PROGRAMME OUTCOMES

PO 1 : To formulate, to model, to design solutions, procedure and to use software tools to solve real world problems.

PO 2 : To design and develop computer programs/computer -based systems in the areas such as networking, web design, security, cloud computing, IoT, data science and other emerging technologies.

PO 3 : To familiarize with the modern-day trends in industry and research based settings and thereby innovate novel solutions to existing problems.

PO 4: To apply concepts, principles, and theories relating to computer science to new situations.

PO 5: To use current techniques, skills, and tools necessary for computing practice.

PO 6 : To apply standard Software Engineering practices and strategies in real-time software project development.

PO 7: To pursue higher studies of specialization and to take up technical employment.

PO 8 : To work independently or collaboratively as an effective tame member on a substantial software project.

PO 9 : To communicate and present their work effectively and coherently.

PO 10: To display ethical code of conduct in usage of Internet and Cyber systems.

PO 11 : To engage in independent and life-long learning in the background of rapid changing IT industry.

COURSE OUTCOMES

| Semester I | |
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| Course name | Course outcomes |
| Digital Systems & | CO 1: Students would be able to learn about how computer systems work |
| Architecture | and underlying principles |
| (USCS101) | CO 2: To understand the basics of digital electronics needed for |
| | computers |
| | CO 3: To understand the basics of instruction set architecture for reduced |
| | and complex instruction sets |
| | CO 4: To understand the basics of processor structure and operation |
| | CO 5: To understand how data is transferred between the processor and |
| | I/O devices |
| Introduction to | CO 1: Ability to store, manipulate and access data in Python |
| Programming with | CO 2: Ability to implement basic Input / Output operations in Python |
| Python(USCS102) | CO 3 Ability to define the structure and components of a Python program. |
| | CO 4: Ability to learn how to write loops and decision statements in |
| | Python. |
| | CO 5: Ability to learn how to write functions and pass arguments in |
| | Python. |
| | CO 6: Ability to create and use Compound data types in Python |
| LINUX Operating | CO 1: Work with Linux file system structure, Linux Environment Handle |
| System (USCS103) | shell commands for scripting, with features of regular expressions, |
| | redirections |
| | CO 2: Implement file security permissions |
| | CO 3: Work with vi, sed and awk editors for shell scripting using various |
| | control structures |
| | CO 4: Install software like compilers and develop programs in C and |
| | Python programming languages on Linux Platform |
| Open Source | CO 1: Differentiate between Open Source and Proprietary software and |
| Technologies | Licensing. |
| (USCS104) | CO 2: Recognize the applications, benefits and features of Open-Source |
| | Technologies |
| | CO 3: Gain knowledge to start, manage open-source projects. |
| Discrete Mathematics | CO 1: Define mathematical structures (relations, functions, graphs) and |
| (USCS105) | use them to model real life |
| | situations. |
| | CO 2: Understand, construct and solve simple mathematical problems. |
| | CO 3: Solve puzzles based on counting principles. |
| | CO 4: Provide basic knowledge about models of automata theory and the |
| | corresponding formal |
| | languages. |
| | CO 5: Develop an attitude to solve problems based on graphs and trees, |
| | which are widely used in |
| | software. |

| Descriptive Statistics | CO 1: Learner will able to organize, manage and present data. |
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| (USCS106) | CO 2: Analyse Statistical data using measures of central tendency and |
| | dispersion. |
| | CO 3: Analyse Statistical data using basics techniques of R. |
| | CO 4: Study the relationship between variables using techniques of |
| | correlation and regression. |
| Soft Skills (USCS107) | CO 1: Learners will be able to understand the importance and types soft |
| (| skills |
| | CO 2: Learners will develop skills for Academic and Professional |
| | Presentations. |
| | CO 3: Learners will able to understand Leadership Qualities and Ethics. |
| | CO 4: Ability to understand the importance of stress management in their |
| | academic & professional |
| | life. |
| | Semester II |
| Course name | Course outcomes |
| Design & Analysis of | CO 1: Students should be able to understand and evaluate efficiency of |
| Algorithms | the programs that they write |
| (USCS201) | based on performance of the algorithms used. |
| | CO 2: Students should be able to appreciate the use of various data |
| | structures as per need |
| | CO 3: To select, decide and apply appropriate design principle by |
| | understanding the requirements of |
| | any real life problems |
| Advanced Python | CO 1: Ability to implement OOP concepts in Python including |
| Programming | Inheritance and Polymorphism |
| (USCS202) | CO 2: Ability to work with files and perform operations on it using |
| | Python. |
| | CO 3: Ability to implement regular expression and concept of threads for |
| | developing efficient |
| | program |
| | CO 4: Ability to implement exception handling in Python applications for |
| | error handling. |
| | CO 5: Knowledge of working with databases, designing GUI in Python |
| | and implement networking in |
| | Python. |
| Introduction to OOPs | CO 1: Work with numeric, character and textual data and arrays. |
| using $C++$ (USCS203) | CO 2: Understand the importance of OOP approach over procedural |
| | language. |
| | CO 3: Understand how to model classes and relationships using UML. |
| | CO 4: Apply the concepts of OOPS like encapsulation, inheritance and |
| | polymorphism. |
| Detel C | CO 1. The energy size the internet of 1 to 1 in the internet of 1 to 1 |
| Database Systems | CO 1: 10 appreciate the importance of database design. |
| (USCS204) | CO 2: Analyse database requirements and determine the entities involved |
| | in the system and their |

