

COURSE INFORMATION

1.	Name of Course													Objec	ct-Orie	nted A	nalysi	is and Design			
2 .	Course Code													TCP2	2201						
3 .	Type of Course (e.g. : Core, major, elective etc.)													Speci	iaizatio	n Cor	е				
4 .	Synopsis													when desig progra cycles	develoning a ammirs. Des	oping : n appl ng, as ign pa	softwa catior well a tterns	ire. Content cover n, system, or busin s using visual mod	ed includes approa ness by applying ob deling throughout the	lysis and design methods tiches for analyzing and oject-oriented ne development life tidents with tried and	
5 .	Version (State the date of theSenate's app	roval -	previou	s and t	he curr	ent app	oroval d	late)								nuary 2					
6	Name(s) of Academic Staff													Soo V	Mooi k	ing Is	n Cha	i Ku Day Chyi Δι	ngeline Pang Nyuk	Khoo	
	Semester and Year Offered															(Gam		ai, Nu Day Oriyi, Ai	ngenine i ang riyak	TUICC	
	Credit Value													4		(,				
	Pre-Requisite													TCP1	201 C	bject-	Orient	ed Programming	and Data Structure	S	
	Objective of the course in t To equip students with knowled	edge o	of fund	ament				ect-ori	ented	analy	sis an	d desi	ign te	chniqu	es an	d its ef	fects	on the implementa	ation of a software	system	
11.	Justification for including t To provide students with obje							ept for	r large	scale	prog	rammi	ng or	applic	ation	develo	pmen	t			
12 .	Course Learning Outcomes					-			-	-		-			-	D	omai	n	Level		
	CLO1: Explain object-ori															С	ognitiv	/e		2	
	CLO2: Interpret the anal									M	4-4:					С	ognitiv	/e		3	
	CLO3: Examine object-o			,		,	Ŭ									С	ognitiv	/e		4	
	CLO4: Employ design pa																ognitiv			3	
13 .	Mapping of the Course Lea	rning	Outco	omes	o the	Prog	ramm	e Lear	ning	Outco	mes,	leac	hing	Metho	ds an	d Ass	essm	ent:			
	Course Learning 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	РГО	P L O	P L O 1	P L O 1	P L O 1		'	eacni	ng w	ethods	Asses:	sment Method	
	01.04	1	2	3	4	5	6	7	8	9	0	1	2	Lastin	T				A i	T	
	CLO1 CLO2	•	•	✓									1			utorial utorial			Assignments, Qui Assignments, Qui		
	CLO3			·									1			utorial			Assignments, Fin		
	CLO4		✓		✓	✓										utorial			Assignments		
	Total	1	2	2	1	1								(This o	descrip		st be r			e appropriate relevant box and 2.2.2 in Area 2 – pages	
	Transferable Skills: Transferable skills: Creativity How is it developed: Through Assessment: Assignment pro Distribution of Student Lea	n oper esenta	ende	d grou prototy	p assi						orient	ed me	thodo	ology							
	Course Content Outline						**CLO					Teaching and Learning Activities Guided			Learning	Independent Learning (NF2F)*	Total SLT				
	Review on Object Oriente	d, Mod	dels, C	lasses										4	4	,			8	16	
	Encapsulation, Abstrac Object Oriented Analy Overview of analysis, A Model, Entity, Boundary Generalization and Spe	/sis .nalysi / and (cializa	s Obje Contro	ect Mo	del an									2	4			4	6	16	
	Object Oriented System Overview of design, Su subsystem interfaces, 0 partition	bsyste	em and											4	8			8	12	32	
	UML and Object Orier Overview of UML, Use Class Diagams, Interac Statechart Diagrams, A	Case tion D ctivity	Diagra iagrar Diagr	ams ns	Desi	gn								6	6				12	24	
	Introduction to Design Reuse concepts, Selecting design pattern (execution pattern, implication pattern etc)	ting D n, exa	esign mples	of des	ign pa	atterns								6	6		_		12	24	

Total SLT

SUMMATIVE ASSES	SMENT				
1. Continuous Assessment	Percentage %	Total SLT 3			
Quizzes	10%				
Assignments	30%	21			
Test	20%	6			
	Total SLT for Continuous Assessment		30		
2. Final Assessment	Percentage %	Total SLT			
	_	6 30 Total S F2F 2 18	ILT		
Final Exam	40%	2	16		
Total	SLT for Final Assessment (F2F + NF2F)		18		
Grand Total	100%		460		
	100 /6		100		
**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 I	ace				
6 Identify Special Requirement to Deliver the Course (e.g., software, nursery, computer lab, simulat	ion room):				
Computer lab					
7 . Main References:					
Grady B, Robert A. M, Michael W. E, Bobbi J. Y, Jim C, Kelli A. H, Object-Oriented Analysis and Des	ign with Applications(Third Edition),Addison	Wesley Profession	onal, 2007		
8 . Additional References:					
Brett D. M, Gary P & David W, Head First Object-Oriented Analysis & Design, O'Reilly, 2009.					
Eric F, Elisabeth F, Bert B and Kathy S, Head First Design Pattern, O'Reilly, 2009.					
Bernd B, Allen H. D, Object Oriented Software Engineering Using UML, Patterns and Java, Pearson	D				

Note:

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