



Royal Education Society's
College of Computer Science and Information Technology, Latur



Motto

"Knowledge is liberation of mankind"
ऋते ज्ञानान् मुक्तिः |
श्रेष्ठ ज्ञानाशिवाय सुटका नाही.

Internal Quality Assurance Cell

Supporting Documents For

2.6.1.

Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students 2022-2023.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY



Nanded

Royal Education Society's



College of Computer Science and Information Technology, Latur

Course Outcomes for Under Graduate Programs:

B.Sc. Computer Science SEM I

Course Outcome

Course Title:- Basic of Computer Science

Course Outcomes:-

CO1: To learn Basic Function of Devices like I/O, HDD etc.

CO2: To Understand the Fundamental of Software and Hardware.

CO3: Understand the Concept of Operating System and Network.

Course Title:- Introduction to Programming Language Using C(Part – 1)

Course Outcomes:-

CO1: To study of structure of programming languages, structure of c program.

CO2: To study different keyword for making program.

CO3: To develop programs using operators and control statement.

CO4: To describe an array. Student are able to develop application software.

Course Title:- Web Technologies

Course Outcomes:-

CO1: At the end of the course, students should be able to: Design and implement dynamic websites with good aesthetic sense of designing



Course Title:- Elective : Office Automation

Course Outcomes:-

CO1: After completion of this course student will be able to understand the computer software, hardware, made available to simplify and automate a variety of office operations such as data processing, data manipulating and data presentation with various application those are presents in Microsoft office tools packages.

Course Title:- Elective: Fundamentals of Digital Electronics

Course Outcomes:-

CO1: Can have a thorough understanding of the fundamental concepts and techniques used in digital electronics.

CO2: To understand and examine the structure of various number systems and its applications in digital design.

CO3: The ability to understand, analyze and design various combinational and sequential circuits.

CO4: To develop skill to build and troubleshoot digital circuits.

Course Title:- Open Elective : Communication Skills-1

Course Outcomes:-

CO1: Understand and demonstrate Basic English usages for their different purposes.

CO2: Clear entrance examination and aptitude tests.

CO3: Write various letters, reports required for professional life.



SEM II

Course Title:- Operating System

Course Outcomes:-

CO1: Fundamental understanding of the role of Operating Systems.

CO2: To understand the various memory management techniques

CO3: To apply the cons of process/thread scheduling

CO4: To understand the concept of a process and thread

Course Title:- Introduction to Programming Language Using C Part – 2

Course Outcomes:-

CO1: To describe a function, storage classes, structure, union, string and functions, Pointers, File Handling, Student are able to develop application software.

Course Title:- Database Management System

Course Outcomes:-

CO1: students will be able to think of ER modelling and creation of own database schema

Course Title:- Elective : Desktop Publishing

Course Outcomes:-

CO1: Create personal documents such as business cards and resumes.

CO2: Create business documents such as flyers and advertisements.

CO3: Create a newsletter with graphics and draw objects.

CO4: Create a course project illustrating Desktop Publishing techniques

Course Title:- Elective : 8085 Microprocessor

Course Outcomes:-

CO1: To understand CICS and RISC based Microprocessor.



CO2: To understand techniques for faster execution of instruction and increase speed of operation of 8085 Microprocessor.

CO3:.Write programs to run 8085 Microprocessor based system.

Course Title:- Open Elective : Communication Skills-2

Course Outcomes:-

CO1: By the end of this course students should be able to:

CO2: Understand and demonstrate Basic English usages for their different purposes.

CO3: Clear entrance examination and aptitude tests.

CO4:.Write various letters, reports required for professional life



SEM III

Course Title:- Object Oriented Programming

Course Outcomes:-

CO1: Ability to explain the difference between object oriented programming and procedural programming concepts.

CO2: Ability to program using object oriented features such as inheritance and polymorphism, , operator overloading, dynamic memory allocation, file I/O, exception handling, etc

CO3: Ability to apply object oriented techniques to solve computing problems.

Course Title:- – Computer Network

Course Outcomes:-

CO1: Understand basic computer network technology.

CO2: Students can identify the different types of network topologies and protocols.

CO3: Students can Identify the different types of network standards

Course Title:- - Data Structure and Algorithms

Course Outcomes:-

CO1: Ability to analyze algorithms and algorithm correctness.

CO2 :Ability to summarize searching and sorting techniques

CO3: Ability to describe stack, queue and linked list operation.

CO4: Ability to have knowledge of tree and graphs concepts.



Course Title:- - Discrete Mathematics

Course Outcomes:-

CO1: Apply mathematical foundation to the discipline of Computer Science

Course Title:- : Mathematical Technique in Computer Science (MTCS)

Course Outcomes:-

CO1: Able to use standard mathematical techniques to solve elementary problem.

CO2: Understand the nature of mathematical proof & be able to write clear & concise proof.

Course Title:- Numerical Abilitie

Course Outcomes:-

CO1: Solve mathematical problems using analytical methods;

CO2: Solve mathematical problems using computational methods;

CO3: Students can develop design and analyze numerical techniques to approximate solutions to problems .



SEM IV

Course Title:- - Programming in JAVA

Course Outcomes:-

CO1: The knowledge of the structure and model of the Java programming language.

CO2: To use the Java programming language for various programming technologies

CO3:To develop software in the Java programming language.

Course Title:- – Software Engineering

Course Outcomes:-

CO1 : Ability to learn various methods of software development

CO2:Ability to apply various software testing techniques

Course Title:- -Relational Database Management System

Course Outcomes:-

CO1: To study the basic concepts of relational databases

CO2: Learn and practice data modeling using the entity-relationship and developing database designs.

CO3 :Understand the use of Structured Query Language (SQL) and learn SQL syntax for writing queries

CO4 :Apply normalization techniques to normalize the databases.

Course Title:- - Essentials of Computer Security

Course Outcomes:-

CO1: To develop a basic understanding of cryptography



CO2: To develop a basic understanding of security policies.

CO3: To develop a basic understanding of authentication and access control

CO4: To determine mechanism for protecting information

Course Title:- -Logical Reasoning

Course Outcomes:-

CO1 : Identify logical relations among statements.

CO2: Analyse logically complex statements into their truth functional or quantificational components

CO3: This enable students to develop their ability to reason by introducing them to elements of formal reasoning



SEM V

Course Title:- Windows Programming

Course Outcomes:-

CO1: Review the fundamental concepts of Windows Programming in C#.Net

CO2: Evaluate the logic of different programming concepts.

CO3: Evaluate the techniques of application development in windows environment.

CO4: To develop database connectivity application.

CO5: To evaluate different techniques to develop windows applications.

Course Title:- Python

Course Outcomes:-

CO1 : Write programs using Python programming constructs.

CO2 : Design and Develop applications using Python programming.

CO3: Design object oriented programs with Python classes.

CO4 : Use exception handling in Python applications for error handling.

CO5: Design and Develop applications connecting with database.

Course Title:- Data Science

Course Outcomes:-

CO1: Review the fundamental concepts of Data Science

CO2: Evaluate the techniques for better Data Science understanding.

CO3: Evaluate the techniques for perfect Data Analysis

CO4: To develop applications/algorithms in the field of Data Science

CO5: To evaluate different Data Science techniques & tools



Course Title:- Software Testing (Elective)

Course Outcomes:-

CO1: Ability to learn various methods of software development.

CO2: Ability to apply various software testing techniques.

CO3: Ability to evaluate cost of software testing.

CO4: Ability to implement different software testing according to types of software.

Course Title:- Basics of Linux (Elective)

Course Outcomes:-

CO1 : Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.

CO2: Understand the Linux OS architecture.

CO3: Install and use different types of distributions available in market.

