

Bachelor of Science

Programme Code(B.Sc)

Objectives:

- To impart basic knowledge and understanding of the basic principles of science.
- To prepare students for undertaking higher education and research as a career.
- To prepare students for various employments available in industries.

Eligibility: Senior Secondary (10+2) passed or equivalent in any discipline from any recognized Board.

Duration: Minimum 3 years; Maximum 6 years

Credit: 108

Fee*: B.Sc. I Year Rs. 12,000/-, B.Sc. II Year; Rs. 12,000/-, B.Sc. III Year; Rs. 12,000/-

*Prospectus fee Rs. 500/- , Examination Fee Rs. 500/- , Back Exam fee (if any) Rs 500/- will be payable extra

Programme Structure:

The Foundation Courses are compulsory for all the students and the marks obtained in these papers will not be added for counting the final division in the examination. However a student will have to qualify these papers. Students will have to choose any three papers as per his/her choice.

S. No.	Paper Code	Paper Title	Credit
1	QEG	General English	N.A.
2	QHD	General Hindi	N.A.
3	QCA	Computer Application	N.A.
4	QES	Environmental Studies	N.A.

The Foundation Courses are compulsory for all the students and the marks obtained in these papers will not be added for counting the final division in the examination. However a student will have to qualify these papers by obtaining at least 30% marks in each paper. There is a choice in English and Hindi languages any one is to be opted.

Students will have to select any one of the combinations. The combination chosen in the first year will not be changed under any circumstances.

Group	Subject	Subject	Subject
I	Physics	Chemistry	Mathematics
II	Botany	Chemistry	Zoology

Bachelor of Science (B.Sc.) - I Year

S. No.	Paper Code	Paper Title	Credit
Physics			
1	PH – 101	Mechanics	3
2	PH – 102	Waves and Oscillations	3
3	PH – 103	Electromagnetism	3
4	PH – 104	Practical	3
Chemistry			
1	CH – 101	Inorganic Chemistry	3
2	CH – 102	Organic Chemistry	3
3	CH – 103	Physical Chemistry	3
4	CH – 104	Chemistry Lab.(for both Maths & Biology streams)	3
Botany			
1	BO – 101	Algae, Lichens, and Bryophytes	3
2	BO – 102	Microbiology Mycology and Plant Pathology	3
3	BO – 103	Pteridophytes, Gymnosperms and Paleobotany	3
4	BO – 104	Practical Botany	3
Zoology			
1	ZO – 101	Diversity of Animals and Evolutions	3
2	ZO – 102	Cell Biology and Genetics	3
3	ZO – 103	Gametes and developmental Biology	3
4	ZO – 104	Practical Zoology	3

Bachelor of Science (B.Sc.) - II Year

S. No.	Paper Code	Paper Title	Credit
Physics			
1.	PH – 201	Thermal and Statistical Physics	3
2.	PH – 201	Optics	3
3.	PH – 203	Electronics	3
4.	PH – 204	Practical Physics	3
Chemistry			

1	CH – 201	Inorganic Chemistry	3
2	CH – 202	Organic Chemistry	3
3	CH – 203	Physical Chemistry	3
4	CH – 204	Practical Chemistry	3
Botany			
1	BO – 201	Plant Morphology and Anatomy	3
2	BO – 202	Cell Biology Genetics and Plant Breeding	3
3	BO – 203	Plant Physiology and Biochemistry	3
4	BO – 204	Practical botany	3
Zoology			
1	ZO – 201	Invertebrates	3
1	ZO – 202	Animal Physiology and Immunology	3
3	ZO – 203	Micro Biology and Biotechnology	3
4	ZO – 204	Practical Zoology	3

Bachelor of Science (B.Sc.) - III Year

S. No.	Paper Code	Paper Title	Credit
Physics			
1.	PH – 301	Elementary Quantum Mechanics and Spectroscopy	3
2.	PH – 302	Solid State Physics	3
3.	PH – 303	Nuclear Physics	3
4.	PH – 304	Practical Physics	3
Chemistry			
1	CH – 301	Inorganic Chemistry	3
2	CH – 302	Organic Chemistry	3
3	CH – 303	Physical Chemistry	3
4	CH – 304	Practical Chemistry	3
Botany			
1	BO – 301	Taxonomy and Embryology of Angiosperm	3
2	BO – 302	Molecular Biology and Technology	3
3	BO – 303	Plant Ecology and Economic Botany	3
4	BO – 304	Practical Botany	3

Zoology			
1	ZO – 301	Structure and Functions of vertebrates	3
2	ZO – 302	Ecology and Environmental Biology	3
3	ZO – 303	Applied Zoology	3
4	ZO – 304	Practical Zoology	3

Evaluation & Examinations:

Internal Assignment: The internal assignments shall be of 15 marks. However, for Mathematics subject the Internal Assignments shall be of 16/17 marks each. Two Assignments will be given in each paper. The internal assignment shall be submitted to the concerned IGC for onward submission to the University. Marks Obtained in assignments shall be shown separately in the Mark sheet. It is compulsory to pass in the internal assignment and term end examinations separately for successful completion of the programme.

Term-End-Examination: There shall be a term-end-examination at the end of the minimum duration of the study i.e. one year. It carries a weightage of 70 percentage of marks. The paper of the term end examination will be of 35 marks, but for Mathematics Papers the term end examination will be of 50 marks. Term-End-Examination are generally held in the months of June and December every year. The Practical component shall be of 50 marks further divided in 35 marks of Lab Work and 15 marks of Viva-voce. The attendance in the **Practical classes** will be compulsory for all the students. There will be no practical for Mathematics papers. The students are at liberty to appear in any of the examinations conducted by the university during the year subject to the completion of the minimum duration prescribed for the programme. For appearing in the examination of due papers a student has to submit separate examination forms First Year/Second Year/ Third Year along with the requisite examination fee before the due date. The ceiling of maximum papers in any one of the examinations will be applicable.

The pass marks in Internal Assignments and Term-End-Examination is only 30% for any one of the components i.e. Internal Assignment and Term-End-Examination. The pass marks in Practical Examination shall be 50%. To clear a course as well as a programme as a whole a student is required to secure 35% marks in Theory Papers and 50% marks in Practical Papers. Marks obtained in the Foundation Course will not be added for the calculation of the division of the student but it will be compulsory to pass the foundation course papers.

Division shall be awarded to the successful candidates only after the final year as follows:

I – Division	60% and above
II – Division	48% and less than 60%
III – Division	35% and less than 48%