

STUDY & EVALUATION SCHEME
B.SC. (H) MATHEMATICS
I YEAR: I SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C	COURSE TYPE	FACULTY
THEORY											
1	UMA1005	Modern Algebra	3	2	-	40	60	100	5	Major 1	Own Faculty
2	UMA1006	Calculus-I	3	2	-	40	60	100	5		
3									5	Major 2	Own Faculty
4									5		
5	UEG1502S E	Functional English	2	0	0	40	60	100	2	Skills Enhancement Course	Other Faculty
6	UPC1401	First Aid & Health	2	0	0	40	60	100	**2	Co-Curricular course	Other Faculty
PRACTICAL											
7	UEG1501S E	English Language Lab	0	0	2	40	60	100	1	Skills Enhancement Course	Other Faculty
TOTAL			10	4	2	200	300	500	25		

L - Lecture

T - Tutorial

P - Practical

CIE - Continuous Internal Evaluation

ESE-End Semester Exam

C - Credit

STUDY & EVALUATION SCHEME
B.SC. (H) MATHEMATICS
I YEAR: II SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C	COURSE TYPE	FACULTY
THEORY											
1	UMA2004	Vector Calculus and Geometry	3	2	-	40	60	100	5	Major 1	Own Faculty
2	UMA2005	Calculus-II	3	2	-	40	60	100	5		
3									5	Major 2	Own Faculty
4									5		
5		Minor Elective- 1	4	0	0	40	60	100	4	Minor Elective	Other Faculty
6	UCS2501SE	Computer Fundamentals	3	0	0	40	60	100	3	Skills Enhancement Course	Other Faculty
7	UBS2401	Food nutrition and Hygiene	2	0	0	100	-	100	** 2	Co-Curricular course (Minor)	Other Faculty
TOTAL			15	4	0	200	300	500	29		

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STUDY & EVALUATION SCHEME
B.SC. (H) MATHEMATICS
II YEAR: III SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C	COURSE TYPE	FACULTY
THEORY											
1	UMA3005	Differential Equations	4	1	-	40	60	100	5	Major 1	Own Faculty
2	UMA3006	Statics & Dynamics	3	1	-	40	60	100	4		
3									5	Major 2	Other Faculty
4									5		
5	UMA3501SE	Financial Mathematics	3	0	0	40	60	100	3	Skills Enhancement	Own Faculty
6	UPE3401	Physical Education and Yoga	2	0	0	40	60	100	** 2	Co-Curricular course	Other Faculty
PRACTICAL											
7	UMA3701SM	Seminar	-	-	2	40	60	100	1	Major 1	Own Faculty
TOTAL			12	2	2	200	300	500	25		

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B.SC. (H) MATHEMATICS
II YEAR: IV SEMESTER

S. NO	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C	COURSE TYPE	FACULTY
THEORY											
1	UST4001	Probability Theory and Statistics	3	1	-	40	60	100	4	Major 1	Own Faculty
2	UMA4003	Mathematical Methods	3	1	-	40	60	100	4		
3	UMA4004	Advanced Calculus	3	1	-	40	60	100	4		
4	UMA4005	Abstract Algebra	3	1	-	40	60	100	4		
5		Minor Elective- 2	4	0	-	40	60	100	4	Minor Elective	Other Faculty
6	UST4501SE	Statistical Techniques	3	0	0	40	60	100	3	Skills Enhancement Course	Own Faculty
7	USO4402	Human Values and Environmental Studies	2	0	0	40	60	100	* * 2	Co-Curricular course (Minor)	Other Faculty
PRACTICAL											
8	UCS4209	C++ Programming Lab	-	-	4	80	20	100	2	Major 1	Own Faculty
TOTAL			21	4	4	360	440	800	27		

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STUDY & EVALUATION SCHEME
B.SC. (H) MATHEMATICS
III YEAR: V SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C	COURSE TYPE	FACULTY
THEORY											
1	UMA5005	Linear Algebra	3	1	-	40	60	100	4	Major 1	Own Faculty
2	UMA5006	Discrete Mathematics	3	1	-	40	60	100	4		
3	UMA5007	Real Analysis and Metric Space	3	1	-	40	60	100	4		
4	UMA5008	Linear Programming Problem	3	1	-	40	60	100	4		
5		Elective- I	3	1	-	40	60	100	4		
6	USS5401	Communication Skill and Personality Development	2	0	0	40	60	100	* * 2	Co-Curricular course	Other Faculty
PRACTICAL											
7	UMA5701TM	Term Paper I	0	0	6	40	60	100	3	Major 1	Inter/Intra faculty to main subject
TOTAL			17	5	6	280	420	700	25		

