

MANAV RACHNA UNIVERSITY
 Department of Mathematics
 Mapping of Course Outcomes with Program Outcomes (2019)
 Program: B.Sc. (H) Mathematics

Courses Code	Courses	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
SEMESTER - I														
MAH107B	ALGEBRA	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	✓	✓
MAH108B	CALCULUS-I	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	✓	✓
CSH105B	PROGRAMMING FOR PROBLEM SOLVING USING C	✓	✓	✓	✓	X	✓	X	X	✓	✓	✓	X	✓
PHH106B	ESSENTIALS OF PHYSICS	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	X	✓	X
MAH109B	MATHS LAB - I	✓	X	X	X	X	✓	X	✓	X	✓	✓	✓	✓
HLS102	COMMUNICATIVE ENGLISH	X	✓	X	X	X	X	X	✓	X	✓	X	✓	X
SEMESTER - II														
MAH116B	CALCULUS-II	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	X	X
MAH111B	STATISTICS - I	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	✓	✓
MAH112B	ORDINARY DIFFERENTIAL EQUATIONS	✓	✓	✓	✓	X	X	X	X	✓	✓	✓	X	X
MAH113B	GEOMETRY OF TWO AND THREE DIMENSIONS	✓	✓	X	✓	✓	✓	X	✓	✓	X	✓	X	✓
MAH114B	MATH LAB - II	✓	X	X	X	X	✓	✓	X	✓	✓	✓	✓	✓
CHH137	ENVIRONMENTAL SCIENCE	✓	✓	X	X	X	X	X	✓	✓	✓	X	X	X
MAO115B	SUMMER TRAINING	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SEMESTER - III														
MAH204B	REAL ANALYSIS	✓	✓	✓	✓	✓	X	X	X	✓	✓	✓	X	X
MAH205B	STATISTICS - II	✓	✓	✓	✓	✓	✓	X	X	✓	X	✓	✓	✓
MAH206B	GROUP THEORY	✓	✓	✓	✓	✓	X	X	X	✓	✓	X	X	X
MAH207B	PARTIAL DIFFERENTIAL EQUATIONS	✓	✓	✓	✓	X	✓	X	X	✓	✓	X	X	X
MAH208B	MATH LAB - III	X	X	X	X	X	✓	X	X	X	X	X	X	X
MCS232	INTRODUCTION TO FINANCE	X	X	✓	✓	X	X	X	✓	✓	✓	✓	✓	✓
BHM-ID-003	QUANTITATIVE APTITUDE I	✓	✓	✓	✓	✓	X	X	✓	X	✓	✓	✓	✓
MAN209B	MINI PROJECT - I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FLS103	FRENCH - I	X	✓	X	X	X	X	X	X	✓	✓	X	X	✓
FLS101	SPANISH - I	X	✓	X	X	X	X	X	X	✓	✓	X	X	✓
FLS102	GERMAN - I	X	✓	X	X	X	X	X	X	✓	✓	X	X	✓
SEMESTER - IV														
MAH210B	ADVANCED ANALYSIS	✓	✓	✓	✓	✓	X	X	X	✓	✓	✓	X	X
MAH211B	ADVANCED ALGEBRA	✓	✓	✓	✓	✓	X	X	X	✓	✓	✓	X	X
MAH212B	MECHANICS-I	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	X	X
MAH213B	INTEGRAL TRANSFORMS & APPLICATION	✓	✓	✓	✓	✓	X	X	X	✓	✓	✓	X	✓
MAH214B	SET & NUMBER THEORY	✓	✓	✓	✓	✓	X	X	X	✓	✓	X	X	X
CSH210B	DATA STRUCTURES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAH215B	ACTUARIAL STATISTICS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAH216B	SURVEY SAMPLING & INDIAN OFFICIAL STATS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ECS249	E- WASTE	X	✓	✓	✓	X	X	X	✓	✓	✓	X	X	X
CHS234	ESD	✓	✓	X	X	X	X	X	✓	✓	✓	X	X	X
BHM-ID-004	QUANTITATIVE APTITUDE II	✓	✓	✓	✓	✓	X	X	✓	X	✓	✓	✓	✓
MAN218B	MINI PROJECT II	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SEMESTER - V														
MAH301B	NUMERICAL ANALYSIS	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓
MAH302B	LINEAR ALGEBRA	✓	✓	✓	✓	✓	X	✓	X	X	✓	X	✓	X
MAH303B	METRIC SPACES	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	✓	X
MAH304B	INFORMATION SECURITY	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	X	X
CSH321B	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	X	✓	✓	✓	X	✓	✓	X	✓	✓	✓	X	✓
MAH305B	MATHEMATICS OF FINANCE	✓	✓	✓	✓	✓	X	✓	X	✓	✓	X	X	✓
MAH306B	STATISTICAL INFERENCE	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓
MAH307B	MATH LAB - IV	✓	X	X	X	X	✓	✓	X	✓	✓	✓	✓	✓
MAN308B	MINOR PROJECT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SEMESTER - VI														
MAH309B	LINEAR PROGRAMMING & GAME THEORY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAH310B	MECHANICS-II	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	X	X
MAH311B	DISCRETE MATHEMATICS	✓	✓	✓	✓	✓	✓	X	X	✓	X	✓	X	X
MAH312B	MATHEMATICAL MODELING	✓	✓	✓	✓	X	X	✓	X	X	✓	✓	X	X
MAH313B	APPLICATIONS OF ALGEBRA	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	X	X
MAH314B	INDUSTRIAL MATHEMATICS	✓	✓	✓	✓	✓	X	✓	X	✓	✓	X	✓	X
MAH315B	BIO MATHS	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	X	✓
MAH316B	CRYPTOGRAPHY	✓	✓	✓	✓	✓	X	✓	X	✓	✓	✓	X	X
CSE322B-T	FUNDAMENTALS OF MACHINE LEARNING	✓	✓	✓	✓	✓	✓	X	X	✓	✓	✓	X	✓

MCH393	MANAGEMENT OF BANKING & INSURANCE	X	X	✓	✓	X	X	X	✓	✓	✓	✓	✓	✓
MAH317B	ECONOMETRICS	✓	✓	✓	✓	✓	X	✓	X	✓	✓	X	✓	✓
MCH109	ENTREPRENEURSHIP THEORY & PRACTICE	X	X	✓	✓	X	X	X	✓	✓	✓	✓	✓	✓
MAN318B	PROJECT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		48	51	47	48	36	24	34	17	54	54	41	29	34

