

# **Programme and Course Outcomes**

## **Bachelor of Arts (General)**

### **Graduate Attributes**

- Introduces the recent class XII pass-outs with a comprehensive model of undergraduate learning
- The course provides a wide array of choices of Elective subjects from the Humanities, Social Sciences, Languages and Arts.
- Provides the learners adequate preparation for taking up Honors in their III Semester and is designed to equip them with basic and conceptual clarity for advanced studies in their proffered elective subjects.

### **Course Outcomes**

- To train newly inducted undergraduates with the necessary social, linguistic, cultural, historical and economical knowledge of the working of society.
- To instruct and groom learners in the attributes of critical and analytical thinking and writing, ethics, team co- ordination, co-operation and empathy towards society in particular and humanity at large.

### **Avenues**

- To build up the learners' critical and analytical reading, writing and thinking abilities so that they are able to understand the advanced nuances of their choice of subjects.
- To enable the learners to respond to pressing social, cultural and economic issues around them.
- To sensitize the learners to the various options available to them at higher levels of learning, after studying their choice of Elective subjects.

## **Functional English Elective Course**

### **Course Content**

- (i) Theory
- (ii) Practicals
- (iii) On-the-job training (Four weeks after Semester IV during the summer vacation)

### **Graduate Attributes**

- The Course of Functional English aims to introduce the learners to basic communication skills in English, Critical Reasoning, Writing and Presentation.
- Learners are familiarized with specialized skills and nuances of Phonetics, Business English, Media Studies (Print Media & Broadcast Journalism) and Electronic Media.

### **Course Outcomes**

- It is a foundational learning course for enhancing the basic proficiency of learners in critical reading skills, effective writing skills, fundamentals of English language and business writing.
- Learners are also familiarized with varied structures of English language like descriptive, narrative and discursive analysis.

### **Avenues**

- The Course enables the learners to build up their reading, writing and listening skills in English language which further equips them for future prospects in the fields of TV, Print journalism, advertising and other streams of mass media.

## **Office Management and Secretarial Practice**

**Course Content**

- (i) Theory
- (ii) Practicals
- (iii) On-the-job training (Four weeks after Semester IV during the summer vacation)

**Graduate Attributes**

- Introduces learners to the basics of Computer Operations & typing, Organisational Behaviour, Office Procedures and Practices and Shorthand Writing
- The Course also focuses on Business and Office Communication Skills

**Course Outcomes**

- The Elective Vocational Course enables learners to support management in office administration and better prepare business documents as well as manage records.
- Equips learners with the necessary business communication skills and the ability to utilize appropriate office technology

**Avenues**

- The learners' competence and skill in Office Administration and Management will help them gain employment in Government and Private Offices, and as professional typists.
- Learners can also be a part of several "Earn While You Learn" programmes initiated within the College alongside the three year course.

# Honours

## Bachelor of Arts

Honours are offered in the following Subjects:

- (i) English
- (ii) Hindi
- (iii) Punjabi
- (iv) Economics
- (v) History
- (vi) Political Science
- (vii) Psychology
- (viii) Sociology
- (ix) Public Administration

## Bachelor of Science

- (i) Physics

## Bachelor of Commerce

- (i) Accounting & Finance
- (ii) Economics
- (iii) Management Studies

# Bachelor of Arts

## English Honours

### Graduate Attributes

- Introduces learners to major trends, history of English literature, thematic concerns, prevalent attitudes and the milieus reflected in iconic texts
- Knowledge of identification of literary devices used by writers

### Course Outcomes

- Builds critical ability to appreciate literature from various levels/perspectives and astute analytical and linguistic skills
- A better understanding of society, politics, culture and economy is achieved

### Avenues

- Opens up literature and language related avenues, such as Editing, Journalism and Academia and forms the basis for admission to Masters Courses in literature and Mass communication.

## Hindi Honours

### Attributes

- To familiarize the students with the form and structure of standard Hindi Language
- To help the students identify various components and types of poetic devices like structural, material etc.

