

Scheme of BSc (H) Mathematics 2021-24

Sem	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Comm. services	GP	Cont. hrs.	Credits		
I	CLL 101 Effective Communication-I 2.5(2-0-1)	MAL 101N Fundamentals of Mathematics 4(3-1-0)	PYL 102N Fundamentals of Physics 4(3-0-2)	MAL109 Introduction to Statistics 4(4-0-0)	CHL100 Environmental Studies 3(3-0-0)	CHL111 Fundamentals of Chemistry 4(3-0-2)		MAS 100 (70 hrs)	MAR 100 (1)	24	22.5		
II	CLL 102 Effective Communication-II 2.5(2-0-1)	MAL315 Number Theory 4(3-1-0)		MAL209 Data Analysis 4(3-0-2)	MAL 106N Basics of Computer Programming 4(3-0-2)	BSL101 Entrepreneurship 3(2-0-2)	CLL 120 HVPE 2(2-0-0)	MAS 100 (70 hrs) (2 Crdt)	MAR 110 (1)	25	22.5		
III	MAL 102 Analysis I 4(3-1-0)	MAL 313 Integral & Vector Calculus 4(3-1-0)	PE 1 MAL105N Group Theory 4(3-1-0)	PE 2 MAL303 Linear Programming & applications 4(3-1-0)	Open Elective I 3(3-0-0)	MAL 304N Probability and Statistics 4(3-1-0)		MAS 200 (35 hrs)	MAR 200 (1)	23	24		
IV	MAL 104 Differential Equations I 4(3-1-0)	PE 3 MAL307 Discrete Mathematics 4 (3-1-0)	PE 4 MAL205N Higher Algebra 4 (3-1-0)	PE 5 MAL317 Mathematical Modeling 4(3-1-0)	Open Elective II 3(3-0-0)	Foreign Language 3(1-2-0)		MAS 200 (35 hrs) (1 Crdt)	MAR 210 (1)	22	24		
	MAI 240 Summer Internship 3(0-0-6) (including 70 hrs of community services)												
V	MAL 208 Linear Algebra 4(3-1-0)	MAL 206 Mathematical Statistics 3(2-0-2)	PE 6 MAL203 Differential Equations II 4(3-1-0)	PE 7 MAL321 Mathematical Methods 4 (3-0-2)	Open Elective III 3(3-0-0)	MAD 350 Project 4(0-0-8)		MAS 300 (70 hrs)	MAR 300 (1)	20	23		
VI	MAL 310 Numerical Analysis 3(2-0-2)	MAL 320 Creativity and innovation outcome (1)	PE 8 MAL311 Intro to complex Analysis 4(3-1-0)	PE 9 MAL201 Analysis II 4 (3-1-0)	Open Elective IV 3(3-0-0)	MAD 360 Project 4(0-0-8)		MAS 300 (70 hrs) (2 Crdt)	MAR 310 (1)	15	22		
			Total									127	141

