



**OFFICE OF THE PRINCIPAL
GOVERNMENT DEGREE COLLEGE POONCH**

(NAAC ACCREDITED B+ Grade)

Date:

**PROGRAMME OUTCOMES, PROGRAM SPECIFIC OUTCOMES,
COURSE OUTCOMES:**

Mechanism of Communication: The following mechanism is followed by the institution to communicate the learning outcomes to the teachers and students.

- Hard Copy of syllabi and Learning Outcomes are available in the departments for ready reference to the teachers and students.
- Learning Outcomes of the Programmes and Courses are displayed on the notice boards of each department.
- The importance of the learning outcomes has been communicated to the teachers in every IQAC Meeting and College Committee Meeting.
- The students are also made aware of the same through Tutorial classes.

Programme: B.Sc

Program Outcomes

Bachelor of Science (BSc) offers theoretical as well as practical knowledge about different subject areas. These subject areas include Physics, Chemistry, Mathematics, Botany, Zoology, Sericulture, Geography and Biology Biotechnology other fields depending on the specialisation a student opts.

This programme course is most beneficial for students who have a strong interest and background in Science and Mathematics. The course is also beneficial for students who wish to pursue multi and inter-disciplinary science careers in future. Following are the various programme outcomes:

1. This course forms the basis of science and comprises of the subjects like physics, chemistry, botany, biotechnology, zoology and mathematics.
2. It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace.
3. After the completion of this course students have the option to go for higher studies i.e. M. Sc and then do some research for the welfare of mankind.
4. After higher studies students can join as scientists and can even look for professional job oriented courses.
5. This course also offers opportunities for serving in Indian Army, Indian Navy, Indian Air Force as officers.
6. Students after this course have the option to join Indian Civil Services as IAS, IFS etc..
7. Science graduates can go to serve in industries or may opt for establishing their own industrial unit.

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8. After the completion of the B.Sc degree there are various other options available for the science students. Often, in some reputed universities or colleges in India and abroad the students are recruited directly by big MNC's after their completion of the course.
9. Apart from the research jobs, students can also work or get jobs in Marketing, Business & Other technical fields. Science graduates also recruited in the bank sector to work as customer service executives. Students can also find employment in government sectors.

Program Specific outcomes:

B.Sc. Medical/Non-Medical

a) B.Sc. Medical

1. B.Sc. Medical student is able 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 and proper laboratory techniques.
4. Students will be able to communicate biological knowledge in oral and written form.
5. Students will be 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 and Fisheries.
8. Biotechnology is another fast growing field which is more applicable in Industries and Hospitals.

b) B.Sc. Non-Medical

1. B.Sc. Non-Medical student's able to concentrate on Chemistry, Physics, Geography and Mathematics.
2. A non-medical student will demonstrate a scientific knowledge of the core physics principles in Mechanics, Electromagnetism, Modern Physics, and Optics.
3. He is able to demonstrate basic manipulative skills in algebra, geometry, trigonometry, and beginning calculus.
4. The student will determine the appropriate level of technology for use in: a) experimental design and implementation, b) analysis of experimental data, and c) numerical and mathematical methods in problem solutions.
5. He will be able to apply the underlying unifying structures of mathematics (i.e. sets, relations and functions, logical structure) and the relationships among them.
6. He can investigate and apply mathematical problems and solutions in a variety of contexts related to science, technology, business and industry, and illustrate these solutions using symbolic, numeric, or graphical methods.
7. The student will acquire knowledge of Chemical Thermodynamics, Kinetics, Electrochemistry, Atomic Structure, Organic Chemistry, Spectroscopy and Skill in Industrial Chemistry.
8. He will gain knowledge of Geography in Indian Context and also World Geography. He will know about forests, mountains, lakes, rivers.
9. A non-medical student can join Indian Air Force, Indian Navy and can also go for other competitive exams. He can go for higher studies in Mathematics, Chemistry, Physics or Geography.

10. He can join as a scientist in research institutes of immense knowledge having a great scope for growth and development. He can prove to be an asset for the society by producing something more innovative.

11. Banking sector is another good option for non-medical students.

Course Outcomes: Department of Botany

Botany covers a wide range of scientific disciplines concerned with the study of plants, algae and fungi, including structure, growth, reproduction, metabolism, development, diseases, chemical properties and evolutionary relationships among taxonomic groups. The course structure of this course is designed while keeping in mind the market demand for skilled and efficient professional who can effectively cater to the demands of growing botanical industry. Job opportunities are also wide as research organisations, herbal products companies, farm management organizations; biotechnology firms always require the services of botany students. After the degree course, botany students can work in the state departments, botanical survey of India and environmental protection agency. The department aims to provide the students an up to date level of understanding of plant science and allows them to develop an aptitude towards science and nature. Along with it the students are equipped with the basic skills in identifying and labelling different plants.

A holistic development and academic excellence to contribute effectively to the understanding of the subject along with sensitizing the students towards the need for keeping the environment clean and conserving natural resources is the prime motive of the department.

Semester I	Course: Diversity of microbes and cryptogams (UBOTC-101) The course aims at making the students understand the diversity among algae, fungi, bryophytes and pteridophytes. The course is designed to familiarize the students with microbes and cryptogams. The students will know the economic importance of fungi, algae, bacteria, viruses and bryophytes.
Semester II	Course: Characteristics and Systematics of Seed Plants (UBOTC 201) The course is an introduction to the methodology and principles of plant systematics and patterns and origin of seed plant diversity. Lectures and practicals provide skills needed to recognise and characterise several plant families and higher taxa that are important elements of ecosystem. The students are made to understand the key methods and principles of biological classification and nomenclature. Apart from this, students also get an idea about the major patterns and processes in evolution of seed plants.

