



**MANAV RACHNA UNIVERSITY  
DEPARTMENT OF MATHEMATICS**

**M.Sc. MATHEMATICS (MAP01)  
SCHEME - B**

**SEMESTER - 1**

SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (HARD/SOFT/WO RKSHOP/ NTCC)	COURSE TYPE (CORE/ELECTIVE / UNIVERSITY COMPULSORY)	L	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH501B	ABSTRACT ALGEBRA	MA	HARD	CORE	4	0	0	4	4
MAH502B	TOPOLOGY-I	MA	HARD	CORE	4	0	0	4	4
MAH503B	DIFFERENTIAL EQUATIONS	MA	HARD	CORE	4	0	0	4	4
MAH504B	MEASURE THEORY	MA	HARD	CORE	4	0	0	4	4
MAW505B	EXCEL WORKSHOP	MA	WORKSHOP	CORE	0	4	0	4	2
MAH506B	MATHEMATICS LAB - I	MA	HARD	ELECTIVE (ANY ONE)	0	2	0	2	1
CSH511B	PYTHON PROGRAMMING	CS							
<b>TOTAL (L-P-O/CONTACT HOURS/CREDITS)</b>					<b>16</b>	<b>6</b>	<b>0</b>	<b>22</b>	<b>19</b>

**SEMESTER - 2**

SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (Hard/Soft/ Workshop/ NTCC)	COURSE TYPE (Core/Elective / University Compulsory)	L	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH507B	FIELD THEORY	MA	HARD	CORE	4	0	0	4	4
MAH508B	COMPLEX ANALYSIS	MA	HARD	CORE	4	0	0	4	4
MAH509B	FUNCTIONAL ANALYSIS	MA	HARD	CORE	4	0	0	4	4
MAH510B	DIFFERENTIAL GEOMETRY	MA	HARD	CORE	4	0	0	4	4
MAH511B	MATHEMATICS LAB - II	MA	HARD	ELECTIVE (ANY ONE)	0	4	0	4	2
CSW512B	PYTHON FOR DATA ANALYSIS	CS							
RDO503	SCIENTIFIC RESEARCH - I	MA	NTCC	CORE	0	8	0	2	4
<b>TOTAL (L-P-O/CONTACT HOURS/CREDITS)</b>					<b>16</b>	<b>12</b>	<b>0</b>	<b>22</b>	<b>22</b>

**Summer Internship**

MAO513B									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	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH601B	INTEGRAL EQUATIONS & CALCULUS OF VARIATION	MA	HARD	CORE	4	0	0	4	4
MAH602B	FLUID MECHANICS	MA	HARD	CORE	4	0	0	4	4
MAH603B	FUZZY SETS & FUZZY LOGIC	MA	HARD	ELECTIVE (ANY TWO)	4	0	0	8	8
MAH604B	OPERATIONS RESEARCH								
MAH605B	GRAPH THEORY								
MAH606B	DESIGN OF EXPERIMENTS								
MAH607B	FOURIER ANALYSIS								
MAH608B	DIFFERENTIABLE MANIFOLDS								
MAH609B	WAVELETS								
MAH610B	TOPOLOGY - II								
RDO603	SCIENTIFIC RESEARCH - II	MA	NTCC	CORE	0	8	0	2	4
EDS234	PEDAGOGICAL SKILLS	ED	SOFT	CORE	1	2	0	3	2
<b>TOTAL (L-P-O/CONTACT HOURS/CREDITS)</b>					<b>17</b>	<b>10</b>	<b>0</b>	<b>21</b>	<b>22</b>

**SEMESTER - 4**

SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (Hard/Soft/ Workshop/ NTCC)	COURSE TYPE (Core/Elective / University Compulsory)	L	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH612B	COMPUTATIONAL FLUID DYNAMICS	MA	HARD	ELECTIVE (ANY TWO)	4	0	0	8	8
MAH613B	GENERALIZED FUZZY SET THEORY								
MAH614B	ADVANCED OPERATIONS RESEARCH								
MAH615B	CODING THEORY								
MAH616B	STOCHASTIC PROCESSES								
MAH617B	HARMONIC ANALYSIS								
MAH618B	LIGHTLIKE MANIFOLDS								
MAH619B	WAVELETS & IT'S APPLICATIONS								
MAH620B	ALGEBRAIC TOPOLGY								
MAH621B	DYNAMICS OF RIGID BODY								
MAN622B	PROJECT								
<b>TOTAL (L-P-O/CONTACT HOURS/CREDITS)</b>					<b>8</b>	<b>0</b>	<b>10</b>	<b>10</b>	<b>18</b>

**GRAND TOTAL OF CREDITS**

**83**