

STRUCTURE OF THE SYLLABUS FOR 2 YEAR PG PROGRAMME

SCHOOL NAME - ROYAL SCHOOL OF APPLIED AND PURE SCIENCES (RSAPS)

DEPARTMENT NAME - CHEMISTRY

PROGRAMME NAME - M.Sc. in CHEMISTRY

1 st SEMESTER				
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
CHY014C101	Physical Chemistry I	400	4	4-0-0
CHY014C102	Organic Chemistry I	400	4	4-0-0
CHY014C103	Quantum Chemistry	400	4	4-0-0
CHY014C104	Inorganic Chemistry I	400	4	4-0-0
CHY014C114	Inorganic Chemistry Lab	400	4	0-0-4
SWAYAM CODE 1	Swayam 1	400	3/4/5	
TOTAL CREDIT FOR 1 st SEMESTER			20 + 3/4/5	
2 nd SEMESTER				
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
CHY014C201	Physical Chemistry II	400	4	4-0-0
CHY014C202	Inorganic Chemistry II	400	4	4-0-0
CHY014C203	Organic Chemistry II	400	4	4-0-0
CHY014C214	Organic Chemistry Lab	400	4	0-0-4
CHY014C215	Physical Chemistry Lab	400	4	0-0-4
SWAYAM CODE 2	Swayam 2	400	3/4/5	
TOTAL CREDIT FOR 2 nd SEMESTER			20 + 3/4/5	
TOTAL CREDIT FOR 1 st YEAR = 40 + 6/8/10				
3 rd SEMESTER				
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
CHY014C301	Analytical Chemistry	500	4	4-0-0
CHY014C302	Biochemistry	500	4	4-0-0
CHY014C303	Spectroscopy I	500	4	4-0-0
CHY014C304	Environmental & Green Chemistry	500	4	4-0-0
CHY014C325	Project -I	500	8	0-0-0
SWAYAM CODE 3	Swayam 3	500	3/4/5	
TOTAL CREDIT FOR 3 rd SEMESTER			24 + 3/4/5	
OR 3 rd SEMESTER (For students with 3 rd and 4 th Semester Research)				
	RESEARCH PROJECT – PHASE I	500	24 + 3/4/5	0-0-0
4 th SEMESTER				
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
	Dissertation (students with research in 4 th Sem)			
(for 'Coursework only' in lieu of Research)				
CHY014C401	Spectroscopy II	500	4	4-0-0
CHY014C402	Chemical Kinetics & Catalysis	500	4	4-0-0
CHY014C403	Heterocyclic Compounds & Medicinal Chemistry	500	4	4-0-0
CHY014C405	Organometallic Chemistry & Catalysis	500	4	4-0-0
CHY014C426	Project -II	500	12	0-0-0
SWAYAM CODE 4	Swayam 4	500	3/4/5	
OR 4 th SEMESTER (For students with 3 rd and 4 th Semester Research)				
	RESEARCH PROJECT – PHASE 2	500	28 + 3/4/5	0-0-0
TOTAL CREDIT FOR 2 nd YEAR = 52+ 6/8/10				