

Programme Code: 501	Programme Name: B.A. Prog.
Link to Syllabus	http://www.du.ac.in/uploads/RevisedSyllabi1/Annexure-81.%20B.A.(Programme).pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
To imbibe strong foundation of statistics in students. 2. To familiarize students with basic to high-level statistical concepts. 3. To update students with mathematical tools that aid in statistical theory. 4. To teach/strengthen students' knowledge of spreadsheets, programming languages and statistical packages. 5. To promote application oriented pedagogy by exposing students to real world data. 6. To aid students do projects which prepare them for jobs/market.	This course exposes the students to the beautiful world of Statistics and how it affects each and every aspect of our daily life. The course is designed to equip students with all the major concepts of Statistics along with the tools required to implement them. Introduction to computer softwares help them in analysis of data by making optimum usage of time and resources. These softwares give them the necessary support and an edge when progressing to their professional careers. Exposure to plethora of real life data helps in honing their analytical skills. Having practical component with every paper invokes their exploratory side and fine-tunes the interpretation abilities. Such a pedagogy goes a long way in giving them the required impetus and confidence for consultancy startups/jobs in near future. The structure of the course also motivates/helps the students to pursue careers in related disciplines, especially the data sciences financial statistics and actuarial sciences.

Programme Code: 510	Programme Name: B.A.(H) Economics
Link to Syllabus	http://du.ac.in/du/uploads/RevisedSyllabi1/Annexure-170%20(B.A.%20(Hons.)%20Economics).pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
The programme aims to: 1. Train students in basic economic theory; 6 2. Equip students with the mathematical and statistical techniques necessary for a proper understanding of the discipline; 3. Discuss real world economic issues and problems facing the country and the world; 4. Enable students to understand proper policy responses to economic problems; 5. Train students to collect primary data and learn sampling techniques; 6. Train students to use statistical and econometric methods to arrive at conclusions about the validity of economic theories; 7. Train students to learn the art of economic modelling	Programme Learning Outcomes Students will: 1. Get an understanding of basic economic theory; 2. Learn the mathematical and statistical techniques necessary for a proper understanding of the discipline; 3. Get an introduction to real world economic issues and problems facing the country and the world;

Programme Code: 504	Programme Name: B.Com
Link to Syllabus	http://du.ac.in/du/uploads/RevisedSyllabi1/Annexure-92.%20(B.Com%20hons)SYLLABUS.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
This course provides conceptual knowledge of financial accounting and the techniques for preparing accounts in different types of business organisations	After completing the course, the student shall be able to: CO1: understand the theoretical framework of accounting and to prepare financial statements CO2: explain and determine depreciation and value of inventory CO3: learn accounting for hire purchase transactions, leases, branches and departments CO4: understand the concepts of partnership firm and prepare accounts for dissolution of a partnership firm CO5: develop the skill of preparation of trading and profit and loss account and balance sheet using computerized accounting.

Programme Code: 511	Programme Name: B.A. (H) English
Link to Syllabus	http://du.ac.in/du/uploads/RevisedSyllabi1/03092019/03092019-ENG-Final%20consolidated%20Syllabus%20of%20BA(H)%20Eng.%20Sem%201%20draft%20syllabus-%20Post%20Oversight%20Committee%20_23%20August,%202019_.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>This course aims to</p> <ul style="list-style-type: none"> • explore the historical, cultural, and philosophical origins of tragedy and comedy; • engage with both genres in their distinctive form, style, and characterization, including their representation of human aspirations, foibles, grandeur, and vulnerability; • examine representations of disability in mythology through the reading of selections from Ovid • examine the Book of Job from the Old Testament of The Bible for its literary style, including its debate over tragic fate and human suffering, and to locate its enduring influence over subsequent humanist writings; • juxtapose the Old Testament to ideas of compassion and surrender to God's will as outlined in the selection from the New Testament; • study the history of ideas pertaining to the human-social-divine interface in theorisations on form, narrative, social organization, and aesthetics in the writings of Plato, Aristotle, and Horace; and • study gendered explorations of human relations in classical literature in multiple genres, and to examine a woman writer's standpoint on love, war and the primacy of the gendered self. 	<p>Course Learning Outcomes This course is designed to help undergraduate students develop and research composition, argument, and writing skills that will enable them to improve their written abilities for higher studies and academic endeavours. Facilitating the Achievement of Course Learning Outcomes Sl. No Course Learning Outcomes Teaching and Learning Activity Assessment Tasks</p> <p>1 Understanding concepts Interactive discussions in small groups in Tutorial classes Reading material together in small groups initiating discussion topics participation in discussions</p> <p>2 Expressing concepts through writing How to think critically and write with clarity Writing essay length assignments</p> <p>3 Demonstrating conceptual and textual understanding in tests and exams Discussing exam questions and answering techniques Class tests Course Contents</p>

