

**SCHOOL OF CHEMICAL SCIENCES,
SOLAPUR UNIVERSITY, SOLAPUR**

**M.Sc. Polymer Chemistry
Choice Based Credit System
Revised w.e.f June 2018-19**

Semester	Code	Title of the Paper	Semester exam			L	T	P	Credits
I		Hard core	Theory	IA	Total				
P.C.	HCT1.1	Inorganic Chemistry -I	70	30	100	4		-	4
	HCT1.2	Organic Chemistry -I	70	30	100	4		-	4
	HCT1.3	Physical Chemistry -I	70	30	100	4		-	4
		Soft Core (Any one)							
	SCT1.1	Analytical Chemistry -I	70	30	100	4		0	4
	SCT1.2	Chemistry in Life Sciences	70	30	100	4		0	
	T1	Tutorial					1		1
		Practical							
	HCT 1.1	Practical HCP 1.1	35	15	50	-	-	2	6
	HCP1.2	Practical HCP 1.2	35	15	50	-	-	2	
	HCP1.3	Practical HCP 1.3	35	15	50	-	-	2	
		Soft core (Any one)							
	SCP1.1	Practical SCP1.1	35	15	50	-	-	2	2
	SCP1.2	Practical SCP1.2	35	15	50	-	-	2	
		Total for first semester	420	180	600				25
II		Hard core							
P.C.	HCT2.1	Inorganic Chemistry –II	70	30	100	4		-	4
	HCT2.2	Organic Chemistry –II	70	30	100	4		-	4
	* HCT/ P2.3	Communicate in English Confidently	55	20	75	3		1	3
		Soft core (Any one)							
	SCT2.1	Physical Chemistry –II	70	30	100	4		-	4
	SCT2.2	Green Chemistry	70	30	100	4		-	
		Open elective (Any one)							
	OET2.1	Medicinal Chemistry	70	30	100	4		-	4
	OET2.2	Instrumental methods of analysis	70	30	100	4		-	
	T2	Tutorial			25		1		1
		Practical							
	HCP 2.1	Practical HCP 2.1	35	15	50	-	-	2	4
	HCP2.2	Practical HCP 2.2	35	15	50	-	-	2	
		Soft core (Any one)							
	SCP2.1	Practical SCP2.1	35	15	50	-	-	2	2
	SCP2.2	Practical SCP2.2	35	15	50	-	-	2	
		Open elective (Any one)							
	OEP2.1	Practical OEP2.1	35	15	50	-	-	2	2
	OEP2.2	Practical OEP2.2	35	15	50	-	-	2	
		Total for second semester	475	200	675				28

III		Hard core							
P.C.	HCT3.1	Fundamentals of Feedstocks and Polymers	70	30	100	4	1	-	4
	HCT3.2	Morphology and Physical Chemistry of Polymers	70	30	100	4		-	4
	*HCT/P3.3	Technical English Communication Skills	55	20	75	3		1	3
		Soft core (Any one)							
	SCT3.1	Basic Concepts of Polymerization	70	30	100	4		-	4
	SCT3.2	Natural and Synthetic Textile fibers and Resins	70	30	100	4		-	
		Open elective (Any one)							
	OET3.1	Spectral and Instrumental Analysis of Polymers	70	30	100	4		-	4
	OET3.2	Unit operations of chemical Engineering	70	30	100	4		-	
	T3	Tutorial			25			1	1
		Practical							
	HCP 3.1	Practical HCP 3.1	35	15	50	-	-	2	2
	HCP3.2	Practical HCP 3.2	35	15	50	-	-	2	2
	SCP 3.1	Practical SCP 3.1	35	15	50	-	-	2	2
		Open elective (Any one)							
	OEP3.1	Practical OEP3.1	35	15	50	-	-	2	2
	OEP3.2	Practical OEP3.2	35	15	50	-	-	2	
		Total for third semester	475	200	675				28
IV		Hard core							
P.C.	HCT4.1	Step-growth Polymers	70	30	100	4	1	-	4
	HCT4.2	Stereoregular Polymers and Modern Polymerisation Methods	70	30	100	4		-	4
	HCT 4.3	Selected Topics in Polymers	70	30	100	4		-	4
		Soft core (Any one)						-	4
	SCT4.1	Processing Technology and Polymer Properties	70	30	100	4		-	
	SCT4.2	Inorganic and Biopolymers	70	30	100	4		-	
	T4	Tutorial			25		1	1	
		Practical							
	HCP 4.1	Practical HCP 4.1	35	15	50	-	-	2	2
	HCP4.2	Practical HCP 4.2	35	15	50	-	-	2	2
	SCP 4.3	Practical SCP 4.3	35	15	50	-	-	2	2
	HCMP4.4	Major Project	35	15	50	-	-	2	2
		Total for four semester	420	180	600				25
	Total								100

L = Lecture T = Tutorials P = Practical

4 Credits of Theory = 4 Hours of teaching per week

2 Credit of Practical = 4 hours per week

HCT = Hard core theory, SCT = Soft core theory

HCP = Hard core practical, SCP = Soft core practical

OET = Open elective theory, OEP = Open elective practical

HCMP = Hard core main project

HCT/P=Hard Core Theory / Project

* HCT/P is mandatory for every student who seeks M.Sc. / M.A./ M.C.A. degree and has to earn 3 credits in Sem.-II & Sem.-III. In Order to pass in the above course the student should secure at least 27 marks for theory and 10 marks for Internal Assessment. However these credits will not be accumulated for CGPA. In case student fails in these courses he will be declared as fail.