CO4: Understand the different Linux basic commands.



Course Title:- System Analysis and Design(SAD)—Open elective

Course Outcomes:-

CO1: To learn basic things of systems, System development Life cycle, and System Analyst.

CO2 :To determine specific needs of system.

CO3: Discuss approaches and tasks of system. Planning for developing system

CO4: Evaluate tools and techniques.

CO5: Use appropriate methods and techniques to design software.

CO6: Implementation of Developed System, Evaluation and Testing of system

SEM VI

Course Title:- Mobile Application Development

Course Outcomes:-

CO1 : Awareness of existing demanding trends in IT industry in order to get placement & research

CO2 :Understand the Android OS architecture.

CO3 : Install and use appropriate tools for Android development, including IDE, device emulator, and profiling tools.

CO4:Understand the Android application architecture, including the roles of the task stack, activities, & services.

CO5: Build user interfaces with fragments, views, form widgets, text input, lists, tables, and more.

Course Title:- Fundamentals of Image Processing

Course Outcomes:-

CO1 : Review the fundamental concepts of digital image processing system.

CO2: Evaluate the techniques for image enhancement.

CO3: Evaluate the techniques for Image restoration.

CO4: To develop color based image processing applications.

CO5: To evaluate different filtering method.

Course Title:- Software Process Management (Elective)

Course Outcomes:-

CO1: Learn various methods of software development.

CO2:Apply various software testing techniques.



Course Title:- Linux Administration (Elective)

Course Outcomes:-

CO1 : Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.

CO2: Understand the Linux OS architecture.

CO3: Install and use different types of distributions available in market.

CO4: Understand the different Linux administration commands.

Course Title:- Networking Essentials

Course Outcomes:-

CO1: Evaluate the usability of mobile devices such as smart phones.

CO2: Select appropriate network technologies in commercial and enterprise applications.

CO3 : Assess the capabilities of next generation networks and role of network technologies.



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College of Computer Science and Information Technology, Latur

Course Outcomes for Under Graduate Programs: Bachelor of Computer Applications (BCA)

Course Outcome

SEM I

Course Title:- Fundamentals of Computer Science and Information Technology

Course Outcomes:-

CO1: To learn Basic Function of Devices like I/O, HDD etc. To Understand the Fundamental of Software and Hardware. Understand the Concept of Operating System and Network.

Course Title:- Office Automation

Course Outcomes:-

CO1: After completion of this course student will be able to understand the computer software, hardware, made available to simplify and automate a variety of office operations such as data processing, data manipulating and data presentation with various application those are presents in Microsoft office tools packages.

Course Title:- Programming in C

Course Outcomes:-

CO1: To study of structure of programming languages, structure of c program.



CO2: To study different keyword for making program.

CO3: To develop programs using operators and control statement.

CO4: To describe an array, structure, union, string and functions. Student are able to develop application software.

Course Title:- Elective: Element of Statistics

Course Outcomes:-

CO1: Interact ideas of random variable, frequency distribution, calculate and interact various measures in statistics.

Course Title:- Elective: Mathematical Technique in Computer Science (MTCS)

Course Outcomes:-

CO1: Able to use standard mathematical techniques to solve elementary problem.

CO2: Understand the nature of mathematical proof & be able to write clear & concise proof.

Course Title:- Open Elective: Applied English

Course Outcomes:-

CO1: Understand and demonstrate Basic English usages for their different purposes.

CO2. Clear entrance examination and aptitude tests.

CO3. Write various letters, reports required for professional life.

Course Title:- Open Elective: Business Communication

Course Outcomes:-

CO1: Understand and demonstrate Basic English usages for their different purposes.

CO2: Clear entrance examination and aptitude tests.

CO3: Write various letters, reports required for professional life.



SEM II

Course Title:- Business Accounting with Tally

Course Outcomes:-

CO1: Students will able to do Accounting Using Tally

Course Title:- Organizational Behaviour

Course Outcomes:-

CO1: Students will become more self-aware and will have identifies areas of development for long term effectiveness.

CO2: Students will understand the role individuals play collectively to perform in the organization.

Course Title:- Web Technology

Course Outcomes:-

CO1: Be able to use HTML programming

Course Title:- Elective : E-Commerce

Course Outcomes:-

CO1: At the end of the course, the students is expected to realize the problems involved in designing and building e-commerce systems; understand the need to design EC systems that fully meet the requirements of the intended users; appreciate the need to ensure that the implementation of a design is adequately tested to ensure that the completed EC system meets the specifications.

Course Title:- Elective : Desktop Publishing (DTP)

Course Outcomes:-

CO1: Create personal documents such as business cards and resumes.

CO2: Create business documents such as flyers and advertisements.



CO3: Create a newsletter with graphics and draw objects.

CO4: Create a course project illustrating Desktop Publishing techniques.

Course Title:- Open Elective: Functional English

Course Outcomes:-

CO1: . Understand and demonstrate Basic English usages for their different purposes.

CO2: Clear entrance examination and aptitude tests.

CO3: Write various letters, reports required for professional life.

Course Title:- Open Elective: Corporate English

Course Outcomes:-

CO1: Understand and demonstrate Basic English usages for their different purposes..

CO 2: Clear entrance examination and aptitude tests.

CO3:Write various letters, reports required for professional life.



SEM III

Course Title:- Programming in C++

Course Outcomes:-

CO1: Students are able to define objects which the core part of object oriented programming languages.

CO2: It helps to develop and build logic for programming among the learners.

CO3: Students are able to develop application software using C++.

Course Title:- Operating System Concepts

Course Outcomes:-

CO1: To understand the different Concept of Operating System

Course Title:- Database Management System

Course Outcomes:-

CO1: Able to master the basic concepts and understand the applications of database systems.

CO2: Able to construct an Entity-Relationship (E-R) model from specifications and to transform to relational model.

CO3: Able to construct unary/binary/set/aggregate queries in Relational Algebra.

CO4: Understand and apply database normalization principles.

Course Title:- Elective : Business Application and ERP

Course Outcomes:-

CO1: Make basic use of Enterprise software, and its role in integrating business functions

CO2: Analyze the strategic options for ERP identification and adoption.

CO3: Design the ERP implementation strategies.

CO4: Create reengineered business processes for successful ERP implementation.



Course Title:- Elective - Introduction to Multimedia

Course Outcomes:-

CO1: Student will learn the different content forms of Multimedia such as text, audio, images, animations, video and interactive content.

Course Title:- Numerical Aptitude

Course Outcomes:-

CO1: On successful completion of the course the students will be able to understand the basic concepts of numerical ability.



SEM IV

Course Title:- Programming in JAVA

Course Outcomes:-

CO1: Students learn about the concepts like interface, packages etc.

CO2: Students are able to develop stand-alone Java applications and web applications.

Course Title:- Data Structure and Algorithm

Course Outcomes:-

CO1: Students are able to create and use various data structures like Strings, Arrays, Linked Lists, and Trees

Course Title:- RDBMS

Course Outcomes:-

CO1: The course will demonstrate an understanding of the basic & advanced features of RDBMS.

CO2: The course will demonstrate the various database tables and joins them using SQL commands, able to develop structured query language (SQL) queries to create, read, update, and delete relational database data.

Course Title:- Operational Research

Course Outcomes:-

CO1: Recognize and develop operational research models from the verbal description of the real system and know the mathematical tools that are needed to solve optimization problems.

Course Title:- Computer Graphics

Course Outcomes:-

CO1: Knowledge of working of display systems.

CO2: Skill to execute various Scan Conversion algorithms in laboratory so as to draw Graphics primitives.

CO3: Familiarization with 2D graphics.

CO4: Skill to execute various 2D transformations on graphics.

CO5: Use of various graphics packages/functions on graphic.

