

Jaypee University, Anoopshahr

**Bachelor of Science (BSc) (H) Maths
Course Curriculum**

(Applicable to batches admitted in 2022 and 2023)



Faculty of Mathematical and Physical Sciences

Curriculum for B. Sc. (Honours) Mathematics

First Semester

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	Mathematics	17H11MA111	Numerical Methods	4	3	1	0	4	Core
2	Physics	17H11PH111	Mathematical Physics I	4	3	1	0	4	GE
3	CSE	17H11CI111	Programming Fundamentals	4	3	1	0	4	GE
4	ECE	17H11EC111	Basic Electronics	4	3	1	0	4	GE
5	HSS	17H11HS111	English Enhancement I	4	3	1	0	4	AECC
6	CSE/IT	17H17CI171	Lab I (Computer Programming)	2	0	0	4	4	SEC
Total Credit				22	15	5	4	24	

Second Semester

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	Mathematics	17H11MA211	Calculus	4	3	1	0	4	Core
2	Mathematics	17H11MA212	Algebra	4	3	1	0	4	Core
3	Mathematics	17H11MA213	Real Analysis	4	3	1	0	4	Core
4	Physics	17H11PH211	Mathematical Physics II	4	3	1	0	4	GE
5	HSS	17H11HS211	English Enhancement II	4	3	1	0	4	AECC
6	Mathematics	17H17MA271	Lab II (Calculus)	2	0	0	4	4	SEC
Total Credit				22	15	5	4	24	

Third Semester

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	Mathematics	17H11MA311	Theory of Real Functions	4	3	1	0	4	Core
2	Mathematics	17H11MA312	Differential Equations	4	3	1	0	4	Core
3	Mathematics	17H11MA313	Probability and Statistics	4	3	1	0	4	DSE I
4	Physics	17H11PH311	Mechanics	4	3	1	0	4	GE
5	Physics	17H11GE311	Environmental Sciences	4	3	1	0	4	AECC
6	Mathematics	17H17MA371	Lab III (Differential Equations)	2	0	0	4	4	SEC
7	Mathematics	17H19MA391	Term Paper	2	0	0	4	4	SEC
			Total Credit	24	15	5	8	28	

Fourth Semester

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	Mathematics	17H11MA411	Multivariate Calculus	4	3	1	0	4	Core
2	Mathematics	17H11MA412	Group Theory - I	4	3	1	0	4	Core
3	Mathematics	17H11MA413	Discrete Mathematics	4	3	1	0	4	DSE II
4	Physics	17H11PH411	Electromagnetic Theory	4	3	1	0	4	GE
5	ECE	17H11EC412	Digital Electronics	4	3	1	0	4	GE
6	Mathematics	17H17MA471	Lab IV (Discrete Mathematics)	2	0	0	4	4	SEC
7	Mathematics	17H19MA491	Seminar	2	0	0	4	4	SEC
			Total Credit	24	15	5	8	28	

Fifth Semester

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	Mathematics	17H11MA511	Ring Theory and Linear Algebra - I	4	3	1	0	4	Core
2	Mathematics	17H11MA512	Riemann Integration and Series of Functions	4	3	1	0	4	Core
3	Mathematics	17H11MA513	Partial Differential Equations and System of Ordinary Differential Equations	4	3	1	0	4	Core
4	Mathematics	17H11MA514	Graph Theory	4	3	1	0	4	DSE III
5	Mathematics	17H11MA515	Number Theory	4	3	1	0	4	DSE IV
6	Mathematics	17H17MA571	Lab V (Partial Differential Equation)	2	0	0	4	4	SEC
7	Mathematics	17H19MA591	Project-I	4	0	0	8	8	SEC
Total Credit				26	15	5	12	32	

Sixth Semester

S. No.	Department	Subject code	Subject Name	Credits	L	T	P	Hrs	Type
1	Mathematics	17H11MA611	Ring Theory and Linear Algebra - II	4	3	1	0	4	Core
2	Mathematics	17H11MA612	Group Theory -II	4	3	1	0	4	Core
3	Mathematics	17H11MA613	Metric Spaces and Complex Analysis	4	3	1	0	4	Core
4	Mathematics	17H11MA614	Industrial Mathematics	4	3	1	0	4	DSE V
5	Mathematics	17H11MA615	Linear Programming	4	3	1	0	4	DSE VI
6	Mathematics	17H17MA671	Lab VI (Linear Algebra)	2	0	0	4	4	SEC
7	Mathematics	17H19MA691	Project-II	4	0	0	8	8	SEC
Total Credits				26	15	5	12	32	
Total Credits for Program				144	90	30	24	168	