Semester III	<p>Course: Plant Anatomy, Embryology and Ecology (UBOTC-301)</p> <p>This course has been designed to impart an insight into the internal structure and reproduction of the most evolved group of plants, the angiosperms. The students are made to identify the role of anatomy in solving the taxonomic and phylogenetic problems. Structural adaptations in plants growing in different environments are also taught. The students are made aware about the ecosystem so as to bring awareness on different aspects of Biodiversity and conservation of Biodiversity.</p>
Semester IV	<p>Course: Plant Physiology and Metabolism (UBOTC-401)</p> <p>This course deals with various processes of plants like photosynthesis (particular emphasis on light and dark reactions), respiration, translocation, absorption and nitrogen metabolism. The students also get an insight into the various types of plant movements.</p>
Semester V	<p>Course: Cell Biology and Genetics (UBOTC-501)</p> <p>The objective of this course is to have an insight into mechanism of gene expression and its regulation in prokaryotes and eukaryotes. This course helps the students to develop a firm foundation in the fundamentals of cell biology and cytogenetics.</p>
Semester VI	<p>Course: Economic Botany and Biotechnology (UBOTC-601)</p> <p>This course helps the students to explore the intimate relationship between plants and our lives. Topics covered under this course include our use of plants as medicines, food, beverages and textiles. The students are made to understand the basic concepts and techniques in genetic engineering and plant tissue culture wherein, they understand the reasons behind different plant transformation techniques, the basic plant tissue culture technique and also get a brief insight into the DNA technology and gene cloning.</p>

Department of Chemistry

Course Outcome

The chemistry course curriculum for the undergraduates includes the main areas of chemistry: organic, inorganic, physical and fuel chemistry. The purpose of the program is to provide the key knowledge base and laboratory resources to prepare students for careers as professionals in the field of chemistry. The department of chemistry works towards the development of a firm foundation in the fundamentals and application of current chemical and scientific theories. The students are taught how to design and carry out scientific experiments as well as accurately record and analyze the results of such experiments. The course is so designed that the students understand the central role of chemistry in our society and become

potent enough to explore new areas of research both in chemistry and in allied fields of research and technology.

Semester I	<p>Course: Atomic Structure, Bonding, General Organic Chemistry and Aliphatic Hydrocarbons (UCHTC-101)</p> <p>The course aims at making the students understand the behaviour and interactions between matter and energy at both the atomic and molecular level. The students are taught to predict atomic structure, chemical bonding and molecular geometry based on accepted models. Students are also expected to learn the physical and chemical properties of common functional groups.</p>
Semester II	<p>Course: Chemical Energetics, Equilibria and Functional Organic Chemistry (UCHCTC-201)</p> <p>The course lays an emphasis on physical and functional organic chemistry. The students are provided an insight to the kinetic aspects of chemical reactions, reaction equilibria, thermodynamics, nomenclature and classification of organic compounds and named organic reactions. The students become able to understand the concept of activation energy, steady state, and zero, first and second order rate laws.</p>
	<p>Course: Solutions, Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry</p>
Semester III	<p>(UCHCTC-301)</p> <p>This course has been designed to impart an insight into the basic principles of phase equilibrium, electrochemistry and functional group chemistry. The students will be made to understand the properties of ideal and non ideal solutions, the basic concepts of electrochemistry and its applications. They will also be taught the preparation and reactions of acids and amines along with the classification and structure of common organic compounds.</p>
Semester IV	<p>Course: Coordination Chemistry, States of Matter and Chemical Kinetics (UCHTC-401)</p> <p>This course is designed to impart knowledge regarding coordination compounds, various states of matter and kinetics of chemical reactions. In this course the students are expected to learn about the behaviour of transition and inner transition elements. Students will develop a comprehensive knowledge of kinetic theory of gases, concepts of condensed states of matter and the formation and stability of coordination complexes.</p>

Semester V	<p>Course: Spectroscopy, Photochemistry, Organo- metallics and Bioinorganic Chemistry (UCHTC-501)</p> <p>This course provides students with a detailed knowledge of the fundamental aspects of the subject while it focuses on the current topics, e.g. metalloenzymes in metabolism and synthesis, technical applications of hydrogenases or metal containing pharmaceuticals. The students are expected to understand the numerous functions of metal ions and inorganic materials in biology.</p>
Semester VI	<p>Course: Inorganic Materials of Industrial Importance and Organic Spectroscopy (UCHTC-601)</p> <p>In this course students will learn the preparation of some industrial inorganic products and the challenges facing their production. Emphasis is laid on the learning the importance of inorganic chemical industry ,their economic impact, individual chemical processes and production challenges. The laboratory component is designed to reinforce the subject matter learnt in lectures and to help students develop practical skills relevant to inorganic chemical industry.</p>

COURSE SPECIFIC OUTCOMES OF ZOOLOGY

B.SC. SEMESTER-I

Core Course No. : UZOTC 101

Core Course Title: ANIMAL DIVERSITY

CREDITS : 4

Course Outcomes:

At the end of the course the students will be able to comprehend and appreciate the huge diversity of life animal forms existing on the earth ranging from the simplest, smallest protozoan to the highly complex and largest aquatic or land vertebrates. They will learn the basics of systematics and understand the hierarchy of different categories. Students will gain an insight into diagnostic characteristics of different phyla through brief studies of examples while going through the various aspects of physiology, morphology, habits, habitats and adaptations in non chordate and chordate life forms. Besides, they will also be able to obtain an overview of phylogenetic relationships and evolutionary trends of these organisms.