Course Title:- Logical Reasoning

Course Outcomes:-

CO1: Understand the basic concepts of logical reasoning skills. Solve campus placements aptitude papers and various competitive exams.



SEM V

Course Title:- System Analysis and Design(SAAD)

Course Outcomes:-

CO1: Upon successful completion of this course, you will be able to gather data to analyze and specify the requirements of a system. Design system components and environments & build general and detailed models that assist programmers in implementing a system. It also design a database for storing data, a user interface for data input and output, and controls to protect the system and its data

Course Title:- Web Development and PHP Programming

Course Outcomes:-

CO1: Able to design dynamic and interactive web pages, websites.

CO2: Able to run PHP scripts on server and retrieve results.

CO3: Able to handle databases like MySQL using PHP in web sites.

Course Title:- Mobile Application Development

Course Outcomes:-

CO1: Install and use appropriate tools for Android development, including IDE, device emulator, and profiling tools.

CO2: Understand the Android OS architecture.

CO3: Understand the Android application architecture, including the roles of the task stack, activities, & services.

Course Title:- Computer Network

Course Outcomes:-

CO1: Recognize the technological trends of Computer Networking.

CO2: Discuss the key technological components of the Network.

CO3 Evaluate the challenges in building networks.

Course Title:- Cloud Computing

Course Outcomes:-

CO1: Awareness of existing demanding trends for Clouds and Virtualizations in the IT industry in order to get placement as well as in research

Course Title:- Linux Operating System

Course Outcomes:-

CO1: Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.

CO2: Understand the Linux OS architecture.

CO3: Install and use different types of distributions available in market.



SEM VI

Course Title:- Software Engineering

Course Outcomes:-

CO1: How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.

CO2: An ability to work in one or more significant application domains. Work as an individual and as part of a multidisciplinary team to develop and deliver quality software.

CO3: Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle.

CO4: Demonstrate an ability to use the techniques and tools necessary for engineering practice.

CO5: Demonstrate an ability to use the techniques and tools necessary for engineering practice

Course Title:- Python

Course Outcomes:-

CO1: Upon successful completion of this course, student will be able to

CO2: Explain basic principles of Python programming language

CO3: Implement object oriented concepts

CO4: Implement database and GUI applications

Course Title:- Windows Programming

Course Outcomes:-

CO1: To develop background knowledge as well as core expertise in C#.

CO2: To develop background knowledge as well as core expertise in C#.

CO3: To learn the object oriented concepts

Course Title:- Digital Image Processing

Course Outcomes:-

CO1: Review the fundamental concepts of a digital image processing system.

CO2: Analyze images in the frequency domain using various transforms.

CO3: Evaluate the techniques for image enhancement and image restoration.

CO4: Categorize various compression techniques.

CO5: Interpret Image compression standards.

CO6: Interpret image segmentation and representation techniques.

Course Title:- Cyber Security

Course Outcomes:-

CO1: Analyze and evaluate the cyber security needs of an organization.

CO2: Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.

CO3: Measure the performance and troubleshoot cyber security systems.

CO4: Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools.



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Course Outcomes for Under Graduate Programs:

B.Sc. Software Engineering

Course Outcome

SEM I

Course Title:- Web Page Designing

Course Outcomes:-

CO1: 1 The ability to understand, analyse and design various websites.

CO2: 2. Students are able to develop websites, webpages.

Course Title:- Programming in C (Part – 1)

Course Outcomes:-

CO1: 1. To study of structure of programming languages, structure of c program.

CO2:2. To study different keyword for making program.

CO3:3. To develop programs using operators and control statement.

CO4:4. To describe an array.

CO5:5. Students are able to develop application software.

Course Title:- Fundamentals of Digital Logic

Course Outcomes:-

CO1: 1. Can have a thorough understanding of the fundamental concepts and techniques used in digital electronics.

CO2:3. To understand and examine the structure of various number systems and its applications in digital design.

CO3:4. The ability to understand, analyse and design various combinational and sequential circuits.

CO4:5. To develop skill to build and troubleshoot digital circuits.

Course Title:- Office Automation

Course Outcomes:-

CO1: After completion of this course student will be able to understand the computer software, hardware, made available to simplify and automate a variety of office operations such as data processing, data manipulating and data presentation with various application those are presents in Microsoft office tools packages.

Course Title:- Applied English

Course Outcomes:-

By the end of this course students should be able to:

CO 1.1 Understand and demonstrate Basic English usages for their different purposes.

CO 2. 2Clear entrance examination and aptitude tests.

CO 3. 3Write various letters, reports required for professional life.

Course Title:- Business Communication

Course Outcomes:-

By the end of this course students should be able to:

CO 1. 1Understand and demonstrate Basic English usages for their different purposes.

CO 2. 2Clear entrance examination and aptitude tests.

CO 3.3 Write various letters, reports required for professional life.



SEM II

Course Title:- Software Engineering

Course Outcomes:-

CO1: 1. Facility to learn development skills of software

CO2:2 Capability to apply various techniques for software testing

Course Title:- Database Management System

Course Outcomes:-

The learner will be able:

CO 1:1 To describe data models and schemas in DBMS

CO 2:2To understand the features of database management systems and Relational database.

CO 3: 3To use SQL- the standard language of relational databases.

CO 4: 4To understand the design of the database & types of database

CO 5:5To understand the concept of Transaction and Query processing.

Course Title:- Programming in C (Part-2)

Course Outcomes:-

CO1: To describe a function, storage classes, structure, union, string and functions, Pointers, File Handling, Student are able to develop application software.

Course Title:- Computational Mathematics

Course Outcomes:-

CO1: Apply mathematical foundation to the discipline of Computer Science

Course Title:- Desktop Publishing (DTP)

Course Outcomes:-

CO1: 1 Create personal documents such as business cards and resumes.

CO2: 2 Create business documents such as flyers and advertisements.

CO3: 3 Create a newsletter with graphics and draw objects.

CO4: 4 Create a course project illustrating Desktop Publishing techniques.

Course Title:- Functional English

Course Outcomes:-

By the end of this course students should be able to:

CO 1. Understand and demonstrate Basic English usages for their different purposes.

CO 2. Clear entrance examination and aptitude tests.

CO 3. Write various letters, reports required for professional life.

Course Title:- Corporate English

Course Outcomes:-

By the end of this course students should be able to:

CO 1. Understand and demonstrate Basic English usages for their different purposes.

CO 2. Clear entrance examination and aptitude tests.

CO 3. Write various letters, reports required for professional life.



SEM III

Course Title:- Operating System Concepts

Course Outcomes:-

CO1:1 To describes functions of operating system, system structure, process management, Multithreaded programming, deadlocks, memory management, file system.

CO2:2 This course describes the fundamental concept behind operating system, and examines

CO3:3 The ways that design goals can be achieved.

Course Title:- Object Oriented Concepts

Course Outcomes:-

CO1: 1To study of structure of programming languages, structure of c++ program.

CO2:2 To study different programming concepts.

CO3:3To develop programs using operators and control statement.

CO4:4 To describe an inheritance.

CO5:5 Student are able to develop application software.

Course Title:- Programming using VB.NET

Course Outcomes:-

Students will understand .NET Framework and describe some of the major enhancements to the new version of Visual Basic.

CO1:1 Students will describe the basic structure of a Visual Basic.NET project and use main features of the integrated development environment (IDE)

CO2:2 Students will create applications using Microsoft Windows Forms

CO3: 3 Students will create applications that use ADO. NET

Course Title:- Compiler Designing

Course Outcomes:-

Upon completion of the subject, student will be able to:

CO1: 1 Understand compiler and various phases in compilation.

