

BACHELOR OF COMPUTER APPLICATION DEGREE (THREE YEARS) / HONORS (FOUR YEARS) FRAMED AS PER NATIONAL EDUCATION POLICY (NEP 2020)

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)s

The Bachelor of Computer Application (Honors) Four Years degree programme has the following objectives...

- I. To prepare the youth to take up positions as system analysts, system engineers, software engineers and programmers.
- II. To aim at developing 'systems thinking' 'abstract thinking', 'skills to analyze and synthesize', and 'skills to apply knowledge', through 'extensive problem solving sessions', 'hands on practice under various hardware/software environments' and 'projects developed'.
- III. To prepare students with 'social interaction skills', 'communication skills', 'life skills', 'entrepreneurial skills', and 'research skills' which are necessary for career growth and for leading quality life are also imparted.

PROGRAMME OUTCOMES (PO)

On completion of BCA (Honors) Four Year Degree Programme the expected programme outcomes that a student should be able to demonstrate are the following:

- **PO1. Computational Knowledge:** Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.
- **PO2. Problem Analysis:** Ability to identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.
- **PO3. Design / Development of Solutions:** Ability to transform complex business scenarios and contemporary issues into problems, investigate, understand and propose integrated solutions using emerging technologies.
- **PO4. Conduct Investigations of Complex Computing Problems:** Ability to devise and conduct experiments, interpret data and provide well informed conclusions.

- **PO5. Modern Tool Usage:** Ability to select modern computing tools, skills and techniques necessary for innovative software solutions
- **PO6. Professional Ethics:** Ability to apply and commit professional ethics and cyber regulations in a global economic environment.
- **PO7. Life-long Learning:** Recognize the need for and develop the ability to engage in continuous learning as a Computing professional.
- **PO8. Project Management:** Ability to understand management and computing principles with computing knowledge to manage projects in multidisciplinary environments.
- **PO9. Communication Efficacy:** Communicate effectively with the computing community as well as society by being able to comprehend effective documentations and presentations.
- **PO10. Societal & Environmental Concern:** Ability to recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.
- **PO11. Individual & Team Work:** Ability to work as a member or leader in diverse teams in multidisciplinary environment.
- **PO12. Innovation and Entrepreneurship:** Identify opportunities, entrepreneurship vision and use of innovative ideas to create value and wealth for the betterment of the individual and society.

PROGRAMME SPECIFIC OUTCOMES (PO)

After the completion of the course, a student is able to

- **PSO1:** Ability to learn the various programming languages with database concepts along with development environment
- **PSO2 :** Ability to apply theoretical and practical knowledge to solve business problems through data communication technology concepts.
- **PSO3 :** Flourish the innovation and research attitude to develop IT artifact.
- **PSO4:** Foster analytical and critical thinking abilities for efficient programming
- **PSO5:** Demonstrate and apply the programming knowledge to develop effective software solution.

- **PSO6:** Enrich the knowledge in the areas of Advanced technologies and business practices.
- **PSO7:** Maintain the personality with environmental and social concerns