### Outcome

- Right pronunciation; correct way of writing; encouragement of students to instill in themselves more confidence about their creative abilities
- Getting a strong hold on Media-writing, translation, literature and journalism
- Study of Hindi language and literature in totality becomes possible

- Make Hindi studying more goal oriented by making the students aware of various job opportunities in Hindi as Teaching Hindi Officers, Hindi Translators, Interpreters, Journalists, News Readers, Announcers, Anchors, Writers, Lyricist, Content Writers, Tele-Marketing executives, Voice process executives Customer Support executives.

## **Punjabi Honours**

### **Graduate Attributes**

- Introduces learners to modern and medieval Punjabi sensibility and sensitizes them to deep rooted motifs of literature
- Introduces learners to Indian Literature, Punjabi Literature of East Punjab, history of Punjabi literature, literary criticism as well as cultural studies

### **Course Outcomes**

- Enhances proficiency of learners in Punjabi language, literature, writing skills, literary nuances and criticism of Punjabi language
- Critical assessment of literary texts of various writers, periods and genres of Punjabi culture

### **Avenues**

- Competitive exams, careers in Academia

## **Economics Honours**

### **Graduate Attributes**

- Introduces learners to diverse aspects of Industrial Economics and Development Economics, International Economics and Monetary Economics
- Learners are familiarized with models of growth, development, policy frameworks and theories of Industrial location, International trade and Foreign exchange

### **Course Outcomes**

- The course equips the students with fundamentals of Industrial theory and practice on the one hand and International trade on the other.

### **Avenues**

- Academia and Corporate Sector

## **History Honours**

### **Graduate Attributes**

- An in-depth study of various aspects of History through means of Historiography, proper and unbiased study of sources, course of events and various viewpoints of scholars and historians

### **Course Outcomes**

- Analysis of overall impact of historic occurrences, trends and artifacts
- Studying the impact of various revolutions and civil wars in shaping national and international politics, society and culture

### **Avenues**

- Civil Services, Academia, Archaeology and Broadcast journalism, Editorial assistants, Human resource officers or Museum officers

## **Political Science Honours**

### **Graduate Attributes**

- Enhances empirical knowledge of politics at national and international levels and inculcates intellectual curiosity, analytical reasoning, reflective thinking, leadership,

research and investigation skills

#### **Course Outcomes**

- Inculcates the art of problem solving techniques and enables learners to find various alternatives to political problems faced by mankind such as war, economic crisis and violation of human rights
- Grooms learners in the art of political leadership and creates awareness regarding role of International and Regional Organizations

#### **Avenues**

- International affairs, Competitive examinations, Journalism, Academia, Judiciary, Political/ legislative analysts, Politicians, Public policy researchers, Speech/Content writers and jobs in United Nations and Non-Profit Organizations

## **Psychology Honours**

#### **Graduate Attributes**

- To explore behavioral and mental processes, including perception, cognition, attention, emotional intelligence, phenomenology, motivation, brain functioning, and personality and their influence upon our mental health and well-being

#### **Course Outcomes**

- Introduces major concepts, theoretical perspectives, empirical findings, and historical trends in psychology
- Develops critical thinking and scientific approach to solve problems related to behavioral and mental processes.

#### **Avenues**

- Clinical psychologist, school counseling, organizational psychologist, Psychotherapist (Marital therapy, Family therapy, Psychoanalysis) and Sport psychologist

## **Public Administration Honours**

#### **Graduate Attributes**

- To provide a thorough understanding of the role of the Government – Central, State and Local. Understanding of Administrative Theory, Indian, Personnel, Financial, Local and Development Administration

#### **Course Outcomes**

- Familiarization with the types of Government organizations in India, the personnel and financial management therein and the working of administration at Union, State and Local levels

#### **Avenues**

- Academia, business and social organizations like Centre for Rural Reconstruction and Development, Indian Institute / State Institute of Public Administration etc. Public Sector Undertakings, Mass Media and Civil Services or jobs as Political Observers and Correspondents

## **Sociology Honours**

#### **Graduate Attributes**

- Learners are exposed to various sociological perspectives through Indian and foreign thinkers and develops research aptitude for testing theories and accumulation of knowledge

#### **Course Outcomes**

- Provides in-depth study of various terms, concepts and processes which help learners in formulating a sociological imagination and comprehensive understanding of the

discipline, for social transformation of our society

#### **Avenues**

- Competitive exams as well as job prospects in Governmental and Non-governmental organizations

## **Bachelor of Science**

### **Physics Honours**

#### **Graduate Attributes**

- Enables learners to develop ability of advanced, independent, critical enquiry, analysis and reflection with an aptitude for implementation of knowledge of physics in technical writing
- Learners are able to critically examine, synthesize and evaluate knowledge including experimental design, project planning etc.