CO2:2 Understand the importance of code optimization

CO3: 3 Know about compiler generation tools and techniques

CO4: 4 Introduce different translation languages

Course Title:- Computer Graphics

Course Outcomes:-

CO1: 1 To list the basic concepts used in computer graphics.

CO1:2 To implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping.

CO3: 3To describe the importance of viewing and projections

CO4:4 To define the fundamentals of animation, virtual reality and its related technologies.

Course Title:- Numerical Aptitude

Course Outcomes:-

CO1: 1 Develops problem solving skills of student

CO2: 2 Improves Basic and advanced calculations used in day to day life.

CO3: 3 Improves Mental Alertness

CO4: 4 Analytical Thinking



SEM IV

Course Title:- Computer Networks

Course Outcomes:-

CO1:1 Design, install, configure, troubleshoot and manage components of computer systems.

CO2:2 Apply basic knowledge of Network Devices.

CO3:3 Install, manage, and maintain LAN & WAN

Course Title:- Introduction to Core Java

Course Outcomes:-

CO1:1 To study the object oriented approach.

CO2:2 To study basic need and its features.

CO3:3 To develop programs using operators and control statement.

CO4:4 To describe an array.

CO5:5 Student are able to develop application software.

Course Title:- Internet Technology using PHP

Course Outcomes:-

CO1: 1 Build Dynamic web site using server side PHP Programming and Database connectivity

. CO1:2 Describe and differentiate different Web Extensions and Web Services.

Course Title:- Introduction to Multimedia

Course Outcomes:-

On completion of the course, students should be able to I

CO1: 1 Explain basic principles of multimedia;

CO2: 2 Develop and design multimedia products;

CO3: 3 Apply text, graphics, animations, videos and sounds in multimedia products;

CO4: 4 Explain the use of computer hardware and software in relation to multimedia production

Course Title:- Distributed Computing

Course Outcomes:-

CO1:1 Distinguish between distributed computing and parallel computing.

CO2: 2 Understand concepts of architectural Styles, Communication, and Synchronization.

CO3: 3 Demonstrate different naming & synchronization technologies

CO4: 4 Explore various distributed concepts.

Course Title:- Logical Reasoning

Course Outcomes:-

CO1: 1Develops ability to think logically of student

CO2: 2 Understanding Relations, Directions, Arrangements, Logics, Puzzles.

CO3:3 Improves Mental Alertness

CO4:4 Construct a logically sound and well-reasoned argument.



SEM V

Course Outcomes:-

CO1: 1 Write, Test and Debug Python Programs

CO2: 2 Implement Conditionals and Loops for Python Programs

CO3: 3 Use functions and represent Compound data using Lists, Tuples and Dictionaries.

CO4: 4 Express proficiency in the handling of strings and functions.

CO5: 5 Use regular expression to find the matching string

Course Title:- RDBMS

Course Outcomes:-

CO1:1 Ability to learn various commands of RDBMS.

CO2: 2 Ability to learn Database concepts & PL/SQL Language

Course Title:- Cloud Computing

Course Outcomes:-

CO1:1 -After successful completion of this course, student will be able to

CO2:2 Explain the core concepts of the cloud computing paradigm: how and why this paradigm shift came, the characteristics, advantages and challenges brought about by the various models and services in cloud computing.

CO3:3 Apply the fundamental concepts in datacenters

CO4:4 Identify resource management fundamentals and outline their role in managing infrastructure in cloud computing.

CO5:5 Analyze various cloud programming models and apply them to solve problems on the cloud.

Course Title:- C#.NET Programming

Course Outcomes:-

CO1:1 To impart the knowledge on basics concepts of object oriented programming

CO2: 2 To outline the various characteristics of C#.

CO3: 3 To provide the familiarity in the concept of developing window application.

CO4: 4 To converse an idea of creating application using ADO.Net.

CO5: 5 To convey the idea of CLR and .Net framework

Course Title:- Linux & Shell Programming

Course Outcomes:-

CO1:1 Understand the Linux OS architecture.

CO2:2 Install and use different types of distributions available in market.

CO3: 3 Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.

Course Title:- Python Programming Lab

Course Outcomes:-

CO1:1 Write, Test and Debug Python Programs

CO2: 2 Implement Conditionals and Loops for Python Programs

CO3: 3 Use functions and represent Compound data using Lists, Tuples and Dictionaries.

CO4: 4 Express proficiency in the handling of strings and functions.

CO5: 5 Use regular expression to find the matching string

Course Title:- RDBMS through PL/SQL Lab/practical

Course Outcomes:-

CO1:1 Ability to learn various commands of RDBMS.

CO2:2 Ability to learn Database concepts & PL/SQL Language.



SEM IV

Course Title:- Software Testing

Course Outcomes:-

CO1:1 Ability to learn various methods of software development

CO2:2 Ability to apply various software testing techniques

Course Title:- Mobile Application Development

Course Outcomes:-

CO1:1 Student will be able to write simple GUI applications.

CO2:2 Students will be also able to use built-in widgets and components

CO3:3 This course shall build a platform for students to start their own enterprise

CO4:4 To gain an understanding of the processes that are involved in an Android developed application

CO5:5 Students will become familiar with Android development tools and user interface.

CO6:6 Will able to understand Activity and Intends

CO7:7 Will able to understand SQLite Database.

CO8:8 Will able to build Many simple apps that you can share with your friends

Course Title:- Image Processing Concepts

Course Outcomes:-

CO1:1 Review the fundamental concepts of a digital image processing system.

CO2:2 Analyze images in the frequency domain using various transforms.

CO3:3 Evaluate the techniques for image enhancement and image restoration

. CO4:4 Categorize various compression techniques.

CO5: 5 Interpret Image compression standards.

CO6:6 Interpret image segmentation and representation techniques

Course Title:- Cyber Security

Course Outcomes:-

CO1:1 Identify the security issues in the network and resolve it

CO2:2 To be able to secure a message over insecure channel by various means.

CO3: 3 Provide security of the data over the network.

CO4: 4 Protect any network from the threats in the world

Course Title:- Introduction to R language (Open Elective)

Course Outcomes:-

CO1: 1 Student will be able to write simple R Applications.

CO2: 2 Students will be also able to use built-in Library function of R language

CO3: 3 This course shall build a platform for students to start their own enterprise

CO4: 4 To gain an understanding of the processes that are involved in an Data Science and Statistical Analysis

CO5: 5 Students will become familiar with R Studio.

CO6:6 Will able to perform Many Data Science tasks.

Course Title:- Software Testing Lab / Practical

Course Outcomes:-

CO1:1 Ability to learn various methods of software development.

CO2:2 Ability to apply various software testing techniques

Course Title:- Mobile Application Development- Lab2

Course Outcomes:-

CO1:1 Student will be able to write simple GUI applications.

CO1:2 Students will be also able to use built-in widgets and components

CO3:3 This course shall build a platform for students to start their own enterprise

CO4:4 To gain an understanding of the processes that are involved in an Android developed application

CO5:5 Students will become familiar with Android development tools and user interface.

CO6:6 Will able to understand Activity and Intends

CO7:7 Will able to understand SQLite Database.

CO8: 8 Will able to build Many simple apps that you can share with your friends



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Course Outcomes for Under Graduate Programs:

B.Sc. Network Technology

Course Outcome

SEM I

Course Title:- Basics of Computer System and Hardware

Course Outcomes:-

- CO1: Design, install, configure, troubleshoot and manage components of computer systems.
- CO2: Apply basic knowledge of Hardware Devices.
- CO3: Install, manage, and maintain Computer System.
- CO4: Best Practices for Computer assembling

Course Title:- Programming in C

Course Outcomes:-

- CO1: To study of structure of programming languages, structure of c program.
- CO2: To study different keyword for making program.
- CO3: To develop programs using operators and control statement.
- CO4: To describe an array. 5. Student are able to develop application software.

