COURSE STRUCTURE for M.Sc.(Applied Chemistry)

(Three semesters – Theory & One Semester – Thesis/Dissertation)

Course code	Course	Units
Semester I		
SAC 1001	Advanced Physical Chemistry	1.0
SAC 1003	Organic Reaction Mechanisms	1.0
SAC 1005	Metal Chemistry	1.0
SAC 1007	Modern Spectroscopy	1.0
SAC 1011	Environmental Chemistry	1.0
SAC 1002	Computational Chemistry lab	0.5
SAC 1004	Organic Chemistry lab	0.5
Semester II		
SAC 2001	Theoretical Chemistry	1.0
SAC 2003	Synthetic Organic Chemistry	1.0
SAC 2005	Advanced Analytical Techniques	1.0
SAC 2007	Applications of Spectroscopy	1.0
SAC 2009	Environmental Monitoring & control	1.0
SAC 2002	Inorganic Chemistry Lab	0.5
SAC 2004	Physical chemistry Lab	0.5
Semester III		
SAC 3001	Bioinorganic & organometallic Chemistry	1.0
SAC 3003	Industrial Chemistry	1.0
SAC 3005	*Advanced Organic Chemistry*	1.0
SAC 3007 to SAC 3021	Elective-I	1.0
	Elective-II	1.0
SAC 3002	Industrial Chemistry Lab	0.5
SAC 3004	Advanced Characterization Lab	0.5
Semester IV		
SAC 4001	Dissertation/Thesis	6.0

Total: 24.0

List of Electives

1. Polymer chemistry SAC 3007
2. Medicinal Chemistry SAC 3009
3. Supramolecular Chemistry SAC 3011
4. Computational Chemistry & Drug design SAC 3013
5. Chemistry of Environmental Pollutants SAC 3015
6. Aquatic Chemistry SAC 3017
7. Atmospheric Chemistry & Climate Change SAC 3019
8. Env. Impact Assessment 3021