

SACRED HEART COLLEGE (AUTONOMOUS)

Tirupattur – 635 601, Tamil Nadu, S.India

Ready for Every Good Work

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A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987 Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

Name of the Programme: M Sc. Computer Science

| S No | Title of the Paper | Course Code | Course Objectives | Course Outcomes | Relevance |
|------|----------------------------------|----------------|--|---|-------------------------------|
| 1 | PRINCIPLES OF COMPILER DESIGN | MCS170T | To know the basic concepts of compilers. To explore the phases of a compiler To know how the source program is executed in the compiler. To bring in the types of grammar To develop opcode for the code generation phase. | On successful completion of this Course, students will be able to Clarify the role of compiler in programming language. Describe the lexical analysis, syntax analysis, intermediate code generation, code optimization and code generation. Demonstrate the need and role of the parser, context free grammars. Organize the syntax tree for any given expressions. Compare the different phases of the compiler and its uses. Develop opcode for the code | global developmental needs |

| 2 | ADVANCED JAVA PROGRAMMING | MCS171T | To introduce programming with Applet and AWT. To give an overview of database access and details for managing information using the JDBC API. To examine the use of networking and collections. To learn how to program Servlet and JSP. To understand the web programming concepts in the perspective of Client and Server. | generation phase. On successful completion of this Course, students will be able to Discover various techniques used Applet Programming. Relate Abstract Window Toolkit(AWT) and Events to design Java Applications Infer CRUD operations of the database using JDBC Examine collections and networking with jav.net and java.net packages Evaluate various server side programming in java. Produce web based java Applications using Servlet and JSP. | global developmental needs |
|---|------------------------------|---------|--|--|-------------------------------|
| 3 | WINDOWS APPLICATIONS | MCS172T | To know the differences between desktop and web application. To construct classes, methods, and accessor and instantiate objects. To create and manipulate GUI components in C#. To code solutions and compile C# projects within the .NET framework. To build own desktop | On successful completion of this Course, students will be able to Recognize the differences between desktop and web applications Demonstrate the classes, methods, accessor and instantiate objects Build own desktop application with Database | global developmental needs |

| | | | application with Database | Analyze the features of Windows Presentation Foundation (WPF) Find the way to code solutions and compile C# projects within the .NET framework Create and manipulate GUI components in C#. | |
|---|----------------------------------|---------|---|---|-------------------------------|
| 4 | OPEN SOURCE TECHNOLOGIES | MCS173T | To learn designing webpage using HTML & CSS To understand the concept of Database To learn Server-side scripting language To introduce applications using PHP with MYSQL | On successful completion of this Course, students will be able to Clarify the concept of open source technologies and tolls. Describe the basics of the Internet like WWW, DNS, web hosting, web publishing, search engines, and protocols. Solve programs using HTML for web page creation and updating. Examine the working process of any website in real time. Compare between client side script and server side script. Develop websites using HTML, CSS, PHP, MySQL tools. | global developmental needs |
| 5 | ELECTIVE – I: A. WEB SERVICES | MCS174A | To examine fundamental XML technology To understand the use of JSON To gain an understanding about | On successful completion of this Course, students will be able to Understand the use of web | global developmental needs |

| | | | the role of web services in commercial applications To learn the emerging standard protocols like SOAP, WSDL and UDDI. To introduce the role of web services in CMS | services in B2C and B2B applications. Efficiently design principles and application of SOAP and REST based web services. Identify and select the appropriate framework components in creation of web service solution Apply OOP principles to creation of web service solutions. Implement an application that uses multiple web services in a realistic business scenario. Design collaborating web services according to a specification. | |
|---|---|---------|---|--|-------------------------------|
| 6 | ELECTIVE-I : B. DATA MINING AND WAREHOUSING | MCS174B | On successful completion of this Course, students will be able to Recognize the basic concepts of data mining Understand the techniques of data classification using various algorithms Characterize the role of data mining techniques in various fields Apply various clustering methods for analysis Develop skill in selecting the | To understand data mining principles and techniques. To expose the students to the concepts of data warehousing architecture and implementation. To study the overview of developing areas – web mining, text mining and ethical aspects of data mining. To identify business applications and trends of data mining. | global developmental needs |

