

BCA(Hons.)

Programme Overview

PROGRAMME OVERVIEW –

The Programme of BCA (Hons) has been well updated as per NEP 2020 in the Department of Mathematical Sciences & Computer Applications. The full form of BCA is bachelors in Computer Application. BCA is a 3-year undergraduate degree Programme that focuses on knowledge on the basics of computer application and software development. A BCA degree is considered to be at par with a BTech/BE degree in Computer Science or Information Technology. The Programme is unique as it offers a rich blend of theoretical and practical applications of Computer as part of the classroom learning experience and field -based experiential learning. The Programme experience is designed for Software Developer who is looking for a full-fledged career in the area of Computer and enjoy working in an intellectually stimulating environment. A number of career opportunities are open for postgraduate students of Computer. Programme is spread over three academic years and divided into six semesters. The basic objective of BCA Course is to provide young men and women with the required knowledge and necessary skills to get rewarding careers into the changing world of Information Technology. A candidate seeking admission to the BCA Course must have passed 10+2 (any stream) securing not less than 50% marks in aggregate (5% relaxation to ST/SC candidates) from the Central Board of Secondary Education or any other equivalent examination recognized by the Mizoram University preferably with Mathematics as one of compulsory or optional course, or any other vocational course related to the computer stream having either Computer Science or Computer Engineering as compulsory/optional course. The course of BCA includes database management systems, operating systems, software engineering, web technology and languages such as C, C++, HTML, Java etc. Recruiting companies include both big established companies like Accenture, Capgemini, Cognizant and new-age technology startups like Flipkart. The average salary package post BCA varies between INR 1.8 LPA to 7 LPA depending on company and the specific role/designation. A BCA graduate has scope in jobs such as Software Engineer, Web Designer and System Analyst. With the IT industry spreading its wings over every sector from business to medicine, there is a never-ending need for proficient tech enthusiasts in the market. For those inclined towards making a career in this field or those who don't want to go for a traditional BTech, universities have brought a feasible alternative in the form of BCA. A Bachelor of Computer Application (BCA) is ideal for those who love computers and want to delve deeper into how they operate, software, hardware and related tools and technologies. So, let's explore more about this course, the career scope of BCA and see what it has to offer. The department regularly organizes theme-based seminars, workshops and symposiums to impart add-on skills and knowledge to the postgraduate students. Reputed scholars and experts from both national and international communities are often invited speakers at the seminars.

Program Outcomes (POs)

Program Outcomes (POs): It represents the knowledge, skills and attitudes the students should have at the end of BCA (Hons) program.

PO1	Domain Knowledge	Understand, analyze and develop computer programs in the areas related to algorithm, system software, web design and networking. Also Develop the theoretical, Conceptual and applied Knowledge of Computer
PO2	Problem Analysis	Develop the ability to analyze, design and code the software systems.
PO3	Design / Development of Solutions	Able to function effectively on teams to accomplish shared computing design, evaluation and implementation of goals.
PO4	Modern Tool Usage	Recognize the need and adopt appropriate tools and techniques for modern computing practices.
PO5	The Citizen and the Society	Enable students to become informed and responsible citizens by inculcating the practice of rational, ethical thinking and optimal decision-making to minimize resource wastage.
PO6	Environment and Sustainability	Understand the societal, environmental and moral values and its impact with respect to computing, communication, literary and professional practice
PO7	Ethics	Make use of ethical

		practices and cyber regulations in the computing field for managing software projects.
PO8	Individual and Team Work	Manage and build high performance teams by understanding the role of incentives, scientific virtue, decent work and pillars of organization efficiency
PO9	Communication	Practice effective oral and written communication to be able to convey advanced Computer theories and Program in a pragmatic manner to the society
PO10	Project Management	Ability to apply knowledge and understanding of the computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects in multidisciplinary environments.
PO11	Life-Long Learning	Raise awareness on the importance of constant up skilling in the wake of Industry 4.0 and Education
PO12	Computational Knowledge	Demonstrate competencies in fundamentals of computing, computing specialization, mathematics and domain knowledge suitable for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
PO13	Innovation and Entrepreneurship	Ability to apply innovation to track a suitable opportunity to create value and wealth for the betterment of the individual and society at large.

Program Specific Outcomes (PSOs)

Program Specific Outcomes (PSOs): PSOs are statements that describe what the students of BCA (Hons) should be able to do.

PSO1: To produce skill oriented human resource.

PSO2: To impart practical skills among students.

PSO3: To make industry ready resource.

PSO4: Students get the knowledge of relational databases.

PSO5: To know the training and development methods of employees of employee's skills in organization.

PSO6: Assimilate technological expertise with practical skills in various fields of computer applications.