

BACHELOR OF SCIENCE (HONOURS)

Duration: 36 Months (3 Years) Eligibility: 12th Pass from Science with Minimum 60%

COURSE STRUCTURE OF CHEMISTRY (HONOURS) SEMESTER Ist													
Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
3HBHL101H	Ability Enhancement	fgUnhHkk"kkklajpuk	50	25	08	10	04	15	06	2	-	-	2
3CBCA201H	Ability Enhancement	Basic Information of Computer Technology - I	25	13	04	05	02	07	03	1	-	-	1
3SBCH104H	Core Course - 1	Chemistry -I (Physical Inorganic & Organic Chemistry)	100	50	17	20	08	30	12	4	-	-	4
3SBCH106H	Core Course- 2	POLYMER CHEMISTRY	100	50	17	20	08	30	12	4	-	-	4
	Generic Elective - 1	(Select From Below Given Specialized Subject)*	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
3SBCH104H	Practical-I	Chemistry -I (Physical Inorganic & Organic Chemistry)	50	25	08	25	08	-	-	-	-	2	2
3SBCH106H	Practical-II	POLYMER CHEMISTRY	50	25	08	25	08	-	-	-	-	2	2
	Practical-III	(Select From Below Given Specialized Subject)*	50	25	08	25	08	-	-	-	-	2	2
3CBCA201H	Practical-IV	Basic Information Computer Technology - I	25	10	04	15	06	-	-	-	-	1	1
Grand Total			550							15	-	07	22

Minimum Passing Marks are equivalent to Grade C

L- Lectures T- Tutorials P- Practical

Major- Term End Theory Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

* Generic Elective Specialization: Opted specialization by student in 1st Semester will remain same in IInd, IIIrd and IVth Semester (See the specialisation subject as mentioned below)*

Generic Elective- 1		
Specialisation	Course Code	Subject
Physics	3SBPH103H	Mechanics, Oscillations and Properties of Matter
Maths	3SBMA105H	Algebra, Trigonometry & Geometry

BACHELOR OF SCIENCE (HONOURS)

Duration: 36 Months (3 Years) Eligibility: 12th Pass from Science with Minimum 60%

COURSE STRUCTURE OF CHEMISTRY (HONOURS) SEMESTER IInd													
Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
3HBEL201H	Ability Enhancement	English Language and Indian Culture	50	25	08	10	04	15	06	2	-	-	2
3MBFE101H	Ability Enhancement	Fundamental of Entrepreneurship	50	25	08	10	04	15	06	2	-	-	2
3SBCH204H	Core Course-3	Chemistry –II (Physical Inorganic & Organic Chemistry)	100	50	17	20	08	30	12	4	-	-	4
3SBCH206H	Core Course-4	APPLICATION OF COMPUTERS IN CHEMISTRY	100	50	17	20	08	30	12	4	-	-	4
	Generic Elective -2	(Select From Below Given Specialized Subject)*	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
3SBCH204H	Practical-I	Chemistry –II (Physical Inorganic & Organic Chemistry)	50	25	08	25	08	-	-	-	-	2	2
3SBCH206H	Practical-II	APPLICATION OF COMPUTERS IN CHEMISTRY	50	25	08	25	08	-	-	-	-	2	2
	Practical-III	(Select From Below Given Specialized Subject)*	50	25	08	25	08	-	-	-	-	2	2
Skill Courses								Sessional					
	Skill Enhancement	Skill Enhancement Elective Course-I	50	-	-	-	-	50	20	1	-	1	2
Grand Total			600							17	-	07	24

Minimum Passing Marks are equivalent to Grade C

Major- Term End Theory / Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

Skill Elective I – Any other course being offered in this semester as per the list given at the end of course structure.

* Generic Elective Specialization: Opted specialization by student in 1st Semester will remain same in IInd, IIIrd and IVth Semester (See the specialisation subject as mentioned below)*

Generic Elective- 2		
Specialisation	Course Code	Subject
Physics	3SBPH203H	Mathematical Background, Electrostatics of Matter
Maths	3SBMA205H	Calculus, Differential Equations& Vector Calculus

L- Lectures T- Tutorials P- Practical

BACHELOR OF SCIENCE (HONOURS)

Duration: 36 Months (3 Years) Eligibility: 12th Pass from Science with Minimum 60%

