

## Course Outcomes

**HEP Course** gives in- depth knowledge of Politics, Economics and History and fluency in contemporary and historical social theories along with an understanding of how critical application of these theories can contribute to an informed citizenship.

HEP graduates

Develop political critique

Develop historical outlook in all aspects

Learn to participate in economical surveys

**Program Specific course outcomes:** Develop Critical Thinking and awareness about society and its transactions

### **History-Politics-Special English-outcomes**

Develop Functional English Language Skills

Provide Higher Order Thinking skills

Prepare for higher education

Program Specific outcomes

Develop professional skills to become a news reporter or a teacher or an administrator/Economist.

Economics outcomes

As the undergraduate course contains the fields of elementary microeconomics, macroeconomics, basic statistics and mathematical economics students are well equipped with the knowledge based on Economic principles including Consumer's behavior, Producer's behavior, and Market structure. So

They acquire preliminary idea of economic theory& Indian economy

Determine economic variables including inflation, unemployment, poverty, Gross Domestic Product, Balance of payment using statistical methods.

Understand the behavior of consumer and producer.

Understand the theories of exchange among rational economic agents in variant market structure.

Understand macroeconomic policies including fiscal and monetary policies.

Understand economic growth and development.

**Specific outcomes:** The basic knowledge that they have on development, growth, models of development, contribution of education, health, nutrition in economic development, rural development and entrepreneurship development and sustainable development., helps them develop ideas of basic features of Indian Economy and various economic problem in respect of structural change, income inequality, poverty, unemployment, population, infrastructure, balance of payment, financial sector reform.

## **HISTORY - Specific Outcomes**

Students are able to

Analyze the sources critically and logically for constructing Indian history

Analyze relationship between the past and the present.

Develop practical skills helpful in the study and activities related to the historical events.

Understand the background of our religion, administration.

Understand present existing social, political, religious and economic conditions of the people.

## **Specific outcomes-English**

On successful completion of the Programme, the students will be accurate both in oral and written communication as they will be strong in Grammar and its usage. They can express a thorough command of English and its linguistic structures. They can apply critical frameworks to analyze the linguistic, cultural and historical background of texts written in English. They will be familiar with the conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, Journal, film, plays, editorials etc.

BSc students are expected to understand the fundamentals and application of chemical and scientific theories, conduct, record, analyze, and explain the results of chemical experiments, develop skills in problem solving, critical thinking, and analytical reasoning including necessary numeracy skills.

## **Outcomes - MPC Course**

Solves Mathematical problems

Develops scientific outlook

Analyzes different chemical compositions in medicines and nature Students, who complete the course are expected to

Provide a thorough basic knowledge in physics & Chemistry

Bring out the concept of application of the theory in a practical situation.

Help in creative thinking and self-learning.

Expose the various concepts in Mathematics

Exposé the various concepts in Mathematics

Enhance the students' reasoning, analytical and problem solving skills.

Provide a thorough basic knowledge in physics & Chemistry bring out the concept of application of the theory in a practical situation.

Explain the basic scientific principles and methods.

Inculcate scientific thinking and awareness among the student.

Communicate with others in regional language and in English.

Handle the unexpected situation by critically analyzing the problem.

Understand the issues related to nature and environmental contexts and sustainable development.

### **Mathematics- Course outcomes**

Students, who complete the course

Become good at creative thinking and self-learning

Their exposure to the various concepts in Mathematics enhances reasoning, analytical and problem solving skills. They will be able to

Simplify and evaluate Algebraic expressions, solve linear equations and nonlinear equations using analytic methods.

Use mathematical concepts in Real World situations.

Demonstrate the ability to summarize and interpret Data

Demonstrate the ability to solve Financial Math problems.

Demonstrate the ability to solve basic problems in Probability and Statistics.

Understand numbers, way of representing numbers, relationships among numbers and number systems. Students will use Mathematical Models to represent and understand quantitative relationships

Use Boolean algebra to design and simplify Logic Circuits.

Demonstrate the ability to compute Derivatives and Integrals of real valued and Vector Valued functions of several variables.