#### **Course Outcomes**

- Offers theoretical as well as practical knowledge about Physics, Chemistry and Mathematics
- Helps to develop a scientific temper amongst learners which is beneficial for the society as a whole, as scientific development can make nations and societies grow at a rapid pace

#### **Avenues**

- Learners may pursue M.Sc and then opt for research or opt to join Indian Civil services, the Indian Armed Forces, Entrepreneurship, Academia, Research Scientist, Technical Authors, Data analyst, Meteorologist, Nano-technologist, Radiologist or Radiation protection practitioner

## **Bachelor of Commerce**

### **Accounting and Finance Honours**

#### **Graduate Attributes**

- Helps learners in strategic decision making with in-depth knowledge of financial management and learning nuances of buying and selling assets in financial markets

#### **Course Outcomes**

- Provides specialized understanding of concepts, policies and contemporary issues of accounting, along with theoretical and practical background of investments and financial markets

#### **Avenues**

- Higher education like M.Com, MBA etc. or a professional degree in Accounting and Finance. Careers in Banking, Finance, Accounting, in the Government or in the Private Sector

### **Economics Graduate**

#### **Attributes**

- Imparts information related to Economic Development and growth and enables learners to use current and emerging data related to Economic Environment for analytical practices

#### **Course Outcomes**

- Along with the basic knowledge of Commerce, learners are provided with specialized knowledge and skills related to International Trade, Industrial Structure and Economic Development

#### **Avenues**

- The graduates can pursue a Masters degree in Economics, Commerce, and Management or appear for Indian Economic Services (IES)
- Careers in Economic Analysis, Financial Planning, Foreign Affairs, Fund Management, International Business and Trade Analysis

## **Management Studies**

### **Graduate Attributes**

- Imparts skills to learners in marketing functions like designing of advertising strategies and human resource functions like reward structures for employees, training and development
- Aims to inculcate managerial skills among learners thereby making them effective leaders

### **Course Outcomes**

- Imparts deep understanding to learners in the fields of Advertising, Brand Management, Consumer Behaviour and Human Resource Management

### **Avenues**

- Higher education like MCom, MBA, etc. or Marketing executives, Consultants in advertising agencies and Management Trainers

## **Bachelor of Science**

### **B.Sc. Medical (General)**

#### **Graduate Attributes**

- Knowledge related to subjects in pure sciences such as Chemistry, Zoology and Botany
- Evolutionary trends, environmental interactions and economic importance of flora and fauna
- Structure, function, properties and reactions of chemical compounds

#### **Course Outcomes**

- Critical thinking, practical skills and research aptitude using research based pedagogical tools
- Building up entrepreneurial skills and interdisciplinary approach in providing better solutions and new ideas for sustainable development

#### **Avenues**

- Higher studies in Institutes of National repute and research in Chemical / Biological Sciences
- Job opportunities in Education, Environment, Agriculture, Health, Pharmaceutical and allied sectors
- Entrepreneurs

### **B.Sc. Non-Medical (General)**

#### **Graduate Attributes**

- Developing ability of independent, critical enquiry and an aptitude for implementation of knowledge of Physics in technical writing
- Ability to synthesize and evaluate knowledge including experimental design, project planning etc.