| | | appropriate data mining algorithm for solving practical problems Handle the process of data analysis, identifying the problems, and choosing the relevant models and algorithms to apply. | • To understand the concept of web mining. | |
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| 7 PRACTICAL - I: ADVANCED JAVA PROGRAMMING | MCS175P | To introduce programming with Applet and AWT. To give an overview of database access and details for managing information using the JDBC API. To Examine the use of networking and collections. To learn how to program Servlet and JSP. To understand the web programming concepts in the perspective of Client and Server. | On successful completion of this Course, students will be able to Experiment Applet Programming using various techniques Tabulate simple window Abstract Window Toolkit(AWT) and Events to design window based applications Demonstrate CRUD operations of the database using JDBC Examine collections and networking with java.util and java.net packages Develop server side programs in the form of Servlets Interpret the Java Applications using JSP Tags | global developmental needs |

| 8 | PRACTICAL - II: WINDOWS APPLICATIONS | MCS176P | To show the behavior of the Reflection To Demonstrate the basic concepts of OOPS To Apply the ADO.NET to establish the connection with database To focus the windows forms controls to create windows applications To create the desktop applications with database | On successful completion of this Course, students will be able to Show the behavior of Reflection Demonstrate the basic concepts of OOPS Apply the ADO.NET to establish the connection with database Focus the windows forms controls to create windows applications Find the way to code solutions and compile C# projects with WPF Create desktop application with database | global developmental needs |
|---|---|---------|---|---|-------------------------------|
| 9 | PRACTICAL - III: OPEN SOURCE TECHNOLOGIES | MCS177P | learn designing webpage using HTML & CSS understand the concept of Database learn Server-side scripting language introduce applications using PHP with MYSQL | On successful completion of this Course, students will be able to Find the usages of open sources technologies. Explain the process of website emotion to any kind of male | global developmental needs |

| | | | | MySQL and JSON. | |
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| 10 | EMPLOYABILITY SKILLS | MCS178S | To know the basic requirements of the JOB. To know the problem in theprocess of interview. Preparation towards taking part in the interview To know about the communication process To improve oneself in facinginterview | On successful completion of this Course, students will be able to Identify the basic requirements of the Job. Observe the problem in the process of interview. Establish the preparation towards taking part in theinterview. Focus and improve the communication process. Find the ways to improve the body language and self-grooming Develop the skills to improve oneself in facing interview. | global developmental needs |
| 11 | DISTRIBUTED OPERATING SYSTEMS | MCS270T | To understand the fundamental concepts of operating systems To understand the need fordistributed systems. To get acquainted with the design principles of distributed operating systems. To explore the concept of synchronization To handle the process in distributed environment | On successful completion of this Course, students will be able to Find the meaning of distributed operating system with examples. Summarize various types of distributed computing models. Illustrate the process, message, packet, IPC. Discussion on two types of communication methods like synchronous and asynchronous. | global developmental needs |

| | | | | Summarize centralized system and Distributed systems. Describe the various communication methods like synchronous communication and asynchronous communication. On successful completion of this Course, students will be | |
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| 12 | ENTERPRISE JAVA PROGRAMMING | MCS271T | To expose the knowledge of MVC and Java server faces To provide the knowledge and skills required to develop web applications using the MVC framework provided by Apache Struts To develop Enterprise web application using EJB. To understand and implement the object-relation mapping using Hibernate To explore the knowledge of Aspect Oriented Programming using Spring and Spring MVC. | able to Associate JSP and Servlet using MVC approach. Classify the ways of using JSF Tags(Core tags, HTML Tags) Reproduce the web applications using the MVC framework provided by Apache Struts Appraise the AOP(Aspect Oriented Programming) using Spring and Spring MVC Prepare Enterprise web application using EJB Integrate the Object-Relation Mapping technique with java using Hibernate | global developmental needs |
| 13 | WEB APPLICATIONS | MCS272T | To understand the difference between desktop and dynamic web applications. To understand the ASP.NET web application execution | On successful completion of this Course, students will be able to Discover the differences between static and dynamic | global developmental needs |

