B.Sc Zoology
Semester Ist
Programme Specific Outcomes of B.Sc (Medical)

The Students will be :

PS01 : able to tell about basic functional & structured unit of life.

PS02 : able to distinguish between different protozoans (single celled animals).

PS03 : got knowledge about different marine animals of phylum porifera and coelenterate.

PS04 : aware about deadly affects of untreatable disease cancer.

PS05 : able to tell absent different immune cells of the body.

B.Sc Zoology
Semester 3rd
Programme Specific Outcomes of B.Sc (Medical)

The Students will be :

PS01 : able to get knowledge and skills in fundamental and systematics of animal kingdom.

PS02 : able to gain knowledge of anatomical structure and metabolic function of organisms.

PS03 : Able to understand various physiological process of animals from different phyla.

PS04 : understand about concept of lipid, protein enzymes and their importance in daily life.

PS05 : able to describe morphology, habit, habitat of labeo and sociliodom.

B.Sc Zoology
Semester 5th
Programme Specific Outcomes of B.Sc (Medical)

The Students will be :

PS01 : able to distinguish between fishes of different aquatic systems.

PS02 : are now known to technologies involved in development of transgenic fishes.

PS03 : very well familiar to prawan and pearl culture techniques.

PS04 : able to tell how life came into existence and evolve over time.

PS05 : aware about aquatic & terrestrial ecosystems and interaction between species and their role in different trophic levels.

BOTANY

SEMESTER –IST

On completion of the course students are able to –

1 differentiate between PK (Prokaryots) & EK (Eukaryots).

2 understand Algae, fungai, Bacteria (Microorganism) and economic importance along with disease caused by them.

3 able to understand the concept of cell organelles and functions performed by organelles.

4 learnt about the str. of DNA

5 Students are able to know the concept of cell division and the role of DNA & RNA (genetic material) in heredity.

BOTANY

SEMESTER –3RD

1 Students acquired botanical knowledge through theory, practicals.

2 Students learnt to carry out practical work and field visit with animal risk.

3 Students acquired knowledge of tissues present in plants is importance of anatomy.

4 Students are able to cut the section of gymnosperm & examine the tissues with the help of microscope.

5 Through this program students are able to know about diversity of gymnosperm in Haryana.

BOTANY

SEMESTER –5TH

on completion of the course students are able to –

1 Learn & understand about mineral nutrients and deficiency symptoms.

2 Understand about photosynthesis and respiration in plants.

3 Able to understand about biodiversity of importance of each species for ecosystem.

4 Able to gain more information about global warming, pollution and methods to minimise.

5 This B.Sc program will enrich the students with knowledge of environment of role of humans to sustain environment.

Specific outcome of B.Sc Mathematics

1. Think in a critical manner.
2. Know when there is a need for information, to be able to indentify, locate evaluate, and effectively use that information for the issue or problems at hand.
3. Formulate and develop mathematical arguments in a logical manner.
4. Acquire good knowledge and understanding in advanced areas of mathematics and statistics, chosen by the student from the given courses.
5. Understand, formulate and use quantitative model arising in social science, business and other contexts.

B.Sc –I Year

Paper – Algebra –I

Subject Course Outcome

1	Learn to solve system of linear equation.
2	Learn to solve Diophantine equation.
3	Learn to find roots of polynomial over rational.
4	Learn to find graphs, roots and primes integer using maxima software.
5	Introduction to complex analysis.

Paper – Calculus –II

Course –Outcome

1	Gain knowledge of fundamental concepts of real numbers.
2	Verify the value of the limit of a function at a point using the definition of the limit.
3	Introduction to sequence of series.
4	Learn to check function is continuous understand the consequences of the intermediate value theorem for continuous functions.
5	Finding extreme values of function.

Paper – Solid Geometry–III

Course –Outcome

1	Students will able to understand two or three dimensional transformation.
2	Students will be able to understand three dimensional geometry i.e. sphere, cone etc.
3	To understand the reduction of equations in special form.
4	to understand the geometrical interpretation of general Equation of conic section.
5	To get acquainted with typical problem on solid geometry.

