

HINDI MAHAVIDYALAYA (AUTONOMOUS & NAAC RE-ACCREDITED)
 (Affiliated to Osmania University) Nallakunta, Hyderabad-44
B.SC. MATHEMATICS (MPC / MPCS / MSCS) Academic Year 2022 – 23
Choice Based Credit System (CBCS)

Code	Course Title	Course Type	HPW	Credits	Continuous Evaluation System						Total Marks
					Internal Marks	Assignment Marks	Seminar Marks	Total Internal Marks	End Semester Marks	Practical Marks	
BS 104	MATHEMATICS – I Differential & Integral Calculus	DSC - IA	5 + 1 *	5	20	5	5	30	70	---	100
BS 204	MATHEMATICS – II Differential Equations	DSC - IB	5 + 1 *	5	20	5	5	30	70	---	100
BS 302	A) Theory of Equations OR B) Logic and Sets	SEC - II	2	2	15	---	---	15	35	---	50
BS 304	MATHEMATICS – III Real Analysis	DSC - IC	5 + 1 *	5	20	5	5	30	70	---	100
BS 402	A) Number Theory OR B) Vector Calculus	SEC - IV	2	2	15	---	---	15	35	---	50
BS 404	MATHEMATICS – IV Algebra	DSC - ID	5 + 1 *	5	20	5	5	30	70	---	100
BS 501	A) Basic Mathematics (OR) B) Mathematics For Economics & Finance	GE	4	4	20	5	5	30	70	---	100
BS 504	MATHEMATICS – V A) Linear Algebra OR B) Complex Analysis	DSE - 1E	5 + 1*	5	20	5	5	30	70	---	100
BS 601 **	A) Mathematical Modelling (OR) B) Mathematics Project.	Project/ Optional	4	4	20	5	5	30	70	---	100
BS 604	MATHEMATICS – VI A) Numerical Analysis OR B) Integral Transforms OR C) Analytical Solid Geometry	DSE – 1F	5 + 1*	5	20	5	5	30	70	---	100

*Tutorials: Problems solving session for each 20 student's one batch.

**The students are required to opt either the optional paper Mathematical Modeling or Project.

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SEMESTER I

S.No.	Code	Paper	Course Title	HPW	Credits	Continuous Evaluation System				Total Marks
						Internal Marks	Assignment Marks	Total Internal Marks	End Semester Marks	
1	MM 101	I	Abstract Algebra	5 + 1 *	5	20	5	20	80	100
2	MM 102	II	Mathematical Analysis	5 + 1 *	5	20	5	20	80	100
3	MM 103	III	Ordinary and Partial Differential Equations	5 + 1 *	5	20	5	20	80	100
4	MM 104	IV	Elementary Number Theory	5 + 1 *	5	20	5	20	80	100
5	MM 105	V	Discrete Mathematics	4 + 1 *	4	20	5	20	80	100
6			Seminar	2	2				25	25

SEMESTER II

S.No.	Code	Paper	Course Title	HPW	Credits	Continuous Evaluation System				Total Marks
						Internal Marks	Assignment Marks	Total Internal Marks	End Semester Marks	
1	MM 201	I	Galois Theory	5 + 1 *	5	20	5	20	80	100
2	MM 202	II	Lebesgue measure & Integration	5 + 1 *	5	20	5	20	80	100
3	MM 203	III	Complex Analysis	5 + 1 *	5	20	5	20	80	100
4	MM 204	IV	Topology	5 + 1 *	5	20	5	20	80	100
5	MM 205	V	Theory of Ordinary Differential Equations	4 + 1 *	4	20	5	20	80	100
6			Seminar	2	2				25	25

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SEMESTER III

S.No.	Code	Paper	Course Title	HPW	Credits	Continuous Evaluation System				Total Marks
						Internal Marks	Assignment Marks	Total Internal Marks	End Semester Marks	
1		I	Functional Analysis	5 + 1 *	5	20	5	20	80	100
2	MM 301	II	General Measure & Integration	5 + 1 *	5	20	5	20	80	100
3	MM 302	III	Linear Algebra	5 + 1 *	5	20	5	20	80	100
4	MM 303 A	IV	Operations Research	5 + 1 *	5	20	5	20	80	100
	MM 304 B		Mathematical Statistics							
	MM 304 C		Advanced Complex Analysis							
5	MM 304 C	V	Mechanics	4 + 1 *	4	20	5	20	80	100
	MM 305 A		Numerical Analysis							
	MM 305 B		Differential Geometry							
6	MM 305 C		Seminar	2	2				25	25

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SEMESTER IV

S.No.	Code	Paper	Course Title	HPW	Credits	Continuous Evaluation System				Total Marks
						Internal Marks	Assignment Marks	Total Internal Marks	End Semester Marks	
1	MM 401	I	Integral Equations & Calculus of Variations	5 + 1 *	5	20	5	20	80	100
2	MM 402	II	Elementary Operator Theory	5 + 1 *	5	20	5	20	80	100
3	MM 403	III	Analytic Number Theory	5 + 1 *	5	20	5	20	80	100
4	MM 404 A	IV	Integral Transforms	5 + 1 *	5	20	5	20	80	100
	MM 404 B		Graph Theory							
	MM 403 C		Cryptography							
5	MM 405 A	V	Fluid Mechanics	4 + 1 *	4	20	5	20	80	100
	MM 405 B		Advanced Operations Research							
	MM 405 C		Finite Difference Methods							
6	MM 40		Seminar	2	2				25	25

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