Core Course No. : UZOTC 201

Core Course Title: COMPARATIVE ANATOMY AND DEVELOPMENTAL BIOLOGY OF VERTEBRATES

CREDITS : 4

Course Outcomes:

The course will help students gain a knowledge base for understanding vertebrate anatomy and evolution by explaining to them the basic structures and organization of anatomical systems, their development and function and their modifications in the major transitions in vertebrate evolution. It will help students appreciate the importance of comparative vertebrate biology in understanding our own biology by learning about the organization, function and adaptive strengths and weaknesses of our own bodies, and how these traits have been shaped by our evolutionary history. At the end of the course the students will develop skills of integrative and synthetic thinking by demonstrating how to organize anatomical details into general explanations based on developmental, functional and evolutionary principles, how to draw connections between anatomical changes and changes in habitat, lifestyle, and patterns of evolutionary diversification; and how to use fundamental concepts of comparative anatomy to construct scientific explanations and formulate new questions and lines of inquiry.

Core Course No. : UZOTC 301

Core Course Title: PHYSIOLOGY AND BIOCHEMISTRY

CREDITS : 4

Course Outcomes:

The Course improves the physiological and biochemical understanding through scientific enquiry into the nature of mechanical, physical, and biochemical functions of humans, their organs, and the cells of which they are composed. It helps the students understand the interactions and interdependence of physiological and biochemical processes. Students are taught the detailed concepts of digestion, respiration, excretion and the functioning of nerves and muscles along with the concepts of endocrine systems and homeostasis thereby gaining fundamental knowledge of animal physiology and biochemistry.

Skill Enhancement Course (S.E.C.) No.: UZOTS - 303

Skill Enhancement Course (S.E.C.) Title: APICULTURE

CREDITS : 4

Course Outcomes:

The learner will be able to understand the basic life cycle of the honeybee. Students will get an insight into beekeeping tools and equipment and will learn to manage beehives for honey production, harvest and marketing and pollination. The course will also provide them with the knowledge about bee diseases and pests.

Core Course No. : UZOTC- 401

Core Course Title : Principles of Genetics and Evolutionary Biology

Credits : 4

Course Outcomes:

The students will come to know about the concepts of Mendelian and non mendelian inheritance and the role of genes in genetic disorder, gene mutations- various causes associated with inborn errors of metabolism, the course will also provide an insight into the cell cycle, linkage analysis, chromosomal maps and theories of Evolution along with the knowledge of population genetics and species concept.

Skill Enhancement Course No.: UZOTS -403

Skill Enhancement Course Title: AQUARIUM FISH KEEPING

CREDITS : 4

Course Outcomes:

Provides knowledge of ornamental fish breeding which is highly professional and attractive avenue for youth.

Discipline Specific Elective Course No. UZOTE - 501

Discipline Specific Elective Course Title: APPLIED ZOOLOGY

CREDITS : 4

Course Outcomes:

The course improves the student's understanding of the concepts of fisheries, fishing tools and site selection, Aqua culture systems, induced breeding techniques, post harvesting techniques. It provides an insight into concepts of parasitology and human parasitic diseases and their causal organisms, the types of immunity. The course also outlines the role of animal biotechnology in animal breed improvement and propagation, as well as the knowledge of animal husbandry and important poultry breeds, their breeding and management.

Discipline Specific Elective Course No. UZOTE- 601

Discipline Specific Elective Course Title: INSECT VECTORS AND DISEASES CREDITS : 4

Course Outcomes:

The course improves the understanding of fundamental complement of numerous diseases which have significant impact on human health and Understanding of Insect vector host interactions of many important diseases like Malaria, Filaria, Dengue etc. Course gives insight into physiology, biochemistry and reproduction of insect vectors and their control measures. Students gain knowledge about the concepts of overview of Entomology. Source reduction and environmental methods for vector control, biological control and other Insect bites.

Skill Enhancement Course No. UZOTS- 603
Skill Enhancement Course Title: SERICULTURE
CREDITS : 4

Course outcomes:

It gives knowledge of silk worm rearing, mulberry cultivation, pests and diseases associated with silk worm, mulberry and various process involved in silk production. It is an agro based cottage industry in India that enables them to get self-employment. Sericulture is a comprehensive subject that gives in depth knowledge of the study of silkworms both physiological as well as commercial purposes including the various processes involved in the formation of silk. Students gain knowledge about various systems study of silkworms and cocoons, other defective cocoons, Reeling and significant diseases seen in the silkworms

Course Outcomes: Department of Biotechnology

Bachelor of Science in Biotechnology is an undergraduate Biotechnology course. Biotechnology is a field of applied biology that involves the use of living organisms and bioprocesses in engineering, technology, medicine and other fields requiring by –products. Biotechnology being a multidisciplinary field is in great demand because of its various applications in the field of research and development. The advantage of studying this degree course is that the candidate can further pursue higher studies in specialised fields of sciences i.e. Biotechnology, Microbiology, Biochemistry, Molecular Biology, and Genetics etc.

This program has been inculcated in the stream of education with an aim of opening multiple avenues for students doing graduation in science to have an exposure of Biotechnology. An introduction to the fundamentals of Biotechnology will be an asset for the performance of the students in near future. The objective of the department is to promote safe implication of technology by keeping in mind the ethical standards and to develop human resource to meet the growing demand for biotechnologists in the field of food, agriculture, medicine and environment management. The course involves both theory and practical courses wherein emphasis is laid on the knowledge content (based on the topics in the curriculum), utility value (their application in real life) and current scenarios etc. There is ample number of opportunities for the students of Biotechnology in the field of medical and veterinary sciences, pollution control and waste management.

Semester
I

Course: Biochemistry and Cell Biology (UBTTE- 101)

Course objectives:

The objective of this course is to have a firm foundation in the fundamentals of cell biology and cytogenetics as well as to enable the students to gain an insight into the metabolic processes associated with the catabolism of carbohydrates, amino acids and lipids

Learning outcomes: By the end of the course the student will be able to:

- Develop an understanding of the cytoskeleton and cell membrane · Discuss the cell cycle, structure of chromosome and types of chromosomal aberrations.
- Explain the role of energy rich molecules in metabolism. · Understand the metabolic pathways of carbohydrates, amino acids, and lipids.