#### **Course Outcomes**

- Theoretical as well as practical knowledge of Physics, Chemistry and Mathematics
- Helps to develop scientific temper which encourages scientific evolution of society

#### **Avenues**

- Higher Studies, Research, Entrepreneurship, Indian Civil services or Indian Armed

Forces

- The course enables learners to opt for any of these avenues: Academia, Research Scientist, Technical Authors, Data analyst, Meteorologist, Radiologist, Nanotechnologist, Radiation protection practitioner or Chemist

### **Computer Applications (Elective)**

#### **Graduate Attributes**

- The course imparts skills required for analyzing, designing and developing applications in Information Technology
- Learners are able to develop logic form in or projects in Software Development and Web Applications

#### **Course Outcomes**

- The course enables learners to analyse real world problems and design solutions by applying the concepts of core Programming Languages, Webtools, Data Base Management Systems and Software Engineering
- Learners are also made to understand core concepts like Operating Systems, Data Structures, Networking and Communication along with Physics and Mathematics as other elective subjects

#### **Avenues**

- Masters in Physics, Mathematics, Computer Science, Information Technology, Computer Applications and specialized courses in AI, Data Analytics etc.
- Software Developer, Web Application developer Programmer, DBA, Software Engineer, Technical Trainer, Project Manager(IT),System Analyst, Teacher etc.

### **B.Sc. Microbial and Food Technology**

#### **Graduate Attributes**

- Provides learners with sound hands-on, technical and practical knowledge of General and Food Microbiology, Microbial and Food Biochemistry, Industrial and Environment Microbiology and Fermentation Technology, Microbial Genetics and DNA Technology, Principles of Food Preservation, Packaging and Quality Control

#### **Course Outcomes**

- Prepares learners to explore developments in the Food Sector with the application of Genetic Engineering for providing novel solutions to long standing problems like Micro-nutrient deficiency, Malnutrition and Genetic Disorders
- Provides opportunities in Agriculture based management and (R&D) sector for developing new products like Weaning foods, Therapeutic diets, Organic Foods, etc.

#### **Avenues**

- Food Industry, Research & Development – Agricultural Universities and Institutions, Food and Health Inspectors, Academia, Diet Consultants and Entrepreneurs

### **Bachelor of Computer Application**

#### **Graduate Attributes**

- To make learners conversant with computer programming and developing software and web applications for computers

#### **Course Outcomes**

- Imparts necessary technical skills in various areas of Information Technology like Data Base Management, Computer Languages, Web based applications, Software Development and Project Management
- Helps in producing employable IT work force and enables them to pursue post-



graduation in fields of Information Technology/Computer Science/Applications

#### **Avenues**

- Graphics Designer, DBA, Software Developer, Programmer, Software Engineer, Technical Trainer, Project Manager (IT), System Analyst etc.

## **Bachelor of Commerce**

#### **Graduate Attributes**

- The course aims to build a strong foundation of knowledge in different areas of Commerce
- It aims to enhance the learner's ability of being ethical and collegial in professional practice and trains in effective decision making and problem solving through the application of appropriate theories, principles and data

#### **Course Outcomes**

- The course is an integration of knowledge, skills and attitudes that sustain an environment of learning and creativity among the students.
- The course aims to impart knowledge about the theories and concepts of Accounting, Taxation, Organisation Behaviour, Finance, Human Resource and Marketing Management to the learners.
- Learners are familiarized with different aspects of entrepreneurship and also develop adequate soft-skills to react aptly in decision making situations.

#### **Avenues**

- B.Com graduates may pursue postgraduate studies like MCom and MBA.
- Other career options include Chartered Accountancy, Banking services, Insurance sector, Stock Exchange services, Tax Consultancy, Entrepreneurship, Law or Company Secretary.
- They may also appear for competitive exams conducted by UPSC, UGC etc.

## **Bachelor of Business Administration**

#### **Graduate Attributes**

- Enhances learner's ability to evaluate different business problems using analytical skills and inculcates an attitude for entrepreneurship.
- Learners develop better communication skills, an ability to understand importance of teamwork and proficiency in the use of basic tools of Information Technology.

#### **Course Outcomes**

- The program aims to develop ethical thinking among learners by understanding the principles and practices of management, leadership, teamwork, and social skills.
- Learners will be equipped to analyze socio-political- economic environment of business organizations and understand the laws and practices of taxation.