Scheme of BSc (H) Mathematics 2020-23

Sem	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Comm. services	GP	Cont. hrs.	Credits		
I	CLL 101 Effective Communication-I 2.5(2-0-1)	MAL 101N Fundamentals of Mathematics 4(3-1-0)	PYL 102N Fundamentals of Physics 4(3-0-2)	ENL101 Statistics & Research Methodology-I 4(4-0-0)	CHL100 Environmental Studies 3(3-0-0)	PSL101 Understanding the Constitution 3(3-0-0)		MAS 100 (70 hrs)	MAR 100 (1)	22	21		
II	CLL 102 Effective Communication-II 2.5(2-0-1)	BSL102 FINE ARTS 2(1-0-2)	PCL102 Psychology for living 3(2-1-0)	CHL111 Fundamentals of Chemistry 4(3-0-2)	MAL 106N Basics of Computer Programming 4(3-0-2)	BSL101 Entrepreneurship 3(2-0-2)	CLL 120 HVPE 2(2-0-0)	MAS 100 (70 hrs) (2 Crdt)	MAR 110 (1)	25	23.5		
III	MAL 102 Analysis I 4(3-1-0)	MAL 313 Integral & Vector Calculus 4(3-1-0)	PE 1 MAL105N Group Theory 4(3-1-0)	PE 2 MAL303 Linear Programming & applications 4(3-1-0)	Open Elective I 3(3-0-0)	MAL 304N Probability and Statistics 4(3-1-0)		MAS 200 (35 hrs)	MAR 200 (1)	23	24		
IV	MAL 104 Differential Equations I 4(3-1-0)	PE 3 MAL201 Analysis II 4 (3-1-0)	PE 4 MAL205N Higher Algebra 4 (3-1-0)	PE 5 MAL317 Mathematical Modeling 4(3-1-0)	Open Elective II 3(3-0-0)	Foreign Language 3(1-2-0)		MAS 200 (35 hrs) (1 Crdt)	MAR 210 (1)	22	24		
	MAI 240 Summer Internship 3(0-0-6) (including 70 hrs of community services)												
V	MAL 208 Linear Algebra 4(3-1-0)	MAL 206 Mathematical Statistics 3(2-0-2)	PE 6 MAL203 Differential Equations II 4(3-1-0)	PE 7 MAL321 Mathematical Methods/MAL 209 Data Analysis 4 (3-0-2)	Open Elective III 3(3-0-0)	MAD 350 Project 4(0-0-8)		MAS 300 (70 hrs)	MAR 300 (1)	20	23		
VI	MAL 310 Numerical Analysis 3(2-0-2)	MAL 320 Creativity and innovation outcome (1)	PE 8 MAL311 Intro to complex Analysis 4(3-1-0)	PE 9 MAL 307 Discrete Mathematics/CSL 313 Machine Learning 4 (3-1-0/2-0-4)	Open Elective IV 3(3-0-0)	MAD 360 Project 4(0-0-8)		MAS 300 (70 hrs) (2 Crdt)	MAR 310 (1)	15	22		
			Total									127	141

SCHEME OF B.Sc. (HONS) MATHS 2019-22

Sem	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	GP	Comm. services	Cont hrs	Credits	
I	MAL 101 Calculus and Geometry 3-1-0(4)	MAL 103 Intro to Probability 3-1-0(4)	MAL 105 Algebra I 3-1-0(4)	CLL 101 Effective Comm.-I 1-0-2 (2)	CHL100 EVS 3-0-0 (3)	Foreign Language Elective (1-2-0)3	MAR 100 (1)		21	21	
II	MAL 102 Analysis I 3-1-0(4)	MAL 104 Differential Equations I 3-1-0(4)	MAL 108 Algebra II 3-1-0(4)	SML 150 Leadership 2-1-0(3)	CLL 102 Effective Comm.-II 1-0-2 (2)	CLL 120 Human Values (2-0-0)2	MAR 110 (1)		20	20	
III	MAL 201 Analysis II 3-1-0(4)	MAL 203 Differential Equations II 3-1-0(4)	MAL 205 Algebra III (3-1-0) 4	MAL 207 Operations Research (3-1-0) 4	Open Elective I 3 (3)		MAR 200 (1)	MAS 200 (70 hrs)	19	20	
IV	SML300 Entrepreneurshi p 2-1-0 (3)	MAL 206 Mathematical Statistics 3-1-0(4)	MAL 308 Linear Algebra (3-1-0) 4	Prog. Elective II 3-0-2 (4) <i>(Image Processing./ DBMS. / Data Visual. Tech.)</i>	Prog. Elective I 3-0-2 (4) <i>(Lin. Prog/ Math. Modelling/ Data Struc. Algos</i>	Open Elective II 3 (3)	MAR 210 (1)	MAS 200 (70 hrs) (1 Crdt)	24	24	
V	MAL 321 Mathematical Methods 3-1-0(4)	MAL 310 Numerical Analysis 2-1-2 (4)	MAL316 Data Analysis (3-0-2) 4	Prog. Elective III (MOOC) 3-0-2 (4) <i>(Mechanics/ Statis. Modeling./ Number theory)</i>	Open Elective III 3 (3)		MAR 300 (1)	MAS 300 (70 hrs)	22	20	
VI	MAL 311 Intro. to Complex Analysis 3-1-0(4)	MAL 313 Integral & Vector Calculus 3-1-0(4)	Prog. Elective IV (MOOC) 3-0-2 (4) <i>(Financial Maths/ Metric Space./ Predictive Analytics</i>	Open Elective IV 3 (3)	MAD 350 Project (0-0-6)3	Creativity and innovation outcome (1) MAL 320	MAR 310 (1)	MAS 300 (70 hrs) (2 Crdt)	16	22	
	Total									122	127