



**MANAV RACHNA UNIVERSITY**  
**DEPARTMENT OF MATHEMATICS**  
**B.Sc. (Hons.) Mathematics (MAU01)**

**SCHEME - B**

**SEMESTER - 1**

SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (Hard/Soft/Workshop/NTCC)	COURSE TYPE (Core/Elective / University Compulsory)	L	T	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH107B	ALGEBRA	MA	HARD	CORE	3	1	0	0	4	4
MAH108B	CALCULUS-I	MA	HARD	CORE	3	1	0	0	4	4
CSH105B - T	PROGRAMMING FOR PROBLEM SOLVING USING C	CS	HARD	CORE	2	1	0	0	5	4
CSH105B - P	PROGRAMMING FOR PROBLEM SOLVING USING C LAB				0	0	2	0		
PHH106B - T	ESSENTIALS OF PHYSICS	PH	HARD	CORE	3	1	0	0	6	5
PHH106B - P	ESSENTIALS OF PHYSICS LAB				0	0	2	0		
MAH109B	MATHS LAB - I	MA	HARD	CORE	0	0	2	0	2	1
HL102	COMMUNICATIVE ENGLISH	HL	SOFT	CORE	1	0	2	0	3	2
<b>TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)</b>					<b>12</b>	<b>4</b>	<b>8</b>	<b>0</b>	<b>24</b>	<b>20</b>

**SEMESTER - 2**

SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (Hard/Soft/Workshop/NTCC)	COURSE TYPE (Core/Elective / University Compulsory)	L	T	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH115B	CALCULUS-II	MA	HARD	CORE	3	1	0	0	4	4
MAH111B	STATISTICS - I	MA	HARD	CORE	3	1	0	0	4	4
MAH112B	ORDINARY DIFFERENTIAL EQUATIONS	MA	HARD	CORE	3	1	0	0	4	4
MAH113B	GEOMETRY OF TWO AND THREE DIMENSIONS	MA	HARD	CORE	3	1	0	0	4	4
MAH114B	MATH LAB - II	MA	HARD	CORE	0	0	2	0	2	1
CHH137	ENVIRONMENTAL SCIENCE	CH	HARD	UNIVERSITY COMPULSORY	2	0	0	2	2	4
<b>TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)</b>					<b>14</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>20</b>	<b>21</b>

**VALUE ADDED SUMMER COURSE - POST 2nd SEMESTER**

MAO116B										2
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**SEMESTER - 3**

SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (Hard/Soft/Workshop/NTCC)	COURSE TYPE (Core/Elective / University Compulsory)	L	T	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH204B	REAL ANALYSIS	MA	HARD	CORE	3	1	0	0	4	4
MAH205B	STATISTICS - II	MA	HARD	CORE	3	1	0	0	4	4
MAH206B	GROUP THEORY	MA	HARD	CORE	3	1	0	0	4	4
MAH207B	PARTIAL DIFFERENTIAL EQUATIONS	MA	HARD	CORE	3	1	0	0	4	4
MAH208B	MATH LAB - III	MA	HARD	CORE	0	0	2	0	2	1
EDS288/ EDS289/ EDS290/ MCS231/ MCS232/ CDO203/	APPLIED PHILOSOPHY/ APPLIED PSYCHOLOGY/APPLIED SOCIOLOGY/ BASICS OF ECONOMICS/ INTRODUCTION TO FINANCE/ QUANTITATIVE APTITUDE - I/ MINI PROJECT - I	ED/MC/ CDC/MA	SOFT/ NTCC	ELECTIVE (ANY ONE)	1	0	2	0	3	2
FLS103	FRENCH - I	MRCFL	SOFT	UNIVERSITY COMPULSORY	1	1	0	0	2	2
FLS101	SPANISH - I									
FLS102	GERMAN - I									
<b>TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)</b>					<b>14</b>	<b>5</b>	<b>4</b>	<b>0</b>	<b>23</b>	<b>21</b>

