

B.Voc(Cyber Security)

Program Outcomes

The program focuses on the skill enhancement of students in Cyber Security in which following skills are enhanced.

- To identify, analyse and remediate computer security breaches by learning and implementing the real-world scenarios
- To provide students with a comprehensive overview of collecting, investigating, preserving, and presenting evidence of cybercrime left in digital storage devices
- To gain industrial exposure through Industrial Internship in cyber security
- To make them employable according to the current demands of cyber security and IT-oriented security issues and protocols.

This program makes the students able for following job roles:

NSQF LEVEL	Job Role
4	Junior Software Developer
5	Web Developer

COURSE OUTCOMES

COURSE NAME: Fundamentals of Computer and Cyber Security

CLASS - B.Voc. (CS) SEMESTER – I

Course Outcomes

After studying this course, students should be able to:

- understand the fundamental hardware components that make up a computer's hardware and the role of each of these components
- understand the difference between an operating system and an application program, and what each is used for in a computer
- describe some examples of computers and state the effect that the use of computer technology has had on some common products
- Use systems development, word-processing, spreadsheet, and presentation softwares to solve basic information systems problems.
- Understand the basics of cyber security

COURSE NAME: Web Designing using HTML and DHTML

CLASS - B.Voc(CS) SEMESTER – I

Course Outcomes

After successful completion of the course students will be able to

- Use knowledge of HTML and CSS code and an HTML editor to create websites
- Use critical thinking skills to design and create websites.
- Create online forms
- Publish website to the web

COURSE NAME: Computer Programming using C

CLASS - B.Voc(CS) SEMESTER – I

Course Outcomes

After successful completion of the course students will be able to

- **Knowledge and Understanding:** On successful completion of this subject the students have the programming ability in C Language.
- **Intellectual Cognitive/ Analytical Skills:** Enhancing Logical Thinking and Reasoning Skills through Collaborative Learning in C Programming.
- **Practical Skills:** Students would be capable of developing various applications to solve deluge of real-world problems. They can also learn to make system software as well as application software. These existing languages could become base for developing new languages which can inherent its features. On the backend of various embedded systems, these languages are deployed.
- **Transferable Skills:** In many multinational companies they can work effectively in a group or team to achieve goals and can show initiative and leadership abilities.

Semester-2

COURSE NAME: Fundamentals of DBMS

CLASS - B.Voc(CS) SEMESTER – 2

Course Outcomes

After successful completion of the course students will be able to

- **Knowledge & Understanding :** Databases and their design & development
- **Intellectual Cognitive/ analytical skills:** Normalization of Databases.
- **Practical Skills :**Using SQL and PL/SQL
- **Transferable skills:** Usage of DBMS design and administration.

COURSE NAME: Fundamentals of Cyber Security

CLASS - B.Voc(CS) SEMESTER – 2

Course Outcomes

After successful completion of the course students will be able to

- Analyze and evaluate the cyber security needs of an organization.
- Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
- Measure the performance and troubleshoot cyber security systems.
- Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools.
- Design operational and strategic cyber security strategies and policies.

COURSE NAME: Programming using C++

CLASS - B.Voc(CS) SEMESTER – 2

Course Outcomes

After successful completion of the course students will be able to

- **Knowledge and Understanding:**
 - Able to know how to do programming in C++ environment.
 - Able to understand and implement the concepts of object oriented approach using C++.
 - Able to acquire in depth knowledge and develop software in C++
- **Intellectual(Cognitive/ Analytical) Skills:**
 - identify different class attributes, member functions, base class and derived class and their relationships among them
 - learn how to reuse the code using polymorphism
 - Understand and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development.
- **Practical Skills:**
 - to solve a real life existing problems using the features of C++
 - to develop software/ big and complex programs for a complex problems
 - Implement advance features of object oriented approach in other various language(s).

