

**SCHOOL OF CHEMICAL SCIENCES,
SOLAPUR UNIVERSITY, SOLAPUR
M.Sc. Organic 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				
O.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	
		Practicals							
	HCP1.1	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	
	T1	Tutorial					25		1
		Total for first semester	420	180	600		25		25
II		Hard core							
O.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 -I	70	30	100	4		-	4
	OET2.2	Instrumental Methods of Analysis	70	30	100	4		-	
		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	
	T2	Tutorial					25		
		Total for second semester	475	200	675		25		28

III		Hard core							
O.C.	HCT3.1	Advanced Organic Chemistry-I	70	30	100	4	--	-	4
	HCT3.2	Advanced Spectroscopic Methods	70	30	100	4		-	4
	*HCT/ P3.3	Technical English Communication Skills	55	20	75	3		1	3
		Soft core (Any one)							
	SCT3.1	Photochemistry and Pericyclic Reactions	70	30	100	4		-	4
	SCT3.2	Medicinal Chemistry-II	70	30	100	4		-	
		Open elective (Any one)							
	OET3.1	Drugs and Heterocycles	70	30	100	4		-	4
	OET3.2	Unit operations of chemical Engineering	70	30	100	4		-	
		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	
	T3	Tutorial					25		
		Total for third semester	475	200	675		25		28
IV		Hard core							
O.C.	HCT4.1	Advanced Organic Chemistry-II	70	30	100	4	--	-	4
	HCT4.2	Stereo Chemistry	70	30	100	4		-	4
	HCT 4.3	Chemistry of Natural Products	70	30	100	4		-	4
		Soft core (Any one)						-	4
	SCT4.1	Applied Organic Chemistry	70	30	100	4		-	
	SCT4.2	Chemical Industries	70	30	100	4		-	
		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
	T4	Tutorial					25		
		Total for four semester	420	180	600		25		25
	Total = 2500								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.