**SEMESTER - 4**

SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (Hard/Soft/Workshop/NTCC)	COURSE TYPE (Core/Elective / University Compulsory)	L	T	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH210B	ADVANCED ANALYSIS	MA	HARD	CORE	3	1	0	0	4	4
MAH211B	ADVANCED ALGEBRA	MA	HARD	CORE	3	1	0	0	4	4
MAH212B	MECHANICS-I	MA	HARD	CORE	3	1	0	0	4	4
MAH213B	INTEGRAL TRANSFORMS & APPLICATION	MA	HARD	CORE	3	1	0	0	4	4
MAH214B	SET & NUMBER THEORY	MA	HARD	ELECTIVE (ANY ONE)	3	1	0	0	4	4
CSH210B - T	DATA STRUCTURES	CS			3	0	0	0	5	
CSH210B - P	DATA STRUCTURES LAB				0	0	2	0		
MAH215B	ACTUARIAL STATISTICS				3	1	0	0	4	
MAH216B	SURVEY SAMPLING & INDIAN OFFICIAL STATS	MA			3	1	0	0	4	
CHS234/ ECS249/ CDO204/LWS32 3 MAN218B	ESD/ E-WASTE/ QUNATITATIVE APTITUDE-II/ CYBER CRIMES & LAWS MINI PROJECT-II	CH/EC/CDC /LW/MA	SOFT/ NTCC	ELECTIVE (ANY ONE)	1	0	2	0	3	2
<b>TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)</b>					<b>16</b>	<b>4 OR 5</b>	<b>2 OR 4</b>	<b>0</b>	<b>23OR 24</b>	<b>22</b>

SEMESTER - 5										
SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (Hard/Soft/Workshop/NTCC)	COURSE TYPE (Core/Elective / University Compulsory)	L	T	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH301B	NUMERICAL ANALYSIS	MA	HARD	CORE	3	1	0	0	4	4
MAH302B	LINEAR ALGEBRA	MA	HARD	CORE	3	1	0	0	4	4
MAH303B	METRIC SPACES	MA	HARD	CORE	3	1	0	0	4	4
MAH304B	INFORMATION THEORY & CODING	MA	HARD	ELECTIVE (ANY ONE)	3	1	0	0	4	4
CSH321B-T	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	CS			3	0	0	0	5	
CSH321B-P	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS LAB				0	0	2	0		
MAH305B	MATHEMATICS OF FINANCE	MA			3	1	0	0	4	
MAH306B	STATISTICAL INFERENCES	MA			3	1	0	0	4	
MAH307B	MATH LAB - IV	MA	HARD	CORE	0	0	2	0	2	1
MAN308B	MINOR PROJECT	MA	NTCC	CORE	1	0	2	0	3	2
TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)					13	3 OR 4	4 OR 6	0	21 or 22	19
SEMESTER - 6										
SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (Hard/Soft/Workshop/NTCC)	COURSE TYPE (Core/Elective / University Compulsory)	L	T	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH309B	LINEAR PROGRAMMING & GAME THEORY	MA	HARD	ELECTIVE (ANY TWO)	3	1	0	0	8	8
MAH310B	MECHANICS-II									
MAH311B	DISCRETE MATHEMATICS									
MAH312B	MATHEMATICAL MODELING									
MAH313B	APPLICATIONS OF ALGEBRA									
MAH314B	INDUSTRIAL MATHEMATICS									
MAH315B	BIO MATHS									
MAH316B	CRYPTOGRAPHY	MA	HARD	ELECTIVE (ANY ONE)	3	1	0	0	4	4
CSE322B-T	FUNDAMENTALS OF MACHINE LEARNING	CS			3	0	0	0	5	
CSE322B -P	FUNDAMENTALS OF MACHINE LEARNING LAB				0	0	2	0		
MCH393	MANAGEMENT OF BANKING & INSURANCE	MC			3	1	0	0	4	
MAH317B	ECONOMETRICS	MA			3	1	0	0	4	
MCH109	ENTREPRENEURSHIP THEORY & PRACTICE	MC	3	1	0	0	4			
MAN318B	PROJECT	MA	NTCC	CORE	0	0	0	6	2	6
TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)					9	2 OR 3	0 OR 2	6	14 OR 15	18
									GRAND TOTAL OF CREDITS	123