

# Indrashil University



## Department of Chemistry School of Science

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

**Analytical Chemistry**

**Course Profile**

**Academic Year: 2024 – 2025**

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

<b>SEMESTER: I</b>		<b>MINIMUM SEMESTER CREDIT REQUIRED: 20</b>	
		<b>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	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</b>	
		<b>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	BIO-ORGANIC 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		16L-16P	23

<b>SEMESTER: III</b>		<b>MINIMUM SEMESTER CREDIT REQUIRED: 24</b>	
		<b>CUMULATIVE SEMESTER CREDITS REQUIRED: 67</b>	
<b>SUBJECT CODES</b>	<b>SUBJECT NAMES</b>	<b>L-T-P</b>	<b>CREDITS</b>
CH5 AN101	ANALYTICAL CHEMISTRY - II: PHARMACEUTICAL ANALYSIS AND MEASUREMENTS	3-0-0	3
CH5 AN102	ANALYTICAL CHEMISTRY - III: ELECTROANALYTICAL TECHNIQUES	3-0-0	3
CH5 AN103	ANALYTICAL CHEMISTRY-IV: QA QC VALIDATION	3-0-0	3
CH5 104	SPECTROSCOPY-II	3-0-0	3
CH5 105	CHEMICAL DATA ANALYSIS LABORATORY	0-0-8	4
CH5 AN106	ANALYTICAL CHEMISTRY LABORATORY	0-0-8	4
	<u>ELECTIVE-I</u>	2-0-0	2
	<u>ELECTIVE-II</u>	2-0-0	2
Total		19L-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 AN201	RESEARCH OR INDUSTRIAL PROJECT	0-0-20	10
CH5 AN202	PROJECT REPORT	3-0-0	3
CH5 AN203	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 EAN1	SEPARATION METHODS	2-0-0	2
CH5 EAN2	APPLICATIONS OF COMPUTER IN CHEMISTRY	2-0-0	2
CH5 EAN3	SUPRAMOLECULAR CHEMISTRY	2-0-0	2
CH5 EAN4	APPLIED ANALYSIS AND GREEN ANALYTICAL CHEMISTRY	2-0-0	2

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