



MANAV RACHNA UNIVERSITY
DEPARTMENT OF CHEMISTRY
B.SC (CHU01)
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
MAH113-T	ESSENTIALS OF MATHEMATICS	MA	HARD	CORE	3	1	0	0	4	4
MAH114-T	FUNDAMENTALS OF MATHEMATICS									
MAH113-P	ESSENTIALS OF MATHEMATICS LAB	MA	HARD	CORE	0	0	2	0	2	1
MAH114-P	FUNDAMENTALS OF MATHEMATICS LAB									
PHH107-T	ESSENTIALS OF PHYSICS	PH	HARD	CORE	3	1	0	0	4	4
PHH107-P	ESSENTIALS OF PHYSICS LAB									
CHH101-T	GREEN CHEMISTRY	CH	HARD	CORE	3	1	0	0	4	4
CHH101-P	GREEN CHEMISTRY LAB									
CSH101-T	STRUCTURED PROGRAMMING	CS	HARD	CORE	3	1	0	0	4	4
CSH101-P	STRUCTURED PROGRAMMING LAB									
HLS101	BUSINESS ENGLISH	HL	SOFT	CORE	1	0	2	0	3	2
CSW151	COMPUTING WORKSHOP	CS	WORKSHOP	CORE	0	0	3	0	3	2
CHH135	ENVIRONMENTAL SCIENCE	CH	HARD	CORE	3	0	0	1	4	4
TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)					16	4	13	1	34	28

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
CHH106-T	PHYSICAL CHEMISTRY I	CH	HARD	CORE	3	1	0	0	4	4
CHH106-P	PHYSICAL CHEMISTRY I LAB									
CHH107-T	INORGANIC CHEMISTRY I	CH	HARD	CORE	3	1	0	0	4	4
CHH107-P	INORGANIC CHEMISTRY I LAB									
MAH117-T	ADVANCED MATHEMATICS	MA	HARD	CORE	3	1	0	0	4	4
MAH118-T	FUNDAMENTALS OF MATHEMATICS-II									
MAH117-P	ADVANCED MATHEMATICS LAB									
MAH118-P	FUNDAMENTALS OF MATHEMATICS-II LAB									
PHH108-T	MODERN PHYSICS	PH	HARD	CORE	3	1	0	0	4	4
PHH108-P	MODERN PHYSICS LAB									
HLS102	COMMUNICATIVE ENGLISH	HL	SOFT	CORE	1	0	2	0	3	2
CHW109	CHEMISTRY IN EVERYDAY LIFE	CH	WORKSHOP	CORE	0	0	3	0	3	2
TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)					13	4	13	0	30	24

SUMMER TRAINING POST 2nd SEMESTER CHO110

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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
CHH211-T	INORGANIC CHEMISTRY II	CH	HARD	CORE	3	1	0	0	4	4
CHH211-P	INORGANIC CHEMISTRY II LAB									
CHH212-T	PHYSICAL CHEMISTRY II	CH	HARD	CORE	3	1	0	0	4	4
CHH212-P	PHYSICAL CHEMISTRY II LAB									
CHH213-T	ORGANIC CHEMISTRY I	CH	HARD	CORE	3	1	0	0	4	4
CHH213-P	ORGANIC CHEMISTRY I LAB									
CHH214-T	ANALYTICAL CHEMISTRY & SPECTROSCOPY	CH	HARD	CORE	3	1	0	0	4	4
CHH214-P	ANALYTICAL CHEMISTRY & SPECTROSCOPY LAB									
MCS-231	MANAGEMENT ELECTIVES: (1) Basics for Economics	MAN	SOFT	ELECTIVE	1	0	2	0	3	2
MCS-232	(2) Introduction to Finance									
EDS-290	HUMANITIES ELECTIVES: (1) Sociology	HUM	SOFT	ELECTIVE	1	0	2	0	3	2
EDS-289	(2) Philosophy									
EDS-288	(3) Psychology									
CHW215	EXTRACTION & SYNTHESIS	CH	WORKSHOP	CORE	0	0	3	0	3	2
FLS103	FRENCH-I	MRCFL	SOFT	UNIVERSITY COMPULSORY	1	1	0	0	2	0
FLS101	SPANISH-I									
FLS102	GERMAN-I									
TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)					15	5	15	0	35	26