### **Specific Outcomes**

By becoming numerical literates

Graduates will recognize the importance and value of mathematical thinking, training, and approach to problem solving, on a diverse variety of disciplines; Recognize and appreciate the connections between theory and applications

Become life-long learners who are able to independently expand their mathematical expertise when needed.

have a broad background in Mathematics an appreciation of how its various sub-disciplines are related, the ability to use techniques from different areas, and an in depth knowledge about topics chosen from those offered through the department.

### **Physics-Outcomes**

By the end of this Course students should be able to know about:

Different types of motions - translational motion and rotational motion

Various elastic constants and property of Elasticity

Surface tension and its applications

Oscillations and waves and their properties

Use of waves, Optics and properties of light

Information about gases and theories related to them.

Origin of magnetic property of material

Theory of semiconductor, devices like diode, triode, LED, photo diode and their applications.

The amplification of input signals and designing of amplifier

Vectors and scalar and mathematical applications  
Elasticity of flat spiral spring  
Viscosity of liquids and mathematical theory related with it. 5. Sound and property of sound and their uses.  
Use of Cathode ray oscilloscope and amplifier  
Effects of positive and negative feedbacks  
Circuit and properties of UJT and FETs

### **Physics Program Specific Outcomes**

Students will be able to  
Identify and describe physical systems with their professional knowledge.  
Develop their scientific intuition, ability and techniques to tackle problems either theoretical or experimental in nature.  
Use knowledge of general physics like sound, wave, friction, forces and laws of motion and use of mathematics.  
Acquire Information of electrical current, circuits, construction and their use.  
Learn about concepts of nuclear physics and nuclear energies and importance of their use for mankind.  
Know about the light and its importance in life.

### **Chemistry-outcomes**

Students are expected to  
Learn to apply chemical concepts to solve qualitative and quantitative problems.  
Acquire proficiency in logical deduction skills through written and laboratory work  
Develop and apply appropriate laboratory skills and instrumentation to solve chemical problems while identifying errors in experimental measurements.  
Understand the concepts of safe laboratory practices.  
Learn to dispose of laboratory waste appropriately, learn to comply with safety regulations, and to recognize and minimize hazards in the laboratory.  
Critically evaluate any chemistry related information from a variety of sources and peer reviewed scientific literature.  
Communicate chemistry in written and verbal form.  
Apply chemical principles to address current problems in a variety of fields, and impact of chemistry on society both locally and globally.  
Understand ethical scientific behavior.

### **Zoology-outcomes**

Develop a deeper understanding of natural laws, inquiring about the reasons and logics which govern them through established methods of observation, modeling, experimentation and calculations.  
Open plethora of opportunities for further studies, research as well as lucrative employment opportunities across the globe  
Students learn to identify major groups of organisms with emphasis on animals and will be able to classify them within a phylogenetic network.

They will be able to compare and contrast the characteristics of animals that differentiate them from each other and from other forms of life.

Students will be able to use evidences to explain the theory of evolution which is the only scientific explanation for the unity and diversity of life on earth.

They will understand animal morphology, physiology, propagation and life history.

They will learn how the animals function at the level of genes, genome, cell, tissue, organ and organ system.

They will be able to give specific examples of physiological adaptations, development, reproduction and behavior of animals.

### **ZOOLOGY Specific Outcomes**

Graduates of this program will be able to

Improve their knowledge about criteria for animal classification.

Understand the salient features of chordates and non-chordates.

Understand the nature of habitant with environment.

Improve information about external morphology and anatomy of animals including human being.

Understand the arrangement of organism or groups of organism in distinct categories in accordance with particular & well established plan.

Study specific & scientific names to organism.

Collect information about useful and harmful animals.

### **Botany outcomes**

Students will be able to identify the major groups of plants and will be able to classify them within a phylogenetic framework.

They will be able to compare and contrast the characteristics of plants, algae and fungi that differentiate them from each other and from other forms of life.

Students will be able to use evidences to explain the theory of evolution which is the only scientific explanation for the unity and diversity of life on earth.

They will understand plant morphology, physiology, propagation and life history.

They will learn how the plants function at the level of genes, genome, cell, tissue, organ and organ system.