#### **Avenues**

- BBA graduates can pursue postgraduate studies like M Com, MBA, etc. or go for Chartered Accountancy, Banking services, Hotel Management, Insurance sector, Tax Consultancy and Entrepreneurship.
- They may appear for competitive exams conducted by UPSC, UGC etc

## **Add-on Courses**

Add cutting edge to your aspirations through value added Professional Add-on courses. Students can opt for anyone Add-on at a time.

- (ii) Communicative English (FEA)
- (iii) Cosmetology and Beauty Care (CMT)
- (iv) Floriculture and Landscaping (FCL)
- (v) French (FRA)
- (vi) Interior Designing and Decoration (IDD)
- (vii) Video Reporting (VDO)

### **Communicative English**

#### **Graduate Attributes**

- Introduces learners to communication at various levels by providing proactive training in Speech Skills and Writing Skills

#### **Course Outcomes**

- Improves the reading fluency and writing competence of learners, by making them master the nuances of grammar, syntax, semantics and pronunciation. Develops critical thinking, reading and writing skills of the learners

#### **Avenues**

- Interviewer, Anchor, Newsreader, Commentator, Announcer and Documentary Narrator/script writer with TV/Radio/Newspaper, Feature Writer with Newspaper

### **Cosmetology and Beauty Care**

#### **Graduate Attributes**

- Learners understand human anatomy, skin and hair structure and suggest required treatments for proper care and beautification of skin and hair. Empowers learners on the art of suitable make-up for various occasions.

#### **Course Outcomes**

- Learners are trained in Hair therapies, Beauty therapies, usage of tools and equipment and the art of suitable make-up and hairdos.

#### **Avenues**

- Beauty therapists, make-up artists etc.

### **Floriculture and Landscaping**

#### **Graduate attributes**

- Provides knowledge on fundamentals of floriculture, nursery and seed production, cultivation practices, identification and protected cultivation of flowers
- Familiarization with preparation of beds, plots and maintenance of gardens and lawns

#### **Course Outcomes**

- Enables learners to create sustainable and well-designed landscapes to improve their environment and enhance the aesthetic value of their natural surroundings

#### **Avenues**

- Students are trained in floricultural skills required for work in gas specialists in botanical gardens
- Students may enter the field of garden designers that can help in construction, planting and maintenance of public and private landscapes

## **French**

### **Graduate Attributes**

- Offers multiple contexts for studying the language with many experimental opportunities for students
- Focuses on speaking, listening, reading and writing as well as knowledge of francophone cultures and the skills of collaboration and critical thinking

### **Course Outcomes**

- The learning of the language includes communication skills, pronunciation, vocabulary and grammar, enabling the students to demonstrate good comprehension of written discourse in areas of special interest
- Students are able to communicate effectively in the foreign language via proficient, articulate and well-organized writing

### **Avenues**

- Learning French expands their horizon of opportunities for higher education at some of the best universities in the world and opens the gates for careers in sectors such as, Tourism, Public Relations, Mass Communication, International Organisations, Interpretation, Translation etc.

## **Interior Designing & Decoration**

### **Graduate Attributes**

- Aims at making students learn to create practical and beautiful indoor environments, improving people's lives at home and at work while protecting their health and safety
- Makes them competent in taking independent assignments of designing home interiors, corporate offices, commercial establishments or window displays

### **Course Outcomes**

- Learners are familiarized with global perspectives of design, based on sustainable, socio-economic and cultural contexts and are taught the application of theories of human behavior to human-centered, design solutions
- To apply principles of lighting, acoustics, thermal comfort, and indoor air quality as required, to enhance health, safety, welfare, and performance of building occupants

### **Avenues**

- Learners can work on long or short-term projects, in the fields of hospitality, residential, commercial, healthcare etc. and as Interior & spatial designer, exhibition designer, production or set designers, VM-Visual Merchandiser, Industrial designer, apparel & life style designer etc.