Semester
II

Course: Microbiology and Enzymology (UBTTE- 201)

Course objectives:

The objective of this course is to make the students familiar with the microscopic diversity along with the methods of their cultivation *in vitro* and to provide a mechanistic overview of enzyme activity and regulation in cells.

Learning outcomes: By the end of the course the student will learn to: · To understand the concept, principle and types of sterilization methods. Understand the microbial genetics and recombination in bacteria. · Know the cultivation methods of bacteria, yeast and fungi. · To understand the principle and working of laminar air flow. · Plan and execute an enzyme assay.

Semester III	Course: Molecular Biology and Immunology (UBTTE- 301)
	Course objectives:
	<p>The objective of this course is to have an insight into mechanism of gene expression and its regulation in prokaryotes and eukaryotes. Immunology allows the students to understand the immune effector mechanisms and various immune techniques.</p>
	Learning outcomes: By the end of the course the student will learn to:
	<ul style="list-style-type: none"> - Discuss the mechanisms associated with Gene expression at the level of transcription and translation. - Discuss the regulation of gene expression in prokaryotes and eukaryotes. - Understand the role of different cells, effector molecules and effector mechanisms in immunology. - Understand the principles underlying various immunotechniques.
Semester IV	Course: Genetic Engineering and Plant Biotechnology (UBTTE- 401)
	Course objectives:
	<p>The purpose of this course is to introduce the students to basic concepts and techniques in genetic engineering and plant tissue culture.</p>
	Learning outcomes: By the end of the course the student will learn to:
	<ul style="list-style-type: none"> - Understand the reasons behind different plant transformation techniques. - Understand various sterilization techniques involved in <i>in vitro</i> propagation of plants. - To understand the steps involved in rDNA technology.
	Course: Animal Biotechnology (UBTTE- 501)
	Course objectives:
	<p>The course is designed to give students a perspective on the basics of animal biotechnology along with the recent advances in the area. Students will get familiar with the different approaches to generate transgenic animals for various applications.</p>

Semester V	<p>Learning outcomes: By the end of the course the student will be able to:</p> <ul style="list-style-type: none"> · Understand the fundamental concepts of animal cell culture, and its importance · Discuss the significance of transgenic with reference to animal models. · Discuss the principles and applications of animal cloning along with ethical issues.
Semester VI	<p>Course: Environmental Biotechnology (UBTTE- 601)</p> <p>Course objectives:</p> <p>This course has been designed to introduce the students to the basic concepts of environmental biotechnology and focuses on the utilization of microbial processes in waste and water treatment and bioremediation.</p> <p>Learning outcomes: By the end of the course the student will be able to:</p> <ul style="list-style-type: none"> · Define basic concepts in microbial ecology. · Outline the principles of methods for quantification of organic carbon in waste water.

Course Outcomes: Department of Physics

1. The student will demonstrate a scientific knowledge of the core physics principles in Mechanics, Electromagnetism, Modern Physics, and Optics.
2. The student will determine the appropriate level of technology for use in: a) experimental design and implementation, b) analysis of experimental data, and c) numerical and mathematical methods in problem solutions.
3. The student will effectively communicate their knowledge of physics from basic concepts to specific detailed presentations through a variety of oral, written, and computational modalities.
4. The student will demonstrate a purposeful knowledge of scientific literature and ethical issues related to physics.

Department of Mathematics

Programme Outcome of Mathematics

1. A graduate in Mathematics can skillfully manipulate the problems related to algebra, calculus, trigonometry etc.
2. The subject of Mathematics develops logical thinking and expertise required in techniques for proving or disproving the facts after mathematical formulation.

3. A graduate in Mathematics is fully equipped with reasoning skills, logical skills and analytical skills required to qualify various competitive exams.
4. Finally, a student after doing graduation with Mathematics as a subject can utilize his skills in various fields such as Astronomy, Astrology, Weather forecast, Education, Planning, Accounts, Finance, Economics, Statistics, Computing and in almost all sciences.

Course Outcomes

Semester I

Differential Calculus

This course helps the students to trace curves in polar and Cartesian coordinate systems and how to calculate arc length, area and volume of revolution of a curve.

Semester II

Differential Equation

This course intends to develop problem solving skills for solving various types of differential equations.

Semester III

(1) Real Analysis (2) Logic and sets (3) Analytic Geometry (4) Integral calculus

- a) To introduce the real number system and complete ordered field axioms of this system.
- b) To introduce the rigorous meaning of convergence and its relevance to one-variable calculus.
- c) To acquire a conceptual understanding of concepts such as infinite series, limits, continuity, and integration.
- d) A student taking this course would appreciate the reasons underlying the relationship between integration and differentiation, and thereby be able to apply this insight to mathematical models in the natural sciences that rely on calculus.
- e) To develop the knowledge of real valued functions such as sequences convergence and continuity.
- f) To develop the knowledge of classical propositional calculus, properties of sets and relations.
- g) To develop the knowledge of geometry of lines and conics in plane.
- h) To develop the knowledge of application of integration in evaluating arc length, area and volume of revolution of a curve etc.

Semester IV

(1) Algebra (2) Vector calculus (3) Theory of equations (4) Number theory

- a) To develop mathematical logic which is very useful for solving mathematical reasoning problems.

- b) To develop the knowledge of Euclid's Algorithm and solving congruence. c) To understand the concept of curl, gradient and divergence of a vector function.

Semester V

(1) Linear Algebra (2) Matrices (3) Mechanics (4) Probability and Statistics (5) Portfolio optimization (6) Mathematical Modeling.

