1	Course Name:	Software Project Management					
	Course Code:	BAIT3153					
	Course Classification:	Major (core)					
2	Synopsis:	This course introduces students to the essential aspects of software and project management which includes the application of various proven software project management techniques, methods and tools such as project planning and estimation, project monitoring and control, software process models and project metrics for cost effective, reliable and quality software.					
3	Name(s) of Academic Staff:	1	Refer to timetable				
		2					
		3					
4	Semester and Year offered:	Year Offered		Semester		*Remarks: Refer to Programme Structure*	
5	Credit Value:	3					
6	Pre-requisite/ co-requisite (if any):	BACS2163 Software Engineering (for Bachelor of Computer Science (Honours) in Software Engineering only) Nil (for all other programmes)					

7

Course Learning Outcomes (CLO)		
	CLO1	Analyse the software project management techniques, methods and processes for project management. (C4, PLO2)
	CLO2	Assume responsibility to practice communication skills for project management. (A3, PLO5)
	CLO3	Behave according to the code of ethics and professional conduct for project management. (A3, PLO11)

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

Course Learning Outcomes	Programme Learning Outcomes (PLO)												Teaching Methods	Assessment Methods
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11			
CLO1		√											L,T,P,NF2F	Test, examination
CLO2					√								L,T,P,NF2F	Assignment
CLO3											√		L,T,P,NF2F	Assignment
Mapping with MQF Cluster of Learning Outcomes		C2			C3C						C5			

Indicate the primary causal link between the CLO and PLO by ticking 'v' 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

1	Communication Skills

can be useful and utilized in other settings)

2	Ethics and Professionalism
3	Cognitive skills

Open-ended response (if any)

4	

10 Distribution of Student Learning Time (SLT)

Note: This SLT calculation is designed for home grown programme only.

	Course Content Outline and Subtopics	CLO*	Learning and Teaching Activities**									Total SLT
			Face-to-Face (F2F)								NF2F Independent Learning (Asynchronous)	
			Physical				Online/ Technology-mediated (Synchronous)					
			L	T	P	O	L	T	P	O		
1	Management and Project Management Concept • Project life cycle, needs identification, RFP and proposals • Project appraisal and evaluation • Attributes and knowledge of a project manager • Human resource management spectrum and Team Development • Causes of project failures and critical success factors • Generic project process model and its attributes	1,2,3	10	5	5	-					5	
2	Project Planning, Control and Process Models • Project planning (PERT and Gantt chart) and estimation • Project monitoring process and control • Selection of process models	1,2,3	2	1	5	-					1	
3	Quality Management and Assurance • Quality management and costs • Quality concept and principle activities • Quality assurance and standards • Process and product quality relationship • Quality planning and quality controls • Techniques to help enhance software quality • The ISO9001 standards framework	1,2,3	4	2	1	-					2	
4	Software Metrics • Metrics for software quality • Function oriented and line of code metrics • Attributes of good metrics and implementation of metrics	1,2,3	2	1	1	-					1	
5	Software Process Improvement • The Software Process Improvement (SPI) • Importance of SPI • The CMMI process improvement framework	1,2,3	2	1	1	-					1	

6	Software Configuration Management •Software Configuration Management (SCM) concepts (baselines, SCM items, etc) • SCM process • Version control and change control • Configuration audit and reporting	1	2	1	-	-					1	
7	Risk Management • Risk analysis and management • Types of risks • Risk Identification • Risk Projection • Risk Refinement • RMMM and safety risks and hazards	1,2,3	2	1	1	-					1	
8	Software Dependability & Critical Systems • Dimensions of system dependability • Types of critical systems • Systems availability and reliability • Approaches to improve system reliability • Safety and ways of improving system safety • Security and its damages • Approaches to secure system security	1	4	2	-	-					2	
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
											SUB-TOTAL SLT:	**70**

Continous Assessment		%	Face-to-Face (F2F)		NF2F Independent Learning for Assessment (Asynchronous)	
			Physical	Online/ Technology-mediated (Synchronous)		
1	Test	10	1		10	
2	Assignment	40	7		20	
3						
4						
5						
					SUB-TOTAL SLT:	**38**
			Face-to-Face (F2F)		NF2F	

	Final Assessment	%	Physical	Online/ Technology-mediated (Synchronous)	Independent Learning for Assessment (Asynchronous)	
1	Examination	50	2		10	
2						
3						
4						
5						
					SUB-TOTAL SLT:	**12**
					SLT for Assessment:	50
					GRAND TOTAL SLT:	120
A	% SLT for F2F Physical Component: *[Total F2F Physical /(Total F2F Physical + Total F2F Online + Total Independent Learning) x 100)]*					55.00
B	% SLT for Online & Independent Learning Component: *[(Total F2F Online + Total Independent Learning) /(Total F2F Physical + Total F2F Online + Total Independent Learning) x 100]*					**45.00**
C	% SLT for All Practical Component: *[% F2F Physical Practical + % F2F Online Practical]*					**11.67**
C1	% SLT for F2F Physical Practical Component *[Total F2F Physical Practical /(Total F2F Physical + Total F2F Online + Total Independent Learning) x 100)]*					**11.67**
C2	*% SLT for F2F Online Practical Component* *[Total F2F Online Practical / (Total F2F Physical + Total F2F Online + Total Independent Learning) x 100]*					**0.00**

Please tick (√) if this course is **Industrial Training/ Clinical Placement/ Practicum** using 50% of Effective Learning Time (ELT)

Note:

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

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

11	Identify special requirement or resources to deliver the course (e.g., software, nursery, computer lab, simulation room etc)	Nil
12	References (include required and further readings, and should be the most current)	**Main references supporting the course** 1. Kloppenborg T., Vittal S. A., & Wells, K. (2022). *Contemporary Project Management* (5th ed). Cengage Learning. https://tarcez.tarc.edu.my/login?url=https://resolver.vitalsource.com/9780357715826 2. Tsui, F., Karam, O., & Bernal, B. (2023). *Essentials of Software Engineering* (5th ed.). Jones & Bartlett Learning. https://tarcez.tarc.edu.my/login?url=https://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=3135670
13	Other additional information (if applicable)	Nil

Note: Number of PLO indicated is purely for illustration purposes only and the number is subjected to the curriculum design.