

COURSE INFORMATION

_	ame of Course													Mathe		cs II				
_	ourse Code ype of Course													PMTC	PMT0201					
	g. : Core, major, elective etc.)																			
. S	ynopsis	_		_		_	_	_	_	_	_	_	_		and b	uilding				ometry and concept of lications of differentiation
	ersion tate the date of theSenate's app	roval -	- previo	us and	the cur	rent ap	proval	date)								inuary Septem		015		
. N	ame(s) of Academic Staff													Pee 0						
														Juliza Ng Se Foo L	ew La		ır			
. S	emester and Year Offered													Trime	ster 2	2				
	redit Value													4 Moth	o moti	no I				
	re-Requisite bjective of the course in t	he pro	ogram	nme:										Mathe	ematio	CS I				
	o provide students with a so							hema	tical co	oncep	ts.									
. <u>J</u> l	ustification for including the	ne co	urse I	n tne	progra	amme	-													
	ourse Learning Outcomes LO1: Solve problems re			clas t	rigono	metric	functi	one a	nd tria	nales							Oomai	n		Level
	·											d con	nplex				ogniti			3
C	numbers in polar	Ive problems related to trigonometric identities, trigonometric equations and com mbers in polar form. Ive problems related to limits and continuity.					Cognitive					3								
L	LO4: Solve problems re						tegrati	ion.						Cognitive					3	
							-		nina i	Outoo	mec	Tess	hina	Metho	de an		ogniti			3
. V	apping of the Course Lear	ııııg	Jutco									ı edC	mg	weru0					1 .	oment Meth - d
	Course Learning Outcomes (CLO)			Pr	ogram	me L	earnir	g Out	come	s (PL) 			1		each	ing M	ethods	Assess	sment Method
	(Must tally with CLOs in	_	_	_	_	_	_	_	_	_	Р	Р	Р							
	item 12)	P L	P L	P L	P L	P L	P L	P L	P L	P L	L	L	L							
		0	0	0	0	0	0	0	0	0	1	1	1							
L	1.04	1	2	3	4	5	6	7	8	9	0	1	2	1	/T				O::/T+-/F	:! F
	LO1 LO2	✓ ✓	<u> </u>		<u>L</u>		✓ ✓	L		L	L	L			re/ Tu	utorial	_		Quizzes/ Tests/ F Quizzes/ Tests/ F	
С	LO3	√					√							Lectu	re/ Tu	utorial			Quizzes/ Tests/ F	inal Exam
С	LO4	✓	1	<u> </u>	1		✓						├			utorial relevan	cy bet	ween the CLO and F	Quizzes/ Tests/ F PLO by ticking "✓" th	inal Exam e appropriate relevant box
т	otal	4					4							(This o	descrip		ust be	read together with st		and 2.2.2 in Area 2 –
A:	ransferable Skill: Problem S ow it is developed: Discussi ssessment: Tutorial Exercis istribution of Student Lear Course C	ion/ Pi es/ Qi rning	ractice uizzes Time	/ Test				of bas	sic mat	**C		real v	vorld	T Lea	each rning	ing an Activ	ities	Guided Learning	Independent Learning	Total SLT
													*1	(F2 *T	2F)* *P	*^	(NF2F)*	(NF2F)*		
	Trigonometry Angles and their measus sectors. Trigonometric Sines and Law of Cosir	functi	ions a	nd the	eir grap					1				*L 8	4	, r	*0	6.5	7.5	26
H	Analytic Trigonometry																			
	2 Numbers. Trigonometric identities complex numbers. De I	and o	equati	ons. F		orm of				2	!			8	6				9	23
	3 Limits and Continuity Finding limits numerica function. Calculating lin One-sided Limits. Cont	lly and	sing th	e limit	laws.	limit o	fa			3	1			6	4				6	16
	Derivatives Concept of the slope of Derivative as a function rule. Higher order deriv maximum values. Motic	n. Diffe atives	erentia s. Minir	ation ro mum a	ules. T and		ain			4	ļ			9	6				9.5	24.5
	Integrals Indefinite and definite in Calculus. Techniques Volumes of solids of re	ntegra	als. Fu	undam	nental ⁻					4	ļ			8	4			5	7.5	24.5
E	•																		Total SLT	114
L										SUM	MATI	/E AS	SES	SMEN	Т					
1. Continuous Assessment Quizzes						Percentage % 20%				je %	Total SLT 12									
	lid term Test																30%			12
F																				
L														Total	SLT	for Co	ntinu	ous Assessment		24
H	inal Accessment						Percentage % Total SLT				otal SLT									
2.	Final Assessment													İ		Perc	entag	je %	F0F '	

Final Exam	50%	2	20
	Total SLT for Final Assessment (F2F + NF2F)		22
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*= No	n Face to Face		
16 . Identify Special Requirement to Deliver the Course (e.g., software, nursery, computer la	b, simulation room):		
	•		
17 . Main References:			
18 . Additional References:			
Stewart, J. (2014). Calculus (8th ed.). Brooks/Cole.			
Stewart, J. (2012). Precalculus (6th ed.). Brooks/Cole.			
George B. Thomas, Jr., Maurice D. Weir, Joel Hass and Frank R. Giordano. (2009). Tho	mas' Calculus (12th ed.). Addison-Wesley Publishin	g Company.	
Blitzer, R. (2007). Algebra and Trigonometry (3rd ed). Pearson Education.			
Sullivan, M. (2008). Algebra and Trigonometry (8th ed). Pearson.			

Note:

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