B.Sc 2nd year

Mathematics

Paper –Partial Differential Equation

1 Familiar with the modeling assumptions & derivations that lead to PEDs.

2 Recognize the major classification of PDEs & the qualitative differences between the classes of equations.

3 Be competent is solving linear PDEs using classical solution methods.

4 Application of PDE in real life.

5 To get acquainted with typical problem on PDE.

Paper – Advanced Calculus

1 Student will be to understand differentiation & fundamental theorem in differentiation & various rules.

2 Geometrical representation & problem solving on MVT & Rolls theorem.

3 Finding extreme value of function.

4 Introduction to ODE

5 Gain knowledge of fundamental concepts of real numbers.

Paper – Statics (B.Sc. IInd year)

Subject – Outcome

1. Students will be able to understand two or three dimensional transformation.
2. Introduction to projection & its type.
3. To get acquainted with typical problem on centre of gravity & existence solution.
4. Application of projection in real life.
5. to understand properties of stationary objects.

B.Sc –III year

Paper –Real Analysis

Paper-I

Subject Outcomes

1 Describe fundamental properties of the real numbers that lead to the formal development of real analysis.

2 Demonstrate an understanding of limits and how they are used in sequences, series, construct rigorous mathematical proofs of basic results in real analysis.

3 Construct the base of students in making their career and do further research in higher mathematics.

4 Comprehend rigorous arguments developing the theory underpinning real analysis.

5 Student will be able to solve problems on metric space and connected, compact spaces.

Paper – Groups and Rings

paper –II

Subject Outcomes

1 Understand the importance of algebraic properties with regard to working within various number system.

2 Generate group given specific conditions.

3 Symmetry using group theory.

4 Students will be able to define ring and subrings.

5 Study of ideals and concept related to ideal.

Paper – Numerical Analysis

Paper –III

Course Outcomes

1 To apply appropriate numerical methods to solve the problem with most accuracy.

2 Using appropriate numerical methods determine approximate solution of ODE and system of linear equation.

3 Compare different methods in numerical analysis w.r.t accuracy and efficiency of solution.

4 To demonstrate used of interpolation method in numerical analysis.

5 Use computational techniques and algebraic skill for the study of systems of linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors.

Programme Specific Outcomes of B.Sc Vth Sem

Paper – 1

(Solid State Physics)

At the end of the course, the students will be able to

1. Analyze the different forms of solids, the techniques to understand the structure and their constituents and their different properties.
2. X-ray diffraction concept, various techniques of interaction of matter and radiations.
3. The methods of designing new materials i.e. semiconductors, nanomaterials etc.
4. Infer the significance of new materials for and their applications.
5. Deal with a no. of lab instruments. Analysis and interpretation of the data providing a link between their understanding and research.

Paper –II

(Quantum Mechanics)

The students will be able to

1 Comprehend the failure of classical physics and need for quantum physics, behaviour of quantum particles.

2 Quantum theory formulations, the probabilistic nature of wave function.

3 Understand the new world of microscopic particles i.e. the world of smaller sized particles and high speed; the unknown facts of atoms, molecules and matter.

4 Develop a written and oral communicating skill in communicating physics related topics.

5 Understand and utilize this to infer the various mysteries of science to develop new models.

Sem –VI

Paper – 1

(Atomic, Molecular & Laser Physics)

At the end of course, the students will be able to

1. Understand the world of atomic particles, molecules and their interaction with various stimulus.
2. Analyze the interactions of matter and radiations the spectroscopic formulations and their rules, the bridge formulation of quantum and spectroscopic techniques.
3. Make a connection with various streams of science and technologies like physics, chemistry, pharmacy etc. by understanding the mechanics & chemistry of atomic particles.
4. Understand and conduct experiment on LASER, the device used for various purposes starting from toys to military utilization, from lab physic to opthomatic lab, from cutting drilling to holography etc.

Paper –II

(Nuclear Physics)

The students will be able to –

1. Understand the constituents of atom, atomic theory, nuclear models, nuclear reactions accelerators.
2. Understand the nuclear energy and its prapact i.e. (Nuclear fission, Nuclear fusion) for power generation and chain reactions (uncontrolled).
3. Infer the various phenomenon using numerical techniques and modelling.
4. Demonstrate an understanding of the impact of physics and science on society.
5. Utilize a wide range of printed and electronic resources to support their study.

