



UNIVERSITY OF JAMMU

(NAAC ACCREDITED 'A ++' GRADE' UNIVERSITY)
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

Academic Section

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NOTIFICATION

In partial modification of this office Notification No. F.Acd/II/25/3401-20 dated 11.06.2025, it is hereby notified for the information of all concerned that the amended Course Structure of the Syllabi and Courses of Studies of the Subject of **Chemistry** for One and Two Year PG Programme as per NEP-2020 for Semester I to IV (as given in the annexure).

The Syllabi of the courses are also available on the University website:
www.jammuuniversity.in

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DEAN ACADEMIC AFFAIRS

No. F. Acd/II/26/5742-70
Dated: 21/08/2026

Copy for information and necessary action to:

1. Dean, Faculty of Science
- ✓ 2. Convener, Board of Studies in Chemistry
3. All members of the Board of Studies
4. Joint Registrar (Evaluation/P.G. Exam.)
5. Programmer, Computer Section, Examination Wing


Assistant Registrar (Academic)

MODIFIED COURSE STRUCTURE FOR TWO YEAR PG PROGRAMME

S. No.	Course No.	Course Title	No. of Credits	Course Type		Marks		Nature of Course			SWAYAM/ MOOC	Vocational Course	Research Project/ Summer Internship / Dissertation
				Credits Level	Credit Point	Theory	Practical	Global	National	Regional			
Semester-I													
1.	P2CHTC101	Inorganic Chemistry-I	4	6.5	26	100	-	Global	-	-	-	-	-
2.	P2CHTC102	Quantum Chemistry	4	6.5	26	100	-	Global	-	-	-	-	-
3.	P2CHTC103	Organic Chemistry-I	4	6.5	26	100	-	Global	-	-	-	-	-
4.	P2CHTC104	Principles of Spectroscopy	4	6.5	26	100	-	Global	-	-	-	-	-
5.	P2CHPC105	Practical Course in Inorganic, Organic & Physical Chemistry-I	4	6.5	26	-	100	Global	-	-	Skill	-	-
		Total Credits (Semester-I)	20			500							
Semester-II													
1.	P2CHTC201	Inorganic Chemistry-II	4	6.5	26	100	-	Global	-	-	-	-	-
2.	P2CHTC202	Chemical Dynamics, Surface and Electro Chemistry	4	6.5	26	100	-	Global	-	-	-	-	-
3.	P2CHTC203	Organic Chemistry-II	4	6.5	26	100	-	Global	-	-	-	-	-
4.	P2CHTC204	Applications of Spectroscopy in Organic Chemistry	4	6.5	26	100	-	Global	-	-	-	-	-
5.	P2CHPC205	Practical Course in Inorganic, Organic & Physical Chemistry-II	4	6.5	26	-	100	Global	-	-	Skill	-	-
		Total Credits (Semester-II)	20			500							
Semester-III													
1.	P2CHTC301	Environmental Chemistry	4	6.5	26	100	-	Global	-	-	-	-	-
2.	P2CHTC302	Nano-Chemistry	4	6.5	26	100	-	Global	-	-	-	-	-
3.	P2CHTC303	Bioorganic and Medicinal Chemistry	4	6.5	26	100	-	Global	-	-	-	-	-
4.	P2CHTE304	Analytical Chemistry	4	6.5	26	100	-	Global	-	-	-	-	-
5.	P2CHTE305	Spectroscopy and Photochemistry in Inorganic Chemistry	4	6.5	26	100	-	Global	-	-	-	-	-
6.	P2CHTE306	Heuristic Approach to Organic Synthesis	4	6.5	26	100	-	Global	-	-	-	-	-
7.	P2CHTE307	Chemistry of Natural Products	4	6.5	26	100	-	Global	-	-	-	-	-
8.	P2CHTE308	Thermodynamics and Statistical Mechanics	4	6.5	26	100	-	Global	-	-	-	-	-

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S. No.	Course No.	Course Title	No. of Credits	Credits/Credit Point		Course Type	Marks		Nature of Course			SWAYAM/ MOOC	Vocational Course	Research Project/ Summer Internship / Dissertation
				Level	Point		Theory	Practical	Global	National	Regional			
9.	P2CHTE309	Chemistry of Materials and Liquids	4	6.5	26	Elective	100	-	Global	-	-	-	-	-
10.	P2CHPE310	Practical Course in Inorganic Chemistry	4	6.5	26	Elective	-	100	Global	-	-	-	-	-
11.	P2CHPE311	Practical Course in Organic Chemistry	4	6.5	26	Elective	-	100	Global	-	-	-	-	-
12.	P2CHPE312	Practical Course in Physical Chemistry	4	6.5	26	Elective	-	100	Global	-	-	-	-	-
13.	P2CHMO351	MOOC/SWAYAM Course	4	6.5	26	Elective	100	-	Global	-	-	SWAYAM/ MOOC	-	-
Total Credits (Semester-III)			28				700							
[In addition to core courses, the students of Semester-III have to opt for two elective theory courses and one elective practical course out of the basket of six elective theory courses and three elective practical courses respectively (from Inorganic/Organic/Physical branch)]														
Semester-IV														
1.	P2CHTE401	Organotransition Metal Chemistry	4	6.5	26	Elective	100	-	Global	-	-	-	-	-
2.	P2CHTE402	Bioinorganic and Supramolecular Chemistry	4	6.5	26	Elective	100	-	Global	-	-	-	-	-
3.	P2CHTE403	Chemistry of Heterocyclic Compounds	4	6.5	26	Elective	100	-	Global	-	-	-	-	-
4.	P2CHTE404	Catalysis in Organic Synthesis	4	6.5	26	Elective	100	-	Global	-	-	-	-	-
5.	P2CHTE405	Solid State Chemistry	4	6.5	26	Elective	100	-	Global	-	-	-	-	-
6.	P2CHTE406	Polymer Chemistry	4	6.5	26	Elective	100	-	Global	-	-	-	-	-
7.	P2CHPE407	Project in Inorganic Chemistry	16	6.5	104	Elective	-	400	Global	-	-	Skill	-	Project
8.	P2CHPE408	Project in Organic Chemistry	16	6.5	104	Elective	-	400	Global	-	-	Skill	-	Project
9.	P2CHPE409	Project in Physical Chemistry	16	6.5	104	Elective	-	400	Global	-	-	Skill	-	Project
Total Credits (Semester-IV)			24				600							
[Students of Semester-IV have to opt for two elective theory courses and one elective project course out of the basket of six elective theory courses and three elective project courses respectively (from Inorganic/Organic/Physical branch)]														
Total Credits (Semester-I, II, III & IV)			92				2300							