Programme Code: 516	Programme Name: B. A. (H) Hindi
Link to Syllabus	http://du.ac.in/du/uploads/Revi_syll_19082019/22082019_B.A.%20(Hons.)%20Hindi.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>Course Learning Outcomes ाचीन सेआधिनकता ु क ओर आतेहुए वकिसत हो रहेपमी कायशीय िचंतन-धारा क समझ वकिसत होगी नई वचारधाराओं और साहयकता का ान ा होगा Unit 1 इकाई -1. (क) अरत - ू अनकरण ु िसांत, वरेचन िसांत , ासद (ख) लजाइनस- उदा क अवधारणा, उदा के बाहय ोत, उदा के आतंरक ोत , उदा के अवरोधक Unit 2 इकाई -2 (क) वडवथऔर कॉलरज - कवता सबधी मायताएं , कायभाषा सबधी मायताएं , कॉलरज का कपना- िसांत (ख) ट. एस. ड़िलयट-- परपरा और वयक ै ा , िनवयकता का िसांत, वतिन ु सहसंबंध Unit 3 इकाई-3 सामाय परचय - वछदतावाद , मासवाद आलोचना, संरचनावाद, उर-संरचनावाद</p>	<p>Course Objective(2-3) भारतीय कायशा क समृ परंपरा क जानकार ा होगी आधिनक ु हद आलोचना मभारतीय कायशा का देय Course Learning Outcomes संकृत कायशा का ान ा होगा Unit 1 1. भारतीय कायशा क परंपरा (आचायभरतमिनु सेपंडत जगनाथ तक) 2. काय- लण, काय- हेत ,ु काय- योजन Unit 2 3. रस : वप और लण, रस के अगं तथा रस के भेद 4. शद- शयाँ 5. गुण एवं दोष : लण और भेद Unit 3 6. अलंकार शदालंकार : अनासु , यमक, ेष, वो अथालंकार : उपमा, पक, अपुती, उा, अितशयो, िनदशना , यितरेक, वरोधाभास, वभावना, वशेषो, अय</p>

Programme Code:	Programme Name: B. A. (H) History
Link to Syllabus	http://www.du.ac.in/du/uploads/RevisedSyllabi1/03092019/03092019-HISTORY-BA%20History%20Hons%20&%20PROGRAMME%20--%201ST%20SEMESTER%20PAPERS.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>Course Objectives: Being the first paper of the History Honours course, it intends to provide an extensive survey of early Indian history to the students and familiarise them with the tools of studying ancient Indian history. The inter-disciplinary approach of the course provides the students a point of beginning from where they can build an understanding of the discipline of history. Spanning a very long period of India's ancient past – from prehistoric times to the end of Vedic cultures in India – the course dwells upon major landmarks of ancient Indian history from the beginning of early human hunter gatherers to food producers. This course will equip the students with adequate expertise to analyse the further development of Indian culture which resulted in an advanced Harappan civilization. In course of time students will learn about the processes of cultural development and regional variations</p>	<p>After completing the course the students will be able to:</p> <ul style="list-style-type: none"> • Discuss the landscape and environmental variations in Indian subcontinent and their impact on the making of India's history. • Describe main features of prehistoric and proto-historic cultures. • List the sources and evidence for reconstructing the history of Ancient India • Analyse the way earlier historians interpreted the history of India and while doing so they can write the alternative ways of looking at the past. • List the main tools made by prehistoric and proto- historic humans in India along with their find spots. • Interpret the prehistoric art and mortuary practices. • Discuss the beginning and the significance of food production. • Analyse the factors responsible for the origins and decline of Harappan Civilization. • Discuss various aspects of society, economy, polity and religious practices that are reflected in the Early Vedic and Later Vedic texts. • Describe the main features of the megalithic cultures of the Central India, Deccan and South India