B.Sc IIIrd Sem. Physics

Paper-I

In the end students will be able

1 To know about computer organization and programming language FORTRAN.

2 To interprete laws of thermodynamics, entropy and Carnot theorem.

3 To describe Joule Thomson experiment and liquification of cases and about air pollution.

4 To discuss phase diagram and triple point of a substance and c-c latent heat equation.

5 To classify thermodynamical functions and development of Maxwell relations.

Paper-II

1 To evaluate speed of transverse and longitudinal waves.

2 To discuss fourier transformation and its application.

3 To know about matrix method in paraxial optics and thick and thin lens formula.

4 To discuss various aberration and their remedies.

5 To interprete interference by division of wavefront and phase change on reflection.

Dr. Deepika

B.Sc IVth Sem.

Physics

Paper-I

In the end students will be able

1 To discuss the various facts of probability used in statistical Mechanics.

2 To learn about phase space, microstate, macrostates and statistical fluctuations.

3 To interprete postulates of statistical physics & condition of equilibrium between two systems.

4 To discuss Bose-Einstein statistics and application of Bose-Einstein and Bose Einstein Gas.

5 To describe Fermi Dirac Statistics and Zero point energy.

Paper II

1 To describe interference by division of amplitude and its application.

2 To learn about diffraction and various to aspects analyze various diffraction pattern.

3 To discuss fraunhoffer diffraction and telescope and different parameters of gratings and telescope.

4 To interprete polarization and different laws of polarization.

5 To demonstrate Nicol Prism, Quarter & half wave plates and production of plane polarized light.

B.Sc IIIrd Sem. Physics

Paper-I

In the end students will be able

6 To know about computer organization and programming language FORTRAN.

7 To interprete laws of thermodynamics, entropy and Carnot theorem.

8 To describe Joule Thomson experiment and liquification of cases and about air pollution.

9 To discuss phase diagram and triple point of a substance and c-c latent heat equation.

10 To classify thermodynamical functions and development of Maxwell relations.

Paper-II

6 To evaluate speed of transverse and longitudinal waves.

7 To discuss fourier transformation and its application.

8 To know about matrix method in paraxial optics and thick and thin lens formula.

9 To discuss various aberration and their remedies.

10 To interprete interference by division of wavefront and phase change on reflection.

Dr. Deepika

B.Sc IVth Sem.

Physics

Paper-I

In the end students will be able

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7 To learn about phase space, microstate, macrostates and statistical fluctuations.

8 To interprete postulates of statistical physics & condition of equilibrium between two systems.

9 To discuss Bose-Einstein statistics and application of Bose-Einstein and Bose Einstein Gas.

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Paper II

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9 To interprete polarization and different laws of polarization.

10 To demonstrate Nicol Prism, Quarter & half wave plates and production of plane polarized light.

Programme Specific Outcomes of B.Sc

B.Sc 3rd Semester

Chemistry

Subject – Inorganic Chemistry

1. In order to study transition metals (d-block) to understand trends in properties, reactivity, physical and chemical properties of transition metals, students will be able to explain the fundamental concept in co-ordination chemistry of transition metals.
2. The students should be familier with basic knowledge of the non-aqueous solvent and application of non aqueous solvents in analytical chemistry.
3. Students will be able to describe different quantitative method of analysis of organic and inorganic substances.

Subject : Physical Chemistry

1. After completion of concepts of Thermody Namics –I & II students recognize the basic concepts of thermodynamics.
2. Students able to predict the reversible and irreversible reaction.
3. Students able to understand the physical significance of third law of thermodynamics.
4. In order to study chemical equilibrium student able to recogense concepts of free energy concept of chemical potential thermodynamic equilibrium of law of chemical equilibrium, temperature dependence of equilibrium, Van't Hoff reaction.
5. After completion distribution law students able to understands concepts of distribution law & its applications.

Subject : Organic Chemistry

1. After completion of concepts of modern techniques like UV. spectroscopy IR spectroscopy students able to understand the use of IR & UV instrument in different field of research and analytical chemistry.