| | | model. To create and modify multi-page Web Form applications and Web Services To demonstrate features like flow control, data access and data binding To validate forms with in an application. | web application. Demonstrate the ASP.NET web application execution model. Build own application by using the features like data access and data binding Analyze and implement security mechanism in web applications Find the way to code solutions and compile ASP.NET projects within the .NET framework Create and Validate web applications | |
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| 14 PROGRAMMING PYTHON | IN MCS273T | To know the basics of algorithmic problem solving To read and write simple Python programs. To develop Python programs with conditionals and loops. To define Python functions and call them. To use Python data structures – lists, tuples, dictionaries. To do input/output with files in Python. | On successful completion of the course students will be able to: Identify the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements Express proficiency in the handling of strings and functions. Interpret the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets | global developmental needs |

| 15 | ELECTIVE-II: A. OBJECT ORIENTED ANALYSIS AND DESIGN | MCS274A | To understand the fundamental concepts of UML diagrams. To draw diagrams with project documentation. To analyze the requirements given by stake holder To design the project with examples. To understand the Software Development Process | Explore the commonly used operations involving file systems and modules Resolve the concepts like exception handling, data base and GUI programming. Create Python programs for solving real world complex problems On successful completion of this Course, students will be able to Find the meaning of object oriented analysis and design. Explain the stages of software development life cycle. Solve problems using simple UML diagram. Examine various class model, state model and interaction models. Justify the differences between object oriented design and | global developmental needs |
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| | | | • To understand the Software | • Justify the differences between | |
| 16 | ELECTIVE II: B. SOFTWARE TESTING AND QUALITY ASSURANCE | MCS274B | To introduce various approaches, techniques, technologies, and methodologies used in software testing and quality assurance. To understand the role of testing | On successful completion of this Course, students will be able to Understand the key concepts and principles of software | global developmental needs |

| | | | in applications To learn to design the test cases To know the different levels of testing To study the state-of-the-art of software testing and quality assurance. | testing Specify and perform the activities involved in a testing process Understand the role of ethics in the software engineering and the responsibilities of software engineers in general Evaluate the work of peers constructively by following proven methods of peerreview, and by using the principles of research ethics Conduct independent research in software testing and quality assurance and apply that knowledge in their future research and practice Application of software testing techniques in commercial environments | |
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| 11 | ELECTIVE-II: C. WIRELESS SENSOR NETWORKS | MCS274C | To understand the concepts of wireless sensor networks To understand the protocols for WSN To get exposure on WSN environment with TinyOS and like To understand the layered approach in sensor networks To design WSN and analyze | On successful completion of this Course, students will be able to Identify different issues in wireless ad hoc and sensor networks. Analyze protocols developed for ad hoc and sensor networks. Address the security threats in | global developmental needs |

| | | | performance. | ad hoc and sensor networks Establish a Sensor network environment for different type of applications. Classify the design issues and different categories of MAC protocols Illustrate the issues of routing in WSN and QoS related performance measurements | |
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| 18 | PRACTICAL - IV: ENTERPRISE JAVA PROGRAMMING | MCS275P | To expose the knowledge of MVC and Java server faces To provide the knowledge and skills required to develop web applications using the MVC framework provided by Apache Struts To Develop Enterprise web application using EJB. To understand and implement the object-relation mapping using Hibernate To explore the knowledge of Aspect Oriented Programming using Spring and Spring MVC. | On successful completion of this Course, students will be able to Connect JSP and Servlet using MVC approach. Classify the ways of using JSF Tags(Core tags, HTML Tags) Reframe the web applications using the MVC framework provided by Apache Struts Prepare Enterprise web application using EJB Integrate the Object-Relation Mapping technique with java using Hibernate Evaluate the AOP(Aspect Oriented Programming) using Spring and Spring MVC | global developmental needs |
| 19 | PRACTICAL - V: WEB APPLICATIONS | MCS276P | To demonstration of Web Configuration file To apply the web control classes | • On successful completion of this Course, students will be able to | global developmental needs |