- a) To introduce the concept of vector spaces and linear transformations in their abstract generality.
 b) To develop the knowledge of solving linear equations, working with matrices, in particular eigen values and eigen vectors
 c) To develop a good understanding of elementary probability theory and its applications. d) To understand the basic concepts of mathematical modeling and their applications to Traffic flow, vibrating string, vibrating membrane, conduction of heat in solids, gravitational potential, conservation laws.
 e) To introduce students to some basic concepts of statics and theoretical

mechanics. **Semester VI**

(1) Numerical Methods (2) Complex Analysis (3) Linear Programming (4) Boolean Algebra (5) Transportation and Game Theory (6) Graph Theory

- (a) Study of methods that are used in numerical approximation.
 (b) To inculcate the knowledge of Topological properties of complex numbers. (c) To formulate real life problems mathematically and solve them using different techniques. (d) To introduce students to ordered sets, switching circuits and Karnaugh diagrams. (e) To formulate and solve the zero sum game between two individuals.
 (f) To understand and apply the fundamental concepts of Graph Theory.

Department of Commerce

Programme Outcome

The course is designed to provide students with a wide range of managerial skills and understanding in streams like finance, accounting, taxation and management. A degree in B.Com opens up innumerable career options and opportunities to the aspiring managers both in India and abroad. It also prepares one to start a business of his/ her own in the capacity of an entrepreneur.

This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., to meet the well trained manpower requirements. The graduates will get hands-on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, and overall Administration abilities of the Company.

Our primary objective is to enable every student to cope up with the latest developments in contemporary, national and global level through effective transaction of the curricular and co curricular aspects. The College motivates molds and prepares the students for positions of leadership in business organizations at the local, national and international levels.

Course Outcomes

Financial Accounting

This course intends to develop conceptual understanding of fundamentals of the financial Accounting system and to impart skills in accounting for various kinds of business transactions. Students are enabled to prepare financial statements in accordance with appropriate standards and interpret the business implications of financial statements. They become able to prepare accounting information for planning and control and for the evaluation of finance.

Business Organization and Management

Management students will develop an awareness of their own values, strengths, and passions through self-reflection. They will learn to become leaders by understanding how to influence others. Students will develop a capacity to generate novel ideas and put them into practice. Develop executives with the capability of integrating knowledge of core business functions and applying in complex, ambiguous and unfamiliar management situations. Students are developed with the capability to lead teams as well as be effective team members and who can work and communicate effectively with diverse team members to identify and solve problems and make responsible recommendations.

Fundamentals of Business Communication

To impart knowledge about basic communication to enable the students to think, observe and express effectively in this competitive world. To develop the ability of the students to communicate clearly and correctly in English and regional languages on the matters relevant to day to day business operation with emphasis on quality of presentation. To help the students for general understanding of the various aspects of business communication and business environment of the country. To develop communication skills and overall personality development of the students

Corporate Accounting

This course aims to enlighten the students on the accounting procedures followed by the Companies. To enable the students to be aware of Corporate Accounting in conformity with the provision of the Companies Act. The students become experts in corporate account management like liquidation, holding account, amalgamation, absorption and

external reconstruction etc. They become familiar with accounts of insurance companies, banking. To give an exposure to the students about company final accounts. The contents of 'Corporate Accounting' have been designed to impart basic knowledge of various aspects of accounting of corporate world.

Indian Contract Act

The basic objective of this course is to provide knowledge about Indian Contract

Act. Cost Accounting

To keep the students conversant with the ever - enlarging frontiers of Cost Accounting knowledge and techniques. The students understand clearly how to reduce and control the cost during the course of production because cost is a vital aspect in modern business. To provide knowledge about the ascertainment of the profitability of each of the products and advise the management to maximize its profits.

Auditing

This course enables the student to be well versed in the fundamental concepts of Auditing. This course gives the knowledge of examines the principles and practices of internal and external auditing. The students can capable to understand the auditing as a component of recurrent and strategic activities, risk assessment, internal control, systems evaluation, forensic accountability, and contemporary audit issues and challenges

Indian Partnership Act

To equip the students with the concept and practices of Indian Partnership Act and latest judgments. To understand the concept of partnerships and be clear about its essentials. Students clearly understand the 'principal - agent relationship' among the partners. They are enabled to differentiate between partnership and other various forms of organization.

Public Finance

The goal is to develop students' analytical and consulting skills in the area of public finance. The course is targeted to those students whose major is in public administration, business government relations, or management in the service industry (education, health care, culture, etc.). To introduce students to the public sector reform agenda with a focus on public finance issues. This course is aimed at students who are interested in fiscal policy including tax and expenditure law and policy concerning how to fund government effectively. It examines the key challenges of fiscal policy in achieving sufficient revenues, economic prosperity and development and in addressing social justice and inequality in a context of globalization. The course provides an introduction to public finance law and policy; tax policy principles; and tax reform and law design principles.

Programme: B.A.

Programme Outcomes

This college offers a degree in Bachelor of Arts (B.A) with different combinations. Students have the option to choose between English, Hindi, Urdu and Dogri as a linguistic course. The other subject areas include Economics, Political Science, Sociology, History, Psychology, Education and Environmental Science. The students go through a well-defined study programme for their all-round development. Following the successful accomplishment of BA, students can look for jobs or go for higher education such as postgraduate degree in any of the areas where BA has been completed. Following are the major outcomes of this programme:

1. Students can go for a career option in various areas following successful accomplishment of their Bachelor of Arts degree. Employment opportunities include Historian, Economist, Educationist, Archaeologist, Political Scientist, Philosopher, Social Activist, Personnel Manager, Psychologist, Sociologist, Philosopher, Public Relation Executive, Lawyer, Journalist and so on.
2. This course also offers opportunities to undergraduates in Banking jobs, SSC, Railway and even Civil services. They can appear for almost every exam where science is not the basic eligibility.
3. After completion of this course students can go for B.Ed, M.A, M.Ed, or PhD and choose teaching as a career either in school or in university.
4. Study of Humanities makes students socially aware. They know the problems of society. Thus many choose to work in NGOs and some open their own.
5. Students having a degree in B.A. have an edge in CAT exams as IIMs looking for diversity. Many arts students pursue their career in Management and Marketing.