2	Study of Aliphatic, Aromatic, Alcohols, Apoxide, carboxlic acid, & their derivatives students are able to recognize, preparation, properties, uses in different fields & chemical reaction of these organic compounds.
3	Students able to differentiate different types of alcohols and acids.
4	Students able to recognise and write the mechanism of different condensation reaction.
5	Students able to write down the structure of phenol and phenoxide ion.

B.Sc 4th Semester

Subject – Inorganic Chemistry

1. By study of F-Block elements Lanthanides and Actinides, students will be able to understand the various uses of F-Block elements.
2. In order to study F-Block elements students able to understand about recently Lanthanides have been used in lasier.
3. Students able to understand trends in properties, Lanthanide contraction, complex formation, isolation radioactive properties of F-Block elements.
4. By study of Radioactive properties of elements students will able to know about actinides elements are used as nuclear fuels for various purpose.
5. By quantitative analysis courses, the students will be learn to understand communication & interpret quantitative information and mathematical ideas.

Subject – Physical Chemistry

1. By study of concepts of thermodynamics III & IV students easily recognise the basic terms of thermodynamic.
2. Students able to drive derivations of thermodynamics, joul's law and its applications.
3. Students able to understand concepts of entropy.
4. After completion of electrochemistry students able to recognise types electrochemical cells, types of electrode and its application.
5. By study of electrochemistry students able to derive electrochemical derivation such as Nerst equation 2 cell EMF.
6. Students will able to understand determination of PH by different methods.

Subject – Organic Chemistry

1. In order to study of infrared spectroscopy students able to product functional groups in organic compound and uses of IR spectroscopy in Analytical habs.
2. Students will able to understand structure, preparation uses, properties of different types of amines, aldehydes ketones and diazonium salt.
3. By study of Amines, diazonium salts, nitro compounds alolofydes and ketones, students able to recognise the reactivity of substituted aromatic amines.
4. Students able to differentiate the different types of amines.

MKJK College, Rohtak

Department of Chemistry

Name –Geeta

Subject : Inorganic Chemistry

B.Sc – 5th Semester

Learning outcomes : After the completion of the course, students will be able to :-

1. Understand the concept of bonding in transition compounds by VBT and CFST.
2. Predict the geometry of coordination compounds and type of hybridization.
3. Able to determine the properties and preparations of Li, Al, Hg, Sn, Ti, etc metal compounds.
4. Able to recognize the biological reaction alkali and alkaline earth metals, nitrogen fixation, hemoglobin and myoglobin.

B.Sc – 6th Semester

Learning outcomes : After the completion of the course, students will be able to :-

1. Describe role of different metal ions in biological system.
2. Recognize role of porphyrin ring in hemoglobin.
3. Able to count total electrons in organometallic compounds.
4. Come to know about uses of different inorganic polymers in making tyres, toys, plastic bags.
5. Able to name different organometallic compounds.

MKJK College, Rohtak

Department of Chemistry

Name –Geeta

Subject : Physical Chemistry

B.Sc – 5th Semester

Learning Outcomes

Learning outcomes : After the completion of the course, students will be able to :-

1 Understand the concept of black body radiation, wave function, quantum mechanical operators, particle in 1D box, failure of classical mechanics.

2 Optical activity, polarization, magnetic permeability, magnetic prepertics, dipole moment and its measurement.

3 Recognize electromagnetic radiation, regions of spectrum born-oppenheimer approximation, degrees of freedom rotational spectrum, vibrational spectrum, Raman spectrum.

Learning Outcomes (6th Semester)

1 Students will be able to understand the concept of potential energy curves, franck-condon principle.

2 Interaction of radiation with matter, photochemical process, fluorescence, phosphorescence, photo-sensitized reactions.

