

B.Sc. (Hons) Chemistry with Mathematics

Year: Second/ Semester: Third (Odd Semester)

S. N.	Course Code	Course Title	Theory (T) / Practical (P)	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
1	B020301T/CH232	Chemical Dynamics & Coordination Chemistry	T	Core Major	3	1	-	15	10	25	75	100	04	√		√					4 QUALITY EDUCATION 
2	B020302P/CH234	Physical Analysis	P		-	-	4	15	10	25	75	100	02	√	√	√					4 QUALITY EDUCATION 
3	B030301T/MT228	Algebra & Mathematical Methods	T		5	1	-	15	10	25	75	100	06								-
4	• B000301V/CH237 • --	• Food Testing and Quality Control • MOOCs/SWAYAM etc.	T + P	Vocational	1	-	2	-	-	-	100	100	03	√	√	√		√			4 QUALITY EDUCATION 
5	H040304T/LN230 H040305T/LN231	• Functional Hindi (कार्यात्मक हिंदी)* OR Amozish e Urdu*	T	Co-curricular	2	-	-	15	10	25	75	100	02	√		√		√			-
TOTAL					11	02	06	60	40	100	400	500	17								

*Anyone from Hindi, Urdu, Awadhi, Sanskrit etc.

B.Sc. (Hons) Chemistry with Physics

Year: Second/ Semester: Third (Odd Semester)

S. N.	Course Code	Course Title	Theory (T) / Practical (P)	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
1	B020301T/CH232	Chemical Dynamics & Coordination Chemistry	T	Core Major	3	1	-	15	10	25	75	100	04	√		√					4 QUALITY EDUCATION 
2	B020302P/CH234	Physical Analysis	P		-	-	4	15	10	25	75	100	02	√	√	√					4 QUALITY EDUCATION 
3	B010301T/PY207	Electromagnetic Theory & Modern Optics	T		3	1	-	15	10	25	75	100	04								-
4	B010302P/PY208	Demonstrative Aspects of Electricity & Magnetism	P		-	-	4	15	10	25	75	100	02								-
5	• B000301V/CH237 •	• Food Testing and Quality Control • MOOCs/SWAYAM etc.	T + P	Vocational	1	-	2	-	-	-	100	100	03	√	√	√		√			4 QUALITY EDUCATION 
6	-	Regional Language*	T	Co-curricular	2	-	-	15	10	25	75	100	02	√		√		√			-
TOTAL					09	02	10	75	50	125	475	600	17								

*Anyone from Hindi, Urdu, Awadhi, Sanskrit etc.

B.Sc. (Hons) Chemistry with Zoology
Year: Second/ Semester: Third (Odd Semester)

B.Sc. (Hons) Chemistry with 2001657													Year: Second/ Semester: Third/ Odd Semester										
S. N.	Course Code	Course Title	Theory (T) / Practical (P)	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)		
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
1	B020301T/CH232	Chemical Dynamics & Coordination Chemistry	T	Core Major	3	1	-	15	10	25	75	100	04	√		√						4 QUALITY EDUCATION 	
2	B020302P/CH234	Physical Analysis	P		-	-	4	15	10	25	75	100	02	√	√	√						4 QUALITY EDUCATION 	
3	B050301T/BS264	Molecular Biology, Bioinstrumentation & Biotechniques	T		3	1	-	15	10	25	75	100	04									-	
4	B050302P/BS265	Bioinstrumentation & Molecular Biology Lab	P		-	-	4	15	10	25	75	100	02									-	
5	• B000301V/CH237 •	• Food Testing and Quality Control • MOOCs/SWAYAM etc.	T + P	Vocational	1	-	2	-	-	-	100	100	03	√	√	√		√				4 QUALITY EDUCATION 	
6	-	Regional Language*	T	Co-curricular	2	-	-	15	10	25	75	100	02	√		√		√				-	
TOTAL					09	02	10	75	50	125	475	600	17										

*Anyone from Hindi, Urdu, Awadhi, Sanskrit etc.

B.Sc. (Hons) Chemistry with Botany
Year: Second/ Semester: Third (Odd Semester)

B.Sc. (Hons) Chemistry with Botany													Year / Second Semester / Third / Odd Semester										
S. N.	Course Code	Course Title	Theory (T) / Practical (P)	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)		
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
1	B020301T/CH232	Chemical Dynamics & Coordination Chemistry	T	Core Major	3	1	-	15	10	25	75	100	04	√		√						4 QUALITY EDUCATION 	
2	B020302P/CH234	Physical Analysis	P		-	-	4	15	10	25	75	100	02	√	√	√						4 QUALITY EDUCATION 	
3	B040301T/BS266	Flowering Plants Identification & Aesthetic Characteristics	T		3	1	-	15	10	25	75	100	04									-	
4	B040302P/BS267	Plant Identification technology	P		-	-	4	15	10	25	75	100	02									-	
5	• B000301V/CH237 • --	• Food Testing and Quality Control • MOOCs/SWAYAM etc.	T + P	Vocational	1	-	2	-	-	-	100	100	03	√	√	√		√				4 QUALITY EDUCATION 	
6	-	Regional Language*	T	Co-curricular	2	-	-	15	10	25	75	100	02	√		√		√				-	
TOTAL					09	02	10	75	50	125	475	600	17										

*Anyone from Hindi, Urdu, Awadhi, Sanskrit etc.



