

Course – Bachelor of Computer Application (BCA)

Course Duration: 3 years.

PROGRAM OBJECTIVE:

With the growing use of Computers and Information Technology in our day to day life, it is necessary that we have the trained man power to manufacture, maintain and use the Computers as well as write the software required for the effective and efficient use of the computers and IT. If we try to understand one of the most common features that have enabled the businesses to become successful is that they all have evolved to become information enabled business. Role played by Information technology is that of a driver rather than an enabler. I.T. is used from Simple Office Automation to Decision Support, Re-Engineering and Organization Transformation. A new genre of manpower / managers is required to harness the awesome capabilities of Information Technology and to tap the potential of this tool to its maximum. This course, Bachelor of Science in Information Technology, is designed and introduced by Gauhati University in 2008 to bridge this gap and produce employable graduate in Information technology which will enable the industry to grow and he graduates to become successful in the field of Information Technology. Students who choose this Programme, develop the ability to think critically, logically, analytically and to use and apply current technical concepts and practices in the core development of solutions in the form of Information technology . The knowledge and skills gained with a degree in Computer Science prepare graduates for a broad range of jobs in education, research, government sector, business sector and industry.

The program covers the various essential concepts in Computer Science.

- The course lays a structured foundation of Computer fundamentals, Numerical methods, Data structure, and Algorithm and Complexity analysis, Software Engineering.
- Programming Concepts in various languages(C, C++, Java, Visual Basic etc.)
- The program covers the concept of Computer Networking, System Programming and Administration, Operating System, Digital Image Processing, Embedded systems, Computer Architecture, Microprocessor,
- It also provides detail knowledge PHP programming, Numerical methods, Combinatorial optimization, Computer Graphics and Database management system.

- An exceptionally broad range of topics covering current trends and technologies in computer science: Programming in Python, Cyber Security, Data mining, R-Programming, Data Sciences, Artificial Intelligence and Android Programming.
- Also, to carry out the hand on sessions in Computer lab using various Programming languages and tools to have a deep conceptual understanding of the topics to widen the horizon of students self-experience.