3 Ideal, non-ideal solutions, dilute solution, colligative properties, degree of dissociation and association.

4 Phase diagrams, phase rule, eutectic systems.

MKJK College Rohtak

Department of Chemistry

Subject : Organic Chemistry

B.Sc – 5th Semester

Learning Outcomes

After the completion of the course, students will be able to

1. Related NMR parameters such as chemical shift, coupling constants, and relaxation time constants to molecular structure.
2. Predict the splitting patterns in the proton NMR spectrum of a compound given its structure.
3. Determine the compound structure based on information generated from IR, NMR and elemental analysis.
4. Identify and solve chemical problems and explore new areas of research.

Learning Outcomes B.Sc – 6th Sem.

1. The students will be able to introduce about basic chemistry of the heterocyclic.
2. The students should be able to determine advanced.
3. The students will develop fundamental theortical understanding of heterocyclic chemistry.
4. The students will get familiar with particular properties and reactions for the most important heterocyclic as well as different system of nomenclature.
5. The students will be able to fully comprehend the chemistry of many heterocyclic products, carbohydrate, amino acids, peptides, proteins and lipids in use such as drugs & food.

MKJK College, Rohtak

Inorganic Chemistry

(6^{th} & II^{nd} Sem)

Programme Specific Outcomes of B.Sc Ist Year

The students will be

PSOl : able to understand *basics of science and* its application in re3l life

PS02 : able to understand microscopic particles like atoms, molecuies and their interaction with each other

PS03 : able to know about various elements present in nature, their classification and position in *periodic table* and their properties and uses

PS04 : able to understand new inventions and discoveries in scientific world.

PS05 : able to compete for *various job oriented* exams and post *graduate* exams.

Department of Chemistry

Learning Outcomes

B.Sc Ist Sem.

Subject : Physical Chemistry

Outcomes

After the completion of the course, students will be able to

1 Recognize the and describe the characteristic of the three states of matter.

2 Students should be able to describe the different physical properties of each state of matter.

3 Students should be able to determine the difference between solids, liquids and gases.

4 Students will be able to define what matter is and where you can find it.

5 Students will be able to give examples of solids, liquids and gases.

Department of Chemistry

Learning Outcomes

B.Sc IInd Sem.

Subject : Physical Chemistry

Outcomes

Upon successful completion of the course, students will be able to

1 State the basic principles of electrochemistry.

2 Mention and explain various methods for the determination of transport number.

3 Explain the concepts of electrolytic conduction and dilution.

4 Understand rate of reaction and factor affecting it.

5 Derive integrated rate expression for zero order, ist order, second order and third order reaction.

6 Understand theories of reaction kinetics and differentiate them.

Programme Speicifc outcomes of B.Sc Ist year (Physics)

Semester-I

Paper -1 : Mechanics

After going through the course, the student should be able to:

1. Understand laws of motion and their applications to various dynamical situations.
2. He/she will learn the concept of conservation of energy, momentum, angular momentum and apply them to basic problems.
3. Understand the analogy between translational and rotational dynamics, and applications of both motions simultaneously in analyzing rolling with slipping.
4. Write the expression for the moment of inertia about the given axis of symmetry for different uniform mass distributions.
5. understand the concept of centre of mass, degree of freedom , lagrange's equation of motion generalized coordinates.

Semester-I

Paer-2

Electricity & Magnetism

After going through the course, the student should be able to

1. Understand the concept of vectors, gradient, divergence and curl of vector.
2. Demonstrate gauss law, coulomb's law for electric field & apply it to system of point charges as well as line, surface & volume distribution of charges.
3. Explain & differentiate the vector (electric fields, coulomb's law) and scalar (electric potential, electric potential energy) formalisms of electrostatics.
4. Apply Gauss's law of electrostatics to solve a variety of problems.
5. Understand the concept of magnetic induction, magnetic properties of matter.

Programme Specific Outcomes of B.Sc Ist year (Physics)

Semester- 2

Paper-1 Properties of matter, kinetic theory & relativity.

After going through the course the student should be able to

1. Understand the concept of elasticity through the study of young modulus and modulus of rigidity.
2. He/she will learn the concept of kinetic theory of gases, law of euipartition of energy & its applications for specific heat of gas.
3. Experimental verification of Maxwell's law of speed distribution.
4. Understand Brownian motion, real gases, Vander Waal's equation.
5. Describe special relativistic effect & their effects on the mass & energy of a moving object.