Course Outcomes: Department of English

Course Guideline:

English forms the backbone of all the teachings in the institution. The syllabus is designed to develop the overall personality of students to choose their profession in any sphere of life. The study of English as well as the connotation of Education is in the process of transition and metamorphosis in the contemporary times. To grapple with the counter currents of Global and Glocal; vocation based and value based need of education, the syllabus selected is dynamic, eclectic and contemporary. The selection of Dogri short stories like "Chetta" by Chatterpal, and "the Child" by the writer of National repute Munshi Prem Chand and the other intellectual feast like the poems of Ravindra Nath Tagore and William Wordsworth present a complete package of the overall orientation of the students. This also outlines a canvas to all the three levels International, National and the regional. The regional writing provides a means of achieving two fold objectives of introducing the student to their culture and to provide them the confidence of owning the English language- a language that is still to a majority, something alien. With the aim of inculcating young minds with a holistic vision, the students are trained to think out of the box.

Course Code: UENTA-302/402/501/601 English for Ability Enhancement (AECCE) This course is designed to further strengthen the ability of the students through the exercises of language and literature. The literature serves the purpose of introducing the students with the literary masterpieces of the general. In this course an attempt is made to expose our students to various aspects of the stream which includes theory, fundamentals and tool of Communication to help them to develop vital communication skills that would be integral to their personal, social and professional interactions.

Course Code: UENTS-304 (English Language Teaching)

English Language teaching is an exciting and rewarding experience that allows one to explore and discover the world, interacting with people of all ages and cultures. The components of grammar and language are aimed at providing the competence in the use of English language to the undergraduate students. By going through this intellectual journey they can achieve their full potential and excel in this field.

Course Code: UENTS-403 (Creative writing)

The purpose of creative writing is to both entertain and share human experience, like love or loss. The writers attempt to get at the truth about humanity through poetics and storytelling. This course is an integral part of English which recognizes the essential role of the literary arts in the light of our own culture. The creative writing helps the students to develop their own powers of expression, empathy, critical reading and thinking.

The objective of this course is to enhance self-esteem and ability to value each person's own worth through enriching experience of Literature. It also develops natural curiosity that students exhibit in their positive attitude of learning, point of view and personality development.

Course Code: UENTS-503 (Journalism)

This course has been introduced to acquaint the undergraduate students with the ethical and professional standard of Journalism. Journalism serves as voice for the voiceless and acts as a bridge between the people and authorities. The students are apprised with the function of Journalism i.e. to inform, educate, guide and entertain. The objective of this course is to train the students to demonstrate the thorough knowledge of the theory and practice of Journalism and communication.

Course Outcomes: Department of Education

The subject Education is introduced at undergraduate level to develop necessary skills and aptitude among the undergraduate students to pursue teaching as a profession. After this course students develop an aptitude to join Bachelor of Education (B. Ed) course to develop further efficiency in teaching. This course develops the basic understanding of accepted principles of

learning and teaching and widens the understanding of the undergraduates regarding innovative teaching techniques. This course develops understanding of various psychological principles of growth and development and individual differences of the student. Besides, various skill enhancement courses have been introduced in the subject Education to develop the skills among the undergraduates related to various aspects of teaching and learning. Following are the course outcomes in the subject Education.

Course Code-UEDTC-101

Title: Education and Society

Credits: 6

Contact Hours: 6 hours per week

- This course intends to develop a basic understanding of concept, functions, aims and agencies of education among the undergraduates. It makes the students understand the basic concepts of society & Indian society, identify the social and economic problems of Indian society and elaborate upon its major features.
- It also enables the students to understand the concepts of sociology, educational sociology and the relationship between the two.
- This course also acquaints the students with the concept, process, factors of socialization and the concept of social change, factors responsible for social change and role of education in bringing about social change.
- It further helps the students to understand the concept of curriculum, its types, basic principles of curriculum construction and the concept of curricular, co-curricular activities and the importance of organizing various types of co-curricular activities in the educational institutions keeping students' developmental needs in mind.
- This course makes an attempt to enable the students to understand the concept of culture, its types, characteristics and the relationship between Education and Culture. It also enables the students to understand the concepts of national & emotional integration, barriers in the way of national integration and role of education in bringing about national integration.

Course Code-UEDTC-201

Title: Educational Psychology and Statistics

Credits: 6

Contact Hours: 6 hours per week

- This course is introduced to enable the students to understand the meaning of education, psychology & educational psychology and relationship between education and psychology. It also enables the students to understand the meaning, biological & environmental factors and basic principles of growth and development.
- This course is intended to acquaint the students with basic concepts and approaches of learning, theories of learning viz. trial & error and gestalt theories of learning. It also develops a basic understanding of the concept of transfer of learning, its forms and role of teacher in the transfer of learning.
- It helps the students to understand the meaning, components, types and signs of good memory and meaning of forgetting, its causes and various methods of memorising.
- It acquaints the students with the basic understanding of the concepts of intelligence, intelligence quotient, mental age, chronological age, intelligence tests and the theories of intelligence.
- It also acquaints the students with use of statistics in educational situations, skills of graphical representation of data and its types and computation of measures of central tendency.

