

SUMMARY OF COURSES OFFERED

PRINCIPAL SUBJECT AREA

MATHEMATICS

100 LEVEL – MATHEMATICS						
Course Number	Course Title	No. of credits	Prerequisites	Compulsory for		
				General Degree		Special Degree
				*	**	
MT101	Vector Methods	2			√	√
MT102	Introduction to Probability Theory	3			√	√
MT103	Differential Equations	2			√	√
MT104	Abstract Algebra I	3		√	√	√
MT105	Real Analysis I	3		√	√	√
MT106	Classical Mechanics I	3	MT 101		√	√
	Total	16				

200 LEVEL – MATHEMATICS						
Course Number	Course Title	No. of Credits	Prerequisites	Compulsory for		
				General Degree		Special Degree
				*	**	
MT 201	Groups, Rings and Fields	3	MT 104	√	√	√
MT 202	Real Analysis II	3	MT 105	√	√	√
MT 203	Ordinary Differential Equations	3	MT 103			
MT 204	Mathematical Methods	3	MT 101		√	√
MT 205	Classical Mechanics II	2	MT 106			
MT 206	Mathematical Modelling	3			√	√
MT 207	Numerical Analysis I	2			√	√
MT 208	Set Theory	1				
MT 209	Graph Theory	2				
	Total	22				

300 LEVEL – MATHEMATICS						
Course Number	Course Title	No. of Credits	Prerequisites	Compulsory for		
				General Degree		Special Degree
				*	**	
MT 301	Linear Algebra	3	MT 201	√	√	√
MT 302	Real Analysis III	3	MT 202	√	√	√
MT 303	Differential Geometry	2				
MT 304	Partial Differential Equations	2	MT 103			
MT 305	Group Theory	3	MT 201			√
MT 306	Topology I	3	MT 105			√
MT 307	Complex Analysis I	2	MT 202			√
MT 308	Combinatorics	2	MT 209			
MT 309	Number Theory	3	MT 201			√
MT 310	Fluid Mechanics I	3	MT 202, MT 204		√	√
MT 311	Linear Programming	3				
MT 312	Numerical Analysis II	3	MT 207		√	√
	Total	32				

* Mathematics as a single subject

** Mathematics as two subjects

400 LEVEL – MATHEMATICS				
Course Number	Course Title	No. of Credits	Prerequisites	Compulsory for Special Degree
MT 401	Galois Theory	3	MT 301,MT 305	√
MT 402	Measure Theory	3	MT 302	√
MT 403	Topology II	3	MT 306	√
MT 404	Complex Analysis II	3	MT 306,MT 307	√
MT 405	Functional Analysis	3	MT 301,MT 306,MT 402	√
MT 406	Fluid Mechanics II	3	MT 310	√
MT 407	Optimization Theory	3	MT 311	√
MT 408	Independent Study /Project Work	3		√
	Total	24		

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