Semester-2

Paper-2 : Electromagnetic, Induction & electronic Devices

At the end of course, the student is expected to assimilate the following and possesses basic knowledge of following.

1. Understand the concept of electromagnetic induction.
2. N-and P-type semiconductors, mobility, drift velocity, fabrication of P-N junctions, forward & reverse biased junctions.
3. Application of PN junction for different type of rectifiers and voltage regulators.
4. NPN and PNP transistors, transistor biasing, oscillators.
5. to characterize various devices namely PN junction didoes, LEDs, Zener diode, Solar cell.

B.Sc Sports Science Ist Sem.

Health and Physical Education

1 to know the health education.

2 to know about effects of nutrition in sports performance.

3 to create the awareness regarding research in the field of sports nutrition.

4 to know about various communicable and non-communicable disease.

5 to know about the health service and personal hygiene of students and athletes.

Sports Psychology

Class- B.P.Ed

B.Sc Sports Science

5th Sem

1 to know the role of sports psychology sports performance.

2 to know about effects of various psychological factors sports performance.

3 to create the awareness regarding research in the field of sports psychology.

4 to know about various motivational technique.

5 to know about the psychological preparation of sports.

Outcome of Programme (B.Sc Non-Medical)

Bachelor of Science (Non-med) offers theoretical as well as practical knowledge about the following subjects : physics, chemistry, mathematics and basic computer science.

1. The course structure is designed while keeping in mind the demand for skilled & efficient professional who can effectively cater to the demands of skilled industries.
2. It helps to develop scientific temper will boost the growth of any society at rapid pace.
3. It will inculcate the logical conclusion & problem solving capacities , critical thinking scientific knowledge to design, carry out experiment and analyze the result.
4. the students explore the new techniques (modern) and lab equipments and gain scientific attitude expert skills, calculation measurements.
5. the course develop conceptual expertise & its applications in emerging areas of society.
6. after completion of this course, students have option to go for higher studies i.e. M.Sc and then do some research in various fields like physics, chemistry, math, statistics, mathical science, nanotechnology etc.
7. after higher studies, student can join as scientist and even for professional job oriented courses.
8. course also offers opportunities for surgery in Indian Army, Indian Navy, Indian Air Force as officers, they can also go for Indian civil services, IFS etc. Apart from these above jobs, students can also work or get jobs in marketing business and other technical fields, in banks or other state services.

Programme Outcomes B.Sc (Medical)

Bachelor of Science (B.Sc) offers theoretical as well as practical knowledge about different subject areas. These subject areas include physics, chemistry, mathematics and biology and other field depending on the specilisation a student opts. B.Sc (Medical) programme course is most beneficial for students who have strong interest and background in Med. science. After successful completion of three year degree program in B.Sc Medical student should be able to:

1. to acquire knowledge regarding botany, zoology, chemistry, biotechnology, fish and fisheries.
2. Medical students will be able to define and explain major concepts in the biological sciences.
3. they are able to correctly use biological instrumentation & proper laboratory technique.
4. Students will be able to communical biological knowledge in oral & written form.
5. Students will able to recognize the relationship between structure and function at all levels, molecular cellular and organismal.
6. They can go for Indian forest service and other competitive examinations.
7. They can opt for higher studies in botany, zoology chemistry, biotechnology fisheries and computer science.
8. Biotechnology another fast growing field which is more applicable in Industries & Hospitals.
9. The department of medical science aims to provide the student an up to date level of understanding of plant science and allows them to develop an aptitude towards science & nature.
10. Students can join as scientist in research institute of immense knowledge having a great scope for growth & development.

Programme Learnings Outcomes of Mathematics

1. Starting of doing mathematics always learns revisions of previous knowledge and further study in a dynamic manner.
2. Studying in a vast manner in three papers in each semester stimulates minds of students and sharpens by doing practices of text, examples and excerises.
3. Enrich their knowledge by learning articles, theorems and application in different fields by different mathematicious and latest results by modern mathmaticious.
4. Learning of latest methods by doing objective answers, computer knowledge and online methods.
5. Capable for appearing in various competitive examinations, carrier in different department and for doing post graduate programmes.

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