

Degree Plan for B.Ed. in Mathematics

	Minimum No. of Cre	dits for thi	s Degree P	lan = 135	
	University Re	quirement	s = 24 Cre	dits	
Course Code	Course Name	Credit Hours	Contact	Hours	Pre-requisites/
			Theory	Practical	Co-requisites
ARAB100	Arabic Language I	3	3	0	
ARAB101	Arabic Language II	3	3	0	ARAB100
HIST150	Islamic Civilization	3	3	0	7 0 2 0
ENGL150	English Language	3	3	0	
ENGL152	English Language II	3	3	0	ENGL150
ENGL155	Communication Skills	3	3	0	ENGL152
COMP101/L	Computer Skills	3	2	2	COMP-A,COMP-B Digital Literacy
MNGT100	Entrepreneurship: Creativity and Innovation	3	3	0	
		Electives	= 3 Credits		
	College Requ	uirements	= 20 Credi	ts	
MATH116	Pre-Calculus	4	3	2	MATH001
MATH211	Calculus I	4	3	2	MATH116
STAT101	Introduction to Statistics	4	3	2	COMP101/L
COMP151/L	Introduction to Algorithms	4	3	2	COMP101/L
PHYS101/L	General Physics I	4	3	2	MATH116
	College E	lectives =	3 Credits		
	Mathematics R	equiremer	nts = 46 Cr		
MATH212	Calculus II	3	2	2	MATH211
MATURA 5	Ordinary Differential		2	2	144TH040
MATH215	Equations Foundations of	3	2	2	MATH212
MATH221	Mathematics	3			MATH116
MATH228	Mathematics for Teachers I	3	2	2	MATH116
MATH145	Linear Algebra I	3	2	2	MATH116
MATH256	Mathematics for Teachers II	3	2	2	MATH116
MATH259	Calculus III	3	2	2	MATH212
MATH310	Introduction to Group Theory	3	2	2	MATH221
MATH315	Partial Differential Equations	3	2	2	MATH215
MATH323	Foundation of Analysis	1	0	2	MATH221
MATH340	Introduction to Number Theory	3	2	2	MATH221
MATH360	Real Analysis I	3	2	2	MATH221



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MATH365	Linear Algebra II	3	2	2	MATH145	
MATH410	Complex Analysis I	3	2	2	MATH259	
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MATH421	Project in Mathematics	6			Credits	
Education Requirements = 30 Credits						
EDUC103	Educational Psychology	3	3	0		
EDUC113	Foundations of Education	3	3	0		
	Curriculum and	3	3	0		
EDUC200	Instruction				EDUC103	
EDUC202	Technology of Education	3	3	0	COMP101	
EDUC204	Systems of Education and Administration in the GCC	3	3	0		
EDUC301	Methods of Teaching	3	2	2	EDUC200	
	Guidance and School	3	3	0		
EDUC302	Counseling				EDUC103	
EDUC400	Psychological	3	2	2		
	Measurement and					
	Educational Evaluation					
EDUC402	Practical Education	6	0	12	EDUC301	

Mathematics Electives = 9 Credits

• 9 credits of electives must be from the mathematics elective courses.

Mathematics Elective Courses					
Course Code	Course Name	Credit	Contact Hours		Pre-requisites/
		Hours	Theory	Practical	Co-requisites
MATH320	Computer Algebra System	2	1	2	COMP101
MATH350	Rings and Fields	3	3	0	MATH310
MATH354	Numerical Analysis	3	2	2	MATH212,
	•		_		MATH245
MATH355	Graph Theory	3	3	0	MATH221
MATH380	Advanced Calculus	3	3	0	MATH259
MATH401	Introduction to Topology	3	3	0	MATH221
MATH402	Linear Programming	3	3	0	MATH245
MATH405	Introduction to Optimization	3	3	0	MATH245
MATH411	Complex Analysis II	3	3	0	MATH410
MATH440	Measure Theory	3	3	0	MATH360
MATH450	Real Analysis II	3	3	0	MATH360
MATH455	Introduction to Functional Analysis	3	3	0	MATH365
MATH475	History of Mathematics	3	3	0	MATH212
MATH491	Topics in Mathematics I	3	3	0	Instructor's Approval



MATH492	Topics in Mathematics II	3	3	0	Instructor's Approval
MATH493	Topics in Mathematics III	3	3	0	Instructor's Approval
MATH494	Topics in Mathematics IV	3	3	0	Instructor's Approval