## **Video Reporting**

### **Course Attributes**

- Introduces learners to basics of Journalism and Mass Communication
- Learners are familiarized with specialised skills in Video Reporting, Print Journalism, Video Production and Photography and trained in Camera Handling, TV & Radio Script writing and News Writing

### **Course Outcomes**

- This is a foundational learning course for enhancing the basic proficiency of learners in Video Reporting, Video Editing, News Writing, and Creative TV & Radio Script Writing. They are also familiarised with various News Story structures, Basics of Photography, Photo Editing, Video Editing and Functioning of various Media organisations (Print, Radio, TV)

### **Avenues**

- Enables learners to build their reading, writing and presentation skills which further

prepares them for prospects in the fields of Broadcast, Print Journalism, TV Production and other streams of Mass Media.

## **Master of Arts**

### **MA English**

#### **Attributes**

- Acquaints learners with different genres of Literature and strengthens their critical skills and aptitude for Research
- Includes various literary theories and approaches to the study of literatures of various countries and cultures such as Cultural Studies, Indian Writings, American Literature, World Literature etc.
- Study of Language and Linguistics forms an integral aspect of the course and enhances linguistic abilities

#### **Course Outcomes**

- Learners are sensitized to analyse and probe deeper into the nuances of literature and undertake research initiatives in future
- Enhances analytical faculties essential in understanding culture, politics, social scenarios and power structures

#### **Avenues**

- Apart from Academia, jobs can be sought in the corporate world as Content Writers, Jingle Writers, Language Trainers, Copy Writers and Copy Editors in the Publication Industry too.
- As proficient users of the language, they can become Creative Writers and also get jobs in media.

### **MA Hindi**

#### **Attributes**

- To familiarize the students with the form and structure of standard Hindi Language
- To help the students identify various components and types of poetic devices like structural, material etc.

#### **Outcome**

- Right pronunciation; correct way of writing; encouragement of students to instill in themselves more confidence about their creative abilities
- Getting a strong hold on Media-writing, translation, literature and journalism
- Study of Hindi language and literature in totality becomes possible
- Make Hindi studying more goal oriented by making the students aware of various job opportunities in Hindi as Teaching Hindi Officers, Hindi Translators, Interpreters, Journalists, News Readers, Announcers, Anchors, Writers, Lyricist, Content Writers, Tele-Marketing executives, Voice process executives Customer Support executives.

### **MA Economics**

#### **Attributes**

- The course aims to equip the students to understand the facts, theoretical developments as well as empirical analysis of Economics.
- Learners are taught specialized skills with focus on empirical analysis with respect to various subjects like Macro Economics, GDP, Money and Banking, Econometrics and Industry.

### **Course Outcomes**

- It is an advanced course for enhancing the understanding of the theoretical structure of Macro Economics for comprehension of different issues and policies
- Learners are trained to apply theoretical aspects to practical world, providing them with broader outlook and opportunities in dynamic economic scenario

### **Avenues**

- The course prepares the learners for Civil Service Examinations like Indian Economics Services and National Eligibility Test for Lectureship as well as other competitive exams

## **MA Sociology**

### **Attributes**

- The course aims to present a comprehensive view of the global Society. Learners are exposed to various sociological perspectives through studies of Indian and foreign thinkers
- Learners become adept in applying sociological theories to social issues such as discriminations of gender, caste, class, ethnicity and sexual orientation and are trained to come up with theoretical interventions to address the same

### **Course Outcomes**

- Aids learners in developing research aptitude for testing of theories and accumulation of knowledge
- The learners develop the capacities to address issues related to culture, social structure and institutions, and the manner in which social institutions influence individual lives and behavior

### **Avenues**

- The course prepares the students for various competitive exams and job prospects in governmental and non- governmental organizations or organizations like the World Bank, the United Nations and various other public service organizations
- Learners can work in the fields of Urban Sociology, Rural Sociology, Family Sociology Political Sociology and Ethnic and Race Sociology

## **MA Psychology**

### **Attributes**

- Equips the learners with various research techniques, assessment tools and applications of Psychology in field and lab settings
- Helps learners with basic principles and to gain a better insight into their intra and interpersonal skills, abilities as well as an understanding of the dynamics of human behavior

### **Course Outcomes**

- Learners are familiarized with conceptual practical techniques and skills involved in basic and applied fields of psychology
- The course enhances therapeutic and professional proficiencies of the learners
- Students learn to apply basic research methods in Psychology
- Students learn to apply psychological principles to personal, social, and organizational issues

### **Avenues**

- The course prepares students for research, academically inclined avenues in counselling, clinical, organizational, positive and child psychology viz., clinical psychologist, school counseling (personal as well as vocational counseling),

organizational psychologist, Psychotherapist (Marital therapy, Family therapy) etc.

