COURSE OUTLINE

Department/ Faculty:	Computer Science, Information System, Software Engineering/ Computing		
Course code:	SECR 3032	Academic Session/Semester:	20222023/1
Course name:	FINAL YEAR PROJECT 1	Pre requisite:	Application Development (SECJ3104)
Credit hours:	2		

Course synopsis	This is the first part of a 2-part Final Year Project that every student must fulfil successfully. Students are introduced to the methodologies of research and application development through a series of lectures. Students are guided through a step-by-step practice to complete the initial stages of proposal, planning and design of a project. Students must also meet regularly with supervisor(s) who will monitor their continuous progress. Students are required to prepare a report and present their initial work.
Course coordinator (if applicable)	Ms Hazinah Kutty Mammi

Course lecturer(s)/ Section	Name	Office	Telephone (07) 55-	E-mail @utm.my
SECR (01)	Ms. Hazinah Kutty Mammi			hazinah
SECJ (01)	Dr. Noraini Ibrahim & Dr. Sim Hiew Moi			noraini_ib & hiewmoi
SECV (01)	Dr. Jumail Taliba			jumail
SECB (01)	Dr. Nies Hui Wen			huiwennies
SCSP (01)	Dr Izyan Izzati Kamsani Dr Muhammad Aliif Ahmad			Izyanizzati & muhammadaliif

Mapping of the Course Learning Outcomes (CLO) to the Programme Learning Outcomes (PLO), Teaching & Learning (T&L) methods and Assessment methods:

No.	CLO	PLO (ICGPA CODE)	Weight (%)	*Taxonomies and **generic skills	T&L methods	Assessment methods***
CLO1	Prepare relevant information pertaining to project needs from a variety of resources.	PLO1 (KW), PLO9 (GC)	25	C3, A5, GC3	Workshop, Supervisory	PR, PD, SV, EV
CLO2	Apply project development methodologies appropriate to the project.	PLO1 (KW), PLO2 (AP), PLO5 (TH)	30	C3, TH3	Workshop, Supervisory	PR, PD, SV, EV
CLO3	Design, plan and propose a project according to user requirements.	PLO2 (AP), PLO3(PS), PLO5 (TH)	35	C6, TH3	Workshop, Supervisory	PR, PD, SV, EV
CLO4	Communicate project ideas and current work achievements clearly through technical report and presentation.	PLO4 (CS)	10	CS4	Workshop, Supervisory	PR, Pr, SV, EV

Refer *Taxonomies of Learning and **UTM's Graduate Attributes for measurement of outcomes achievement.
***PD – Project Development/Coding; Pr – Project Presentation; PR – Personal Report, SV – Supervisory, EV – Evaluation; etc.

Details on Innovative T&L practices:

No.	Type	Implementation

Prepared by:	Certified by:
Name: Hazinah Kutty Mammi (Course Owner)	Name: Prof. Dr. Md Asri Ngadi (Director)
Signature:	Signature:
Date: 10 October 2022	Date:

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1.		
2.		

Weekly Schedule:

Week 1	Final Year Project 1 Briefing Project Area and Faculty Supervisor Expert Briefing
Week 2	**Project Proposal** • How to complete project proposal form • Project Proposal Interview
Week 3	**Chapter 1 Introduction** • Problem statement • Project Objective, Scope, Justification • Log Book • Project Discussion and Supervisory Meeting starts
Week 4	**Library Visit 1**: Resource Searching Skills
Week 5	**Chapter 1 Presentation**
Week 6	**Chapter 2 Literature Review** • Literature Review • Information Searching • Reference and Citation Style and Formatting
Week 7	**Chapter 3 Methodology** • Covers both Research and System Development • Methodology • Data collection and requirement survey • Gantt Chart and Project Management

Week 8	**Chapter 4 Design**
	• Covers both Research and System Development
	• System development:
	  ▪ Architecture design
	  ▪ I/O design
	  ▪ Database design
	  ▪ Interface design
	• Research:
	  ▪ Experimental design (Overall Flow, Test bed/Simulation Setup)
	  ▪ Parameter and Testing Method

Week 9	**SEMESTER BREAK**
Week 10	**Chapter 5 (PSM 1: Conclusion)** **Project 1 Presentation** **Thesis Writing** • Covers both Research and System Development • Formatting • Plagiarism issue

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Week 11	**Library Visit 2**: Short Paper Writing Skills
Week 12	**Chapter 5 (PSM 2: Testing and Result Analysis)** • Covers both Research and System Development • Implementation • Model development • Testing and Validation
Week 13	**Chapter 6 (PSM 2: Conclusion)** • Discussion and Conclusion • Future Works
Week 14	Project 1 Presentation Preparation
Week 15	**Project 1 Presentation**

Transferable skills (generic skills learned in course of study which can be useful and utilised in other settings):

System Development and Fundamental Research Skills

Student learning time (SLT) details:

Distribution of course content	Teaching and Learning Activities						TOTAL SLT
	Guided Learning (Face to Face)				Guided Learning Non-Face to Face	Independent Learning Non-Face to face	
CLO	L	T	P	O			
CLO 1			2	5	3	10	**20**
CLO 2			2	5	3	10	**20**
CLO 3			2	5	3	10	**20**
CLO 4			2	5	3	10	**20**
Total SLT			8	**20**	**12**	**40**	**80h**

Continuous Assessment		PLO	Percentage	Total SLT
1	Supervision	AP	10	
2	Project Progress 1	KW	10	
3	Project Progress 2	KW	10	
4	Final Report	KW, AP, CS, TH	30	
5	Design (SD/R)	AP, PS, TH	25	
6	Ethics	GC	5	
Final Assessment			Percentage	Total SLT
1	Project 1 Presentation	AP, CS	10	
Grand Total SLT				**80h**

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Special requirement to deliver the course (e.g: software, nursery, computer lab, simulation room):

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Learning resources:

Text book (if applicable)
Main references
Final Year Project Handbook

Additional references
Online: SC Formal FYP website at https://engineering.utm.my/computing/psm/

Academic honesty and plagiarism:

Other additional information (Course policy, any specific instruction etc.):

Percentages of CLO-PLO Mapping for SECx 3032 Final Year Project 1:

PLO			PLO1		PLO2		PLO3	PLO4	PLO5		PLO9	
No.	Assessment	%	CLO1	CLO2	CLO2	CLO3	CLO3	CLO4	CLO2	CLO3	CLO1	Total
1	**B(1) Supervision**	**10**			10							**10**
2	**B(2) Progress Report 1**	**10**	10									**10**
3	**B(3) Progress Report 1**	**10**	10									**10**
4	**B(4) Final Report**	**30**		5	10	5		5	5			**30**
5	**B(5) SystemD/ResearchED**	**25**				5	15			5		**25**
6	**B(6) Presentation**	**10**				5		5				**10**
7	**B(7) Ethics**	**5**									5	**5**
			20	5	20	15	15	10	5	5	5	
	Overall Total		**25**		**35**		**15**	**10**	**10**		**5**	

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Additional information (Course policy, any specific instruction etc.):

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