Course Title:- Basics of Computer Network

Course Outcomes:-

- CO1: To Design, install, configure, troubleshoot and manage components of computer systems.

CO2: Apply basic knowledge of Network Devices.

CO3: Install, manage, and maintain LAN & WAN 4. Best Practices to design network setup.

CO4: Best Practices to design network setup.

Course Title:- Introduction to TCP/IP

Course Outcomes:-

CO1: Design, install, configure, troubleshoot and manage components of Network.

CO2: Apply basic knowledge of TCP/IP protocols.

CO3: Install, manage, and maintain for Ethernet technology

CO4: Best Practices for IP Configuration Settings

Course Title:- Cisco Certified Entry Networking Technician (CCENT)

Course Outcomes:-

CO1: . Learn basic networking hardware and tools.

CO2: Practice to design peer to peer network

CO3: Practice to design Client Server Network

Course Title:- Applied English

Course Outcomes:-

CO1: Understand and demonstrate Basic English usages for their different purposes.

CO2: Clear entrance examination and aptitude tests.

CO3: Write various letters, reports required for professional life.

Course Title:- Business Communication

Course Outcomes:-

CO1: Understand and demonstrate Basic English usages for their different purposes.

CO2 : Clear entrance examination and aptitude tests.

CO3: Write various letters, reports required for professional life.

SEM II

Course Title:- Operating System Concepts

Course Outcomes:-

CO1: Fundamental understanding of the role of Operating Systems.

CO2: To understand the various memory management techniques

CO3: To apply the cons of process/thread scheduling

CO4: To understand the concept of a process and thread.

Course Title:- Web Technology

Course Outcomes:-

CO1: The ability to understand, analyse and design various websites.

CO2: Student are able to develop websites, webpages.

Course Title:- Fundamentals of Linux

Course Outcomes:-

CO1: Appreciate the role of open source operating system as System software.

CO2: Learner will handle Linux OS for software development, web server and database administration for their carrier.

Course Title:- Office Automation

Course Outcomes:-

CO1: After completion of this course student will be able to understand the computer software, hardware, made available to simplify and automate a variety of office operations such as data processing, data manipulating and data presentation with various application those are presents in Microsoft office tools packages.

Course Title:- Network Operating System's Administration

Course Outcomes:-

CO1: Learn basic network management tools.

CO2: Practice to design server installation.

CO3: Practice to design NAT.

Course Title:- Functional English

Course Outcomes:-

CO1: Understand and demonstrate Basic English usages for their different purposes.

CO2: Clear entrance examination and aptitude tests.

CO3: Write various letters, reports required for professional life.

Course Title:- Corporate English

Course Outcomes:-

CO1: Understand and demonstrate Basic English usages for their different purposes.

CO2: Clear entrance examination and aptitude tests.

CO3: Write various letters, reports required for professional life.



SEM III

Course Title:- Linux Administration Part - I

Course Outcomes:-

CO1: Appreciate the role of open source operating system as System software.

CO2: Learner will handle Linux OS for software development, web server and database administration for their carrier

Course Title:- Network Administration Part-I

Course Outcomes:-

CO1: Practical hands-on will help to interconnect the N/W components & design industrial N/w

CO2: Best Practices for configuring dynamic routing protocols

CO3: Best Practices for network troubleshooting

Course Title:- Mobile Communication

Course Outcomes:-

CO1: valuate the usability of mobile devices such as smart phones.

CO2: Select appropriate wireless technologies in commercial and enterprise applications.

CO3: Assess the capabilities of next generation networks and role of mobile technologies.

Course Title:- Ad hoc Network

Course Outcomes:-

CO1: Describe the unique issues in ad-hoc sensor networks.

CO2: Describe current technology trends for the implementation and deployment of wireless adhoc/sensor networks.

Course Title:- Multimedia

Course Outcomes:-

CO1: Describe the compression techniques.

CO2: Describe current technology trends for the implementation and deployment of compression techniques.

CO3: Discuss the Graphics Formats.

Course Title:- Logical Reasoning

Course Outcomes:-

CO1: Develops ability to think logically of student .

CO2: Understanding Relations, Directions, Arrangements, Logics, Puzzles.

CO3: Improves Mental Alertness .

CO4: Construct a logically sound and well-reasoned argument.



SEM IV

Course Title:- Linux Administration Part - II

Course Outcomes:-

CO1: Appreciate the role of open source operating system as System software.

CO2: Learner will handle Linux OS for software development, web server and database administration for their carrier

Course Title:- Network Administration Part - II

Course Outcomes:-

CO1: Inter VLAN routine will help to establish End to End communication between devices.

CO2: Best Practices for configuring IP Subnet & VLAN protocols

CO3: Best Practices for configuring NAT & ACL

Course Title:- Windows Server 2012 ADC Part –I

Course Outcomes:-

CO1: Best Practices for configuring DNS Server .

CO2: Best Practices for configuring Group policy objects

Course Title:- Distributed System

Course Outcomes:-

CO1: Distinguish between distributed computing and parallel computing.

CO2: Understand concepts of architectural Styles, Communication, and Synchronization.

CO3: Demonstrate different naming & synchronization technologies .

CO4: Explore various distributed concepts

Course Title:- Software Engineering

Course Outcomes:-

CO1: Ability to learn various methods of software development.

CO2: Ability to apply various software testing techniques.

Course Title:- Numerical Aptitude

Course Outcomes:-

CO1: Develops problem solving skills of student .

CO2: Improves Basic and advanced calculations used in day to day life.

CO3: Improves Mental Alertness .

CO4: Analytical Thinking



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College of Computer Science and Information Technology, Latur

Course Outcomes for Under Graduate Programs:

B.Sc(Biotechnology)

Course Outcome

SEM I

Course Title:- English &Sci. Communication Skills- I

Course Outcomes:-

- i. A student having good communication can survive at any corner of this world.
- ii. To develop the confidence of Students.
- iii. To enhance their Employability Skills.
- iv. To enhance their Communication and Soft Skills.
- v. To develop their overall Personality.
- vi. To develop their Writing Skills.
- vii. To develop their day - to - day Communication.
- viii. To inculcate manners and etiquettes among themselves
- ix. To develop the art of appearing at the interviews

Course Title:- Introduction to Biotechnology

Course Outcomes:-

- i. To know historical overview of Biotechnology
- ii. To learn recent discoveries from cell biology to Biotechnology.
- iii. To Study Role of Biotechnology in Biopharmaceutical and Diagnostics.
- iv. To Study Role of Biotechnology in Environment protection.
- v. To Study Role of Biotechnology in industry where various Enzymes are prepared

Course Title:- Basics of Biosciences.

Course Outcomes:-

- i. To know or understand basic concept of life form.
- ii. This Subject outcome is to Study the evolution of organism.
- iii. To understand biodiversity of living organism.
- iv. To learn plant body organization.

Course Title:- Microbiology- I

Course Outcomes:-

- i. The outcome of this subject is to Study the basic concept of microbiology.
- ii. To Understand the History of microbiology
- iii. To Understand the Basic and applied areas of Microbiology –I
- iv. To understand the morphology and fine Structure of Bacteria.

Course Title:- Fundamentals of Chemistry

Course Outcomes:-

- i. The outcome of this Subject is to focus on the basic concepts of Chemistry.
- ii. To Study the atomic structure and bonding

- iii. To Study the chemical equilibrium
- iv. To Study the reaction kinetics.
- v. The Study the law of Thermodynamics.