COURSE STRUCTURE OF CHEMISTRY (HONOURS) SEMESTER IIIrd

Course Details				External Assessment		Internal Assessment				Credit Distribution			Allocated Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
3HBHL302H	Ability Enhancement	हिन्दीभाषा सवेधना एतंसंवारसाधन	50	25	08	10	04	15	06	2	-	-	2
3BCA502H	Ability Enhancement	Basic Information of Computer Technology – II	25	13	04	05	02	07	03	1	-	-	1
3SBCH304H	Core Course-5	Chemistry –III (Physical, Inorganic & Organic Chemistry)	100	50	17	20	08	30	12	4	-	-	4
3SBCH306H	Core Course-6	ANALYTICAL METHODS IN CHEMISTRY	100	50	17	20	08	30	12	4	-	-	4
	Generic Elective -3	(Select From Below Given Specialized Subject)*	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
3SBCH304H	Practical-I	Chemistry –III (Physical, Inorganic & Organic Chemistry)	50	25	08	25	08	-	-	-	-	2	2
3SBCH306H	Practical-II	ANALYTICAL METHODS IN CHEMISTRY	50	25	08	25	08	-	-	-	-	2	2
	Practical-III	(Select From Below Given Specialized Subject)*	50	25	08	25	08	-	-	-	-	2	2
3BCA502H	Practical-IV	Basic Information of Computer Technology – II	25	10	04	15	06	-	-	-	-	1	1
Skill Courses								Sessional					
	Skill Enhancement	Skill Enhancement Elective Course-II	50	-	-	-	-	50	20	1	-	1	2
Grand Total			600							16	-	08	24

Minimum Passing Marks are equivalent to Grade C

Major- Term End Theory / Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

Skill Elective II– Any other course being offered in this semester as per the list given at the end of course structure.

L- Lectures T- Tutorials P- Practical

Generic Elective- 3*

Specialisation	Course Code	Subject
Physics	3SBPH303H	Kinetic Theory of Gases, Thermodynamics and Statistical Mechanics
Maths	3SBMA305H	Calculus, Differential Equation and Mechanics

BACHELOR OF SCIENCE (HONOURS)

Duration: 36 Months (3 Years) Eligibility: 12th Pass from Science with Minimum 60%

COURSE STRUCTURE OF CHEMISTRY (HONOURS) SEMESTER IVth													
Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
3HBEL402H	Ability Enhancement	English language and scientific temper	50	25	08	10	04	15	06	2	-	-	2
3HBHP401H	Ability Enhancement	Human Values & Ethics	50	25	08	10	04	15	06	2	-	-	2
3SBCH404H	Core Course - 7	Chemistry -IV (Physical Inorganic & Organic Chemistry)	100	50	17	20	08	30	12	4	-	-	4
3SBCH406H	Core Course- 8	INDUSTRIAL CHEMICAL & ENVIRONMENT	100	50	17	20	08	30	12	4	-	-	4
	Generic Elective -4	(Select From Below Given Specialized Subject)*	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
3SBCH404H	Practical	Chemistry -IV (Physical Inorganic & Organic Chemistry)	50	25	08	25	08	-	-	-	-	2	2
3SBCH406H	Practical	INDUSTRIAL CHEMICAL & ENVIRONMENT	50	25	08	25	08	-	-	-	-	2	2
	Practical	(Select From Below Given Specialized Subject)*	50	25	08	25	08	-	-	-	-	2	2
Grand Total			550							16	-	06	22

Minimum Passing Marks are equivalent to Grade C

L- Lectures T- Tutorials P- Practical

Major- Term End Theory Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

Generic Elective- 4*		
Specialisation	Course Code	Subject
Physics	3SBPH403H	Group Waves, Acoustics and Optics
Maths	3SBMA405H	Advanced Calculus, Partial Differential Equations, Complex Analysis and Abstract Algebra

BACHELOR OF SCIENCE (HONOURS)

Duration: 36 Months (3 Years) Eligibility: 12th Pass from Science with Minimum 60%

COURSE STRUCTURE OF CHEMISTRY (HONOURS) SEMESTER Vth													
Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
3SBCH501H	Core Course-9	Coordination Chemistry	100	50	17	20	08	30	12	4	-	-	4
3SBCH502H	Core Course-10	Industrial Chemistry	100	50	17	20	08	30	12	4	-	-	4
3SBCH503H	Core Course-11	Organic Chemistry & Spectroscopy	100	50	17	20	08	30	12	4	-	-	4
*	Discipline Specific Elective-1	Elective table-I	100	50	17	20	08	30	12	4	-	-	4
**	Discipline Specific Elective -2	Elective table-II	100	50	17	20	08	30	12	4	-	-	4
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
3SBCH501H	Practical-I	Core Course-9	50	25	08	25	08	-	-	-	-	2	2
3SBCH502H	Practical-II	Core Course-10	50	25	08	25	08	-	-	-	-	2	2
3SBCH503H	Practical-III	Core Course-11	50	25	08	25	08	-	-	-	-	2	2
3SBCH504H	Practical-IV	Select from Discipline Specific Elective-1	50	25	08	25	08	-	-	-	-	2	2
3SBCH505H	Practical-V	Select from Discipline Specific Elective-2	50	25	08	25	08	-	-	-	-	2	2
***	Skill Enhancement-VI	Skill Enhancement Elective Course-II	50	25		15	10	1	-	1	2	** *	2
Grand Total			800										32