Course Code-UEDTC-301

Title: Education in Modern India

Credits: 6

Contact hours: 6 hours per week

This course intends

- To develop an understanding of various stages of education in India. · To acquaint students with basic concepts and relevance of Elementary, Secondary and Higher Education.
- To enable the students to understand the concepts and importance of Women Education and Population Education.
- To familiarize the students with concepts and need of Adult Education and Distance Education.
- To acquaint the students with the concepts and relevance of Environmental Education and Educational Technology at different stages of education.
- To help students to understand the concepts and relevance of Teacher Education, Evaluation, Assessment and Certification in quality education.

Course Code: USEDTS-302

Title: Guidance and Counselling

Credits: 4

Contact hours: 4 hours per week

- This course is designed to develop necessary skills and aptitude related to Guidance and Counselling among undergraduates. In this course an attempt is made to explain the concept of guidance and counselling, the principles and functions underlying guidance, need of guidance and counselling in schools/colleges in relation to educational, vocational and personal aspects of the students, the different services in the school/college guidance programme, the various skills in counselling, the types of counselling and the role of a counsellor in counselling process.
- This course is intended to facilitate the proper understanding and assimilation of the concept of *Guidance and Counselling* and to provide a clear and accessible insight into the skills involved in the counselling process.

Core Course-UEDTC-401

TITLE: Psychological Foundations of Education

Credits: 6

Contact Hours: 6 hours per week

This course intends

- To help the students to understand the concept of educational psychology and its objectives. · To help the students to understand the methods of studying human behaviour. · To acquaint the students with various types of special children and educational provisions for these children

develop competence among students about uses and computation of measures of variability

Course Code: UEDTS-402

Title: Methodology of Teaching Learning Process

Credits: 4

Contact Hours: 4 hours per week

- This is an introductory course intended to develop necessary skills and aptitude related to *Methodology of teaching-Learning Process* among undergraduates. This course attempts to make a comprehensive and critical exposition of all the facets of teaching. In this course an attempt is made to explain the concept of Teaching and learning, the principles and maxims of successful teaching, methods of teaching, teaching strategies and devices, use of information and communication technology (ICT) in teaching-learning process.
- The course is strictly utilitarian and is designed to make the teaching-learning process effective, inspirational & interesting. The subject matter of this course intends to facilitate the proper understanding and assimilation of the concept of '*Methodology of Teaching Learning Process*' and provides a clear and accessible insight into the skills involved in the teaching-learning process.

Course Code -UEDTE-501

Title: Principles and Issues of Education

Credits: 6

Contact Hours: 6 hours per week

- This course is introduced to develop a basic understanding of philosophical, sociological and psychological bases of education among the undergraduates along with the concept of major philosophies of education i.e. Idealism, Naturalism and Pragmatism
- It enables the students to understand the educational contribution of J.J. Rousseau, John Dewey, Swami Vivekananda with reference to concept of education, aims, curriculum, instructional techniques, discipline and role of teacher
- It acquaints the students with major issues in education like nature, objectives of Socialistic Pattern of Society and role of education in promoting Socialistic Pattern of Society and upliftment of Community, mass media as a social means of education
- It also enables the students to understand the meaning, significance and scope of Inclusive Education and role of teacher in Inclusive Education.
- It enables the students to understand the concept, characteristics and applications of Normal Probability Curve.

Course Code: UEDTS-502

Title: Special Education

Credits: 4

Contact hours: 4 hours per week

- This course is intended to provide undergraduate students with the knowledge, skills, attitudes, and beliefs that are crucial in constructing learning environments that enable Children with Special Needs to reach their potential.
- This course lays a solid foundation for understanding and education of Special Children who either suffer from various deficits or disabilities, or are gifted. Such children include the orthopaedically handicapped, mentally retarded, visually impaired, hearing impaired, gifted, slow learners, learning disabled and delinquent.

Course Code: UEDTE-601

Title: Development of Educational System in India

Credits: 6

Contact hours: 4 hours per week

This course intends to enable the students to gain knowledge about

- The system of Indian Education during Vedic, Buddhist and Medieval periods.
- Influence of Britishers on Indian Education.
- Impact of British commissions and committees on Indian education.
- Growth and development of Education in the Post-Independence Era.
- New Education Policy and Programme of Action.
- Role of National organizations in the field of education.

Course Code: USEDTS-602

Title: Statistics in Education

Credits: 4

Contact hours: 4 hours per week

- This course is intended to develop a basic understanding of Statistics used in education. It also develops an understanding of elementary statistics in education, measures of central tendency, measures of variability, measures of relative standing and relationship among the undergraduates.
- It also develops an understanding of various applications of normal probability curve.

Department of Economics

Programme Outcomes, Programme Specific Outcomes and Course Outcome Economics is the study of how societies use scarce resources to produce valuable commodities and distribute them among different people. The B.A in economics includes courses like Behavioral Economics, Micro & Macro Theory, Indian Economy, Monetary Economics etc. These courses provide the foundational skills that are required in terms of the theoretical and empirical aspects of the discipline. In the year 2017, Skill Enhancement Courses have been introduced at under-graduate level i.e Financial Economics, Data Analysis, Stock Market, and Rural Development. These courses intended to provide the importance of the financial flow and to critically analyze a growing market of the economy.

The programme to be able to demonstrate the following learning outcomes:

1. To acquaint students with economic aspects of modern society, to familiarize them with techniques for the analysis of contemporary economic problems, and to develop in them an ability to exercise judgment in evaluating public policies.
2. To develop strong numeracy and statistics skills.
3. To enable the students to analyze the complex data sets.
4. To prepare the students to work in different fields like civil services, IES, planning and administrative departments, banking, multinational corporation etc.
5. To enable the students to acquire various skills which they can use to deal with their real life situations i.e how to manage the unlimited wants with limited resources.

In short, the subject economics is highly applicable to many fields and not limit to only one career.