SEM II

Course Title:- English &Sci. Communication Skills- II

Course Outcomes:-

- i. A student having good communication can survive at any corner of this world.
- ii. To develop the confidence of Students.
- iii. To enhance their Employability Skills.
- iv. To enhance their Communication and Soft Skills.
- v. To develop their overall Personality.
- vi. To develop their Writing Skills.
- vii. To develop their day - to - day Communication.
- viii. To inculcate manners and etiquettes among themselves
- ix. To develop the art of appearing at the interviews

Course Title:- Principles of Genetics

Course Outcomes:-

- i. The outcome of this subject is to understand mendelian genetics.
- ii. To Understand the Microbial genetics.
- iii. To understand the concept of Genes.
- iv. To Study the Human population Genetics.

Course Title:- Bioinstrumentation Techniques.

Course Outcomes:-

- i. To understand the principal of microscopy.
- ii. To Understand The principal of Spectroscopy
- iii. To Understand stand principal of Chromatography techniques.
- iv. To understand principles and working of centrifugation.
- v. To understand principles and working of electrophoresis techniques.

Course Title:- Microbiology –II

Course Outcomes:-

- i. The outcome of this subject is to understand Microbial nutrition & cultivation.
- ii. The outcome is to Understand Bacterial growth.
- iii. To understand methods of Sterilization.
- iv. To understand methods of sterilization by physical method.

Course Title:- Biomolecules

Course Outcomes:-

Prepare students to understand biochemistry. It will helps students to learn Basic structure.
Biomolecule and Practical application



SEM III

Course Title:- English and Science Communication Skills- III

Course Outcomes:-

- i. A student having good communication can survive at any corner of this world.
- ii. To develop the confidence of Students.
- iii. To enhance their Employability Skills.
- iv. To enhance their Communication and Soft Skills.
- v. To develop their overall Personality.
- vi. To develop their Writing Skills.
- vii. To develop their day - to - day Communication.
- viii. To inculcate manners and etiquettes among themselves
- ix. To develop the art of appearing at the interviews

Course Title:- Metabolism –I

Course Outcomes:-

- i. The Objective of this Subject is to understand basic of Thermodynamics.
- ii. To understand metabolic activity of respiration.
- iii. To Understand the phenomenon of photons the sis
- iv. To understand the metabolism of fatty acid

Course Title:- Cytology

Course Outcomes:-

- i. The outcome of This Subject is to Understand Structure and function of animal and plant cell.
- ii. To understand the cellular organization of animal Cell.

- iii. To Understand the cellular transport
- iv. To understand the cellular signaling.

Course Title:- Molecular Biology

Course Outcomes:-

- i. The main outcome is to Understand structure of DNA
- ii. To understand the molecular event like transcription and Translation.
- iii. To Study the mechanism of regulation of gene expression.
- iv. To Study mechanism of DNA repair of Cell.

Course Title:- Mathematics, Biostatistics and Computers.

Course Outcomes:-

- i. To develops Skills of Mathematics.
- ii. To learn & develops Skills of Statistics.
- iii. To Understand & learn basic Skills of Computer.
- iv. To understand the various facilities provided by internet.

Course Title:- Skill Enhancement course(Anyone of SECBT-1A / 1B)

1A-Advanced Microbiological Technique.

1B-Algal Culture Technology

Course Outcomes:-

A) Prepare students to understand the microbiological techniques. It will help students to learn. Softy aspects in lab, Screening, Morphology & culturing techniques.

B) Prepare students to understand the Algal culture technology. It will help students to learn Isolation, identification & quantiative & qualitative estimation of their desired product.

SEM IV

Course Title:- English and Sci. Communication Skills-IV

Course Outcomes:-

- i. A student having good communication can survive at any corner of this world.
- ii. To develop the confidence of Students.
- iii. To enhance their Employability Skills.
- iv. To enhance their Communication and Soft Skills.
- v. To develop their overall Personality.
- vi. To develop their Writing Skills.
- vii. To develop their day - to - day Communication.
- viii. To inculcate manners and etiquettes among themselves

To develop the art of appearing at the interviews

Course Title:- Metabolism-II

Course Outcomes:-

- i. To learn basic concept of enzymology.
- ii. To Understand the Biosynthesis of carbohydrate.
- iii. To Understand basic concept of photo synthesis
- iv. To Understand the Biosynthesis of nucleic
- v. To Understand the Biosynthesis of fatty acids.

Course Title:- Applied & Medical Microbiology.

Course Outcomes:-

- i. To Understand & Learn concept of soil microbiology.
- ii. To Study the Air microbiology.

- iii. To Study the water microbiology.
- iv. To Understand the food microbiology.

Course Title:- Immunology and Virology.

Course Outcomes:-

- i. To learn about type of immune system
- ii. To learn about type of cells of immune system
- iii. To Understand Antibody & Antigen reaction
- iv. To Study Numen cloture& Classification of Viruses.
- v. To Study life cycle of animal and plant viruses.

Course Title:- Plant and Animal Cell Culture.

Course Outcomes:-

- i. To Understand basic technique of sterilization of plant tissue culture.
- ii. To Understand the basic concept of explant preparation and callus indication.
- iii. To Understand the maintaining primary & continuous Cell Culture.

Course Title:- Skill Enhancement Course

II A- Diagnostic Biology

II B- Enzyme Technology

Course Outcomes:-

- A) Student should understand, the diagnostic biology, it helps student to learn immunology and diagnosis with biochemical test.
- B) Students should understand, the enzyme technology, it will help to learn enzyme industrial and clinical application.

SEM V

Course Title:- DSEBT-1E Environmental Studies

Course Outcomes:-

- i. Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.
- ii. Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.
- iii. Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.

Course Title:- DSEBT-2E r- DNA Technology

Course Outcomes:-

- i. To improve the knowledge on genomic structure of microbes.
- ii. To Understand principles of Gene cloning
- iii. To Understand DNA Sequencing techniques.
- iv. To learn principle and application of DNA chips (Microarray).
- v. To Study the technique of production of transgenic animal & plant.

Course Title:- DSEBT-3E Animal and Plant Development.

Course Outcomes:-

- i. To provide an understanding of basics of gametogenesis & fertilization.
- ii. To learn about stem Cell & its application.
- iii. To understand actual process of differentiation during development.
- iv. To Study the Role of genes in patterning and development.
- v. To learn concept of Development in plant.

Course Title:- DSEBT-4E Bioprocess Engineering.

Course Outcomes:-

- i. To improve the students with various designs of Fermenters.
- ii. To understand the growth kinetics.
- iii. To learn types of Bioprocesses techniques.
- iv. To increase scale up in Bioprocesses.
- v. To learn about designing culture media.

Course Title:- DSEBT-5E Agri Biotechnology.

Course Outcomes:-

- i. To enables students to gain information about production of Bio fertilizer.
- ii. To understand plant pathology.
- iii. To Understand Agro biotechnology for production of Bio pesticides.
- iv. To Understand Agro biotechnology for production energy from biomass.

Course Title:- DSEBT-3EiINDUSTRIAL Training/Industrial Visit.

Course Outcomes:-

- i. Students came to know the working procedure in industry and also know the job rules in industry.

Course Title:- SEC-III Skill enhanced course 3

Any one of SECBT-III A/IIIB

- A) Mushroom cultivation technology.
- B) Techniques in plant Tissue Vulture.(Micropropagation)

Course Outcomes:-

A) Prepare students to understand the mushroom cultivation and helps to learn casing, storage and food preparation.

B) Will prepare students to understand the different tissue culture techniques in plant tissue culture. It will help students to learn application of micropropagation.

SEM VI

Course Title:- DSEBT -1F Pharmaceutical Biotechnology

Course Outcomes:-

- i. To Study the role of Secondary metabolites in pharmaceutical industry.
- ii. To Understand Concepts of chemotherapy.
- iii. To Study different chemotherapeutic agents.
- iv. To Study portion engineering.
- v. To learn techniques of Drug discovery.

