

B Sc MATHEMATICS
(3-Year Regular Programme)
(For those who joined since 2021 - 22)

PSO 1: Connect Mathematics to real life problems in their lives.

PSO 2: Investigate and apply Mathematical problems and solutions to a variety of contexts related to science.

PSO 3: Prepare for a career in which critical thinking is a central feature.

Sem	Part	Subject code	Course	Subject Title	Hrs/ Wk	Credits	Marks		
							CIA	ESE	Total
I	I	HBLT11/ HBLA11/ HBLIA11/ HBLH11	Language I	Tamil - I / Arabic - I : Basic Arabic - I / Intermediate Arabic – I / Hindi - I	6	6	40	60	100
	II	HBLG12/ HBLF12	Language II	English – I : General / Functional	6	6	40	60	100
	III	HBMXC11	Core I	Calculus	5	4	40	60	100
		HBMXC12	Core II	Theory of Equations	5	4	40	60	100
		HBMXA13	First Allied I	Statistics - I	6	5	40	60	100
	IV	HBMXE14	Skill Based Elective I	Trigonometry	2	2		50	50
				Total	30	27	200	350	550
II	I	HBLT21/ HBLA21/ HBLIA21/ HBLH21	Language I	Tamil - II / Arabic – II : Basic Arabic – II / Intermediate Arabic - II / Hindi-II	6	6	40	60	100
	II	HBLG22/ HBLF22	Language II	English – II : General / Functional	6	6	40	60	100
	III	HBMXC21	Core III	Analytical Geometry - 3D & Vector Calculus	4	3	40	60	100
		HBMXC22	Core IV	Graph Theory - I	4	3	40	60	100
		HBMXA23	First Allied II	Statistics - II	6	5	40	60	100

	IV	HBMXE24	Skill Based Elective II	Fourier series	2	2		50	50
	IV	HBES2	General Interest Course I	Environmental Studies	2	2		50	50
		HBMXX2/ HBMXX20	Extra Credit	Arithmetic for Competitive Examinations / *Online Certification		2		100	100
				Total	30	27+2	200	400+100	600+100
III	III	HBMXC31	Core V	Differential Equations	6	4	40	60	100
		HBMXC32	Core VI	Graph Theory – II	6	4	40	60	100
		HBMXA33	Second Allied I	Programming in “C”	6	5	T-20 P-20	60	100
	IV	HBNM3M X	Non Major Elective I		4	2		50	50
		HBMXE34	Skill Based Elective III	Applied Statistics	3	2		50	50
		HBHR3	General Interest Course II	Human Rights	3	2		50	50
	V	HBXTN3	Extension	NSS/CSS	2	2	100		100
		HBMXX3/ HBMXX30	Extra Credit	Logical Reasoning / * Online Certification		2		100	100
				Total	30	21+2	220	330+100	550+100
IV	III	HBMXC41	Core VII	Abstract Algebra - I	5	4	40	60	100
		HBMXC42	Core VIII	Real Analysis - I	5	4	40	60	100
		HBMXC43	Core IX	Statics	5	4	40	60	100
		HBMXA44	Second Allied II	Object Oriented Programming with C++	6	5	T-20 P-20	60	100
	IV	HBVE4	General Interest Course III	Values and Ethics	2	2		50	50
		HBNM4M X	Non Major Elective II		4	2		50	50

		HBMXE45	Skill Based Elective IV	Verbal Reasoning	3	2		50	50
		HBMXX4/ HBMXX40	Extra Credit	Applications of Group Theory / *Online Certification		2		100	100
				Total	30	23+2	160	390+100	550+100
V	III	HBMXC51	Core X	Abstract Algebra - II	4	3	40	60	100
		HBMXC52	Core XI	Dynamics	5	4	40	60	100
		HBMXC53	Core XII	Astronomy	4	3	40	60	100
		HBMXE5A	Core Elective I	Fourier and Laplace Transforms	5	5	40	60	100
		HBMXE5B		Combinatorics					
		HBMXE5C	Core Elective II	Fluid Dynamics	5	5	40	60	100
		HBMXE5D		Operations Research					
	IV	HBMXE54	Skill Based Elective V	Non-Verbal Reasoning	3	2		50	50
		HBWS5	General Interest Course IV	Women Studies	3	2		50	50
				Library	1				
		HBMXX5/ HBMXX50	Extra Credit	Quantitative Techniques / *Online Certification		2		100	100
				Total	30	24+2	200	400+100	600+100
VI	III	HBMXC61	Core XIII	Real Analysis - II	5	4	40	60	100
		HBMXC62	Core XIV	Number theory	5	4	40	60	100
		HBMXC63	Core XV	Numerical Analysis	5	4	40	60	100
		HBMXC64	Core XVI	Complex analysis	5	4	40	60	100
		HBMXE6A/ HBMXE6B	Core Elective III	Discrete Mathematics / Mathematical Modeling	5	5	40	60	100
		HBMXE65	Skill Based Elective VI	Quantitative Aptitude	3	2		50	50

			Library		2				
		HBSED6	Extra Credit	Skills for Employability Development		2	100		100
				Total	30	23+2	200+100	350	550+100
				Grand Total	180	145 + 10	1180 + 100	2220 + 400	3400 + 500

Core Courses for other UG Programme

Sem	Part	Subject code	Course	Subject Title	Hrs/Wk	Credit	CIA Marks	ESE Marks	Total Marks
III	III	HBITC31	Core V	Mathematics for Computer Science-I	5	4	40	60	100
IV	III	HBITC41	Core VIII	Mathematics for Computer Science-II	6	4	40	60	100

Allied Courses for other UG Programme

Sem	Part	Subject code	Course	Subject Title	Hrs/Wk	Credit	CIA Marks	ESE Marks	Total Marks
III	III	HBCSA33	Second Allied I	Mathematical Foundation for Computer science	6	5	40	60	100
IV	III	HBCSA44	Second Allied II	Operations Research	6	5	40	60	100

Allied Courses for other UG Programme

Sem	Part	Subject code	Course	Subject Title	Hrs/Wk	Credit	CIA Marks	ESE Marks	Total Marks
I	III	HBCPA14	First Allied II	Numerical Methods	4	3	40	60	100
II	III	HBCYA13	Second Allied I	Discrete Mathematics	6	5	40	60	100
III	III	HBCYA23	Second Allied II	Basic Statistics	6	5	40	60	100

Allied Courses for other UG Programme

Sem	Part	Subject code	Course	Subject Title	Hrs/Wk	Credit	CIA Marks	ESE Marks	Total Marks
I	III	HBCA13	Allied I	Ancillary Mathematics - I	6	5	40	60	100

II	III	HBCHA23	Allied II	Ancillary Mathematics - II	6	5	40	60	100
III	III	HBSYA33	Allied III	Psychological Statistics	5	5	40	60	100

Non Major Elective for Students Other than B Sc Mathematics Programme

Sem	Part	Subject code	Course	Subject Title	Hrs/ Wk	Credit	CIA Marks	ESE Marks	Total Marks
III	IV	HBNM3MX	Non Major Elective I	Quantitative Aptitude for Competitive Examinations-I	4	2	-	50	50
IV	V	HBNM4MX	Non Major Elective II	Quantitative Aptitude for Competitive Examinations-II	4	2	-	50	50