

COURSE INFORMATION

1	Name of Carras									lor:	ot O	nt- 1)rc =:::	mmina				
	Name of Course Course Code							Object Oriented Programming										
	Course Code Type of Course									DCS5088 Core								
J.	(e.g. : Core, major, elective etc.)									Core								
4 .	. Synopsis									This subject covers the basic and advanced object oriented programming concin order to solve simple to moderate problems. The course covers topics such a C++ fundamentals, classes and objects, constructors, destructors and friends, dynamic memory allocation, inheritance, function and operator overloading and virtual functions.								
5 .	(State the date of theSenate's approval - previous and the current approval date)									Current: October 2017 Previous: June 2017 New version : ADC Oct 2017 Special Senate 93 Nov 2017								
6	Name(s) of Academic Staff													<u> </u>				
	Semester and Year Offered									Julie Yew, Nurul Aini Nordan, Usha Vellappan, Nun Shwu Huey Year 1 Trimester 3								
	Credit Value									4	4 DCS5038 Program Design							
									DCS	5038	Progra	m Des	ign					
To initiate skills to write algorithms and programs. Students will be introduced to current programming paradigms, programming methodology and object programming.											gy and object – oriente							
11 .	Justification for including the course in the programme: The subject is offered to expose students to object oriented programming methodology as virtually all programming languages, scripting languages and applicate designs are object-oriented or object-based. Therefore, it is crucial that students be familiar with object oriented programming methodology.																	
12 .	Course Learning Outcomes (CLO) CLO1: Distinguish between object oriented programming and procedura												Domai	n	Level			
	CLO1: Distinguish betw programming.	een ob	yect o	iented	ı prog	ıarnmı	ng and	a proce	euura	"		C	Cognitiv	/e	2			
	CLO2: Apply object oriented programming concepts to solve programming problems.									Cognitive					3			
	CLO3: Demonstrate teamwork in developing OOP programs using C++'s advanced features.										Affective					3		
13 .	Mapping of the Course Learning Outcomes to the Programme Learning										Outcomes, Teaching Methods and Assessment:							
	Course Learning Outcomes (CLO) (Must tally with CLOs in item 12)	P P L O	P L O	P L O	P L O	P L O	P L O	P L O	P L O	Teaching Methods					Assessment Method			
									8									
	CLO1	✓					/			_	ıre/La				Quiz/Assignment Final Exam/Midterm/Lab			
	CLO2 CLO3		1			1	\ \ \				ıre/La p Disc	ussio	າ		Project	m/Lab		
	Total 1 1 1									Indicate the relevancy between the CLO and PLO by ticking "<"the appropriate relevant to (This description must be read together with standards 2.1.2, 2.2.1, and 2.2.2 in Area 2 pages 16 & 18 of COPPA 2.0)								
14 .	Transferable Skills:							ļ										
	Practical skills and problem s	olving	skills.	Team	work,	comm	unicat	tion an	d lead	dershi	skills	i.						
15 .	Distribution of Student Lea	rning	Time	(SLT)				I		1 -	- -	ina ar	nd .					
	Course	Conte	nt Ou	tline				**0	LO	Lea	Teaching and Learning Activities Guided Learning			Guided Learning	Independent Learning	Total SLT		
										L	(F)	2F) _{*P}	*0	(NF2F)*	(NF2F)*			
	Introduction Comparison of proced object-oriented prograi algorithm developmen object oriented design, behaviour, features of models.	mming i, refini identi	parac ng alg fying, a	ligms, orithm attribu	top-dens, fun tes an	own de damer d	esign, ntal of		,2	2					2	4		
	C++ Fundamentals Equations, Standard I/O streams, function prototypes, C++ 2 enhancements to C, default function parameters, inline functions, reference variables, comparison between pointers and references. 1,2									7		4		3	6	20		
	Classes and Objects Creating new data type in C++, class declaration, members, access functions, constant objects, member objects, static members, arrays of class objects									8		6		2	7.5	23.5		

1,2,3	6		6		2	5.5	19.5	
1,2,3	5		4		1	5	15	
1,2,3	6		4		2	5	17	
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1,2,3	3					3	6	
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	Π					7	otal SLT	
			Perc	entag	je %	F2F	ILT	
						2	20	
Total	SLT fo	or Final	l Ass	essm	ent (F2F + NF2F)		22	
and Total				50%		160		
to Face,	NF2F*	= Non F	Face	to Fa	се			
, nursery,	compu	iter lab,	, simu	ulatio	n room):			
+: early ob	jects (9th ed.)	. Add	dison \	Wesley.			
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version (1	0th ed	<i>l.)</i> . Pren	ntice I	Hall.	Wesley.	lioboro		
•	1,2,3 1,2,3 1,2,3 Total to Face,	1,2,3 5 1,2,3 6 1,2,3 3 1,2,3 3 Total SLT for to Face, NF2F*	1,2,3 5 1,2,3 6 1,2,3 3 1,2,3 3 1,2,3 3 Total SLT for Fina to Face, NF2F*= Non	1,2,3 5 4 1,2,3 6 4 1,2,3 3 2 1,2,3 3 2 1,2,3 3 Perconstruction Total SLT for Co Perconstruction Total SLT for Final Assets to Face, NF2F*= Non Face	1,2,3 5 4 1,2,3 6 4 1,2,3 3 2 1,2,3 3 2 1,2,3 3 2 1,2,3 3 9 SUMMATIVE ASSESSMENT Percentage 10% 10% 5% 10% 5% Total SLT for Continu Percentage Total SLT for Final Assessm 50% to Face, NF2F*= Non Face to Face	1,2,3 5 4 1 1,2,3 6 4 2 1,2,3 3 2 2 1,2,3 3 2 2 1,2,3 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1,2,3 5 4 1 5 1,2,3 6 4 2 5 1,2,3 3 2 2 2 1,2,3 3 3 3 3 Total SLT Percentage % 10% 10% 5% 10% 5% 10% 15% Total SLT for Continuous Assessment Percentage % Tepper	

- 3. Malik, D. S. (2017). C++ Programming: from problem analysis to program design (7th ed.). Cengage Learning.