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MODIFIED COURSE STRUCTURE FOR ONE YEAR PG PROGRAMME

S. No.	Course No.	Course Title	No. of Credits	Course Type		Marks	Nature of Course			SWAYAM/ MOOC	Vocational Course	Research Project/ Summer Internship / Dissertation	
				Credits Level	Credit Point		Theory	Practical	Global				National
Semester-I													
1.	P1CHTC101	Environmental Chemistry	4	6.5	26	100	-	Global	-	-	-	-	
2.	P1CHTC102	Nano-Chemistry	4	6.5	26	100	-	Global	-	-	-	-	
3.	P1CHTC103	Bioorganic and Medicinal Chemistry	4	6.5	26	100	-	Global	-	-	-	-	
4.	P1CHTE104	Analytical Chemistry	4	6.5	26	100	-	Global	-	-	-	-	
5.	P1CHTE105	Spectroscopy and Photochemistry in Inorganic Chemistry	4	6.5	26	100	-	Global	-	-	-	-	
6.	P1CHTE106	Heuristic Approach to Organic Synthesis	4	6.5	26	100	-	Global	-	-	-	-	
7.	P1CHTE107	Chemistry of Natural Products	4	6.5	26	100	-	Global	-	-	-	-	
8.	P1CHTE108	Thermodynamics and Statistical Mechanics	4	6.5	26	100	-	Global	-	-	-	-	
9.	P1CHTE109	Chemistry of Materials and Liquids	4	6.5	26	100	-	Global	-	-	-	-	
10.	P1CHPE110	Practical Course in Inorganic Chemistry	4	6.5	26	-	100	Global	-	Skill	-	-	
11.	P1CHPE111	Practical Course in Organic Chemistry	4	6.5	26	-	100	Global	-	Skill	-	-	
12.	P1CHPE112	Practical Course in Physical Chemistry	4	6.5	26	-	100	Global	-	Skill	-	-	
13.	P1CHMO151	MOOC/SWAYAM Course	4	6.5	26	100	-	Global	-	-	SWAYAM/ MOOC	-	
			Total Credits (Semester-I)		28	700							
[In addition to core courses, the students of Semester-III have to opt for two elective theory courses and one elective practical course out of the basket of six elective theory courses and three elective practical courses respectively (from Inorganic/Organic/Physical branch)]													
Semester-II													
1.	P1CHTE201	Organotransition Metal Chemistry	4	6.5	26	100	-	Global	-	-	-	-	
2.	P1CHTE202	Bioinorganic and Supramolecular Chemistry	4	6.5	26	100	-	Global	-	-	-	-	
3.	P1CHTE203	Chemistry of Heterocyclic Compounds	4	6.5	26	100	-	Global	-	-	-	-	
4.	P1CHTE204	Catalysis in Organic Synthesis	4	6.5	26	100	-	Global	-	-	-	-	
5.	P1CHTE205	Solid State Chemistry	4	6.5	26	100	-	Global	-	-	-	-	

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S. No.	Course No.	Course Title	No. of Credits	Credits		Course Type	Marks		Nature of Course			SWAYAM/ MOOC	Vocational Course	Research Project/ Summer Internship / Dissertation
				Level	Point		Theory	Practical	Global	National	Regional			
6.	PICHTF206	Polymer Chemistry	4	6.5	26	Elective	100	-	Global	-	-	-	-	-
7.	PICHPE207	Project in Inorganic Chemistry	16	6.5	104	Elective	-	400	Global	-	-	-	-	Project
8.	PICHPE208	Project in Organic Chemistry	16	6.5	104	Elective	-	400	Global	-	-	-	-	Project
9.	PICHPE209	Project in Physical Chemistry	16	6.5	104	Elective	-	400	Global	-	-	-	-	Project
		Total Credits (Semester-II)	24					600						
[Students of Semester-IV have to opt for two elective theory courses and one elective project course out of the basket of six elective theory courses and three elective project courses respectively (from Inorganic/Organic/Physical branch)]														
		Total Credits (Semester-I & II)	52					1300						

Signature