Courses offered for M.Sc. Chemistry Programme under CSS Patten in Affiliated Colleges (2019 onwards)

Semester	Course Code	Course Title	Instruction/ Week	Credits
I	CHE1C01	Quantum Mechanics and Computational Chemistry	4	4
	CHE1C02	Elementary inorganic chemistry	3	4
	CHE1C03	Structure and reactivity of organic Compounds	3	4
	CHE1C04	Thermodynamics, kinetics and catalysis	3	4
	CHE1L01	Inorganic chemistry practical I	4	-
	CHE1L02	Organic chemistry Practical I	4	-
	CHE1L03	Physical chemistry practical I	4	-
		Total credits:	Core	16
II	CHE2C05	Group theory and Chemical Bonding	3	3
	CHE2C06	Coordination chemistry	3	3
	CHE2C07	Organic reaction mechanisms	3	3
	CHE2C08	Electrochemistry, solid state chemistry and Statistical Thermodynamics	3	3
	CHE2L04	Inorganic chemistry practical II	4	3
	CHE2L05	Organic chemistry practical II	4	3
	CHE2L06	Physical chemistry practical II	4	3
		Total credits:	Core	21
III	CHE3C09	Molecular spectroscopy	4	4
	CHE3C10	Organometallic & Bioinorganic chemistry	3	4
	CHE3C11	Reagents and Transformations in Organic Chemistry	3	4
	CHE3L07	Inorganic chemistry practical III	4	
	CHE3L08	Organic chemistry practical III	4	
	CHE3L09	Physical chemistry practical III	4	
	CHE3E01	Synthetic organic chemistry(Elective)	3	4
	CHE3E02	Computational chemistry(Elective)	3	4
	CHE3E03	Green and Nanochemistry(Elective)	3	4
		Total Credits:	Core	12
			Elective	4

	CHE4C12	Instrumental Methods of Analysis	4	4
	CHE4L10	Inorganic Chemistry Practical IV	3	3
	CHE4L11	Organic Chemistry Practical IV	3	3
	CHE4L12	Physical Chemistry Practical IV	3	3
	CHE4E04	Petrochemicals and Cosmetics(Elective)	4	4
	CHE4E05	Industrial Catalysis(Elective)	4	4
	CHE4E06	Natural Products & Polymers(Elective)	4	4
	CHE4E07	Material Science(Elective)	4	4
	CHE4E08	Organometallic Chemistry	4	4
	CHE4P01	Research Project	3	4
	CHE4V01	Viva Voce		2
		Total Credits:		
			Core	13
			Elective	8
			Project Viva	4 2
TOTAL CF	REDITS OF '	THE PROGRAMME		-
CORE				
ELECTIVE				
PROJECT				4 2
VIVAVOCE				
TOTALCREDITS				