

B.Sc. CHEMISTRY COURSE STRUCTURE 2024-25

First Semester Structure

S.No	Subject / paper	Title	Department	Total hrs/week
1.	Major Paper I Course Code: BSCM24101	Essentials and applications of Mathematical, Physical and Chemical Sciences	Mathematics, Physics, Chemistry & Computer science	05
2.	Major Paper II Course Code: BSCM24102	Advances in Mathematical, Physical and Chemical Sciences	Mathematic, Physics, Chemistry & Computer Science	05

Second Semester Course Structure

S.No	Subject/paper	Course Code	Title	Department	Total hrs /week	Credits
1.	Major III	CHE24201	General & Inorganic Chemistry	Chemistry	3	3
2	Major-III Practical (General)	CHE24201P	Analysis of Simple Salt	Chemistry	2	1
3	Major-IV (General)	CHE24202	Inorganic Chemistry	Chemistry	3	3
4	Major-IV Practical (General)	CHE24202P	Preparation of Inorganic Compounds	Chemistry	2	1
5	Minor I	CHE24201	General & Inorganic Chemistry	Chemistry	3	3
6	Minor Practical	CHE24201P	Analysis of Simple Salt	Chemistry	2	1

A.S.D. GOVT. DEGREE COLLEGE FOR WOMEN (A) KAKINADA

Affiliated to Adikavi Nannaya University, Rajahmundry

THIRD SEMESTER COURSE STRUCTURE

S.No.	Paper	Course Code	Title of the Course	Hrs/Week	Max. Marks	Marks in SEE	Marks In CIA	Credits
Semester - III								
1	5	CHE23301	Course 5: Fundamentals in Organic Chemistry	03	100	60	40	3
		CHE23301P	Fundamentals in Organic Chemistry - (P)	02	50	40	10	1
2	6	CHE23302	Course 6: Organic Chemistry (Halogen & Oxygen Organic Compounds)	03	100	60	40	3
		CHE23302P	Organic Chemistry (Halogen & Oxygen Organic Compounds)- (P)	02	50	40	10	1
3	7	CHE23303	Course 7: Physical Chemistry-I (Solutions and Electrochemistry)	03	100	60	40	3
		CHE23303P	Physical Chemistry-I (Solutions and Electrochemistry)-(P)	02	50	40	10	1
4	8	CHE23304	Course 8: Inorganic & Physical Chemistry	03	100	60	40	3
		CHE23304P	Inorganic & Physical Chemistry-(P)	02	50	40	10	1

FOURTH SEMESTER COURSE STRUCTURE

S.No.	PAPER	Course Code	Title of the Course	Hrs/ Week	Max. Marks	Marks in SEE	Marks in CIA	Credits
1	9	CHE23401	Course 9: Physical Chemistry-II (States of Matter, Phase Rule & surface Chemistry)	03	100	60	40	3
		CHE23401P	Physical Chemistry-II (States of Matter, Phase Rule & surface Chemistry)-(P)	02	50	40	10	1
2	10	CHE23402	Course 10: General & Physical Chemistry	03	100	60	40	3
		CHE23402P	General & Physical Chemistry-(P)	02	50	40	10	2
3	11	CHE23403	Course 11: Nitrogen containing Organic Compounds & Spectroscopy	03	100	60	40	3
		CHE23403P	Nitrogen containing Organic Compounds & Spectroscopy-(P)	02	50	40	10	2

SEMESTER – V COURSE STRUCTURE

Semester – V								
S.No.	PAPER	Course Code	Title of the Course	Hrs/ Week	Max. Marks	Marks in SEE	Mark in CIA	Credits
1	VI -A	CHE-114A	Synthetic Organic Chemistry	03	100	60	40	3
		CHE-114AP	Practical-VIA: Synthetic Organic Chemistry	02	50	40	10	2
2	VII-A	CHE-115A	Analysis of Organic Compounds	03	100	60	40	3
		CHE-115AP	Practical-VIIA: Analysis of Organic Compounds	02	50	40	10	2
3	VI-B	CHE-114B	Analytical Methods in Chemistry-1	03	100	60	40	3
		CHE-114BP	Practical-VIB: Analytical Methods in Chemistry-1	02	50	40	10	2
4	VII-B	CHE-115B	Analytical Methods in Chemistry-2	03	100	60	40	3
		CHE-115BP	Practical-VIIB: Analytical Methods in Chemistry-2	02	50	40	10	2
5	VI-D	CHE205305-6D	Environmental Chemistry	03	100	60	40	3
		CHE205305-6DP	Environmental Chemistry -P	02	50	40	10	2
6	VII-D	CHE205306-7D	Green Chemistry and Nanotechnology	03	100	60	40	3
		CHE205306-7DP	Green Chemistry and Nanotechnology -P	02	50	40	10	2

SEMESTER – VI LONGTERM INTERNSHIP