| CO 3: Write simple queries to MySQL related to String, Maths and Date Functions.CO 4:Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands.CO 5: Understand the normalization and its role in the database design process. Handle data permissions. CO 6: Create indexes and understands the role of Indexes in optimization search.Calculus (USCS205)CO 1: Develop mathematical skills and enhance thinking power of learners. CO 2: Understand mathematical concepts like limit, continuity, derivative, integration of functions, partial derivatives. CO 3: Appreciate real world applications which use the learned concepts. CO 4: Skill to formulate a problem through Mathematical modelling and |
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| Linear Algebra (USCS302) | CO 1: students would be able to Appreciate the relevance and applications of Linear Algebra in the field of Computer Science. CO 2: Understand the concepts through program implementation. CO 3: Install a computational thinking while learning linear algebra. CO 4: Express clear understanding of the concept of a solution to a system of equations. CO 5: Find eigenvalues and corresponding eigenvectors for a square matrix. |
|---|---|
| Data Structures (USCS303) | CO 1: Create different types of data structures.CO 2: Understand which data structure to be used based on the type of the problem.CO 3: Apply combined knowledge of algorithms and data structures to write highly effective programs in various domains. |
| Advanced Database Concepts (USCS304) | CO 1: Master concepts of stored procedure, functions, cursors and triggers and its use. CO 2: Learn about using PL/SQL for data management. CO 3: Use efficiently Collections and records. CO 4: Understand concepts and implementations of transaction management and crash recovery. |
| Java based Application Development (USCS305) | CO 1: students will able to Design basic application in java using Graphical User Interface. CO 2: The learner will be able to develop applications using swings CO 3: The learner will be able to develop web based applications using servlet and jsp CO 4: The learner will be able to connect databases with java through CO 5: The learner will be able to perform programs using JSON objects |
| Web Technologies (USCS306) | CO 1: students will be able to Design valid, well-formed, scalable, and meaningful pages using emerging technologies. CO 2: Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites CO 3: Develop and implement client-side and server-side scripting language programs. CO 4: Develop and implement Database Driven Websites. CO 5: Design and apply XML to create a markup language for data and document centric applications |
| Green Technologies (USCS3071) | CO 1: Students will be able to Explain drivers and dimensions of change for Green Technology CO 2: Appreciate Virtualization; smart meters and optimization in achieving green IT CO 3: Gain knowledge about green assets, green processes, and green enterprise architecture CO 4: ISO 14001 and related standards for Audit for Green Compliance |

