LOYOLA ACADEMY

DEGREE& PG COLLEGE

ALWAL, SECUNDERABAD - 500 010, TS

(Autonomous and affiliated to Osmania University)

Re-accredited with 'A' Grade (3.2/4.0 CGPA) by NAAC (III Cycle)

A "College with Potential for Excellence" by UGC

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M.Sc. ORGANIC CHEMISTRY (Batch: 2026-28)

(CHOICE BASED CREDIT SYSTEM)

Year	Sem	Course-1 (T+P)	Course-2 (T+P)	Course-3 (T+P)	Course-4 (T+P)	Course-5 (T+P)	Course-6 (T+P)	Hours	Credits	
I	I	*Communicative Competence (AEC-1) (2+0)	Good Lab Practices (GLP) (SEC-I) (0+1)	Inorganic Chemistry -I DSC-1 (4+2)	Organic Chemistry-I DSC-2 (4+2)	Physical Chemistry-I DSC-3 (4+2)	Analytical Techniques and Spectroscopy-I DSC-4 (4+2)	36	25	AEC=1 SEC=1 DSC=4
I	II	* Artificial Intelligence in Chemistry (AEC-2) (2+0)	Chemistry in Daily Life (IDC) (2+0)	Inorganic Chemistry-II DSC-5 (4+2)	Organic Chemistry-II DSC-6 (4+2)	Physical Chemistry-II DSC-7 (4+2)	Analytical Techniques and Spectroscopy-II DSC-8 (4+2)	36	26	AEC=1 IDC=1 DSC=4
II	III	* Human Values & Professional Ethics (AEC-3) (2+0)	Scientific Research Methodology and Communications (SEC-2) (1+1) / Synthesis and Estimation of Drugs (SEC-3) (0+2)	Organic Chemistry-III DSC-9 (4+2) / Organic Chemistry-IV DSC-10 (4+2)	Organic Chemistry-V DSC-11 (4+0)	Advanced Heterocyclic Chemistry/ Advanced Natural Products (DSE-1) (3+0)	Research Project-I (0+1)	36	24	AEC=1 SEC=2 DSC=3 DSE=1
II	IV	Green Chemistry / Bioorganic Chemistry/ Combinatorial Chemistry (DSE-2) (3+0)	Organic Chemistry-VI DSC-12 (4+0)	Research Project-II (12)				36	19	DSC=1 DSE=1
Legend: 1. Ability Enhancement Course (AEC) 2. Skill Enhancement Course (SEC) 3. Interdisciplinary Course (IDC) 4. Discipline-Specific Core (DSC) 5. Discipline-Specific Elective (DSE) 6. Research Project (RP)					: 03 : 03 : 01 : 12 : 02 : 02		**Total**	**144**	**94**	

*Ability Enhancement Course (AEC) Marks are not included in CGPA Score in the main Certificate, but it is compulsory to pass the examination

$Interdisciplinary Course (IDC): Chemistry in Daily Life paper will be offered to students of other non-chemistry PG departments of school of science.

@One NPTEL Course is highly recommended per academic year for which credit will be awarded in semester memo