

M.Sc. Analytical Chemistry Part-II
Course Structure (According to NEP-2020 of SPPU)

Semester-III				
Major Compulsory				
1	Major Theory Paper-1	CHA-601 MJ	Major Core	4C-T
2	Major Theory Paper-2	CHA-602 MJ	Major Core	4C-T
3	Major Theory Paper-3	CHA-603 MJ	Major Core	2C-T
4	Major Practical paper-1	CHA-604 MJP	Major Core	2C-P
5	Major Practical paper-2	CHA-605 MJP	Major Core	2C-P
* Major Elective (any one theory and any one practical paper)				
6	Major Elective Paper-1	CHA-610(A) MJ	Major Elective Theory	2C-T
	Major Elective Paper-2	CHA-610(B) MJ		
	Major Elective Paper-3	CHA-610(C) MJ		
7	Major Elective Practical paper-1	CHA-611(A) MJP	Major Elective practical	2C-P
	Major Elective Practical paper-2	CHA-611(B) MJP		
	Major Elective Practical paper-3	CHA-611(C) MJP		
Research Project Compulsory				
8	Research Project (RP)-1	CHA-631 RP	Research Project	4C-P
Semester-IV				
Major Compulsory				
1	Major Theory Paper-4	CHA-651 MJ	Major Core	4C-T
2	Major Theory Paper-5	CHA-652 MJ	Major Core	4C-T
3	Major Theory Paper-6	CHA-653 MJP	Major Core	2C-P
4	Major Practical Paper-7	CHA-654 MJP	Major Core	2C-P
Major Elective Theory: any two theory papers				
6	Major Theory Paper-4	CHA-660 (A) MJ	Major elective Theory (2-Credit each)	4C-T (2C-T+ 2C-T)
	Major Theory Paper-5	CHA-660 (B) MJ		
	Major Theory Paper-6	CHA-660 (C) MJ		
Research Project Compulsory				
6	Research Project (RP)-2	CHA-681 RP	Research Project	6C-P

M. Sc.-II Analytical Chemistry Paper Description

SEMESTER-III				
Major Compulsory				
1	Thermal and Extraction Techniques in Analytical Chemistry	CHA-601 MJ	Major Core	4C-T
2	Advanced Chromatographic Method of Chemical Analysis	CHA-602 MJ	Major Core	4C-T
3	Applied Electro-analytical Techniques	CHA-603 MJ	Major Core	2C-T
4	Advanced Instrumental Methods of Chemical Analysis	CHA-604 MJP	Major Core	2C-P
5	Analytical Method Development	CHA-605 MJP	Major Core	2C-P
* Major Elective: any one theory + any one practical				
6	Analytical Methods to Examining Water and Soil	CHA-606(A) MJ	Major elective theory	2C-T
	Clinical Analytical Chemistry	CHA-606(B) MJ		
	Forensic Analytical Chemistry	CHA-606(C) MJ		
7	Measuring Water and Soil Quality	CHA-607(A) MJP	Major elective Practical	2C-P
	Practical Forensic Chemistry	CHA-607(B) MJP		
	Practical Clinical Biochemistry	CHA-607(C) MJP		
* Select relevant pair of theory and practical from major elective courses				
Research Project Compulsory				
8	Research Project (RP)	CHA-608 RP	Research Project	4C-P
SEMETER-IV				
Major Compulsory				
1	Applied Analytical Spectroscopy	CHA-651 MJ	Major Core	4C-T
2	Chemical Methods of Pharmaceutical Quality Control	CHA-652 MJ	Major Core	4C-T
3	Pharmaceutical Analysis	CHA-653 MJP	Major Core	2C-P
4	Methods of Food Quality Determination	CHA-654 MJP	Major Core	2C-P
Major Elective Theory: Any Two Theory				
5	Bioanalytical Chemistry	CHA-655(A) MJ	Major elective Theory (2-credit each)	4C-T (2C-T+ 2C-T)
	Automation and Sensor	CHA-655(B) MJ		
	Analytical Techniques For Polymer Characterization	CHA-655(C) MJ		
Research Project Compulsory				
7	Research Project (RP)	CHA-656 RP	Research Project	6C-P