

**DEVCHAND COLLEGE, ARJUNNAGAR**  
**POST GRADUATE DEPARTMENT OF CHEMISTRY**

**M.Sc. (CHEMISTRY)**

**PROGRAM SEPCIFIC OUTCOMES**

On completion of **M. Sc. (Organic Chemistry)** the candidate will have -

- Global level research opportunities to pursue Ph.D programme targeted approach of CSIR – NET examination
- Enormous job opportunities at all level of chemical , pharmaceutical , food products ,life oriented material industries
- Specific placements in R & D and synthetic division of polymer industries & Allied Division
- Discipline specific competitive exams conducted by service commission

M. Sc. I	Inorganic Chemistry	Semester-I	1The students will know the importance of nuclear chemistry and its applications.. 2. Students will transform from memorization to understanding by programmed exposure to integrated problems involving mechanism, multi-step synthetic planning, and organic spectroscopy 3.Acquire better knowledge of analytical techniques 4.Use & handling of sophisticated instruments
	Organic Chemistry	Semester-II	
	Physical Chemistry		
	Analytical Chemistry		
M. Sc. II	Organic Reaction Mechanism	Semester-III	1Understand and interpret spectra (IR, <sup>1</sup> H NMR, <sup>13</sup> C NMR, Mass Spec., and UV-VIS) of organic molecules 2. To learn the concept stereochemistry and its importance 3. To familiarize the various types of aromatic substitution reaction and their Mechanism 4. To learn what is Advanced Synthetic Techniques
	Spectroscopic Methods		
	Advanced Synthetic Techniques		
	Drugs and Heterocycles		
	Theoretical Organic Chemistry	Semester-IV	
	Stereochemistry		
	Chemistry of Natural Products		
	Applied Organic Chemistry		