

B.Sc. Mathematics (3 years) {Session: 2024-2028}

Semester-Wise Programme structure

Sr. No.	Year 1		Year 2		Year 3	
	Sem 1	Sem 2	Sem 3	Sem 4	Sem 5	Sem 6
1	Calculus (Course Code) [CU:4, L-4_, P-0_] {MCC}	Muti-variable Calculus (Course Code) [CU:4_, L-4_, P-0_] {MCC}	Introduction to Real Analysis (Course Code) [CU:_4, L-4_, P-0_] {MCC}	Introduction to Linear Algebra (Course Code) [CU:4_, L-4_, P-0_] {MCC}	Set Theory and Metric Spaces (Course Code) [CU:_4, L-4_, P-0_] {MCC}	Introduction to Complex Analysis (Course Code) [CU:4_, L-4_, P-0_] {MCC}
2	Algebra and Geometry (Course Code) [CU: 4, L-_0, P-_0] {MCC}	Ordinary Differential Equations (Course Code) [CU:_4, L-4_, P-_0] {MCC}	Group Theory (Course Code) [CU:_4, L-4_, P-0_] {MCC}	Introduction to Partial Differential Equations (Course Code) [CU:4_, L-4_, P-0_] {MCC}	Advanced Algebra (Course Code) [CU:4_, L-_4, P-0_] {MCC}	Discrete Mathematics (Course Code) [CU:_4, L-4_, P-0_] {MCC}
3	Introduction to Probability Theory (Course Code) [CU:4_, L-4_, P-_0] {MC}	Statistical Methods (Course Code) [CU:_4, L-4_, P-0_] {MC}	Statistical Inference (Course Code) [CU:4_, L-_4, P-_0] {MC}	Linear Programming (Course Code) [CU:_4, L-4_, P-0_] {MCC}	Mathematical Logic (Course Code) [CU:_4, L-4_, P-0_] {MCC}	Tensors and Differential Geometry (Course Code) [CU:_4, L-4_, P-_0] {MCC}
4	Fundamental Of Physics (Course Code) [CU:_3, L-3_, P-0_] {MDC}	Object Oriented Programming Software (Course Code) [CU:_4, L-2_, P-2_] {MDC}	Java Programming (Course Code) [CU:4_, L-2_, P-_2] {MDC}	Mechanics (Course Code) [CU:_4, L-4_, P-0_] {MC}	Laplace and Fourier Transform (Course Code) [CU:4_, L-_4, P-0_] {MCC}	Evolutionary Algorithms for Optimization Problems (Course Code) [CU:_4, L-4_, P-0_] {MCC}
5	Punjabi Language and Literature -I/ History & Culture of Punjab-I (Course Code) [CU: 1, L-_1, P-0_] {AEC}	Punjabi Language and Literature -I/ History & Culture of Punjab-II (Course Code) [CU:1_, L-_1, P-0_] {AEC}	Fundamental of Communication(Course Code) [CU:_2, L-_2, P-0_] {AEC}	Professional Etiquette and Work place Communication (Course Code) [CU:_2, L-_2, P-0_] {AEC}	Graph Theory (Course Code) [CU:4_, L-4_, P-0_] {MC}	Introduction to Numerical analysis (Course Code) [CU:_6, L-4_, P-_2] {MC}
6	Introduction to French Culture and Language/German Culture and Language (Course Code) [CU: 1, L-1_, P-0_] {AEC}	French Grammar/German Grammar (Course Code) [CU: 1, L-1_, P-0_] {AEC}	Mathematical Statistics with R (Course Code) [CU:_4, L-_1, P-3_] {SEC}	C++ Programming for Mathematics (Course Code) [CU:_4, L-4_, P-0_] {SEC}	Logic and Sets (Course Code) [CU:2_, L-2_, P-_0] {MC}	
7	Programming based on Mathematical Softwares (Course Code) [CU: 3, L-1_, P-2_] {SEC}	Introduction to LaTeX(Course Code) [CU: 3, L-1_, P-2_] {SEC}				

8	Environmental Studies 1 (Course Code) [CU:2, L-_2, P-0_] {VAC}	Environmental Studies 2 (Course Code) [CU:2, L-_2, P-0_] {VAC}				
9	Understanding Self for Effectiveness (Behavioral Science) (Course Code) [CU:_1, L-1_, P-0_] {VAC}	Individual, Society and Nation (Behavioral Science) (Course Code) [CU:_1, L-1_, P-0_] {VAC}	-	-	*Summer Internship (4 Cr)	-
Cr.	23	24	22	22	22+4	22
Total Credit: Credit Layout as per Curriculum and Credit Framework Guidelines - UGC 2022					139	

MC	Major Core Course (Discipline Specific Course)
MC	Minor Course
MD	Multidisciplinary Course
AEC	Ability Enhancement Course

SEC	Skill Enhancement Course
VAC	Value Added Course
CCH	Core Course - Hons.
DSE	Discipline Specific Elective
MOOC	Massive Open Online Course

Note:	<i>(4 Cr of Summer Internship earned by students during summer Internship after Second Semester or Fourth Semester, will be taken into account in Fifth Semester of a student who pursue three year UG Programme without taking exit option).</i>
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