

COURSE INFORMATION

											Software Requirements Engineering									
2.	Course Code Type of Course													TSE2		on Co	re for	B.CS (SE)		
	(e.g. : Core, major, elective etc.) Synopsis													Softw	are re	quiren	nents ect. Ti	engineering is a c	critical success fact es a comprehensiv	or for each software e requirements
5 .	Version (State the date of theSenate's app	roval -	- previo	ous and	the cur	rrent ap	oproval	date)						Curre	nt: Ja	frame nuary une 20	2018			
6 .	Name(s) of Academic Staff															Yee, I ina Ch			wan Dollmat, Lim T	ek Yong, Nor'ain Mohd
7.	Samester and Vear Offered													Samo	etar 2	, Year	2			
8.	Semester and Year Offered Credit Value												4				· · · · · · · · · · · · · · · · · · ·			
	Pre-Requisite Objective of the course in the programme: To equip students with knowledge and skills of software requirements engineering framework covering the course of								TSE2101 Software Engineering Fundamentals											
11 .	To equip students with knowled Justification for including to	-						ents e	ngine	ering f	rame	work c	overi	ng con	text, r	equire	ments	artifacts, core-ac	ctivities and cross-s	sectional activities.
	To provide students with fundamental knowledge of requirements engineering in order to document the relevant requirements in a systematic approach.																			
12 .	ourse Learning Outcomes (CLO) LO1: Comprehend requirements engineering framework.									Domain					Level 2					
											ion	Cognitive								
	· ·	of requirements specification.									4	Cognitive					3			
	negotiation.	ierita (criarig	e base	ou on t		COME	Orrec	juli em	51113 V	anuai	ion an				С	ognitiv	/e		6
13 .	. Mapping of the Course Learning Outcomes to the Programme Learni							arning Outcomes. Teaching				Methods and Assessment								
	Course Learning											_	Teaching Methods					Asses	sment Method	
	Outcomes (CLO) (Must tally with CLOs in item 12)	P L O	P L O	P L O	P L O	P L O	P L O	P L O	P L O											
		1	2	3	4	5	6	7	8											
	CLO1 CLO2							√	V					Lectu Tutori	ial				Test Project Part 1	
	CLO3:								✓					Tutori					Project Part 2	
	Total						1	2										d PLO by ticking "√" the appropriate relevant box h standards 2.1.2, 2.2.1, and 2.2.2 in Area 2 –		
14 .	Transferable Skills: Problem Solving Skills										•		•							
15 .	Distribution of Student Lea	rning	Time	(SLT)															
						**CLO					Teaching and Learning Activities Guided			Guided	Independent					
	Course Content Outline													ng	Learning	Learning (NF2F)*	Total SLT			
														(NFZF)	(NFZF)					
	Introduction to Requirements Engineering and Context Introduction to the importance of conducting proper software requirements engineering. Definitions of					1, 2, 3					4	2			4	6	16			
	requirements. Framework for Requirements Engineering. System, System Context and Boundaries. Development Context. Requirements Engineering Context. Core Activities Requirements Sources. Requirements Categorisation according to the Kano Model. Elicitation techniques. Document Design. Documentation Types. Document 2 Structures. Use of Requirements Document. Quality Criteria for the Requirements Document. Quality Criteria for Requirements. Glossary. Language Effects. Requirements Construction using Templates. Fundamentals of Requirements Negotiation. Requirements Artifacts Goal Models. Use Cases. Three perspectives on Requirements. Description of Requirements. Proceedings. Behavioural Modelling. Scenarios. Solution-oriented Requirements. Conceptual Modelling.																			
							1, 2, 3					8	6			4	14	32		
							1, 2, 3					10	6			8	16	40		
	Cross-sectional Activities Fundamentals of Requirements Validation. Checking Requirements Quality. Principles of Requirements Validation. Techniques for Requirements Validation. Assigning Attributes to Requirements, Views on Requirements, Prioritising Requirements, Requirements Traceability, Versioning of Requirements, Management of Requirements Changes.						1, 2, 3					6	6				12	24		
																	·		Total SLT	112
	4 Cantina a A									SUM	MATI	VE AS	SES	SMEN	T			0/	=	Catal CLT
	1. Continuous Assessment									Percentage % Total SLT										

Project Part 1		35%		21						
Project Part 2		35%		21						
Test		30%	6							
	48									
2. Final Assessment		Percentage %	Total SLT							
			F2F	ILT						
Total SLT for Final Assessment (F2F + NF2F) 0										
Total SET for Final Assessment (F2F + NF2F)										
Grand Total		100%		160						
**Indicate the CLO based on the CLO's numbering in Item 12. *L= Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Face to Face, NF2F*= Non Face to Face										
Lecture, 1 - Internal, 1 - Indution, 0 - Others, 121 - Indue to Face to Face										
dentify Special Requirement to Deliver the Course (e.g., software, nursery, co	ntify Special Requirement to Deliver the Course (e.g., software, nursery, computer lab, simulation room):									
Computer lab										
7 . Main References:	in References:									
Klaus Pohl (2010) Requirements Engineering: Fundamentals, Principles, and To	Pohl (2010) Requirements Engineering: Fundamentals, Principles, and Techniques, Springer.									
B . Additional References:	al and Chris Rupp (2015) Requirements Engineering Fundamentals: A Study Guide for the Certified Professional for Requirements Engineering Exam - Foundation Level - IREB									
compliant, (2nd Edition), Rocky Nook Computing.										
Phillip A. Laplante (2013) Requirements Engineering for Software and Systems, 2nd Edition, Auerbach Publications.										

Note:

Cells shaded light grey contain formulas / fixed values. Edit these formulas only if needed.