Course Title:- DSE BT 2F Industrial Biotechnology

Course Outcomes:-

1. To provide Knowledge of strain improvement.
2. To Understand Down Stream processing.
3. To understand the various fermentation process.
4. To Understand the Good laboratory practices.

Course Title:- DSE BT -3F Environmental Biotechnology.

Course Outcomes:-

- i. To understand aspect of environmental science.
- ii. To Understand Biodegradation techniques.
- iii. To learn about Bioremediation.

iv. To know about degradation of xenobiotic compound.

Course Title:- DES BT -4FA Herbal Drug Development.

Course Outcomes:-

- i. To Understand basic concept of herbal medicine
- ii. To Study the therapeutic potential of Bioactive.
- iii. To learn about application of herbal medicine.
- iv. To learn about processing of herbs and quality Controls.

Course Title:- DSE BT -4 FB Food Biotechnology.

Course Outcomes:-

- i. To understand basic concept of production of Fermented Food.
- ii. To learn about methods of food preservations.
- iii. To learn to develop Biosensor for Food quality assessment.
- iv. To learn about production super food from spiraling.

Course Title:- DSE BT 4 FC Advances Bioinformatics.

Course Outcomes:-

- i. Aim of this Subject is students should know about structure and function of Genomes.
- ii. To understand techniques of DNA & Protein sequencing.
- iii. To learn about sequence alignments and Visualization.
- iv. To Understand Gene expression and presentation of patterns and relationship
- v. To understand the structure identification and predication loath suitable tools of bioinformatics.

Course Title:- DSEBT-4D Fundamentals of Nano Biotechnology.

Course Outcomes:-

- i. Student get the knowledge of Nano particle developments and uses of Nano particles in drugs delivery in living system

Course Title:- DSEBT-4FE Medical Biotechnology.

Course Outcomes:-

- i. Will prepare students to understand the role of different immunization techniques of disease.
- ii. It will also help students to learn the application of biotechnology in drugs discover.

Course Title:- SDEBTP-3F Dissertation/Project Work

Course Outcomes:-

- i. Prepare students to understand the research methodology.
- ii. It will helps students to learn Basic need of Biotechnology application in daily life.

Course Title:- SEC-III Skill enhanced course-4

A) Biofertilizers & Biopesticides

B) Fermentation Technology.

Course Outcomes:-

- A) Will prepare students to understand the problems of farmers and tackle them with recent Biotechnological advances. Become skilled in Biofertilizer production.
- B) Prepare students to understand the Fermentation technology. It will also help students to learn media preparation, Microbial kinetics & Design of Fermentor .

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Course Outcomes for Under Graduate Programs:

B B A

Course Outcome

1. BBA students can work as a finance Manager, perform the financial reports, accounts monitoring, preparation of activity reports and analyzing markets.
2. In the field of HR Manager, they can co-ordinate all the administrative functions and they will recruit the new employees.
3. They can also serve as a link between Management and employees within the organization.
4. In the area of Business consultant, they improve the company's performance and assessing the weakness and recommending solutions.
5. They have more opportunities in the area of marketing as a manager, consultant and representatives in order to establish a market tracking methods to help each client.
6. Develop an understanding of the diverse and rapidly changing global business environment
7. Work effectively and professionally in teams
8. Possess the skills to communicate effectively, both verbally and in writing
9. In the field of Information System Manager they can act as a system information Planner.
10. They have good opportunities in the area of Associate-investment Banking.
11. In this they can demonstrate a high level of commitment to service quality and teamwork within the unit.
12. Adhering to established policies, Procedures and result in Audit rating.

13. Conduct strategic analysis using both theoretical and practical applications.
14. BBA graduates can act as a Management Trainer in the industries like Marketing industry, financial institution, Insurance and Consumer durable advertising agency.
15. Social, legal and ethical responsibilities of organizations and society.
16. Good opportunities in the field of consultancy, Government, banking sector, Manufacturing sector, Executive trainer etc.
17. BBA graduates can act as production manager in manufacturing industries.



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Course Outcomes for Post Graduate Program:

M.Sc. Computer Science

Course Outcome

Course Title:- Computer Architecture and Microprocessor

Course Outcomes:-

CO1: Students will acquire skill of Assembly Language programming using 8086 Microprocessor

CO2: Student will be familiar with Internal Processing of Computers

Course Title:- OOP Concepts using C++

Course Outcomes:-

CO1: Students will have the conceptual knowledge of Object Oriented programming.

CO2: This course will create foundation for student to learn other Object Oriented Programming Languages such as JAVA.

Course Title:- Mathematical Foundations for Computer Science

Course Outcomes:-

CO1 :At the end of the course student will be able to Understand the notion of mathematical thinking, mathematical proofs and to apply them in problem solving. Ability to understand use of

functions, graphs and their use in programming applications. Apply discrete structures into computing problems, formal specification, artificial intelligence, cryptography, Data Analysis.

Course Title:- Relational Database Management System

Course Outcomes:-

CO1: To study the basic concepts of relational databases

CO2: Learn and practice data modelling using the entity-relationship and developing database designs.

CO3: Understand the use of Structured Query Language (SQL) and learn SQL syntax for writing queries.

CO4: Apply normalization techniques to normalize the databases.

Course Title:- Computer Network

Course Outcomes:-

CO1: analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies;

CO2 :specify and identify deficiencies in existing protocols, and then go onto formulate new and better protocols;

CO3 :analyze ,specify and design the topological and routing strategies for an IP based networking infrastructure

CO4:..Have a working knowledge of datagram and internet socket programming

Course Title:- Design and Analysis of Algorithms

Course Outcomes:-

CO1: This course will aware the implementation of various advance algorithms to solve real world problem

Course Title:- Software Engineering

Course Outcomes:-

CO1 : Learn various methods of software development.

Course Title:- Programming with VB .NET

Course Outcomes:-

CO1: Students will be able to develop simple as well as complex applications using .Net framework

CO2: Students will learn to use web applications for creating GUI based programs.

Course Title:- Advanced Operating System

Course Outcomes:-

CO1: Students will be able to Analyze the structure of OS and basic architectural components involved in OS design

CO2: Students will be able to Conceptualize the components involved in designing a contemporary OS

Course Title:- Compiler Designing

Course Outcomes:-

CO1: To realize the students basics of compiler design and apply for real time applications.

CO2: Students will get knowledge about compiler generation tools and techniques

Course Title:- Information Technology

Course Outcomes:-

CO1 : Understand basic concepts in IT and their use in actual working

Course Title:- Advance Database Administration

Course Outcomes:-

CO1: Students Will be able to explain and evaluate the fundamental theories and requirements that influence the design of modern database systems. Students can analyze the background

processes involved in queries and transactions, and explain how these impact on database operation and design

Course Title:- Web-Technologies

Course Outcomes:-

CO1: Students Will be Students are able to develop a dynamic webpage by the use of PHP and java script. On completion of this course, a student will be able to develop a web application using PHP and java script.

Course Title:- Data Mining & Data Warehousing

Course Outcomes:-

CO1: Students Will be Understand Data Warehouse fundamentals, Data Mining Principles. Identify appropriate data mining algorithms to solve real world problems

Course Title:- Artificial Intelligence

Course Outcomes:-

CO1: Students will be able to compare AI with human intelligence and traditional information processing and discuss its strengths and limitations as well as its application to complex and human-centered problems.

Students Will be able to apply the basic principles, models, and algorithms of AI to recognize, model, and solve problems in the analysis and design of information systems.

Course Title:- Mobile Application Development

Course Outcomes:-

CO1: Student will be able to write simple GUI applications.