Programme Code: 527	Programme Name: B.A. (H) Pol. Science
Link to Syllabus	http://www.du.ac.in/du/uploads/Syllabus_2015/BA%20Hons%20Political%20Science.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
Course Objectives: This course aims to provide students a basic yet interesting and insightful way of knowing and thinking about the world around them. It is centered around three sets of basic questions starting with what makes the world what it is by instructing students how they can conceptualize the world and their place within it. The second module focuses on the basic fault lines that drives the world apart and the last one is designed to help students explore how and why they need to think about the 'world' as a whole from alternate vantage points.	After completion of graduation in this course students will be competent to: <ol style="list-style-type: none"> 1. Understand, analyse, evaluate and reflect the complex political behaviour and its relationship with society. 2. Know about working of various state, non-state institutions, constitution as well as extra constitutional bodies and its relationship with human rights. 3. Deliberate on several on issue and can suggest better way outs in terms of policy making process. 3. Interpret the world in diverse ways and able to provide them new meaning to different events, occasion and happenings. 4. Contribute various ideas communicate better with the world and suggest different pathways which can help to make better world for present and for future

Programme Code: 529	Programme Name: B.A. (H) Sanskrit
Link to Syllabus	http://www.du.ac.in/du/uploads/Syllabus_2015/B.A.%20Hons.%20Sanskrit.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
Course Objectives: This course aims to get students acquainted with Classical Sanskrit Poetry. It intends to give an understanding of literature, through which students will be able to appreciate the development of Sanskrit Literature. The course also seeks to help students to negotiate texts independently	The programme specific outcomes for B.A. (Hons) Sanskrit students include the following:

1. It aims to train students in classical Sanskrit in which major works on various disciplines are written.
2. It is also aims to train them in important traditional disciplines such as - Vedic studies ; prose, poetry and drama which have inspired and continue to inspire great literary works in almost all Indian languages;
3. Students also learn literary criticism or kavya Shastra; vyakarana which covers a large area of linguistics; darshana i.e. philosophy and logic; dharm Shastra which covers many areas of sociology and legal studies
4. The Honours course will thus make students better equipped to pursue their post graduate studies and undertake further research in these disciplines. The programme specific outcomes for B.A. (Program) Sanskrit students include the following:
5. This Programme will help students acquire a general understanding of classical Sanskrit literature and Philosophy and religion, history and culture through Sanskrit texts.
6. Students will acquire advanced knowledge of Sanskrit.
7. Student will demonstrate an increased ability to read and understand Sanskrit texts.
8. They will be able to read Sanskrit texts independently and analyze texts written in classical Sanskrit.

Programme Code: 553	Programme Name: B. Sc. (H) Biochemistry
Link to Syllabus	http://biochem.du.ac.in/web/uploads/B.Sc.%20(Hons)%20Biochemistry%20Final.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>The program aims to:</p> <ol style="list-style-type: none"> 1. Provide students with scholarly experiences, both theoretical and hands-on, that help developing deep interests in learning the chemistry underlying the working of biological systems while developing broad and balanced knowledge and understanding of key biological concepts, principles and theories. The idea is to equip students with appropriate tools of analysis so that they can independently tackle issues and problems in the field of biology and chemistry. 2. Encourage students to study the structure and function of specific molecules and pathways and their interactions and networking in biological systems with particular emphasis on regulation of chemical reactions in living cells. 3. Develop in students an inquisitive learning approach to seek answers regarding the complex workings of various physiological systems, cellular multiplication and differentiation and communication within and between cells and organs, and the chemical bases of inheritance and disease 4. Empower students to apply the knowledge and skills they have acquired to the solution of specific theoretical and applied problems in Biochemistry. 5. Build concepts in biochemistry that would enable them to undertake further studies in Biochemistry and related areas or in multidisciplinary areas and help develop a range of generic skills that are relevant to wage employment, self-employment and entrepreneurship. 	<p>Learning Outcome-based Approach to Curriculum Planning The learning outcomes-based curriculum framework (LOCF) for a B.Sc. degree in Biochemistry is intended to provide a broad framework within which the biochemistry programme is designed such that it enables students to acquire a skill set that helps them understand and appreciate the field of biochemistry. The structure or design of this framework shall ensure a high standard of the Honours degree in Biochemistry in the University. It shall subsequently pave the way for periodic updation and review of the programme, all within the boundaries of the set framework. This programme specification is 7 intended as a reference point for prospective students, current students, examiners and academic and support staff involved in delivering the programme and enabling student development and achievement. Program learning outcomes are the central organizing features of student learning. They are developed from the complex interaction of a range of competing and complementary factors. Since program learning outcomes can only be achieved and demonstrated through component courses, course learning outcomes and their assessment are integrally related to program learning outcomes. The LOCF in Biochemistry aims to achieve this important aspect of a modern teaching programme</p>

