

# Indrashil University



## Department of Chemistry School of Science

**M.Sc. 2024-2026 Sem I-IV**

**Organic Chemistry**

**Course Profile**

**Academic Year: 2024 – 2025**

**Course Structure M.Sc. Organic Chemistry Semesters I to IV**

<b>SEMESTER: I</b>	<b>MINIMUM SEMESTER CREDIT REQUIRED: 20 CUMULATIVE SEMESTER CREDITS REQUIRED: 20</b>		
<b>SUBJECT NO.</b>	<b>SUBJECT NAME</b>	<b>L-T-P</b>	<b>CREDITS</b>
CH4 101	ORGANIC CHEMISTRY - I	3-0-0	3
CH4 102	INORGANIC CHEMISTRY - I	3-0-0	3
CH4 103	PHYSICAL CHEMISTRY - I	3-0-0	3
CH4 104	ANALYTICAL CHEMISTRY - I	3-0-0	3
CH4 105	ORGANIC CHEMISTRY LABORATORY - I	0-0-8	4
CH4 106	INORGANIC CHEMISTRY LABORATORY	0-0-8	4
Total		12L-16P	20

<b>SEMESTER: II</b>	<b>MINIMUM SEMESTER CREDIT REQUIRED: 43 CUMULATIVE SEMESTER CREDITS REQUIRED: 23</b>		
<b>SUBJECT CODES</b>	<b>SUBJECT NAME</b>	<b>L-T-P</b>	<b>CREDITS</b>
CH4 201	ORGANIC CHEMISTRY - II	3-0-0	3
CH4 202	INORGANIC CHEMISTRY - II	3-0-0	3
CH4 203	PHYSICAL CHEMISTRY - II	3-0-0	3
CH4 204	BIOORGANIC CHEMISTRY	3-0-0	3
CH4 205	SPECTROSCOPY - I	3-0-0	3
CH4 206	ANALYTICAL TECHNIQUES LABORATORY	0-0-8	4
CH4 207	PHYSICAL CHEMISTRY LABORATORY	0-0-8	4
Total		15L-16P	23

<b>SEMESTER: III</b>	<b>MINIMUM SEMESTER CREDIT REQUIRED: 24 CUMULATIVE SEMESTER CREDITS REQUIRED: 67</b>		
<b>SUBJECT CODES</b>	<b>SUBJECT NAMES</b>	<b>L-T-P</b>	<b>CREDITS</b>
CH5 OR101	ORGANIC CHEMISTRY - III: ORGANOMETALLIC CHEMISTRY AND ASYMMETRIC SYNTHESIS	3-0-0	3
CH5 OR102	ORGANIC CHEMISTRY - IV: CHEMISTRY OF NATURAL PRODUCTS	3-0-0	3
CH5 OR103	ORGANIC CHEMISTRY - V: PERICYCLIC REACTIONS AND ORGANIC PHOTOCHEMISTRY	3-0-0	3
CH5 104	SPECTROSCOPY-II	3-0-0	3
CH5 105	CHEMICAL DATA ANALYSIS LABORATORY	0-0-8	4
CH5 OR106	ADVANCED ORGANIC CHEMISTRY LAB	0-0-8	4
	<u>ELECTIVE-I</u>	2-0-0	2
	<u>ELECTIVE-II</u>	2-0-0	2
Total		16L-16P	24

<b>SEMESTER: IV</b>	<b>MINIMUM SEMESTER CREDIT REQUIRED: 15 CUMULATIVE SEMESTER CREDITS REQUIRED: 82</b>		
<b>SUBJECT CODES</b>	<b>SUBJECT NAMES</b>	<b>L-T-P</b>	<b>CREDITS</b>
CH5 OR201	RESEARCH OR INDUSTRIAL PROJECT	0-0-20	10
CH5 OR202	PROJECT REPORT	3-0-0	3
CH5 OR203	PROJECT PRESENTATION	2-0-0	2
Total		5L-20P	15

**Semester 3: LIST OF AVAILABLE SUBJECTS FOR ELECTIVE I, II**

<b>SUBJECT CODES</b>	<b>SUBJECT NAMES</b>	<b>L-T-P</b>	<b>CREDIT</b>
CH5 EOR1	MEDICINAL CHEMISTRY	2-0-0	2
CH5 EOR2	APPLICATIONS OF COMPUTER IN CHEMISTRY	2-0-0	2
CH5 EOR3	SUPRAMOLECULAR CHEMISTRY	2-0-0	2
CH5 EOR4	INDUSTRIAL CHEMICAL METHODS AND ANALYSIS	2-0-0	2

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