B.Sc.(H) Mathematics Paper under Choice Based Credit System (CBCS):

Semester	Papers	
	AECC-1	AECC-1: Environmental Science
_	Core Paper -1	Calculus (Including Practicals)
Semester I	Core Paper- 2	Algebra
ı E	*Generic Elective -1	Chemistry Department : Atomic Structure, Bonding, General
Se		Org Chemistry & Aliphatic Hydrocarbons + Lab
		Physics Department: Electricity and Magnetism + Lab
	AECC-2	English / Hindi/ Sanskrit Communications
_	Core Paper-3	Real Analysis
Semester II	Core Paper-4	Differential Equations (Including Practicals)
est	*Generic Elective-2	Chemistry Department : Chemical Energetics, Equilibria &
Ĕ		Functional Group Organic Chemistry-I + Lab
Š		Physics Department: Mechanics + Lab
	Core Paper 5	Theory of Real functions
	Core Paper 6	Group Theory-I
	Core Paper 7	Multivariate Calculus (Including Practicals)
≡	SEC-1	LaTeX and HTML
<u>.</u>	*Generic Elective -3	Chemistry Department : Solutions, Phase Equilibrium,
est		Conductance, Electrochemistry & Functional Group Organic
Semester III		Chemistry-II + Lab
S		Physics Department: Waves and Optics+ Lab
	Core Paper 8	Partial Differential Equations (Including Practicals)
	Core Paper 9	Riemann Integration & Series of functions
>	Core Paper 10	Ring Theory & Linear Algebra-I
Semester IV	SEC-2	Computer Algebra Systems and Related Softwares
est	*Generic Elective -4	Chemistry Department : Chemistry of s- and p-block elements,
L E		States of matter and Chemical Kinetics + Lab
Š		Physics Department: Thermal Physics + Lab
<u>.</u>	Core Paper 11	Metric Spaces
est	Core Paper 12	Group Theory-II
Semester V	DSE-1	C++ Programming
νς >	DSE-2	Cryptography and Network Security
5	Core Paper 13	Complex Analysis (Including Practicals)
er	Core Paper 14	Ring Theory and Linear Algebra-II
est	DSE-3	Probability theory & Statistics
Semester VI	DSE-4	Linear Programming and Theory of Games

AECC- Ability Enhancement Compulsory Course, **GE**- Generic Elective (Interdisciplinary) , **DSE**-Discipline Specific Elective, **SEC**- Skill Enhancement Course.

^{* -} Student may opt only one paper as **Generic Elective** papers out of two options, Students from arts background may opt Generic Elective papers from BA(H) Generic papers.

GE-1

Sr.	Department	Student may opt only one Generic Elective (Interdisciplinary Paper) from
No		the following
1	Commerce	Insurance & Risk Management
2	Economics	Introductory Microeconomics
3	English	Contemporary India: Women and Empowerment
4	Hindi	हिंदी सिनेमा और उसका अध्ययन
5	History	Delhi Through Ages OR History of Science and Technology
6	Mathematics	Calculus
7	Political	
8	Sanskrit	Basic Sanskrit

GE-2

Sr.	Department	Student may opt only one Generic Elective (Interdisciplinary Paper) from
No		the following
1	Commerce	Investing in Stock Markets
2	Economics	Introductory Macroeconomics
3	English	Language, Literature and Culture
4	Hindi	रचनात्मक लेखन
5	History	Cultural Diversity in India OR Issues in the Contemporary World: 1945-2000
6	Mathematics	Linear Algebra
7	Political	
8	Sanskrit	Indian Culture and Social Issues

GE-3

Sr.	Department	Student may opt only one Generic Elective (Interdisciplinary Paper) from
No		the following
1	Commerce	Project Management
2	Economics	Indian Economy-I
3	English	Academic Writing
4	Hindi	भाषा और समाज
5	History	The Making of Contemporary India OR Perspectives on Environmental
		History
6	Mathematics	Differential Equations
7	Political	
8	Sanskrit	Sanskrit and Other Modern Indian Languages

GE-4

Sr.	Department	Student may opt only one Generic Elective (Interdisciplinary Paper) from
No		the following
1	Commerce	Economics of Regulation of Domestic & Foreign Exchange Markets
2	Economics	Indian Economy-II
3	English	Media & Communication

4	Hindi	हिंदी का वैश्विक परिदृश्य
5	History	Inequality and Differences OR Religion and Religiosity
6	Mathematics	Numerical Methods
7	Political	
8	Sanskrit	Basic Principles of Indian Medicine System (Ayurveda)