i>[% F2F Physical Practical + % F2F Online Practical + % WBL]</i>									
C1	% SLT for F2F Physical Practical Component <i>[(Total F2F Physical Practical + WBL) / (Total F2F Physical + Total F2F Online + Total Independent Learning) x 100]</i>									
C2	% SLT for F2F Online Practical Component <i>[Total F2F Online Practical / (Total F2F Physical + Total F2F Online + Total Independent Learning) x 100]</i>									

Please tick (✓) if this course is **Industrial Training/Teaching Practice** using 50% of Effective Learning Time (ELT)

Please tick (✓) if this course is **Work Based Learning** using 80% of Effective Learning Time (ELT)

X

Note:

* Indicate the CLO based on the CLO's numbering in Item 8

** For OD L programme: Courses with mandatory practical requirements imposed by the programme standards or any related standards can be exempted from complying to the minimum 80% OD L delivery rule in the SLT.

*** For WBL programme, the SLT will be scaled by 80% to obtained the ELT

11	Special requirement or resources to deliver the course (e.g., software, nursery, computer lab, simulation room etc)	Not Applicable
12	References (include required and further readings, and should be the most current (less than 5 years))	<ol style="list-style-type: none"> 1. Guidelines For The Implementation of Final Year Project, Faculty of Civil and Environmental Engineering, Universiti Tun Hussein Onn Malaysia, 2022. 2. Thesis Writing Guide, Centre for Graduate Studies, Universiti Tun Hussein Onn Malaysia, 2012. 3. Ranjit Kumar. Research Methodology: a step-by-step guide for beginners, Sage Publication, 2011. 4. Research Methodology : Methods and Techniques. C.R. Kothari, 2004. https://ebookcentral.proquest.com/lib/uthm-ebooks/detail.action?docID=431524 5. Richard Fellow and Anita Lui, Research method for construction, Wiley Blackwell, 2008. 6. John Creedy, Research without tears : from the first ideas to published output, Edward Elgar Publication, 2008.
13	Other additional information (if applicable)	Tawhidic Paradigm Elements (EPT 01 - Intention, EPT 02 - Connection To God, EPT 04 - Integrity, EPT 07 - Wise , EPT 11 - Mastery of Knowledge)
14	Course Attendance / Regulations	<ol style="list-style-type: none"> 1. Students must attend not less than 80% of the contact hours for every course including Compulsory Attendance Course (Hadir Wajib – HW) and Attendance Only Course (Hadir Sahaja – HS). 2. Student who does not fulfill (1) of the above is not allowed to attend further lectures and is not allowed to sit for any further assessment. Zero mark (0) will be given to student who fails to comply with (1). As for Compulsory Attendance Course (Hadir Wajib – HW), student who fails to comply with (1) will be given Failure Attendance (Hadir Galag – HG). 3. Student must follow and obey all the University dress rules and regulations and must discipline themselves to avoid any disciplinary action. 4. Student must obey safety regulations during the learning and teaching process.
15	Prepared by : (Coordinator)  Name : Dr Zalipah binti Jamellodin Position : Senior Lecturer Date : 16 March 2023	Verified by :  Name : Prof. Ts. Dr. Aziman bin Madun Position : Head of Civil Engineering Department Date : 16 March 2023