

Department of Mathematical Sciences

Course Structure and Syllabus of Integrated B.Sc.B.Ed. Major in Mathematics
(for 2018 entry batch onwards)

Minimum credit requirement : 180
Minimum duration : 4 years (8 semesters)
Maximum duration : 6 years (12 semesters)

COURSE STRUCTURE

Semester I

Course Code	Course Name	L-T-P	CH	CR	Remark
PD 101	Physics-I	2-1-0	3	3	GE
CD 101	Chemistry-I	3-0-0	3	3	GE
CD 107	Chemistry-Lab	0-0-3	6	3	GE
ED 105	Basics in Computer Applications	2-0-1	4	3	CORE
ED 106	Education: An Evolutionary Perspective	2-0-1	4	3	CORE
*MD 101	Mathematics -I	2-1-0	3	3	GE
MD 103	Foundation of Mathematics	2-1-0	3	3	CORE
MD 105	Real Analysis-I	2-1-0	3	3	CORE
ED 104	Communicative English	3-0-0	3	3	AEC
Total credits				24	

* MD 101(Mathematics –I) is only for students not having Mathematics Major

Semester II

Course Code	Course Name	L-T-P	CH	CR	Remark
PD 102	Physics-II	2-1-0	3	3	GE
PD 197	Physics-Lab	0-0-3	6	3	GE
CD 102	Chemistry-II	3-0-0	3	3	GE
ED 107	Education and Development	2-0-1	3	3	CORE
*MD 102	Mathematics -II	2-1-0	3	3	GE
MD 104	Real Analysis-II	2-1-0	3	3	CORE
MD 106	Group Theory	2-1-0	3	3	CORE
NS 102	National Service Scheme	0-0-2	4	2	SEC
ES 103	Environmental Studies	4-0-0	4	4	AEC
Total credits				24	

* MD 102(Mathematics –II) is only for students not having Mathematics Major

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Semester III

Course Code	Course Name	L-T-P	CH	CR	Remark
MD 221	Introductory Statistics & Probability	2-1-0	3	3	CORE
MD 223	Calculus-I	3-1-0	4	4	CORE
*MD 219	Mathematics III	2-1-0	3	3	GE
PD 211	Physics-III	2-1-0	3	3	GE
CD 201	Chemistry-III	3-0-0	3	3	GE
ED 201	Environmental Education	2-0-1	4	3	CORE
ED 202	Learner and Learning	2-0-1	4	3	CORE
DM 101	Disaster Management	3-0-0	3	3	SEC
Total credits				22	

*MD 219(Mathematics-III) is only for students not having Mathematics Major

Semester IV

Course Code	Course Name	L-T-P	CH	CR	Remark
MD 218	Introductory ODE & PDE	3-1-0	4	4	CORE
MD 220	Linear Algebra-I	3-1-0	4	4	CORE
MD 222	Co-ordinate Geometry	3-1-0	4	4	CORE
MD 224	Numerical Methods and Boolean Algebra	3-1-0	4	4	CORE
ED 203	Contemporary Issues in Education	2-0-1	4	3	CORE
ED 204	Assessment and Evaluation	2-0-1	4	3	CORE
Total credits				22	

Semester V

Course Code	Course Name	L-T-P	CH	CR	Remark
MD 311	Calculus-II	3-1-0	4	4	CORE
MD 313	Programming Algorithm and Mathematical Software	2-0-2	6	4	CORE
MD 315	Statics and Dynamics	3-1-0	4	4	CORE
MD 317	Elementary Complex Analysis	3-1-0	4	4	CORE
ED 301	Teaching Approaches and Strategies	2-0-1	4	3	CORE
ED 302	Classroom Organization and Management	2-0-1	4	3	CORE
Total credits				22	

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Semester VI

Course Code	Course Name	L-T-P	CH	CR	Remark
MD 318	Introductory Topology	3-1-0	4	4	CORE
MD 314	Elementary Number Theory	3-1-0	4	4	CORE
MD 316	Introduction to Optimization	3-1-0	4	4	CORE
MD 322	Seminar	0-0-3	3	3	CORE
ED 308	Pedagogy A: Physical Science-I	2-0-1	4	3	CORE
ED 307/ ED 309	Pedagogy B: Mathematics I/ Pedagogy B: Biological Science I	2-0-1	4	3	CORE
ED 303	School Education in North East India	2-0-0	2	2	CORE
Total credits				23	

Semester VII

Course Code	Course Name	L-T-P	CH	CR	Remark
MD 425	Combinatorics	3-1-0	4	4	CORE
MD 414	Computer Programming+	3-1-0	4	4	CORE
MD 421	Computer Lab	0-0-2	4	2	CORE
ED 408	Pedagogy A: Physical Science-II	2-0-1	4	3	CORE
ED 407/409	Pedagogy B: Mathematics II/ Pedagogy B: Biological Science II	2-0-1	4	3	CORE
ED 404	Initial School Experience/ School Internship-I	0-0-4	8	4	CORE
	Open Elective I [#]	2-1-0	3	3	Open Elective
Total credits				23	

+ Course for which there is a separate practical unit assigned as Computer Laboratory

List to be notified by CoE from time to time

Semester VIII

Course Code	Course Name	L-T-P	CH	CR	Remark
MD 422	Elementary Coding and Information Theory	3-1-0	4	4	CORE
ED 405	School Internship	0-0-16	32	16	CORE
Total credits				20	

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