Module code	SM-4290		
Module Title	Research Project		
Degree/Diploma	Bachelor of Science (Mathematics)		
Type of Module	Major Core		
Modular Credits	8	**Total student Workload**	10 hours/week for 2 semesters
		Contact hours	4 hours/week for 2 semesters
Prerequisite	Completion of all Core Level 1000 and 2000 SM modules		
Anti-requisite	None		

Aims

To introduce students to research methodologies and to integrate the concepts, theories and acquired practical skills when performing an independent research project. It also aims to teach the students about research attitude, research ethics, and data analyses and interpretation where applicable.

Learning Outcomes

On successful completion of this module, a student will be expected to be able to:

Lower order:	10%	- Describe research methodology and research ethics
Middle order:	10%	- Review literature, identify research problem, formulate research framework - Design research proposal, - Plan and prepare for research conduct
Higher order:	80%	- Conduct research including data analysis with the guidance of supervisor - Follow data collection, procedures and protocols safely and efficiently - Interpret and critically appraise study design, research procedure, and findings - Present research findings orally - Write a research project report in journal article format

Module Contents

- Identifying research problem and research topic in the area of major discipline
- Research methodology
- Research proposal writing comprising justification, research goals, theoretical framework, literature review, procedures, expected outcome and proposed time-frame
- Approval or getting permission process (academic, administrative, ethics, and safety)
- Conduct of research including data analysis
- Report writing in the form of academic journal article in the specific major/discipline area

Assessment	Formative assessment	Weekly discussions about progress of project with supervisor(s)
	Summative assessment	Examination: 0%
		Coursework: 100% - 1 research proposal (30%)* - 1 research project report in journal article format (40%)* - ~~1 oral presentation of project report (20%)**~~ - ~~Assessment of student's initiative (10%)***~~ ~~Notes: *by two assessors (other than the supervisor); ** by programme staff ; ***by the supervisor(s)~~ - 1 oral presentation of project report (20%)* - Assessment of student's initiative (10%)** Notes: *by two assessors (other than supervisor); ** by supervisor(s)