



JOY UNIVERSITY
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School of Arts and Natural Sciences

Department of Humanities & Social Sciences

B.Sc, B.Ed Mathematics – I Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1101	Calculus	3	1	0	4	4
2.	BSMA 1102	Algebra	3	1	0	4	4
3.	BSMA 2101	Fundamentals of MATLAB	0	0	2	3	2
4.	BBED 1101	Basic Philosophical and Sociological Concepts in Education	2	1	0	3	3
5.	BBED 1102	Arts in Education- Performing Arts	1	0	1	3	2
6.	BTCs 2101	Computer Programming	0	0	2	3	2
		TOTAL	9	3	5	20	17

B.Sc, B.Ed Mathematics – II Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1111	Real Analysis	3	1	0	4	4
2.	BSMA 1112	Differential Equations	3	0	1	5	4
3.	BBED 1201	Reading and reflecting on texts	1	0	1	3	2
4.	BBED 1202	Understanding Discipline and Subjects	2	0	0	2	2
5.	BBED 1102	Environmental Science	2	0	0	2	2
6.	BAEN 1101	Effective communication	2	0	0	2	2
		TOTAL	13	1	2	18	16

B.Sc, B.Ed Mathematics – III Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1201	Group Theory I	3	1	0	4	4
2.	BSMA 1202	PDE and Systems of ODE	3	0	1	5	4
3.	BSMA 1203	Theory of Real Functions	3	1	0	4	4
4.	BBED 1201	Language across curriculum	2	1	0	3	3
5.	BBED 1202	Childhood and growing up	3	0	1	5	4
6.	BAPH 1141	Professional Ethics	2	1	0	3	3
7.	BSMA 12##	DSE – I	3	1	0	4	4
		TOTAL	19	5	2	28	26

List of DSE's for Semester III:

1. Analytical Geometry
2. Industrial Mathematics
3. Probability and Statistics
4. Boolean Algebra and Automata Theory

B.Sc, B.Ed Mathematics – IV Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1211	Numerical Methods	3	0	1	5	4
2.	BSMA 1212	Reimann Integration and Series of Functions	3	1	0	4	4
3.	BSMA 1213	Ring Theory and Linear Algebra I	3	1	0	4	4
4.	BBED 2201	Contemporary India and Education	3	1	0	4	4
5.	BBED 2202	Understanding the Self	2	1	0	3	3
6.	BBED 2203	School Exposure*	#	#	#	#	2
7.		Generic Elective	2	1	0	3	3
		TOTAL	16	5	1	23	24

* 2 week School Exposure Program

B.Sc, B.Ed Mathematics – V Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1301	Multivariate Calculus	3	1	0	5	4
2.	BSMA 1302	Group Theory II	3	1	0	4	4
3.	BSMA 1303	Metric Spaces and Complex Analysis	3	1	0	4	4
4.	BBED 3101	Community Living Program*	#	#	#	#	2
5.	BBED 3102	Pedagogy of School Subject-I (Mathematics)	3	0	1	5	4
6.	BBED 3103	Knowledge and Curriculum	3	1	0	4	4
7.	BBED 3104	Learning and Teaching	3	1	0	4	4
		TOTAL	18	5	1	26	26

* 1 week Community Living Program

B.Sc, B.Ed Mathematics – VI Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1311	Ring Theory and Linear Algebra – II	3	1	0	4	4
2.	BSMA 13##	DSE – II	3	1	0	4	4
3.	BSMA 13##	DSE – III	3	1	0	4	4
4.	BBED 3201	School Attachment Program*	#	#	#	#	2
5.	BBED 3202	Health, Yoga, and Physical Education	1	0	1	3	2
6.	BBED 3203	Gender, School, and Society	2	1	0	3	3
7.	BBED 3204	Pedagogy of School Subject- II (Mathematics)	3	0	1	5	4
8.		Generic Elective	2	1	0	3	3
		TOTAL	19	6	2	26	26

* 1 week School Attachment Program

List of DSE's for Semester VI:

1. Theory of Equations
2. Bio-Mathematics
3. Mathematical Modeling
4. Mechanics

B.Sc., B.Ed. Mathematics – VII Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BBED 4101	Creating an Inclusive Schools	2	1	0	3	3
2.	BBED 4102	Assessment and Learning	3	1	0	4	4
3.	BBED ####	Elective I (Education)	3	1	0	4	4
4.	BBED 4104	School Internship- I*	#	#	#	#	4
		TOTAL	8	3	0	11	15

* 8 week School Internship program

B.Sc., B.Ed. Mathematics – VIII Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.		Education of the Marginalized Groups	4	0	0	4	4
2.	BBED ####	Elective II (Education)	3	1	0	4	4
3.	BBED 4202	Project	#	#	#	#	6
4.	BBED 4203	School Internship- II*	#	#	#	#	6
		TOTAL	7	1	0	8	20

* 10 week School Internship Program

List of Electives

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BBED 4111	Peace Education	4	0	0	4	4
2.	BBED 4112	Life Skills Education	4	0	0	4	4
3.	BBED 4113	Guidance and Counseling	4	0	0	4	4
4.	BBED 4114	Value Education	4	0	0	4	4
5.	BBED 4211	Health and Physical Education	4	0	0	4	4
6.	BBED 4212	Adult and Population Education	4	0	0	4	4

Semester-wise Credit Load

Semester	L	T	P	Credits
I	9	3	5	17
II	13	1	2	16
III	19	5	2	26
IV	16	5	1	24
V	18	5	1	26
VI	19	6	2	26
VII	8	3	0	15
VIII	7	1	0	20
Total	109	29	13	170