

Programme Name	Master of Science in Mathematics
Programme Description	Candidates are equipped with advance knowledge of mathematics and gain the foundation to conduct independent original research. Graduates are expected to apply critical thinking and analytical methods to career paths from either the educational or industrial sector. Postgraduate programmes are designed to impart advanced knowledge and cultivate further self-learning. The program motivates and guides students towards undertaking and executing research projects based on local, regional or international problems.
Majors	Mathematics
Minimum Requirements	The minimum entry requirement for the M.Sc. 2 year programmes is a B.Sc. in Mathematics with a grade point average of at least 3/5 (grade B or above) or equivalent. Those candidates who do not meet the minimum grade point average requirement must have served in relevant areas (teaching, research, industry) for at least TWO years and should demonstrate sufficient knowledge and aptitude to undertake higher studies.
Duration	4 Semesters
Programme Type	Master of Science
College Name	College of Engineering, Science & Technology
Campus	Samabula & Lautoka
Credit Points	240

Programme Structure		
Course Code	Course Title	Credit Points
	Year 1 Semester 1	
MTH801	Research Methods in Mathematics	20
MTH802	Advanced Abstract Algebra	20
MTH807	Advanced Linear Algebra	20
	Year 1 Semester 2	
MTH803	Coding Theory and Cryptography	20
MTH804	Topology	20
MTH8XX	Elective I	20
	Year 2 Semester 1	
MTH904	Algebraic Number Theory	60
MTH903	Functional Analysis	20

MTH906	Fuzzy Algebra	20
MTH9XX	Elective II	20
	Year 2 Semester 2	
MTH902	Research Project in Mathematics	
		60
	Total Credit Points	240
Electives I		
MTH805	Measure Theory	20
MTH806	Advanced Ordinary Differential Equations	20
MTH808	Theory of Manifolds	20
MTH809	Operation Research	20
Electives II		
MTH905	Galois Theory	20
MTH906	Fuzzy Algebra	20
Total Programme Credit Point		240

Course Prerequisite

Course Code	Course Title	Prerequisite
MTH801	Research Methods in Mathematics	Minimum Entry Requirements of the programme
MTH802	Advanced Abstract Algebra	Minimum Entry Requirements of the programme
MTH807	Advanced Linear Algebra	Minimum Entry Requirements of the programme
Year 1 Semester 2		
MTH803	Coding Theory and Cryptography	Minimum Entry Requirements of the programme
MTH804	Topology	Minimum Entry Requirements of the programme
MTH806	Advanced Ordinary Differential Equations	Minimum Entry Requirements of the programme
Year 2 Semester 1		
MTH901	Research Project in Mathematics (Major)	TBA
MTH903	Functional Analysis	Pass in MTH802, MTH804
MTH904	Algebraic Number Theory	Pass in MTH802
MTH906	Fuzzy Algebra	Pass in MTH802
Year 2 Semester 2		
MTH901	Research Project in Mathematics (Major)	TBA
MTH902	Research Project in Mathematics (Mini)	TBA