Programme Code: 556	Programme Name: B.Sc. (H) Botany
Link to Syllabus	http://du.ac.in/du/uploads/Revi_syll_19082019/19082019_B.Sc.(H)%20Botany.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>The programme is designed to equip students with essential knowledge and technical skills to study plants and related subjects in a holistic manner. The main aim is to train the learners in all areas of plant biology using appropriate combinations of core and elective papers with significant inter-disciplinary components. Students would be exposed to cutting-edge technologies that are currently used in the study of plant life forms, their evolution and interactions with other organisms within the ecosystem. Students would also become aware of the social and environmental significance of plants and their relevance to the national economy</p>	<p>Students will be able to understand and explain different specializations of Botany such as systematics, evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics, cell and molecular biology of plants. 2. Students will be trained in various analytical techniques of plant biology, use of plants as industrial resources or as support system for human livelihood and will be well versed with the use of transgenic technologies for both basic and applied research in plants. 3. Students will be able to identify various life forms of plants, design and execute experiments related to basic studies on evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics, microbiology, molecular biology, recombinant DNA technology, transgenic technology. Students are also familiarized with the use of bioinformatics tools and databases and in the application of statistics to biological data. 4. Students will acquire core competency in the subject Botany and in allied subject areas. They will be able to use the evidence based comparative studies approach to explain the evolution of organism and understand the genetic diversity and its significance. 5. The students will be able to explain various physiological and metabolic processes unique to plants. They would be able to elaborate on the concepts of gene, genome and the molecular processes of replication, transcription and translation. 6. They will be able to understand adaptation, development and behavior of different forms of life. The students will get an understanding of functioning of ecosystem and tracing the energy pyramids through nutrient flow. 7. Students will be able to demonstrate the experimental techniques and methods in plant sciences and have innovative research ideas</p>

Programme Code: 557	Programme Name: B.Sc. (H) Chemistry
Link to Syllabus	http://du.ac.in/du/uploads/Revi_syll_19082019/19082019_B.%20Sc%20Hons%20Chemistry%20%2023July%202019.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>Learning Outcome-based Curriculum Framework in BSc (Hons.) Chemistry The Learning Outcomes-based Curriculum Framework (LOCF) for the B.Sc. (Hons.) degree in Chemistry provides a broad structural framework that can accommodate the current curricular needs as well as gives sufficient flexibility to include changes in content that assume importance as the frontiers of science grow. The inherent flexibility in framework allows design of course basket in tune with individual preferences. The basic uniformity in core course design ensures smooth movement across universities in the country.</p>	<p>The B.Sc.(Hons) programme in Chemistry is designed to develop in students in depth knowledge of the core concepts and principles that are central to the understanding of this core science discipline. Undergraduates pursuing this programme of study go through laboratory work that specifically develops their quantitative and qualitative skills, provides opportunities for critical thinking and team work, and exposes them to techniques useful for applied areas of scientific study</p>

Programme Code: 563	Programme Name: B.Sc. (H) Mathematics
Link to Syllabus	http://du.ac.in/du/uploads/RevisedSyllabi1/Annexure-78.%20(GE%20for%20Hons.(REVISED)).pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>The goal of this paper is to acquaint students with certain ideas about conic sections, vectors in coordinate system and general properties of roots of polynomial equations with some applications</p>	<p>After completion of this paper, the students will be able to: i) Classify and sketch conics four different types of conic sections – the circle, the ellipse, the hyperbola and the parabola – in Cartesian and polar coordinates. ii) Visualize three dimensional objects – spheres and cylinders – using vectors. iii) Understand the properties of roots of polynomial equations</p>