Minimum Passing Marks are equivalent to Grade C

Major- Term End Theory Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

L- Lectures T- Tutorials P- Practical

BACHELOR OF SCIENCE (HONOURS)

Duration: 36 Months (3 Years) Eligibility: 12th Pass from Science with Minimum 60%

COURSE STRUCTURE OF CHEMISTRY (HONOURS) SEMESTER VIth													
Course Details				External Assessment		Internal Assessment				Credit Distribution			Allotted Credits
Course Code	Course Type	Course Title	Total Marks	Major		Minor		Sessional ***		L	T	P	Subject wise Distribution
				Max Marks	Min Marks	Max Marks	Min Marks	Max Marks	Min Marks				
Theory Group													
3SBCH601H	Core Course-12	Nano-Chemistry	100	50	17	20	08	30	12	4	-	-	4
3SBCH602H	Core Course-13	INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	100	50	17	20	08	30	12	4	-	-	4
3SBCH603H	Core Course-14	GREEN CHEMISTRY	100	50	17	20	08	30	12	4	-	-	4
***	Discipline Specific Elective	Elective table-III	100	50	17	20	08	30	12	4	-	-	4
****	Discipline Specific Elective//Project/Dissertation	Elective table-IV / Group B DISSERTATION	150	150	40	-	-	-	-	-	-	6	6
Practical Group				Term End Practical Exam		Lab Performance		Sessional					
	Practical-I	Core Course-12	50	25	08	25	08	-	-	-	-	2	2
	Practical-II	Core Course-13	50	25	08	25	08	-	-	-	-	2	2
	Practical-III	Core Course-14	50	25	08	25	08	-	-	-	-	2	2
	Practical-IV	Discipline Specific Elective -3	50	25	08	25	08	-	-	-	-	2	2
Grand Total			750										30

*** If Project/Dissertation not taken then DSE have same marks/credit as other DSE's.**

Minimum Passing Marks are equivalent to Grade C

Major- Term End Theory Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

L- Lectures T- Tutorials P- Practical

DISCIPLINE SPECIFIC ELECTIVE

***Note** - Students need to select any two from below mentioned four papers from Each Group Elective's for Fifth and Sixth semester of **B.Sc. Chemistry (Honours)**.

ELECTIVES FOR SEMESTER 5 TH			ELECTIVES FOR SEMESTER 6 TH		
Course Code	Course Type	List of Electives	Course Code	Course Type	List of Electives
***GROUP ELECTIVE -I			*** GROUP ELECTIVE -III		
3SBCH504H		Bio-Chemistry	3SBCH604H		Chemistry of Natural product
3SBCH505H		Environmental Studies	3SBCH605H		Instrumental Methods of Chemical Analysis
**** GROUP ELECTIVE -II			****GROUP ELECTIVE -IV		
3SBCH506H		Basics of Analytical Chemistry	3SBCH606H		Fundamentals of Spectroscopy
3SBCH507H		Bio molecular Chemistry	3SBCH607H		Some Special aspects of Chemistry

COURSE CODE- 3SBCH608H

Dissertation/Project Guidelines

SKILL ENHANCEMENT ELECTIVE COURSES

Non-Technical			
Elective No.	Department/ Faculty Name		
	Faculty of Information Technology		
I	SCIT 201	Data Entry Operation	2(1+0+1)
II	SCIT 301	Multimedia	2(1+0+1)
III	SCIT 501	Web Designing with HTML	2(1+0+1)
IV	SCMIT 201	Web Development	2(1+0+1)
V	SCMIT 301	LINUX	2(1+0+1)
	Faculty of Management		
I	SMGT 201	Briefing and Presentation Skills	2(1+0+1)
II	SMGT 301	Resolving Conflicts and Negotiation Skills	2(1+0+1)
III	SMGT 802	Entrepreneurship Development	2(1+0+1)
	Faculty of Commerce		
I	SCOM 201	Tally ERP 9	2(1+0+1)
II	SCOM 302	Multimedia	2(1+0+1)
III	SCOM 803	Data Analyst	2(1+0+1)
	Faculty of Humanities		
I	SHBA 301	Pursuing Happiness	2(1+0+1)
II	SHBA302	Communication Skill and Personality Development	2(1+0+1)
III	SHMA301	Tourism in M.P	2(1+0+1)
	Faculty of Science		
I	SSBI 301	Mushroom Cultivation	2(1+0+1)
II	SSPH 301	House Hold Wiring	2(1+0+1)
III	SSPH 301	Basic Instrumentation	2(1+0+1)
IV	SSPH 301	DTP Operator	2(1+0+1)
V	SSCH 301	Graphic Designing	2(1+0+1)
	Faculty of Education		
I	SCBE 403	Understanding of ICTC (Information Communication Technology)	2(1+0+1)
II	SCPE 201	Yoga Education	2(1+0+1)