

ANDHRA UNIVERSITY
Department of Engineering Chemistry, AU College of Engineering (A)
5 YEAR INTEGRATED M.Sc. CHEMISTRY
(Specialization: APPLIED CHEMISTRY)
 (With Effect from the Admitted Batch of 2016-2017 Academic Year)
SCHEME OF INSTRUCTION AND EXAMINATION
SEMESTER VII (15 Weeks Duration)

Code Number	Course Title	Teaching/ Lab hours per week	Allotment of Marks		Total Marks	Credits
			External	Internal		
7T1/ Paper – I	Inorganic Chemistry	4	70	30	100	4
7T2/ Paper – II	Organic Chemistry	4	70	30	100	4
7T3/ Paper – III	Physical Chemistry	4	70	30	100	4
7T4/ Paper – IV	Quantum Chemistry	4	70	30	100	4
7T5/ Paper – V	Mineral Based Industries And Corrosion	4	70	30	100	4
7P1/ Practical- I	Inorganic Chemistry Practical	6	100	50	150	4
7P2/ Practical- II	Organic Chemistry Practical	6	100	50	150	4
7S1	Seminar Presentation	-----	-----	50	50	2
				Total	850	30

Total Credits for VII Semester
Theory : 20
Practical & Seminar : 10
Total : 30

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SCHEME OF INSTRUCTION AND EXAMINATION
SEMESTER VIII (15 Weeks Duration)

Code Number	Course	Teaching/ Lab hours per week	Allotment of Marks		Total Marks	Credits
			External	Internal		
8T1/ Paper – I	Nano Chemistry	4	70	30	100	4
8T2/ Paper – II	Engineering Chemistry	4	70	30	100	4
8T3/ Paper – III	Green Chemistry	4	70	30	100	4
8T4/ Paper – IV	Industries Based On Organic Raw Materials	4	70	30	100	4
8T5/ Paper – V	Fine Chemicals	4	70	30	100	4
8P1/ Practical- I	Physical Chemistry Practical	6	100	50	150	4
8P2/ Practical- II	Applied Chemistry Practical	6	100	50	150	4
8S1	Seminar Presentation	--	-----	50	50	2
				Total	850	30

Total Credits for VIII Semester

Theory : 20
Practical & Seminar : 10
Total : 30

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SCHEME OF INSTRUCTION AND EXAMINATION
SEMESTER IX (15 Weeks Duration)

Code Number	Course	Teaching/ Lab hours per week	Allotment of Marks External		Total Marks	Credits
			External	Internal		
9T1/ Paper – I	Instrumental Methods of Analysis	4	70	30	100	4
9T2/ Paper – II	Organic Spectroscopy	4	70	30	100	4
9T3/ Paper – III	Organic Synthesis	4	70	30	100	4
9T4/ Paper – IV	Polymers and Plastics	4	70	30	100	4
9T5/ Paper – V	Medicinal Chemistry	4	70	30	100	4
9P1/ Practical- I	Organic Chemistry Practical	6	100	50	150	4
9P2/ Practical- II	Quantitative Analysis Practical	6	100	50	150	4
9S1	Seminar Presentation			50	50	2
				Total	850	30

Total Credits for IX Semester

Theory : 20
Practical & Seminar : 10
Total : 30

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SCHEME OF INSTRUCTION AND EXAMINATION
SEMESTER X (15 Weeks Duration)

Code Number	Course	Teaching/ Lab hours per week	Allotment of Marks External		Total Marks	Credits
			External	Internal		
10P1/ Practical- I	Project Work In an Industry / R&D Unit	--	100	100	200	15
				Total	200	15

Total Credits for VIII Semester

Theory	: 00
Project Work	: 15
Total	: 15