Programme Code: 567	Programme Name: B.Sc. (H) Physics
Link to Syllabus	http://du.ac.in/du/uploads/RevisedSyllabi1/24072019_BSc_hons_physics_2019July15.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>The learning outcomes-based curriculum framework for a degree in B.Sc. (Honours) Physics is intended to provide a comprehensive foundation to the subject, and to help students develop the ability to successfully continue with further studies and research in the subject. The framework is designed to equip students with valuable cognitive abilities and skills so that they are successful in meeting diverse needs of professional careers in a developing and knowledge-based society. The curriculum framework takes into account the need to maintain globally competitive standards of achievement in terms of the knowledge and skills in Physics, as well develop scientific orientation, enquiring spirit, problem solving skills and values which foster rational and critical thinking. Due to the large diversity in India, a central university like the University of Delhi gets students from very different academic backgrounds, regions and language zones. While maintaining high standards, the learning outcome-based curriculum provides enough flexibility to teachers and colleges to respond to diverse needs of students. The learning outcome-based curriculum framework for undergraduate courses in Physics also allows for flexibility and innovation in the programme design to adopt latest teaching and assessment methods and include introduction to new areas of knowledge in the fastevolving subject domains. The process of learning is defined by the following steps which form the basis of final assessment of the achievement at the end of the program. (i) Development of an understanding and knowledge of basic Physics. This involves exposure to basics facts of nature discovered by Physics through observations and experiments. The other core component of this development is introduction to physics concepts and principles, their theoretical relationships in laws of Physics, and deepening of their understanding via appropriate problems. (ii) The ability to use this knowledge to analyze new situations and learn skills and tools like</p>	<p>THE PROGRAMME IN B.SC. (HONS.) PHYSICS The B.Sc. (Hons.) Physics programme builds on the basic Physics taught at the +2 level in all the schools in the country. Ideally, the +2 senior secondary school education should achieve a sound grounding in understanding the basic Physics with sufficient content of topics from modern Physics and contemporary areas of exciting developments in physical sciences. The curricula and syllabi should be framed and implemented in such a way that the basic connection between theory and experiment and its importance in understanding Physics is made clear to students. This is very critical in developing a scientific temperament and the urge to learn and innovate in Physics and other sciences. Unfortunately, our school system in most parts of the country lacks the facilities to achieve the above goal, and it is incumbent upon the college/university system to fill the gaps in the scientific knowledge and understanding of the country's youth who complete school curricula and enter university education. Physics is an experimental and theoretical science that studies systematically the laws of nature operating at length scales from the sub-atomic domains to the entire universe. The scope of Physics as a subject is very broad. The core areas of study within the disciplinary/subject area of the B.Sc. (Hons.) Physics programme are: Classical and Quantum Mechanics, Electricity and Magnetism, Thermal and Statistical Physics, Wave theory and Optics, Physics of the Materials, Digital Electronics, and specialized methods of Mathematical Physics and their applications in different branches of the subject. Along with the theoretical course work students also learn physics laboratory methods for different branches of physics, specialized measurement techniques, analysis of observational data, including error estimation, and scientific report writing. The latest addition to Physics pedagogy incorporated in the LOCF framework is computational physics, which involves adaptation of Physics problems for algorithmic solutions, and modelling and simulation of physical phenomenon. The elective</p>

laboratory techniques, computational methods, and mathematics to find solutions, interpret results and make meaningful predictions. (iii) The ability to synthesize the acquired knowledge and experience for an improved comprehension of the physical problems and to create new skills and tools for their possible solutions	modules of the framework offer students choice to gain knowledge and expertise in more specialized domains of Physics like Nuclear and Particle physics, Nanophysics, Astronomy and Astrophysics, etc. and interdisciplinary subject areas like Biophysics, Geophysics, Environmental Physics, Medical Physics, etc. The physics-based knowledge and skills learnt by students also equip them to be successful in careers other than research and teaching in Physics.
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Programme Code: 584	Programme Name: B.Sc. (H) Ind. Chemistry
Link to Syllabus	http://chemistry.du.ac.in/locf/BSC%20Industrial%20Chemistry%2018%20July%202019.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
The objectives of this paper are to provide basic knowledge of chemistry of pharmaceuticals, cosmetics, perfumes and pesticides considering their importance for human beings. This paper is designed in a manner that it forms a cardinal part of the learning of industrial chemistry for the students. The paper has been designed to impart the theoretical and practical knowledge on the basic chemistry and uses of various pharmaceuticals, cosmetic products and pesticides	By the end of the course, the students will be able to: ♣ Have sound knowledge of pharmaceuticals, cosmetics, perfumes and pesticides. • Become well equipped to design, carry out, record and analyze the industrial preparations • Understand the ethical, historic, philosophical, and environmental dimensions of problems and issues facing industrial chemists. • Become skilled in problem solving, critical thinking and analytical reasoning. • Identify and solve chemical problems and explore new innovative areas of research. • Know the proper procedures and regulations for safe handling and use of chemicals and can follow the proper procedures

