

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI.



Scheme of Teaching and Examinations and Syllabus
M.Sc. in Chemistry
(**Specialisation:** Forensics / Nano / Pharmaceutical Chemistry)
(Effective from the Academic year 2023-24)

III SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours per Week			Examination				Credits
				Theory	Practical/Seminar	Tutorial/ Skill Development Activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	P	T/SDA					
1	HCC	22MSC31	Advanced Organic Chemistry	03	00	02	03	50	50	100	4
2	HCC	22MSC32	Advanced Analytical Techniques	03	00	02	03	50	50	100	4
3	HCC	22MSC33	Advanced Inorganic Techniques	03	00	02	03	50	50	100	4
4	MCC	22MSC34	Polymer and Composites	00	06	00	03	50	50	100	3
5	OEC	22MSC35	NMR and Mass Spectroscopy	02	00	00	03	50	50	100	2
6	SCP	22MSC36	Organic Chemistry Practical	00	06	00	03	50	50	100	3
7	SCC	22MSCXY	Elective - I	03	00	00	03	50	50	100	3
TOTAL				14	12	06	18	400	300	700	23

IV SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours per Week			Examination				Credits
				Theory	Practical/ Seminar	Tutorial/ Skill Development Activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	P	T/SDA					
1	SCC	22MSCXY	Elective - II	03	00	00	03	50	50	100	3
2	SCC	22MSCXY	Elective - III	03	00	00	03	50	50	100	3
3	SCC	22MSCXY	Elective - IV	03	00	00	03	50	50	100	3
4	Project	22MSC42	Project	00	16	00	03	100	100	200	8
TOTAL				09	16	00	12	250	250	500	17

Student has to choose all electives in one specialisation

ELECTIVES					
Forensics Chemistry		Nano Chemistry		Pharmaceutical Chemistry	
22MSCF1	Elements of Forensic Chemistry and Toxicology	22MSCN1	Synthesis and Properties of Nanomaterials	22MSCP1	Basic Medicinal chemistry
22MSCF2	Chemistry of Natural Products	22MSCN2	Characterisation of Nanomaterials	22MSCP2	Drug Design and Development
22MSCF3	Forensic Drug Analysis	22MSCN3	Carbon and advanced nanostructures	22MSCP3	Chemistry of drug action
22MSCF4	Analytical Forensic Toxicology	22MSCN4	Nanocomposites	22MSCP4	Medicinal chemistry of natural products
22MSCF5	Advanced Forensic Chemistry	22MSCN5	Organic and Inorganic Nanomaterials	22MSCP5	Advanced medicinal chemistry

Note: HCC-Hard Core Courses, SCC: Soft Core Courses. SCP-Soft Core Practicals, MCC- Mandatory Credit Course, AUD/AEC –Audit Course / Ability Enhancement Course(A pass in AUD/AEC is mandatory for the award of the degree),
L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities(Hours are for Interaction between faculty and students)