Course Outcomes: Department of Sociology

Course No: USOTC-101 (Introduction to Sociology)

This is an introductory course intended to introduce the students to the discipline of Sociology, its origin, growth, perspectives and relationship with other social sciences. To acquaint the students with the basic concepts and institutions of sociology. It also makes the students to understand the relationship between individual and society, culture and social change.

Course No: USOTC-201 (Society in India)

The basic objective of this course is to aware the students with the distinctive features of Indian society with special reference to the Tribal, Rural and Urban communities. To understand the dynamics of caste and varna that exist in Indian society and also to learn about the distinctive features of basic institutions of Indian society.

Course No: USOTC-301 (Foundations of Sociological Thought)

To aware the students with the history of Sociological theories and make them understand the contribution of pioneers of sociology.

Course No: USOTC-401 (Indian Society- Issues and Problems)

To acquaint the students with the distinctive features of Indian society. To make the students understand the issues and various social problems of Indian society.

Course No: USOTS-402 (SEC- Quantitative Research Methods)

This course aims to enhance the skills of students and to make them understand and use quantitative techniques employed by social scientists to investigate social phenomena. It also provides students with some elementary knowledge on how to conduct quantitative research.

Course No: USOTS-501 (SEC- Qualitative Research Methods)

The goal is to acquaint the students with various components of Qualitative Research. It also provides students with some elementary knowledge on how to conduct qualitative research.

Course No: USOTE-502 (DSE- Tribal Society in India)

The prime objective of this course is to acquaint the students with the characteristics of Tribe and their relationship with other different institutions. This course also aware the students about various tribal problems and issues and the welfare schemes and programmes that are meant for tribal people.

Course No: USOTE-503 (GE- Understanding Sociology)

The basic aim of this course is to introduce the students of other disciplines to the discipline of Sociology-its nature, origin, growth and perspectives. It deals with the basic concepts and institutions of Sociology.

Course No: USOTE-602 (DSE- Social Change, Development and Globalization)

This course aims to enlighten the students with the concepts of Social, Development and Globalization and also help them to understand the theories of social change and various aspects of development and Globalization.

Course No: USOTE-603 (GE- Issues and Problems in Indian Society)

This course aims to introduce the students to the emerging issues in Indian Society and also to make the students understand the various social problems and the challenges that emerge within the society.

Programme Outcomes

Programme: B.C.A

Course Outcomes: Department of BCA

1. To produce employable IT workforce, that will have sound knowledge of IT and business fundamentals that can be applied to develop and customize solutions for Small and Medium Enterprises (SME)

2 To develop skilled manpower in the various areas of information technology like: Database management, Software Development, Computer-Languages, Software engineering, Web based applications etc.

The Program enables the students to:

- a) Understand the fundamental concepts of Computers, Business environment and IT Applications in Business
- b) Successfully understand & analyze technical data to reach actionable conclusions, including technological solutions to the business.

- c) Learn technologies & IT languages, so the business problems could be addressed. d) Develop competent technical writing skills so as to enable the graduate to communicate business ideas to senior management and the general public.
- e) To identify and sharpen their IT/ programming skills.

Learning Outcomes

Our graduates will have

- a) The necessary technical, scientific as well as basic managerial and financial procedures to analyze and solve real world problems within their work domain
- b) Clarity on both conceptual and application oriented skills in commerce, Finance & Accounting and IT Applications in Business context.
- c) Improved communication and business management skills, especially in providing tech support.
- d) Awareness on ethics, values, sustainability and creativity aspects.
- e) The ability and the mindset to continuously update and innovate.

UESTS-104 ENVIRONMENTAL STUDIES

The aim of this course is to make our younger generation Environment conscious. The contents of the course are aimed at exposing the students to the fundamental concepts of Environment so that they can appreciate the importance of individual efforts to protect and preserve our environment. Judicious use of our resources will not only help the present generation but also the future generations in meeting their needs. This can be achieved by spreading Environmental awareness.

UESTS-301 SOLID WASTE MANAGEMENT

The objective of the skill enhancement course is to acquaint students with the existing issues related to solid waste and familiarize them with techniques/technologies available for the redressal of these issues. Considering various practices adopted by urban local bodies in the country to manage waste, the service is falling short due to lack of awareness among the waste generators, lack of expertise and experience due to which waste is not handled properly. The situation is leading to various problems related to human health and the environment. This course emphasizes on SWM priorities including reduction, recycling, composting, waste-to-energy and incineration. The main objective of this course is to enlighten students on the essential principles entailed in the management of society's waste in a manner that meets public health and environmental concerns.

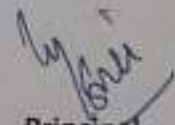
UESTS-401 ENVIRONMENTAL IMPACT ASSESSMENT

EIA is a policy and management tool for both planning and decision making towards creating a sustainable society. Proper EIA is essential before undertaking any project so as to ensure good ecosystem health as well as to minimize the impact on socio-economic aspects of the life of people who are affected by such projects. The purpose of this course is to help students develop a comprehensive understanding of the theory and practice of EIA, to introduce

students to the legal, economic, social, administrative and technical processes for preparing or evaluating Environmental Impact Documents. This course will help students in acquiring better understanding of the ecology of human societies and the social impact of development on communities and regions.

UESTS- 501 ENVIRONMENTAL POLLUTION AND MANAGEMENT

This course aims to provide an understanding of the global environmental problems caused by human activities, fundamental concepts of air, water, noise and land pollution, their sources and impact on the environment. It also focuses on various technologies applied to tackle these environmental problems. After studying this course students will be able to measure and monitor air, water and waste pollution, remediate problems and examine the latest technologies in the field. This course intends to develop critical skills sets for students aiming to pursue a career as an environmental scientist.


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