

COURSE OUTLINE

Department & Faculty: Department of Mathematical Sciences, Faculty of Science	Page : 1 of 4
Code and Subject: SSCU 4902 – Final Year Project 1 Total Lecture Hours:	Semester: 1 Academic Session: 2015/16

Lecturer	Room No.	Tel. No	e mail
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Pre-requisites	:	
Synopsis		Students are required to execute a project (research) under an identified supervisor in an agreeable field of mathematics and document their findings. Students will learn to gather information on chosen topics through literature survey/review activities, construct research methodology, anticipate expected results, write current findings, and references. Finally, students are required to submit a research proposal and a draft project/research report comprising of Title, Introduction, Statement of Problem, Research Objectives, Literature Survey/Review, Research Methodology, Expected Findings, Conclusion and References.

Prepared by Name: Signature: Date:	Certified by Name: Signature: Date:
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Learning Outcomes			
By the end of the course, students should be able to:			
No.	Course Learning Outcomes	Programme Learning Outcome(s) Addressed	Assessment Methods
CO1	Acquire skills in solving mathematical problems critically, logically, creatively and analytically based on scientific facts and findings and adapt the said skills to decide on a research problem.	PO1(C2,P2,A1), PO2(C4,P2,A3) PO4(CT1-CT3)	Proposal, Draft Project Report
CO2	Employ intellectual skills, competency and sufficient scientific research approaches and professional ethics to influence the decision on the choice of the research problem successfully.	PO1(C2,P2,A1), PO2(C4,P4,A3) PO9(EM1,EM2)	Proposal, Draft Project Report
CO3	Adopt responsive and adaptive behavior to changing situations with high desire to continuous learning in the acquisition of new knowledge and skills	PO7(LL1,LL2)	Proposal, Draft Project Report
CO4	Demonstrate high intellectual capabilities, able to work independently and effectively in solving problems at hand.	PO1(C2,P2,A1), PO2(C4,P4,A2) PO7(LL1,LL2), PO9(EM1,EM2)	Log book entries, Proposal, Draft Project Report
CO5	Write a proposal defending the chosen research problem by clearly discussing and demonstrating the feasibility of the research project and produce an excellent project or research report.	PO1(C2,P2,A1), PO2(C4,P5,A3) PO5(CS1-CS3), PO9(EM1,EM2)	Proposal, Draft Project Report

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Student Learning Time		
	Teaching and Learning Activities	Student Learning Time
1.	Face-to face Learning	
	a. Lecture-Centered Learning	
	i. Lecture – General briefing	6
	b. Student-Centered Learning	
	i. Discussion with supervisor	14
2.	Self-Directed Learning	
	a. Individual research activities	40
	b. Proposal Preparation – proposal writing	10
	c. Preparations for Assessments – report writing	10
3.	Formal Assessment	
	a. Research Proposal Submission	-
	b. Draft Research Report Submission	-
	Total SLT	80
Teaching Methods		
<ul style="list-style-type: none"> i) Discussion ii) Self-directed learning iii) Individual Research Activities 		
Weekly Schedule		
Week	Activity	Note
Week 1	Meeting and discussion with supervisor for research topic.	The frequency of meeting depends on the supervisor-student agreement.
Week 2	General Briefing (PSM-1): PSM Schedule (Activity), Regulation and Assessment, Format of Proposal, Draft of Project Report and Format of Project Writing.	
Week 3	Discussion with supervisor on content and format of PSM Research Proposal and individual research activities	
Week 4	Discussion with supervisor on progress of proposal and individual research activities	
Week 5	Discussion with supervisor on 1 st draft of proposal and amendments of proposal	
Week 6	Discussion with supervisor on amendments of proposal and individual research activities	
Week 7	Submission of PSM Research Proposal	
Week 8	Subject Withdrawal Week Discussion with supervisor and individual research activities	
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		The meeting should be recorded in the log book.
Week 9	Discussion with supervisor on content and format of Draft Research Report and individual research activities	
Week 10	Discussion with supervisor on progress of draft report and individual research activities	
Week 11	Discussion with supervisor on progress of draft report and individual research activities	
Week 12	Discussion with supervisor on progress of draft report and individual research activities	
Week 13	Discussion with supervisor on progress of draft report and individual research activities	
Week 14	Submission of PSM Research Report & Research Log Book	
Week 15		

References:

Course Module	-
Text	-
Other references	Related books, journals, articles and reviews

Assesment:

No	Type of Assesment	Number	% each	% Total	Date
1	Proposal	1	30	30	Week 7 (18/10/2015)
2	Draft research report	1	70	70	Week 14 (17/12/2015)
Total				100	

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