Programme Code: 569	Programme Name: B.Sc. (H) Zoology
Link to Syllabus	http://www.du.ac.in/uploads/Syllabus_2015/B.Sc.%20Hons.%20Zoology.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>The BSc. Zoology programme is designed to help the students to</p> <ol style="list-style-type: none"> 1. Gain basic knowledge of various disciplines of Zoology and General biology meant for a graduate and for higher studies. 2. Inculcate interest in nature and its living creatures. 3. Make them understand the unity of life with the rich diversity of organisms and their ecological environment and their significances. 4. Acquire basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation. 5. Increase their awareness for the conservation of the biosphere 	<p>Outcome Students enrolled in B.Sc. (Hons.) degree program in Zoology will study and acquire complete knowledge of disciplinary as well as allied biological sciences. At the end of graduation, they should possess expertise which will provide them competitive advantage in pursuing higher studies from India or abroad; and seek jobs in academia, research or industries. Students should be able to identify, classify and differentiate diverse chordates and nonchordates based on their morphological, anatomical and systemic organization. They will also be able to describe economic, ecological and medical significance of various animals in human life. This will create a curiosity and awareness among them to explore the animal diversity and take up wild life photography or wild life exploration as a career option. The procedural knowledge about identifying and classifying animals will provide students professional advantages in teaching, research and taxonomist jobs in various government organizations; including Zoological Survey of India and National Parks/Sanctuaries. Acquired practical skills in biotechnology, biostatistics, bioinformatics and molecular biology can be used to pursue career as a scientist in drug development industry in India or abroad. Our students will be acquiring basic experimental skills in various techniques in the fields of genetics; molecular biology; biotechnology; qualitative and quantitative microscopy; enzymology and analytical biochemistry. These methodologies will provide an extra edge to our students, who wish to undertake higher studies. In-depth knowledge and understanding about comparative anatomy and developmental biology of various biological systems; and learning about the 7 organisation, functions, strength and weaknesses of various systems will let students critically analyse the way evolution has shaped these traits in the human body. Students undertaking skill enhancement courses like aquaculture, sericulture and apiculture will inculcate skills involved in rearing fish, bees and silk moth which would help them in starting their own ventures and generating self employment making them successful entrepreneurs. Acquired skills in diagnostic testings, haematology, histopathology, staining procedures etc. used in clinical and research laboratories will provide them opportunity to work in diagnostic or research laboratory. Deep understanding of different physiological systems and methods available to measure vital physiological parameters and to comprehend the mechanism behind occurrence of different life threatening disease via laboratory examination, assessment of basic physiological functions by interpreting physiological charts will help to find their career options. Students undertaking wild life management courses would gain expertise in identifying key factors of wild life management and be aware about different techniques of estimating, remote sensing and Global positioning of wild life. This course will motivate students to pursue a career in the field of wildlife conservation and management</p>

