

VISVESVARAYATECHNOLOGICALUNIVERSITY,BELAGAVI.



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

15122024

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 Chemistry	03	00	02	03	50	50	100	4
4	MCC	22MSC34	Polymers and Composites	02	00	02	03	50	50	100	3
5	SCC	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	SCP	22MSC37	Analytical Chemistry Practical	00	06	00	03	50	50	100	3
8	Industry Visit	22MSC37	Industrial/Study/Technical Tour and Report	Students have to undergo mandatory Industrial/Study/Technical Tour and report to be submitted to the Department during III or IV semester							PP
TOTAL				13	12	08	18	350	350	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	22MSC4XY	Elective-I	03	00	00	03	50	50	100	3
2	SCC	22MSC4XY	Elective-II	03	00	00	03	50	50	100	3
3	SCC	22MSC4XY	Elective-III	03	00	00	03	50	50	100	3
4	Project	22MSC44	Project	00	16	00	03	100	100	200	8
TOTAL				09	16	00	12	250	250	500	17

Students have to choose any three electives in one specialisation either from Forensic Chemistry or Nano Chemistry or Pharmaceutical Chemistry

ELECTIVES						
Forensic Chemistry		Nano Chemistry		Pharmaceutical Chemistry		
22MSC411	Elements of Forensic Chemistry and Toxicology	22MSC421	Synthesis and Properties of Nanomaterials	22MSC431	Basic Medicinal Chemistry	
22MSC412	Chemistry of Natural Products	22MSC422	Characterisation of Nanomaterials	22MSC432	Drug Design and Development	
22MSC413	Forensic Drug Analysis	22MSC423	Carbon & Advanced Nanostructures	22MSC433	Chemistry of Drug Action	
22MSC414	Advanced Forensic Chemistry	22MSC424	Nanocomposites	22MSC434	Medicinal Chemistry of Natural Products	
22MSC415	Analytical Forensic Toxicology	22MSC425	Organic and Inorganic Nanomaterials	22MSC435	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)