

Swami Ramanand Teerth Marathwada University,
Nanded-431 606



CHOICE BASED CREDIT SYSTEM (CBCS)
SEMESTER PATTERN
Post Graduate (PG) Programme in Chemistry
(Affiliated Colleges)

SYLLABUS FOR
M. Sc. PART – II
ORGANIC CHEMISTRY
w. e. f. Academic year 2020-21

Program Specific Outcomes

1. Global level research opportunities to pursue Ph. D. program, targeted approach of CSIR–NET examination.
2. Enormous job opportunities at all level of chemical, pharmaceutical, food products, life oriented material industries.
3. Specific placements in R & D and synthetic division of polymer industries as well as in allied division.
4. To impart the chemistry knowledge of global standard.
5. Discipline specific competitive examinations conducted by different organization.

Choice Based Credit System (CBCS)
Draft Syllabus Prescribed for
M. Sc. Second Year, ORGANIC CHEMISTRY
Semester-III & IV

Semester	Paper	Course No.	Course	Periods / week	Total Periods	Credit
Theory III	XV	OCH-511	Advanced Spectroscopic Methods	04	60	04
	XVI	OCH-512	Natural Product	04	60	04
	XVII	OCH-513	Organic Synthesis	04	60	04
	XVIII	OCH-514	Elective Paper (Any One)			
			A] Medicinal Chemistry	04	60	04
			B] Green Chemistry	04	60	04
			C] MOOCS NPTEL Course	04	60	04
	XIX		Seminar		15	01
					Total	17
Theory IV	XX	OCH-521	Advanced Heterocyclic Chemistry	04	60	04
	XXI	OCH-522	Advanced Organic Chemistry	04	60	04
	XXII	OCH-523	Organic Synthesis: Retro synthetic Approach	04	60	04
	XXIII	OCH-524	Elective Paper (Any One)			
			A] Medicinal Chemistry	04	60	04
			B] Environmental Chemistry	04	60	04
			C] MOOCS NPTEL Course	04	60	04
	XXIV		Seminar		15	01
					Total	17
Practical III & IV	XXV	OCH-525	Mixture Analysis (Laboratory Course-V)	06	120	04
	XXVI	OCH-526	Synthesis of Organic Molecules (Laboratory Course-VI)	06	120	04
	XXVII	CH-527	Physico-organic estimation (Laboratory Course-VII)	06	120	04
	XXVIII	CH-528	Project (Laboratory Course-VIII)	06	120	04
					Total	16
					Grant	50
					Total	Credits

Instructions

- I] Each Laboratory Course of 6 Hrs duration should be completed in 6 Hrs per day.
- II] Assessment shall consist of continuous assessment (CA) and end of Semester examination (ESE).
- III] 75% for ESE and 25% for CA.
- IV] Paper-(Elective): Transfer of credit as per student choice.