Programme Code: 583	Programme Name: B.Sc. Prog Life Science
Link to Syllabus	http://www.du.ac.in/uploads/old-ug-courses/04082010_lifesci.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>B. Sc. (Program) Life Sciences is structured to offer a broad outline within which a holistic biology program could be developed.</p> <ol style="list-style-type: none"> 1. It is expected to upgrade the understanding levels of students and to maintain the requisite standard of Life Sciences/Biology Programs across the country. 2. It allows the review of the learning outcomes, qualification descriptors, and course-level learning outcomes periodically. Further, it offers innovation and flexibility in designing the syllabi and methods to be adopted facilitating learning assessment. 3. Further objective is to enhance the subject knowledge, encouraging the students to be critical thinkers and have a problem-solving approach. Overall, this modified course has been designed to upgrade skills related to biological science giving the students' a competitive edge in securing a career in industry, academia, pharmaceutical research, and as an entrepreneur. 	<p>in B.Sc. (Program) Life Sciences will study and acquire complete knowledge of disciplinary and allied biological sciences. At the end of graduation, they would have expertise which will provide them competitive advantage in pursuing higher studies from India and abroad or seek jobs in academia, research or industries. Students should be able to identify, classify and differentiate in types of chordates and nonchordates based on their morphological, anatomical and systemic organization. This will create a curiosity and awareness among them to explore the animal diversity and take up wildlife photography or wildlife exploration as a career option. The procedural knowledge about identifying and classifying animals will help students professional advantages in teaching, research and taxonomist jobs in various Government organizations, such as Zoological Survey of India or National Sanctuaries. Acquired practical skills in biochemistry and biotechnology can be used in pursuing career as a scientist in pharmaceutical industry in India or abroad. Students will be gaining basic experimental skills in genetics, biotechnology, qualitative and quantitative microscopy, and also enzymology that will give them an edge to pursue higher studies. The skill enhancement courses will hone skills in rearing fish, bees and silk moth for generating self-employment. Students can acquire expertise to join clinical and research laboratories for diagnostic assays, haematology, histopathology, staining procedures etc. They will be able to examine and assess some basic physiological functions and interpret physiological charts</p>

Programme Code: 582	Programme Name: B.Sc. Prog. Physics Science
Link to Syllabus	http://cs.du.ac.in/uploads/syllabus/Other%20Courses/BSc(H)_Phy_11.pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>The emphasis of this course is to develop and enhance the basics of Physical Science including Physics, Chemistry and Mathematics and their with linkages.</p> <ol style="list-style-type: none"> 1. To expose students to fundamental physics and hence enable them to solve a wide range of seen or unseen problems/numerical in different branches of Physics. 2. The course provides physical picture of mathematical topics like vector and Ordinary differential equations and ends on covariant formulation of space-time in special theory of relativity. 3. To expose the students to different topics and concepts in Chemistry and also establish cross-linkages between different disciplines. 5. The emphasis here is to develop critical skills and knowledge that will prepare them not only for doing fundamental and applied research but also prepare them for a wide variety of careers. 	<p>A well-structured Mathematical component in B.Sc.(Programme) Physical/Mathematical Sciences empowers the students to:</p> <ul style="list-style-type: none"> • Solve problems using a broad range of significant mathematical techniques, including calculus, algebra, geometry, analysis, numerical methods, differential equations, probability and statistics along with hands-on learning through CAS and LaTeX. • Analyze quantitative data using statistical analysis techniques. • Combine the principles of physics and chemistry, as supported by mathematics to describe the foundational concepts of the physical world and apply these concepts to new situations. • Apply the techniques of mathematics to understand experimental observations and predict outcomes. • Collaborate with others, including multidisciplinary groups, to solve scientific problems, and to recognize ethical issues in each respective profession

Programme Code: 582	Programme Name: B.Sc. Prog Computer Science
Link to Syllabus	http://www.du.ac.in/uploads/RevisedSyllabi1/Annexure-84.%20(BSc-Phy-Sc-).pdf
Link to Revised Syllabus	http://du.ac.in/index.php?page=revised-syllabi-ug
Programme Objectives	Programme Learning Outcomes
<p>The objective of BSc Physical Science/Mathematical Science Programme with Computer Science is to introduce the discipline to students who want to pursue either higher studies in science or branch off to other disciplines for higher studies, or those who want to be educators. Specifically, the program aims the following achievements for students.</p> <ol style="list-style-type: none"> 1. To attain understanding of computer systems, their applications and fundamentals. 2. To develop ability to apply knowledge of computing to solve computational problems. 3. To analyze a problem, and identify the computing requirements appropriate to its solution. 4. To design, implement, and evaluate a computer-based system, process or program to meet the desired needs. 5. To communicate effectively with a range of audiences 	<p>This course is designed as the first course in programming to develop problem solving skills. The course focuses on modularity, reusability, code documentation, and debugging skills. It also introduces the concept of object-oriented programming. Course Learning Outcomes On successful completion of the course, students will be able to: 1. describe the components of a computer and the notion of an algorithm. 2. apply suitable programming constructs and data structures to solve a problem. 3. develop, document, and debug modular python programs. 4. use classes and objects in application programs. 5. use files for I/O operations</p>