## **Master of Commerce**

### **Attributes**

- Facilitates the development of professional attributes such as specialist skills, communications, statistical analysis, ethical professional practice, critical thinking, and cultural awareness

### **Course Outcomes**

- Helps learners specialize in Accounting, Finance and Human Resources, develop managerial skills and analyze ethical issues in an organization
- The research and analytical skills of the learners are developed and groomed by the study of Business Research Methods and practical application of the same through project work

### **Avenues**

- Students may pursue MPhil/PhD or take up teaching as their career in higher educational institutions
- Other career options are those of Chartered Accountant, Banker, Company Secretary, Stock Broker, Tax Consultant, Entrepreneurship, Financial Risk Manager (FRM), Certified Management Accountant (CMA), and Research Analyst
- They may also appear for competitive exams conducted by UPSC, UGC etc.

## **Master of Science**

### **Mathematics**

#### **Attributes**

- The course gives advanced knowledge of Mathematics in the areas of Linear Algebra, Statistics, Numerical and Real Analysis. Learners are also given in-depth knowledge of Differential Equations, Measure and Probability, Advanced and Algebraic Topology, Differential Geometry and Number Theory

#### **Course Outcomes**

- The course comprises of twenty papers covering pure and applied streams of Mathematics
- The knowledge and skills obtained during the course help the learners excel in all fields of personal as well as professional life
- Learners are familiarized with an advanced study of Mathematical concepts, both in theory as well as application
- They are taught the skills of identification, formulation and deciphering of complex mathematical problems

#### **Avenues**

- MSc Mathematics opens doors to these professions: Academia, Banking, Insurance, Actuary, DRDO and other similar organizations, Defence sector, Corporate world, Management, Data Analyst, Data Scientist, to name a few.

### **Chemistry**

#### **Attributes**

- Learners are provided with an in-depth knowledge about molecular structures and chemical reactions

- They become equipped with the skills and detailed knowledge of functioning of several laboratory instruments like rota-evaporator, UV- Visible spectro photometer, centrifuge, pH meter, Conductivity meter etc.

#### **Course Outcomes**

- Learners get wide-spread knowledge on molecular interactions and their interplay in controlling properties and chemical reactions. They get ample exposure in different cutting edge experimental techniques to validate their theoretical knowledge

#### **Avenues**

- Learners with multiple skills both in theoretical and experimental chemistry can easily find positions in Chemical Industries, Pharmaceutical Industries, Research and Development, as well as in academics
- Many of them opt for research oriented careers by pursuing PhD and other advanced research

## **Post Graduate Diploma (One year course)**

### **Computer Applications**

#### **Attributes**

- Aims to make learners proficient in using computers and learn the latest trends in various subjects of Computers & Information Technology
- They are equipped with the skills required to develop minor projects

#### **Course Outcomes**

- Provides skills required for designing, developing applications using core programming languages, Web tools and Data Base Management Systems
- To analyse real world problems and design solutions by applying concepts of Software Engineering

#### **Avenues**

- Learners may go for higher studies by opting for MCA (Lateral Entry) 2 years course or MSc Computer Science
- The available job profiles for PGDCA Students are, DTP operators, Technical Trainer, Software Developer, Web Application Developer, Programmer, Software Engineer, Project Manager (IT), System Analyst and Teachers, to name a few

### **Mass Communication**

#### **Attributes**

- Learners are familiarized with specialized skills required in the fields of print journalism, electronic journalism, advertising and public relations

#### **Course Outcomes**

- Besides strengthening the theoretical foundations of the budding media professionals, the course equips them with the requisite skills in areas like copywriting, photography and video-graphy

#### **Avenues**

- The course opens up a plethora of career opportunities in creative or technical areas in newspapers, magazines, radio, television, digital marketing, advertising and public relations