| COMPUTER SCIENCE<br>Course Outcome (COs) | | |
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| **SEMESTER** | **SUBJECT CODE AND NAME** | **OUTCOMES** |
| SEMESTER-I | **USCST01**<br>Paper I –<br>**Information and communication technology** | After successful completion of the course the students should be able to-<br>1. Study basic internal diagram of computer, peripherals & itscharacteristics and Number system.<br>2. Take Knowledge about I/O Devices and storageDevices.<br>3. Study Windows Operating system, control Panel and Windows Accessories.<br>4. Study role of network devices and internet in digitalization. |
| | **USCST02**<br>Paper II –<br>**Programming Technique &Introduction to'C'** | After successful completion of the course the students should be able to-<br>1. Study language evolution of computer and translators.<br>2. Identify problem and process analysis andcomplexities of algorithm, Flowchart.<br>3. Able to know the concepts of 'C' along with the keywords, datatypes and operator and itsexpression.<br>4. Knowtheconceptofstatementslikeloopingand conditional based oncondition. |
| SEMESTER-II | **USCST03**<br>Paper-I<br>**Operating system & Linux** | After successful completion of the course the students should be able to-<br>1. Understand the role of operating system as System software.<br>2. Learnwhatisoperatingsystemandvarioustypes of operatingsystem.<br>3. Understand the structure of the Linux Operating system, Types of Shells and learn the various File system commands.<br>4. Learn the Shell script, pipes and filters and use of shell script commands. |
| | **USCST04**<br>Paper-II<br>**Structured programming with 'C'** | After successful completion of the course the students should be able to-<br>1. Understand the structure of Array and its initialization & its variousoperations.<br>2. Know what is structure and union and itsinitialization for betterprogramming.<br>3. Learn the Functions and its categories along with its advantages and basic storageclasses.<br>4. Know the concept of pointer and file and how it isimplemented. |

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| SEMESTER-III | **USCST05** Paper-I **Database management & system analysis** | After successful completion of the course the students should be able to-<br>1. Know the Data base environment with its components and actual role of DBA in various trades.<br>2. Understand the FunctionaldependencyandNormalization with1NF,2NF,3NF,4NF.<br>3. Learn the system analysis, system development life cycle, information gathering tools and tools of structure analysis.<br>4. Acquire the knowledge about System Design and its implementation with various levels of testingand the Documentation. |
| | **USCST06** Paper-II **Object oriented programming with C++** | After successful completion of the course the students should be able to-<br>1. Understand the Basic elements of OOP and various functions used in OOP.<br>2. Learn the concept of object oriented methodology and Creation of classes and objects and its use in OOP.<br>3. Understand the Constructors, Destructors, Operator Overloading and Inheritance.<br>4. Study the concept of Pointers, friend functions, File handling and sequential I/O operations. |
| SEMESTER-IV | **USCST07** Paper-I **Algorithm & Data structures** | After successful completion of the course the students should be able to-<br>1. Know what is data structure and Algorithms, Operations on Data structures, Study various sorting and searchingmethods.<br>2. Study stack and application of stack and its operations with expressions.<br>3. Understand the concept of Recursion and Queue.<br>4. Learn the Linked list, Operations on linked list.<br>5. Study concept of trees and graphs and various terminology used in Trees andgraphs. |
| | **USCST08** Paper-II **Visual basic & Introduction to.Net** | After successful completion of the course the students should be able to-<br>1. Study Integrated Development Environment, Various Programming Constructs like Data types, Variables, Operators, Constants and Control Flow statements.<br>2. KnowvariousVBcontrolslikeforms,labels,textbox, Frame, checkbox etc. and Procedure.<br>3. Understand Interface, Array and ActiveX data object and its architecture.<br>4. Study the concept of .NET for web designing, Windows form integration. |
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| | CODE AND NAME | |
|---|---|---|
| SEMESTER-V | **USCST09.1**<br>Paper-I<br>**E-commerce & Web designing** | After successful completion of the course the students should be able to-<br>1. Know what is E-commerce and benefits of E-commerce and its advantages and disadvantages related toE-market.<br>2. Study Basic of HTML and its tags & its attributes to create & view HTMLdocument and List.<br>3. Understand Linking in HTML. How the links will work, how to give graphics in webpage, Table tags and Frame tags.<br>4. Study Advanced HTML with various controls like text control, password field along with that the concept ofCSS. |
| | **USCST09.2**<br>Paper-II<br>**Database Programming with oracle** | After successful completion of the course the students should be able to-<br>1. KnowwhatisORACLE&SQL,componentsof SQL& study how to write SQL commands in Database.<br>2. Study SQL languages like DDL,DML,DCL& DRL for performing various Queries indatabase.<br>3. Understand SQL functions like character,numeric,date, conversion, conditional function& database objects.<br>4. Learn PLSQL programming with exception handling & study various packages andtriggers. |
| SEMESTER-VI | **USCST11.2**<br>Paper-I<br>**Data Communication with cloudcomputing** | After successful completion of the course the students should be able to-<br>1. Study the concept data communication & study various data transmissions modes, signal, data link controls andmultiplexing.<br>2. Know the concept of data communication network with various switching principles, LAN and MAN andtopologies used inNetworks.<br>3. Learn the Communication Architecture, OSI model and Internetworking.<br>4. Understand the cloud computing basics, &its characteristics. |
| | **USCST11.4**<br>Paper-II<br>**Software Testing** | After successful completion of the course the students should be able to-<br>1. Understand the Basic of software Testing, Origins of Defects, defect classes, Defect prevention strategies.<br>2. Learn the Test case Design Strategies, Black box testing, White box testing, Boundary value Analysis.<br>3. Study the Levels of testing, Unit test Planning, Integration test, System testing, Acceptance testing, Regression testing, Alpha and Beta tests, Website testing.<br>4. Know the Test Management, Test services, Test planning, Test Process, Building a Testing Group. |