| | | | To develop the component programming To create a secured web application with validation To apply the component programming | Show the behavior of HTML Control Classes, Control Events, Container and Input Control Classes Demonstrate the implementation of Web Configuration file Apply the Web control classes and control tags Focus on the component programming Find the way to create and code the component programming, Custom and User Controls Create a secured web application with validation controls and database | |
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| 20 | PRACTICAL - VI: PROGRAMMING IN PYTHON | MCS277P | To know the basics of algorithmic problem solving To read and write simple Python programs. To develop Python programs with conditionals and loops. To define Python functions and call them. To use Python data structures – lists, tuples, dictionaries. To do input/output with files in Python. | On successful completion of the course students will be able to: Identify the features and steps to execute Python programs. Implement Python programs with conditionals and loops. Use functions for structuring Python programs. Represent compound data using Python lists, tuples, and dictionaries. Read and write data from/to | global developmental needs |

| | | | | files in Python.Develop user interface applications | |
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| 21 | INTERNET OF THINGS | MCS370T | To introduce the IoT and its baseline technologies. To explore the IOT and M2M and its Connectivity technologies. To understand the contribution of WSN and other networks towards IOT. To implement the IOT applications using Arduino and Raspberry Pi. To know the importance of SDN, Sensor cloud and Fog computing. | On successful completion of this Course, students will be able to Recall the basics of IoT and its baseline technologies. Classify IOT and M2M and its Connectivity technologies Prepare a simple IOT applications using sensors and Arduino board. Integrate various Sensors with Arduino and raspberry Pi Evaluate and adapt the importance of SDN, Sensor cloud and Fog computing. | global developmental needs |
| 22 | ARTIFICIAL INTELLIGENCE | MCS371T | To provide a strong foundation of fundamental concepts in Artificial Intelligence To provide a basic exposition to the goals and methods of Artificial Intelligence To enable the student to apply these techniques in applications which involve perception, reasoning and learning To introduce the concept of expert systems | On successful completion of this Course, students will be able to Understand the various searching techniques, constraint satisfaction problem and example problems- game playing techniques. Explain the role of agents and how it is related to environment and the way of evaluating it and how agents can act by establishing goals | global developmental needs |

| | | | | Apply these techniques in applications which involve perception, reasoning and learning. Analyze and design a real world problem for implementation and understand the dynamic behavior of a system. Evaluate different machine learning techniques to design AI machine and enveloping applications for real world problems Acquire the knowledge of real world Knowledge representation. | |
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| 23 | DESIGN AND ANALYSIS OF ALGORITHMS | MCS372T | On successful completion of this Course, students will be able to Prove the correctness and analyze the running time of the basic algorithms for those classic problems Review the basic knowledge of algorithm design and its implementation. Assess the key techniques of Divide-and-Conquer and Greedy Method. Examine the various problems solved by Dynamic | To prove the correctness and analyze the running time of the basic algorithms for those classic problems. To understand the basic knowledge of algorithm design and its implementation. To learn the key techniques of Divide-and-Conquer and Greedy Method. To recognize the concept of Dynamic Programming and its algorithms To familiarize with | lobal developmental needs |

| | | | Programming and its algorithms Adapt the Backtracking method to solve N-Queen, Graph coloring sum of subsets problems. Interpret various Branch and Bound techniques for designing the algorithms . | Backtracking algorithms. To understand Branch and Bound techniques for designing and analyzing algorithms. | |
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| 24 | MOBILE APPLICATIONS | MCS373T | To know the basis of Android application and development environment To able to develop simple and professional application To know the different controls in Android To impart knowledge about handling pictures and menus To get ready for the job opportunity in mobile application development. | On successful completion of this Course, students will be able to Understand about the mobile application development environment Interpret the working process of Activities and Fragments Use the techniques in Mobile Applications Analyze and design a real world problem for implementation and understand the dynamic behavior of a system. Compare the Native apps with Hybrid apps Develop interface and design and create the job opportunity in mobile application development | global developmental needs |
| 25 | ELECTIVE - III: A. SEMANTIC WEB | MCS374A | • To learn the fundamentals of semantic web and to | • On successful completion of this Course, students will be | global developmental |

