

B.Sc. (HONOURS) CHEMISTRY
PART-I (SEMESTER I & II)

SEMESTER I						
Paper Code	Title of Paper	Credits	Max. Marks			Time Allowed
			Total	Ext.	Int.	
BHCHE 101	Inorganic Chemistry-I (CC-I)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 102	Physical Chemistry-I (CC-II)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 103	English Communication Skills (Compulsory Course-I)	4	100	Theory : 70	30	3 hrs.
BHCHE 104	Punjabi Compulsory (Compulsory Course-II)	4	100	Theory : 70	30	3 hrs.
BHCHE 104A	Mudla Gyan (Elementary Punjabi) (Compulsory Course-II)					
ANY ONE OF THE FOLLOWING:						
BHCHE 105A	Computer Fundamentals (GE-I)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 105B	Mechanics (GE-I)					

Total Credits: 26

SEMESTER II						
Paper Code	Title of Paper	Credits	Max. Marks			Time Allowed
			Total	Ext.	Int.	
BHCHE 201	Organic Chemistry-I (CC-III)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 202	Physical Chemistry-II (CC-IV)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 203	English Communication Skills (Compulsory Course-I)	4	100	Theory : 70	30	3 hrs.

BHCHE 204	Punjabi Compulsory (Compulsory Course-II)	4	100	Theory : 70	30	3 hrs.
BHCHE 204A	Mudla Gyan (Elementary Punjabi)					
ANY ONE OF THE FOLLOWING:						
BHCHE 205A	Database Management System (GE-II)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 205B	Electricity and Magnetism (GE-II)					
GN 201	Drug Abuse: Problem, Management and Prevention (Qualifying Paper)		150	Theory : 70 Practical:50	30	3 hrs.

Total Credits: 26

Grand Total: 52

CC: Core Course

SEC: Skill Enhancement Course

GE: Generic Elective/Interdisciplinary

**B.Sc. (HONOURS) CHEMISTRY
PART-II (SEMESTER III & IV)**

SEMESTER III						
Paper Code	Title of Paper	Credits	Max. Marks			Time Allowed
			Total	Ext.	Int.	
BHCHE 301	Inorganic Chemistry-II (CC-V)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 302	Organic Chemistry-II (CC-VI)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 303	Physical Chemistry –III (CC-VII)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 304	Environmental and Road Safety Awareness (SEC-I)	4	100	Theory : 70	30	3 hrs.
ANY ONE OF THE FOLLOWING:						
BHCHE 305A	Programming using C (GE-III)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 305B	Thermal Physics (GE-III)					

Total Credits: 28

SEMESTER IV						
Paper Code	Title of Paper	Credits	Max. Marks			Time Allowed
			Total	Ext.	Int.	
BHCHE 401	Inorganic Chemistry-III (CC-VIII)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 402	Organic Chemistry-III (CC-IX)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 403	Physical Chemistry –IV (CC-X)	4+2	150	Theory : 70 Practical:50	30	3 hrs.

BHCHE 404	Basic analytical chemistry (SEC-II)	2	50	Theory : 35	15	3 hrs.
ANY ONE OF THE FOLLOWING:						
BHCHE 405A	Computer networks and Internet Technologies (GE-IV)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 405B	Waves and Optics (GE-IV)					

Total Credits: 26

Grand Total 54

CC: Core Course

SEC: Skill Enhancement Course

GE: Generic Elective/Interdisciplinary

B.Sc. (HONOURS) CHEMISTRY
PART-III (SEMESTER V & VI)

SEMESTER V						
Paper Code	Title of Paper	Credits	Max. Marks			Time Allowed
			Total	Ext.	Int.	
BHCHE 501	Organic Chemistry –IV (CC-XI)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 502	Physical Chemistry-V (CC-XII)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 503	Inorganic Materials of Industrial Importance (DSE-I)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 504	Green Chemistry (DSE-II)	4	100	Theory : 70	30	3 hrs.

Credits: 22

SEMESTER VI						
Paper Code	Title of Paper	Credits	Max. Marks			Time Allowed
			Total	Ext.	Int.	
BHCHE 601	Inorganic Chemistry –IV (CC-XIII)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 602	Organic Chemistry-V (CC-XIV)	4+2	150	Theory : 70 Practical:50	30	3 hrs.
BHCHE 603	Industrial Chemicals and Novel Inorganic Solids (DSE-III)	4	100	Theory : 70	30	3 hrs.
BHCHE 604	Instrumental Methods of Chemical Analysis (DSE-IV)	4+2	150	Theory : 70 Practical:50	30	3 hrs.

Credits: 22

Total Credits: 44

CC: Core Course

SEC: Skill Enhancement Course

DSE: Discipline Specific Elective