



**MANAV RACHNA UNIVERSITY
DEPARTMENT OF MATHEMATICS**

M.Sc. MATHEMATICS (2017 - 19)

SEMESTER - 1

SUBJECT CODES	SUBJECT NAME	**OFFERING DEPARTMENT	*COURSE NATURE (HARD/SOFT/WOR KSHOP/ NTCC)	COURSE TYPE (CORE/ELECTIVE / UNIVERSITY COMPULSORY)	L	P	O	NO. OF CONTACT HOURS PER WEEK	NO. OF CREDITS
MAH501	ABSTRACT ALGEBRA	MA	HARD	CORE	4	0	0	4	4
MAH502	TOPOLOGY-I	MA	HARD	CORE	4	0	0	4	4
MAH503	DIFFERENTIAL EQUATIONS	MA	HARD	CORE	4	0	0	4	4
MAH504	GRAPH THEORY	MA	HARD	ELECTIVE	4	0	0	4	4
MAH505	OPERATIONS RESEARCH	MA							
MAH514	MATHEMATICAL STATISTICS	MA	HARD	CORE	0	4	0	4	2
MAH507-P	MATHS LAB- I	MA							
MAW508	SCILAB	MA	WORKSHOP	ELECTIVE	0	3	0	3	2
MAW509	MATHEMATICA								
MAW231	SPSS								
MAW225	LaTeX								
MAW538	ADVANCED STATISTICS USING EXCEL								
PHS501	RESEARCH METHODOLOGY	PH	SOFT	ELECTIVE	1	2	0	3	2
TOTAL (L-P-O/CONTACT HOURS/CREDITS)					17	9		26	22

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
MAH510	ADVANCED LINEAR ALGEBRA	MA	HARD	CORE	4	0	0	4	4
MAH511	COMPLEX ANALYSIS	MA	HARD	CORE	4	0	0	4	4
MAH512	MEASURE THEORY	MA	HARD	CORE	4	0	0	4	4
MAH513	FUZZY SETS & FUZZY LOGIC	MA	HARD	ELECTIVE	4	0	0	4	4
MAH504	GRAPH THEORY								
MAH505	OPERATIONS RESEARCH								
MAH506	MATHEMATICAL MODELLING & SIMULATION								
MAH515	TOPOLOGY-II								
MAH516	MATHS LAB-II	MA	HARD	CORE	0	4	0	4	2
MAW508	SCILAB	MA	WORKSHOP	ELECTIVE	0	3	0	3	2
MAW509	MATHEMATICA								
MAW231	SPSS								
MAW225	LaTeX								
MAW538	ADVANCED STATISTICS USING EXCEL								
EDS234	PEDAGOGICAL SKILLS	ED	SOFT	ELECTIVE	1	2	0	3	2
TOTAL (L-P-O/CONTACT HOURS/CREDITS)					17	9	0	26	22

MAO517	SUMMER TRAINING POST 2nd SEMESTER								3
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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
MAH618	FUNCTIONAL ANALYSIS	MA	HARD	CORE	4	0	0	4	4
MAH619	DIFFERENTIAL GEOMETRY	MA	HARD	CORE	4	0	0	4	4
MAH620	DYNAMICS OF RIGID BODY	MA	HARD	CORE	4	0	0	4	4
MAH504	GRAPH THEORY	MA	HARD	ELECTIVE	4	0	0	4	4
MAH505	OPERATIONS RESEARCH								
MAH506	MATHEMATICAL MODELLING & SIMULATION								
MAH513	FUZZY SETS & FUZZY LOGIC								
MAH621	CODING THEORY								
MAH624	FOURIER ANALYSIS	MA	HARD	CORE	0	4	0	4	2
MAH625	MATHS LAB-III	MA	HARD	CORE	0	4	0	4	2
MCS231	BASICS OF ECONOMICS	MC	SOFT	ELECTIVE ALLIED	1	2	0	3	2
MCS232	INTRODUCTION TO FINANCE			(BASKET OF					
MAN626	SEMINAR	MA	NTCC	CORE	0	0	2	2	2
TOTAL (L-P-O/CONTACT HOURS/CREDITS)					17	6	2	25	22
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
MAH635	CALCULUS OF VARIATION & INTEGRAL EQUATIONS	MA	HARD	CORE	4	0	0	4	4
MAH628	FLUID MECHANICS	MA	HARD	CORE	4	0	0	4	4
MAH629	ALGEBRAIC TOPOLOGY	MA	HARD	ELECTIVE	4	0	0	4	4
MAH630	CRYPTOGRAPHY								
MAH627	WAVELET ANALYSIS								
MAH623	ADVANCED OPERATIONS RESEARCH								
MAH636	DIFFERENTIABLE MANIFOLDS								
MAH632	THEORY OF ELASTICITY & FRACTURE MECHANICS	MA	HARD	CORE	0	4	0	4	2
MAH633	MATHS LAB-IV	MA	HARD	CORE	0	4	0	4	2
MAN634	PROJECT	MA	NTCC	CORE	0	0	6	6	6
MAW508	SCILAB	MA	WORKSHOP	ELECTIVE (ANY ONE)	0	3	0	3	2
MAW509	MATHEMATICA								
MAW231	SPSS								
MAW225	LaTeX								
MAW538	ADVANCED STATISTICS USING EXCEL								
TOTAL (L-P-O/CONTACT HOURS/CREDITS)					12	7	6	25	22
GRAND TOTAL OF CREDITS									91