| | AND APPLICATIONS | | conceptualize and depict ontology for semantic web. To make a study of languages for semantic web. To learn about the ontology learning algorithms and to utilize in the development of an application. To know the fundamental concepts of ontology management. To learn the applications related to semantic web. | able to. Identify the ontology for a given domain. Understand and develop an application using ontology languages and tools. Discover the concepts of semantic web. Analyze and use ontology related tools and technologies for application creation. Evaluate the design and develop applications using semantic web. Generalize the standards related to semantic web. | needs |
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| 26 | ELECTIVE – III: B. ETHICAL HACKING & CYBER FORENSICS | MCS374B | To understand the hacking techniques of computer forensics. To learn about data recovery methods. To know about threats and vulnerabilities To identity the threats in computer forensics. To get knowledge on data recovery | On successful completion of this Course, students will be able to. Identify between hackers and normal users. Understand the principles of computer forensics for security. Apply the data recovery methods. Categorize between threats and the tactics. Evaluate legal and ethical issues related to vulnerability and penetration testing. | global developmental needs |

| 27 | ELECTIVE – III: C. CLOUD COMPUTING | MCS374C | To introduce the broad perceptive of cloud architecture and model. To understand the concept of Virtualization and design of cloud Services To be familiar with the lead players in cloud. To understand the features of cloud simulator To apply different cloud programming model as per need. To learn to design the trusted cloud Computing system | Construct on the strengths and vulnerabilities of the tested network. On successful completion of this Course, students will be able to. Discover the broad perceptive of cloud architecture and model. Explain the Virtualization and design of cloud Services Construct the features of cloud services Analyze the different cloud programming model as per need. Summarize the trusted cloud Computing system Create and use current cloud technologies | global developmental needs |
|----|---|---------|---|---|-------------------------------|
| 28 | PRACTICAL - VII: DESIGN AND ANALYSIS OF ALGORITHMS | MCS375P | To prove the correctness and analyze the running time of the basic algorithms for those classic problems. To understand the basic knowledge of algorithm design and its implementation. To learn the key techniques of Divide-and-Conquer and Greedy Method. | On successful completion of this Course, students will be able to Prove the correctness and analyze the running time of the basic algorithms for those classic problems Review the basic knowledge of algorithm design and its implementation. | global developmental needs |

| | | | To recognize the concept of Dynamic Programming and its algorithms To familiarize with Backtracking algorithms. To understand Branch and Bound techniques for designing and analyzing algorithms. | Assess the key techniques of Divide-and-Conquer and Greedy Method. Examine the various problems solved by Dynamic Programming and its algorithms Adapt the Backtracking method to solve N-Queen, Graph coloring sum of subsets problems. Interpret various Branch and Bound techniques for designing the algorithms . | |
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| 29 | PRACTICAL - VIII: MOBILE APPLICATIONS | MCS376P | To understand the mobile application development To interpret the working process of Activities and Fragments To Develop mobile application using Telephony To create a mobile application using SMS manager To develop the mobile application | On successful completion of this Course, students will be able to Understand about the mobile application development environment Interpret the working process of Activities and Fragments Use the techniques in Mobile Applications Analyze and design a real world problem for implementation and understand the dynamic behavior of a system. Compare the Native apps with Hybrid apps | global developmental needs |

| 30 | BIG DATA ANALYTICS | MCS470T | To understand the needs for Big Data and its environments. To learn the basic requirements of Big Data Technologies. To expose the knowledge of MapReduce programming framework (Hadoop). To be familiar with NoSQL DB's Cassandra and MongoDB To understand Hive and Pig technologies for analyzing the Big Data. | Develop interface and design and create the job opportunity in mobile application development On successful completion of this Course, students will be able to Recall various types of digital data and big data Review of various Big data analytics and its Technologies Incorporate the knowledge of various NoSQL databases. Demonstrate the NoSQL databases such as MongoDB and Cassendra Design & assess the Big data queries using Hive and Pig | global developmental needs |
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| 31 | DATA SCIENCE WITH PYTHON | MCS471T | To know the fundamental algorithmic ideas to process data. To learn to apply hypotheses and data into actionable predictions. To document and transfer the results and effectively communicate the findings using visualization techniques. To employ the Map reduce technique | On successful completion of this Course, students will be able to Review the basic understanding of NumPy and Pandas Illustrate to use conditional loops and list by python Visualizing the results of analytics effectively Solve a simple application for data loading, Storing the files with various file formats. | global developmental needs |