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STUDY & EVALUATION SCHEME
B.SC. (H) MATHEMATICS
III YEAR: VI SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C	COURSE TYPE	FACULTY
THEORY											
1	UMA6005	Tensor Calculus & Riemannian Geometry	4	1	-	40	60	100	5	Major 1	Own Faculty
2	UMA6006	Complex Analysis	4	1	-	40	60	100	5		
3	UMA6007	Special Functions	4	1	-	40	60	100	5		
4		Elective- II	3	1	-	40	60	100	4		
5	UAP6401	Analytic Ability and Digital Awareness	2	0	0	40	60	100	* * 2	Co-Curricular course	Other Faculty
PRACTICAL											
6	UMA6701 TM	Term Paper-II	0	0	6	40	60	100	3	Major 1	Own Faculty
7	UMA6202 CV	Comprehensive Viva-Voce	-	-	-	100	-	100	1	Major 1	Own Faculty
TOTAL			17	4	6	340	360	700	25		

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STUDY & EVALUATION SCHEME
B.SC. (H) MATHEMATICS
IV YEAR: VII SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C	COURSE TYPE	FACULTY
THEORY											
1	UMA7001	Topology	4	0	0	40	60	100	4	Major 1	Own Faculty
2	UMA7002	Advanced Differential Equations	4	1	0	40	60	100	5		Own Faculty
3		Elective- III	3	1	0	40	60	100	4		Own Faculty
4	UMA7003	Differential Manifolds	4	0	0	40	60	100	4		Own Faculty
PRACTICAL											
5	UMA7701PJ	Research Project-I	0	0	12	40	60	100	6	Major Project	Own Faculty
6	UMA7203	SCI Lab- I	0	0	2	40	60	100	1	Major I	Own Faculty
7	UMA7204	LATEX	0	0	4	40	60	100	2	Major I	Own Faculty
TOTAL			15	2	18	280	420	700	26		

L - Lecture

T - Tutorial

P - Practical

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C - Credit

STUDY & EVALUATION SCHEME
B.SC. (H) MATHEMATICS
IV YEAR: VIII SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C	COURSE TYPE	FACULTY
THEORY											
1	UMA8001	Analysis (Real and Complex)	4	1	0	40	60	100	5	Major 1	Own Faculty
2		Elective- IV	4	0	0	40	60	100	4		Own Faculty
3		Elective- V	4	0	0	40	60	100	4		Own Faculty
4	UMA8002	Advanced Algebra	4	1	0	40	60	100	5		Own Faculty
5		Minor Elective III	4	0	0	40	60	100	4	Minor Elective	Other Faculty
PRACTICAL											
6	UPH8701PJ	Research Project II	0	0	12	40	60	100	6	Major 1	Own Faculty
7	UMA8203	SCI Lab-II	0	0	4	40	60	100	2	Major 1	Own Faculty
TOTAL			18	4	16	280	420	700	30		

L - Lecture

T - Tutorial

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LIST OF ELECTIVE

S. NO.	SUBJECT CODE	SUBJECT
	ELECTIVE-I(SEMESTER-V)	
1	UMA5101	Numerical Methods
2	UMA5102	Integral Equations
	ELECTIVE-II(SEMESTER-VI)	
1	UMA6101	Differential Geometry
2	UMA6102	Optimization Techniques
	ELECTIVE-III(SEMESTER-VII)	
1	UMA7101	Rigid Dynamics
2	UMA7102	Dynamical System
	ELECTIVE-IV(SEMESTER-VIII)	
1	UMA8101	Mathematical Modeling
2	UMA8102	Sum ability Theory
	ELECTIVE-V(SEMESTER-VIII)	
1	UMA8103	Number Theory & Cryptography
2	UMA8105	Fractional Calculus
3	UMA8106	Fuzzy Mathematics

MINOE ELECTIVE COURSES (OPEN FOR OTHER PROGRAMS OF THE UNIVERSITY)

S. No.	COURSE CODE	COURSE	CREDIT	SEMESTER
1	UMA2301	Vedic Mathematics	4	II
2	UMA4301	Astro & Cosmo sciences	4	IV
3	UMA8301	Mathematical Programming	4	VIII

CREDIT CHART

SEMESTER	MINIMUM CREDIT	TOTAL CREDIT	COURSE	CUMULATIVE MINIMUM CREDIT
I	25	54	B.Sc. (Hons.) I Year	54
II	29			
III	25	52	B.Sc. (Hons.) II Year	106
IV	27			
V	25	50	B.Sc. (Hons.) III Year	156
VI	25			
VII	26	56	B.Sc. (Hons.) IV Year	212
VIII	30			
TOTAL CREDIT			212	