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
CHH216-T	INORGANIC CHEMISTRY III	CH	HARD	CORE	3	1	0	0	4	4
CHH216-P	INORGANIC CHEMISTRY III LAB				0	0	2	0	2	1
CHH217-T	PHYSICAL CHEMISTRY III	CH	HARD	CORE	3	1	0	0	4	4
CHH217-P	PHYSICAL CHEMISTRY III LAB				0	0	2	0	2	1
CHH218-T	ORGANIC CHEMISTRY II	CH	HARD	CORE	3	1	0	0	4	4
CHH218-P	ORGANIC CHEMISTRY II LAB				0	0	2	0	2	1
CHH219-T	POLYMER CHEMISTRY	CH	HARD	ELECTIVE	3	1	0	0	4	4
CHH220-T	CLINICAL AND PHARMACEUTICAL CHEMISTRY				CH	HARD	ELECTIVE	0	0	2
CHH219-P	POLYMER CHEMISTRY LAB	CH	HARD	ELECTIVE				0	0	2
CHH220-P	CLINICAL AND PHARMACEUTICAL CHEMISTRY LAB				0	0	2	0	2	1
MAS 230	QUANTITATIVE APTITUDE	MA	SOFT	CORE	1	0	2	0	3	2
ECS-249 CHS234	ENVIRONMENT ETHICS AND SUSTAINABLE DEVELOPMENT: 1. E-Waste: Environmental problem and management 2. Environmental Sustainable Development	EC	SOFT	ELECTIVE	1	0	2	0	3	2
		CH								
CHW221	WORKSHOP ON COROSION	CH	WORKSHOP	CORE	0	0	3	0	3	2
TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)					14	4	15	0	33	26

SUMMER TRAINING POST 4TH SEMESTER (CHO222)

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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
CHH323-T	INSTRUMENTAL METHOD OF CHEMICAL ANALYSIS	CH	HARD	CORE	3	1	0	0	4	4
CHH323-P	INSTRUMENTAL METHOD OF CHEMICAL ANALYSIS LAB				0	0	2	0	2	1
CHH324-T	ORGANIC CHEMISTRY III	CH	HARD	CORE	3	1	0	0	4	4
CHH324-P	ORGANIC CHEMISTRY III LAB				0	0	2	0	2	1
CHH325-T	PHYSICAL CHEMISTRY IV	CH	HARD	CORE	3	1	0	0	4	4
CHH325-P	PHYSICAL CHEMISTRY IV LAB				0	0	2	0	2	1
CHH326-T	FOOD CHEMISTRY & TECHNOLOGY	CH	HARD	ELECTIVE	3	1	0	0	4	4
CHH327-T	GREEN TECHNOLOGY				CH	HARD	ELECTIVE	0	0	2
CHH326-P	FOOD CHEMISTRY & TECHNOLOGY LAB	CH	HARD	ELECTIVE				0	0	2
CHH327-P	GREEN TECHNOLOGY LAB				0	0	2	0	2	1
CHN328	SEMINARS/ PRESENTATIONS	CH	NTCC	CORE	0	0	0	2	0	2
TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)					12	4	8	2	24	22

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
CHH329-T	INDUSTRIAL & APPLIED CHEMISTRY	CH	HARD	CORE	3	1	0	0	4	4
CHH329-P	INDUSTRIAL & APPLIED CHEMISTRY LAB				0	0	2	0	2	1
CHH330-T	CHEMISTRY OF BIOMOLECULES & NATURAL PRODUCTS	CH	HARD	CORE	3	1	0	0	4	4
CHH330-P	CHEMISTRY OF BIOMOLECULES & NATURAL PRODUCTS LAB				0	0	2	0	2	1
CHH331-T	MATERIALS OF INDUSTRIAL IMPORTANCE	CH	HARD	ELECTIVE	3	1	0	0	4	4
CHH332-T	INDUSTRIAL CHEMICAL & ENVIRONMENT				CH	HARD	ELECTIVE	0	0	2
CHH331-P	MATERIALS OF INDUSTRIAL IMPORTANCE LAB	CH	HARD	ELECTIVE				0	0	2
CHH332-P	INDUSTRIAL CHEMICAL & ENVIRONMENT LAB				0	0	2	0	2	1
CHN333	PROJECT	CH	NTCC	CORE	0	0	0	5	5	5
TOTAL (L-T-P-O/CONTACT HOURS/CREDITS)					9	3	6	5	23	20

S.No.	Semester	Credits
1	I	28
2	II	24
3	SUMMER TRAINING (POST 2nd SEM)	3
4	III	26
5	IV	26
6	SUMMER TRAINING (POST 4th SEM)	3
7	V	22
8	VI	20
	Life Skill Program	2
	TOTAL CREDITS	154