**INTEGRAL
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Department of Chemistry

Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines
B.Sc. (Hons) Chemistry Four Year program with Double Majors (Physics/Mathematics/Zoology/Botany)
w.e.f. Session 2024-25

B.Sc. (Hons) Chemistry with Mathematics

Year: Second/ Semester: Fourth (Even Semester)

S. N.	Course Code	Course Title	Theory (T) / Practical (P)	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)		
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
1	B020401T/CH239	Quantum Mechanics and Analytical Techniques	T	Core Major	3	1	-	15	10	25	75	100	04	√		√							4 QUALITY EDUCATION 
2	B020402P/CH241	Instrumental Analysis	P		-	-	4	15	10	25	75	100	02	√	√	√							4 QUALITY EDUCATION 
3	B030401T/MT229	Differential Equation & Mechanics	T		5	1	-	15	10	25	75	100	06										
4	- A040405T/LN234 --	- Effective Professional Communication Skills - EVS/BS	T	Minor Course	3	1	4	15	10	25	75	100	06	√	√	√		√	√	√			
5	B020405R/CH259	Chemistry Summer Internship	P	Internship	-	-	6	-	-	-	100	100	03	√	√	√		√				4 QUALITY EDUCATION 	
6	Z040401T/PH201	Physical Education and Yoga	T	Co-curricular	2	-	-	15	10	25	75	100	02	√		√		√	√	√		3 GOOD HEALTH AND WELL-BEING 	
TOTAL					13	03	14	75	50	125	475	600	23										



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Department of Chemistry

Evaluation Scheme of Undergraduate & Post Graduate Program as per NEP-2020 Guidelines
B.Sc. (Hons) Chemistry Four Year program with Double Majors (Physics/Mathematics/Zoology/Botany)
w.e.f. Session 2024-25

B.Sc. (Hons) Chemistry with Physics

Year: Second/ Semester: Fourth (Even Semester)

S. N.	Course Code	Course Title	Theory (T) / Practical (P)	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
1	B020401T/CH239	Quantum Mechanics and Analytical Techniques	T	Core Major	3	1	-	15	10	25	75	100	04	√		√						4 QUALITY EDUCATION 
2	B020402P/CH241	Instrumental Analysis	P		-	-	4	15	10	25	75	100	02	√	√	√						4 QUALITY EDUCATION 
3	B010401T/PY209	Perspectives of Modern Physics & Basic Electronics	T		3	1	-	15	10	25	75	100	04									
4	B010402P/PY210	Basic Electronics Instrumentation	P		-	-	4	15	10	25	75	100	02									
5.	- A040405T/LN234 --	- Effective Professional Communication Skills - EVS/BS	T	Minor Course	3	1	4	15	10	25	75	100	06	√	√	√		√	√	√		
6.	B020405R/CH259	Chemistry Summer Internship	P	Internship	-	-	6	-	-	-	100	100	03	√	√	√		√				4 QUALITY EDUCATION 
7.	Z040401T/PH201	Physical Education and Yoga	T	Co-curricular	2	-	-	15	10	25	75	100	02	√		√		√	√	√		3 GOOD HEALTH AND WELL-BEING 
TOTAL					11	03	18	90	60	150	550	700	23									

B.Sc. (Hons) Chemistry with Zoology
Year: Second/ Semester: Fourth (Even Semester)

B.Sc. (Hons) Chemistry With 2001657														Year: Second/ Semester: Fourth/ Even Semester									
S. N.	Course Code	Course Title	Theory (T) / Practical (P)	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)		
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
1	B020401T/CH239	Quantum Mechanics and Analytical Techniques	T	Core Major	3	1	-	15	10	25	75	100	04	√		√						4 QUALITY EDUCATION 	
2	B020402P/CH241	Instrumental Analysis	P		-	-	4	15	10	25	75	100	02	√	√	√						4 QUALITY EDUCATION 	
3	B050401T/BS273	Gene Technology, Immunology and Computational Biology	T		3	1	-	15	10	25	75	100	04										
4	B050402P/BS274	Genetic Engineering and Counselling Lab	P		-	-	4	15	10	25	75	100	02										
5.	- A040405T/LN234 --	- Effective Professional Communication Skills - EVS/BS	T	Minor Course	3	1	4	15	10	25	75	100	06	√	√	√		√	√	√			
6.	B020405R/CH259	Chemistry Summer Internship	P	Internship	-	-	6	-	-	-	100	100	03	√	√	√		√				4 QUALITY EDUCATION 	
7.	Z040401T/PH201	Physical Education and Yoga	T	Co-curricular	2	-	-	15	10	25	75	100	02	√		√		√	√	√		3 GOOD HEALTH AND WELL-BEING 	
TOTAL					11	03	18	90	60	150	550	700	23										

B.Sc. (Hons) Chemistry with Botany
Year: Second/ Semester: Fourth (Even Semester)

B.Sc. (Hons) Chemistry with Botany														Year: Second/ Semester: Fourth/ Even Semester								
S. N.	Course Code	Course Title	Theory (T) / Practical (P)	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
1	B020401T/CH239	Quantum Mechanics and Analytical Techniques	T	Core Major	3	1	-	15	10	25	75	100	04	√		√						4 
2	B020402P/CH241	Instrumental Analysis	P		-	-	4	15	10	25	75	100	02	√	√	√						4 
3	B040401T/BS275	Economic Botany, Ethnomedicine & Phytochemistry	T		3	1	-	15	10	25	75	100	04									
4	B040402P/BS276	Commercial Botany & Phytochemical Analysis	P		-	-	4	15	10	25	75	100	02									
5.	- A040405T/LN234 --	- Effective Professional Communication Skills - EVS/BS	T	Minor Course	3	1	4	15	10	25	75	100	06	√	√	√		√	√	√		
6.	B020405R/CH259	Chemistry Summer Internship	P	Internship	-	-	6	-	-	-	100	100	03	√	√	√		√				4 
7.	Z040401T/PH201	Physical Education and Yoga	T	Co-curricular	2	-	-	15	10	25	75	100	02	√		√		√	√	√		3 
TOTAL					11	03	18	90	60	150	550	700	23									