They will be able to give specific examples of physiological adaptations, development, reproduction and behavior of plants.

Learn the usefulness of plants to the existence and health of other forms of life on earth.

Demonstrate the ability to effectively communicate the subject orally and in writing.

### **BOTANY Program Specific Outcomes**

Graduates will be able to

Identify different resources helpful for human life.

Identifying different groups of plants

Acquire knowledge about inheritance, biochemical and metabolic activities.

Improve horticultural skill.

Acquire knowledge about importance of environment.

### **B.Sc.-(Computer Science) Program Specific Outcomes**

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

Effectively communicate computing concepts and solutions to bridge the gap between computing industry experts and business leaders to create and initiate innovation.

Prepare for a career in an information technology oriented business or industry or for graduate study in computer science or other scientific or technical fields.

Complete successfully to program small –to-mid-size programs on their own.

Utilize the knowledge of computing principles and mathematics theory to develop sustainable solutions to current and future computing problems

### **B Com outcomes**

Understand the qualities of an entrepreneur

Develop the skills to become Accountant Acquires knowledge to act as a Tax consultant

*B.Com* graduates are expected to achieve academic excellence, become active global citizens, leaders in communities. They have umpteen employment opportunities as IT and systems professional, economists, financial planners, human resources managers, social and economic policy developers, and marketing assistant/manager.

The Graduates are able to acquire basic and fundamental knowledge and skills for doing business and commercial activities of their choice.

The program also empowers the graduates to appear for various competitive exams or choose a profession of their choice such as CA, CS, ICWA, MBA, M.Com etc.

The program enables the students to acquire the accounting knowledge, management principles, retail trading, banking and insurance transactions, business economics and financial management.

The students also acquire knowledge in the field of management accounting, corporate accounting, statistical and mathematical techniques and knowledge relating to corporate law and business laws.

The students become capable of doing a business of their choice or choosing a profession or can become employees having basic knowledge and skill required for such activities.

### **Specific Outcomes**

Develops skills to become an expert in Business and Consultancy Services

By virtue of the training and the knowledge, skills and attitudes students acquire during the course, they can become Managers, Accountants, Management Accountants, cost Accountants, Bank Managers, Auditors, Company Secretaries, Teachers, Stock Agents, Government employees.

NCC as an Elective Subject gives them the knowledge and practice to fetch a job and inculcates love for Nation and patriotic fervor

### **Outcomes of the Foundation Course**

‘**Environmental Science**’ creates environmental consciousness, enables them to identify potential environmental hazards and provides solutions.

**Entrepreneurship** helps them understand its relevance as a means of management practice in a global environment and develop opportunities to minimize the external threats.'

**Professional Ethics and Human Values'** help understand all dimensions and all levels of human existence, provide the clarity for human target and universal human order.

### **Outcomes of the certificate courses**

**Yoga & Meditation'** teaches the technique, which provides stress relief among the students

**'Soft Skills'** enhances social skills and build greater confidence.

**Tally** helps them prepare financial statements, help them procure immediate employment.

**'Mathematical Ability'** gives the natural ability to process numerical data and conclude a mathematical calculation based on that data and ability to perform well in competitive examinations.

**Spoken English'** 'Communicative Skills' & Soft Skills help them master L, S, R, W skills.

### **Specific outcomes**

On successful completion of the paper, their LSRW skills enable them to practice those skills in their daily life by identifying instances of communication in the circumstances of their own.

Tally helps them prepare financial statements, help them procure immediate employment.

### **Specific Outcomes**

By virtue of the training and the knowledge, skills and attitudes students acquire during the course, they can become Managers, Accountants , Management Accountants, cost Accountants, Bank Managers, Auditors, Company Secretaries, Teachers, Stock Agents, Government employees etc.

### **JOURNALISM- Outcomes**

Prepares for entry-level positions as professionals within journalism and related fields

Recognize and understand the importance of major journalism and communication genres and periods.

### **Specific outcomes**

Acquiring proficiency in writing skills

Ability to create and design emerging media products

Develop their own critical and thoughtful response to both explicit and implicit communication of media