| | Semester IV | |
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| Course name | Course outcome | |
| Theory of | CO 1: Students will be able to Understand Grammar and Languages | |
| Computation | CO 2: Learn about Automata theory and its application in Language | |
| (USCS401) | Design | |
| | CO 3: Learn about Turing Machines and Pushdown Automata | |
| | CO 4: Understand Linear Bound Automata and its applications | |
| Computer Networks | CO 1: Students will able to Learn basic networking concepts and layered | |
| (USCS402) | architecture. | |
| | CO 2: Understand the concepts of networking, which are important for | |
| | them to be known as a 'networking professionals'. | |
| Software Engineering | CO 1: Students will able to Plan a software engineering process life cycle, | |
| (USCS403) | including the specification, design, implementation, and testing of | |
| | software systems that meet specification, performance, maintenance and | |
| | quality requirements | |
| | CO 2: Analyse and translate a specification into a design, and then realize | |
| | that design practically, using an appropriate software engineering | |
| | methodology. | |
| | CO 3: Know how to develop the code from the design and effectively | |
| | apply relevant standards and perform testing, and quality management | |
| | and practice | |
| | CO 4: Able to use modern engineering tools necessary for software | |
| | project management, time management and software reuse. | |
| IoT Technologies | CO 1: Students will able to understand SoC and IoT | |
| (USCS404) | CO 2: use different types of IoT Platforms and interfaces | |
| | CO 3: understand and implement an idea of various types of applications | |
| | built using IoT | |
| Android Application | CO 1: Students will be able to Build useful mobile applications using | |
| Development | Kotlin language on Android | |
| (USCS405) | CO 2: Install and configure Android Studio for application development | |
| | CO 3: Master basic to intermediate concepts of Kotlin required for mobile | |
| | application development | |
| | CO 4: Use built-in widgets and components, work with the database to | |
| | store data | |
| | CO 5: Master key Android programming concepts and deploy the | |
| | application on Google Play | |
| Advanced Application | CO 1:Students will be able to Store the data in NoSQL, document- | |
| Development | oriented MongoDB database that brings performance and scalability. | |
| (USCS406) | CO 2: Use Node.js and Express Framework for building fast, scalable | |
| | network applications | |
| | CO 3: Use AngularJS framework that offers declarative, two-way data | |
| | binding for web applications. | |
| | CO 4: Integrate the front-end and back-end components of the MEAN | |
| | stack. | |
| | CO 5: Develop robust mobile applications using Flutter. | |

| | infrastructure of cloud computing, including SaaS, PaaS, IaaS, public |
|------------------------------|--|
| Cloud Computing (USCS602) | CO 1: Learner should be able to articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing using open source technology. |
| (USCS601) | CO 2.: Also implement and evaluate new ideas for solving wireless sensor network design issues |
| Communication | implementation and use of wireless sensor networks. |
| Networks and Mobile | sensor networks, describe the concepts, protocols, design, |
| Wireless Sensor | CO 1: Learner should be able to list various applications of wireless |
| Course name | Course outcomes |
| | Semester VI |
| (USCS507) | working style of developers where everything remains on internet and they need to review it, understand it, be a part of community and learn. |
| Game Programming | CO 1: Learner should study Graphics and gamming concepts with present |
| | CO3: Deal with Security and QoS issues of Web Services |
| | CO 2: Design SOAP based / RESTful / WCF services |
| (USCS506) | such as WSDL. |
| Web Services | CO 1: Emphasis on SOAP based web services and associated standards |
| | against the threats in a network |
| | application. |
| | and identify & Analyse particular security problems for a given |
| (USCS504) | CO 2: Understand a variety of generic security threats and vulnerabilities, |
| Network Security | techniques. |
| Information and | CO 1: Understand the principles and practices of cryptographic |
| | report for software quality control and assurance. |
| (USCS503) | managing those defects for improvement in quality for given software. CO 3: Design SOA activities SOA strategy formal technical review |
| Quality Assurance | CO 2: Understand a variety of software metrics, and identify defects and |
| Software Testing and | CO 1: Understand various software testing methods and strategies. |
| | CO 3: Learner will have proficiency in Linux server administration. |
| (USCS502) | as per requirement. |
| Administration | CO 2: Learner will be able to install appropriate service on Linux server |
| Linux Server | CO 1: Learner will be able to develop Linux based systems and maintain |
| Course nome | Course outcome |
| | research paper and publish the paper. |
| | CO 3: Understand ethical issues in research, write research report, |
| | design, data analysis and interpretation. |
| (USCS4071) | CO 2: Understand and apply basic research methods including research |
| Methodology | describe the research process and research methods. |
| Research | CO 1: Students will be able to Define research formulate problem and |

| | cloud, private cloud, hybrid cloud, etc. They should explain the core issues of cloud computing such as security, privacy, and interoperability. |
|------------------------------------|--|
| Information Retrieval (USCS604) | CO 1: Learner should get an understanding of the field of information retrieval and its relationship to search engines.CO 2: It will give the learner an understanding to apply information retrieval models. |
| Data Science (USCS606) | CO 1.: Learner should be able to understand & comprehend the problem; and should be able to define suitable statistical method to be adopted. |
| Ethical Hacking (USCS607) | CO 1: Learner will know to identify security vulnerabilities and weaknesses in the target applications. CO 2; Learner will know to test and exploit systems using various tools and understand the impact of hacking in real time machines. |