| 32 | MACHINE LEARNING | MCS472T | To recognize and implement various ways of selecting suitable model parameters for different machine learning techniques To select and implement machine learning techniques and computing environment that are suitable for the applications under consideration. To solve problems associated with batch learning and online learning, and the big data characteristics such as high dimensionality, dynamically growing data and in particular scalability issues. To analyze and design a real world problem for implementation and understand the dynamic behavior of a system. | Design & assess the Visualization through Matplotlib Prepare to perform pre- processing of data using Numpy and Pandas. On successful completion of this Course, students will be able to Recognize and implement various ways of selecting suitable model parameters for different machine learning techniques Select and implement machine learning techniques and computing environment that are suitable for the applications under consideration. Solve problems associated with batch learning and online learning, and the big data characteristics such as high dimensionality, dynamically growing data and in particular scalability issues. Analyze and design a real world problem for implementation and understand the dynamic behavior of a system. | global developmental needs |
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| | | | | Evaluate and interpret the results of the algorithms. Design and implement machine learning solutions to classification, regression, and clustering problems; | |
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| 33 | ELECTIVE – IV: A. CRYPTOGRAPHY AND NETWORK SECURITY | MCS473A | To introduce Classical Encryption techniques To understand the principles of encryption algorithms To have a detailed knowledge about authentication, hash functions and application-level security mechanisms. To introduce Network Security Concepts To understand the System level Security | On successful completion of this Course, students will be able to. Recognize the security of the data over the network Understand the research in the emerging areas of cryptography and network security. Apply the various networking protocols. Analyze and Protect any network from the threats in the world. Evaluate the intrusion detection and its solutions to overcome the attacks Generalize about how to maintain the Confidentiality, Integrity and Availability of a data. | global developmental needs |

| 34 | ELECTIVE – IV: C. SOFT COMPUTING | MCS473C | To learn the basic concepts of Soft Computing To become familiar with various techniques like neural networks, genetic algorithms and fuzzy systems. To apply soft computing techniques to solve problems. To introduce fuzzy systems and its applications To impart knowledge on developing hybrid systems | On successful completion of this Course, students will be able to Understand the core concepts of soft computing techniques Integrate various soft computing techniques for complex problems. Apply suitable soft computing techniques for various applications. Analyze and visualize from fuzzy data Evaluate and interpret the soft computing techniques Build a personalized recommender system | global developmental needs |
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| 35 | PRACTICAL – IX: DATASCIENCE WITH PYTHON | MCS474P | To know the fundamental algorithmic ideas to process data. To learn to apply hypotheses and data into actionable predictions. To document and transfer the results and effectively communicate the findings using visualization techniques. To employ the Map reduce technique | On successful completion of this Course, students will be able to Review the basic understanding of NumPy and Pandas Illustrate to use conditional loops and list by python Visualizing the results of analytics effectively Solve a simple application for data loading, Storing the files with various file formats. Design & assess the Visualization through Matplotlib Prepare to perform preprocessing of data using Numpy and Pandas. | |
|----|---|---------|---|--|----------------------------|
| 36 | PRACTICAL – X: MACHINE LEARNING | MCS475P | • To recognize and implement various ways of selecting suitable model parameters for different machine learning | On successful completion of this Course, students will be able to Recognize and implement | global developmental needs |

| • To select and impl machine learning t | echniques different machine learning |
|--|--|
| To analyze and de world problems fo implementation ar the dynamic behaves system To evaluate and in results of the algorithm of the algorithm | Select and implement machine learning techniques and computing environment that are suitable for the applications under consideration. |