

JINNAH UNIVERSITY FOR WOMEN
DEPARTMENT OF CHEMISTRY
Ph.D. COURSE SCHEME

SEMESTER – I

Category: Organic Chemistry

S. No.	Course Code	Course Title	Credit Hour
1.	CHM 6111	Organic Polymer Chemistry	3+0
2.	CHM 6121	Advances in Heterocyclic Chemistry	3+0
3.	CHM 7111	Medicinal Chemistry	3+0

Category: Physical Chemistry

S. No.	Course Code	Course Title	Credit Hour
1.	CHM 6311	Polymers and advanced composite materials.	3+0
2.	CHM 6321	Nanomaterials	3+0
3.	CHM 7311	Advanced molecular spectroscopy	3+0
4.	CHM 7321	Advanced statistical thermodynamics	3+0

Category: Analytical/Inorganic Chemistry

S. No.	Course Code	Course Title	Credit Hour
1.	CHM 7511	Solid State Chemistry	3+0
2.	CHM 6711	Green Chemistry and Technology	3+0
3.	CHM 6711	Bioanalytical Chemistry	3+0
4.	CHM 7711	Thermal Analysis	3+0

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SEMESTER – II

Category: Organic Chemistry

S. No.	Course Code	Course Title	Credit Hour
1.	CHM 6112	Modern Trends in Asymmetric Synthesis	3+0
2.	CHM 6122	Dyes and Pigments	3+0
3.	CHM 7112	Pericyclic Chemistry	3+0
4.	CHM 7122	Phytochemical Techniques	3+0

Category: Physical Chemistry

S. No.	Course Code	Course Title	Credit Hour
1.	CHM-6312	Magnetic Spin Dynamics	3+0
2.	CHM 6322	Advanced solution chemistry	3+0
3.	CHM 7312	Advanced solid-state chemistry and characterization techniques	3+0
4.	CHM 7322	Advanced electrochemistry	3+0

Category: Analytical/Inorganic Chemistry

S. No.	Course Code	Course Title	Credit Hour
1.	CHM 6522	Forensic Chemistry	3+0
2.	CHM 7522	Application of optical properties of coordination compounds	3+0
3.	CHM 6732	Advanced Electroanalytical Techniques	3+0
4.	CHM 7722	Environmental Analytical Chemistry	3+0