# COURSE OUTCOMES

## B.Sc. I.T.

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| **F. Y. B.Sc.** | |
| **SEM-I** | |
| **PAPER 1** | **Imperative Programming** **Course Code: USIT101** |
| CO1 | To learn about how computer systems, work and underlying principles |
| CO2 | To understand the basics of C programming needed for computers |
| **PAPER 2** | **Digital Electronics** **Course Code: USIT102** |
| CO1 | Students should be able to understand the concepts of Digital Electronics |
| CO2 | Students should be able to develop logic gates. |
| **PAPER 3** | **Free Operating Systems** **Course Code: USIT103** |
| CO1 | Upon completion of this course, students should have a good working knowledge of operating system |
| CO2 | **Operating System** (OS) is an interface between a computer user and computer hardware. |
| **PAPER 4** | **Discrete Mathematics** **Course Code: USIT104** |
| CO1 | Write an argument using logical notation and determine if the argument is or is not valid. |
| CO2 | Demonstrate the ability to write and evaluate a proof or outline the basic structure of and give examples of each proof technique described. |
| **PAPER 5** | **Communication Skills** **Course Code: USIT105** |
| CO1 | Demonstrate critical and innovative thinking. |
| CO2 | Display competence in oral, written, and visual communication. |
| **SEM-II** | |
| **PAPER 1** | **Object oriented Programming** **Course Code: USIT201** |
| CO1 | Describe the object-oriented programming approach in connection with C++ |
| CO2 | Illustrate the process of data file manipulations using C++ |
| **PAPER 2** | **Microprocessor Architecture** **Course Code: USIT202** |
| CO1 | To illustrate the architecture of 8085 and 8086 microprocessors. |
| CO2 | To introduce the programming and interfacing techniques of 8086 microprocessor |
| **PAPER 3** | **Web Programming** **Course Code: USIT203** |
| CO1 | Describe the architecture of client-side and server-side web applications |
| CO2 | Identify the appropriate programming environment for developing dynamic client-side and server- side web applications. |
| **PAPER 4** | **Numerical and Statistical Methods** **Course Code: USIT204** |
| CO1 | Introduction to mathematical modeling and numerical solution of engineering problems. |
| CO2 | Problem Solving – Approximations, Accuracy, Precision, Round-Off Errors, and Truncation Errors. |
| **PAPER 5** | **Green Computing** **Course Code: USIT205** |
| CO1 | Green Design: Designing energy efficient and environmentally sound components, computers, servers and cooling equipment's. |
| CO2 | A green computer or green IT system is one where the entire process from design, manufacture, use, and disposal involves as little environmental impact as possible |
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| **S.Y.B.Sc.** | |
| **SEM-III** | |
| **PAPER 1 :** | **Python Programming** **Course Code: USIT301** |
| CO1 | Learn python programming language |
| CO2 | Develop GUI based application ith python |
| **PAPER 2** | **Data Structures** **Course Code: USIT302** |
| CO1 | Learn data structure and algorithm |

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| CO2 | Different type of sorting technique |
| **PAPER 3** | **Computer Networks** **Course Code: USIT303** |
| CO1 | Student are going to learn Computer networks |
| CO2 | Identify the Security model like Encryption and Decryption |
| **PAPER 4** | **Database Management Systems** **Course Code: USIT304** |
| CO1 | Introduction to data base management system. |
| CO2 | Learn relation model, perform queries to store data in data base |
| **PAPER 5** | **Applied Mathematics** **Course code: USIT305** |
| CO1 | Identify Different types of matrices |
| CO2 | Learn differential equation |
| | **SEM-IV** |
| **PAPER 1** | **Core Java** **Course Code: USIT401** |
| CO1 | Student will learn java Programming language |
| CO2 | Develop an application with the help of programming |
| **PAPER 2** | **Embedded Systems** **Course Code: USIT402** |
| CO1 | Students should be able to understand the concepts of Embedded System |
| CO2 | Students should be able to develop devices |
| **PAPER 3** | **Computer Oriented Statistical Techniques** **Course Code: USIT403** |
| CO1 | The Mean, Median, Mode, and Other Measures of Central Tendency |
| CO2 | Identify Standard Deviation and Other Measures of Dispersion |
| **PAPER 4** | **Software Engineering** **Course Code: USIT404** |
| CO1 | Introduction to Software Development Process Models. |
| CO2 | Identify Requirements Engineering Processes |
| **PAPER 5** | **Computer Graphics and Animation** **Course Code: USIT405** |
| CO1 | Student to Introduction to Computer Graphics |
| CO2 | Identify Two-Dimensional Transformation and Three Dimension |
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| | **T.Y.B.Sc.** |
| | **SEM-V** |
| **PAPER 1 :** | **Software Project Management** **Course Code: USIT501** |
| CO1 | Perform types of testing |
| CO2 | Project planning |
| **PAPER 2** | **Internet of Things** **Course Code: USIT502** |
| CO1 | What is internet of thing |
| CO2 | Develop IOT machines |
| **PAPER 3** | **Advanced Web Programming** **Course Code: USIT503** |
| CO1 | After completing this course, students will be able to: Identify And develop GUI base application |
| CO2 | Explain the AJAX, ASP.NET technology |
| **PAPER 4** | **Artificial Intelligence** **Course Code: USIT504** |
| CO1 | Student will learn Artificial intelligences |
| CO2 | Develop machines with the help of supervised and unsupervised learning |
| **PAPER 5** | **Enterprise Java** **Course code USIT505** |
| CO1 | Student will develop web-based application with the help of java |
| CO2 | Learn advanced programming language |
| | **SEM-VI** |
| **PAPER 1** | **Software Quality Assurance** **Course Code: USIT601** |
| CO1 | present effective testing techniques (both black-box and Whitebox) for ensuring high quality software |
| CO2 | learn metrics for managing quality assurance and understand capabilities of test tools. |
| **PAPER 2** | **Security in Computing** **Course Code: USIT602** |
| CO1 | identify some of the factors driving the need for network security |
| CO2 | identify and classify particular examples of attacks |
| **PAPER 3** | **Business Intelligence** **Course Code: USIT603** |

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| CO1 | After completing this course, students will be able to: Identify the major frameworks of computerized decision support: decision support systems (DSS), data analytics and business intelligence |
| CO2 | Explain the foundations, definitions, and capabilities of DSS, data analytics and BI.. |
| **PAPER 4** | **Geographic Information Systems** **Course Code: USIT604** |
| CO1 | geographic information science, the study of the nature of geographic information. |
| CO2 | geographic information systems, the management and analysis of digital geographic information |
| **PAPER 5** | **IT Service Management** **Course code USIT606** |
| CO1 | Be confident in selling their service. Measure and manage service quality, customer satisfaction, loyalty and value perceptions |
| CO2 | Analyze the role of employees, customers and technology in service delivery. Be attuned to service personnel role stress. |