Students will be also able to use built-in widgets and components, work with the database to store data locally.

Course Title:- Research Methodology

Course Outcomes:-

CO1 Students Will be demonstrate knowledge of research processes (reading, evaluating, and developing), Perform literature reviews using print and online databases.

Course Title:- SK-03 Seminar Presentation Activity

Course Outcomes:-

CO1: Help the student increase self-motivation, personal responsibility, and understanding of his or her role in being an informed participant in the educational process. Create an environment that helps the student establish healthy relationships and support networks.

Course Title:- Digital Image Processing

Course Outcomes:-

CO1: Students will be Analyze images in the frequency domain using various transforms. Evaluate the techniques for image enhancement and image restoration and also categorize various compression techniques.

Course Title:- Linux Administration

Course Outcomes:-

CO1: Students will be able carry the duties of a Unix system administer.

Students will learn to do file processing, process management, IO management, queues management, networking, storage backup, account management, proper system start-up and shutting down, as well as other tasks.

Course Title:- Major Project development Activity

Course Outcomes:-

CO1: Project based learning will increase their capacity and learning through shared cognition. Students will have an ability to identify, formulate and implement computing solutions. Students will be able to design a system, component or process as per needs and specification.

Course Title:- Client Server Technology

Course Outcomes:-

CO1 : Gain Exposure on most common used servers. Understand the concept of client-server development and learn problem solving skills through design scenarios for network environment.

Course Title:- Software Testing Tools

Course Outcomes:-

CO1: At the end of the course the students will be able to Design test cases suitable for a software development for different domains .Identify suitable tests to be carried out and prepare test planning based on the document .Document test plans and test cases designed and Use of automatic testing tools.

Course Title:- Logical Reasoning and Quantitative Aptitude

Course Outcomes:-

CO1 : Understand the basic concepts of QUANTITATIVE ABILITY and LOGICAL REASONING Skills, acquire satisfactory competency in use of VERBAL REASONING and Solve campus placements aptitude papers covering Quantitative Ability, Logical Reasoning and Verbal Ability



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Course Outcomes for Post Graduate Program:

M.Sc. Software Engineering

Course Outcome(s):

Every individual course under this program has course objectives and course outcomes (CO). The course objectives rationally match with program educational objectives. The mapping of PEO, PO and CO is as illustrated below

Course Title:- Programming with C++

Course Outcomes:-

CO1:1 Describe the procedural and object oriented paradigm with the basic concepts of streams, classes, functions, data and objects.

CO1:2 Describe the concept of function overloading, operator overloading, static members, friend functions, friend classes etc.

Course Title:- Software Engineering

Course Outcomes:-

After completion of this course students will be able to

CO1: 1 Learn various methods of software development.

CO1: 2 Apply various software testing techniques.

Course Title:- Operating System Concepts

Course Outcomes:-

CO1:1 Students will be able to understand the working of various types of Operating System

CO2:2. Students will be able to write shell script of various operating systems to perform operations

Course Title:- (Elective) Compute System Security

Course Outcomes:-

After completion of this course student will be able to:

CO1: 1 Capable for defining & creating their own security policies.

CO1: 2 Capable for the real implementation policies according to the policy

Course Title:- : (Elective) Principles of Programming Language Concept

Course Outcomes:-

After completion of this course student will be able to:

CO1:1 Understanding the different language design issues

CO1:2 Understanding the different language translation issues.

Course Title:- Research Methodology

Course Outcomes:-

After completion of this course student will be able to:

CO1:1. Understand basic concepts of research and its methodologies

CO2:2. Able to identify appropriate research domains

Course Title:- Linux Operating System Concepts and Administration

Course Outcomes:-

After completion of this course students will be able to

CO1: 1 Understand the Linux OS architecture.

CO2: 2 Install and use different types of distributions available in market.

Course Title:- Advanced Java Programming

Course Outcomes:-

After completion of this course students will be able to

CO1:1 Impart the knowledge on basics concepts of multithreading programming.

CO1:2 Outline the various AWT classes.

Course Title:- Database Administration

Course Outcomes:-

After completion of this course students will be able to

CO1:1. Distinguish between data administration and database administration

CO2:2. Explain the concept of system performance, backup and recovery

Course Title:- (Elective) Software Reuse

Course Outcomes:-

CO1: : After completion of this course students will be able to understand all models and processes for Reverse Engineering

Course Title:- : (Elective) Object Oriented Analysis & Design using UML

Course Outcomes:-

CO1:1 Understand the OOAD process and components

CO2:2 Install and use UML tools for actual development

Course Title:- Information Technology

Course Outcomes:-

After completion of this course student will be able to:

CO1:1 Understand basic concepts in IT and their use in actual working

Course Title:- Software Testing Tools

Course Outcomes:-

CO1: Student Learning Outcomes: Apply modern software testing processes in relation to software development and project management. Create test strategies and plans, design test cases, prioritize and execute them. Manage incidents and risks within a project.

Course Title:- Client Server Technology

Course Outcomes:-

CO1: Gain Exposure on most common used servers. Understand the concept of client-server development and learn problem solving skills through design scenarios for network environment.

Course Title:- VB .Net Programming

Course Outcomes:-

CO1: Design, formulate, and construct applications with VB.NET. Integrate variables and constants into calculations applying VB.NET. Determine logical alternatives with VB.NET decision structures. Implement lists and loops with VB.NET controls and iteration.

Course Title:- : Management Information System

Course Outcomes:-

CO1: Understand the leadership role of Management Information Systems in achieving business competitive advantage through informed decision making. Analyze and synthesize business information and systems to facilitate evaluation of strategic alternatives.

Course Title:- Operation Research

Course Outcomes:-

CO1: Knowledge and understanding - Be able to understand the characteristics of different types of decision-making environments and the appropriate decision-making approaches and tools to be used in each type. Cognitive skills (thinking and analysis) Communication skills (personal and academic), Practical and subject specific skills (Transferable Skills).

Course Title:- Social Media Technology

Course Outcomes:-

CO1: Understand the link between qualitative and quantitative methods of social network analysis (Evaluation: short analysis papers) Understand how these social technologies impact society and vice versa (Evaluation: in-class exercises), Students will master the skills necessary to become successful social media managers.

Course Title:- Web Technology Tools

Course Outcomes:-

CO1: After Studying that subject students would have capability to make own web site and host their own web site on internet. Also, students would have enough knowledge about what are the technologies used in internet.

Course Title:- Data Science

Course Outcomes:-

CO1: This Programme is a quality assured alternative for the employed learners who generally prefer the Distance learning. Accelerate business value with a scalable data science platform. Infusing AI into your business? Learn how to deploy models faster. Data Driven Solutions. Automatic Recommendations. Interactive Content. Scalable Platform. Personalized Experience.

Course Title:- : Major Project development Activity

Course Outcomes:-

CO1: Project based learning will increase their capacity and learning through shared cognition. Students will have an ability to identify, formulate and implement computing solutions. Students will be able to design a system, component or process as per needs and specification.

Course Title:- Cloud Computing

Course Outcomes:-

CO1: explain the core issues of cloud computing such as security, privacy, and interoperability. choose the appropriate technologies, algorithms, and approaches for the related issues. identify problems, and explain, analyze, and evaluate various cloud computing solutions.

Course Title:- Software Quality Assurance

Course Outcomes:-

CO1: Student Learning Outcomes: Create test strategies and plans, design test cases, prioritize and execute them. Manage incidents and risks within a project. Contribute to efficient delivery of software solutions and implement improvements in the software development processes. critically evaluate alternative standards, models and techniques aimed at achieving quality assurance in a variety of software.

Course Title:- Numerical Aptitude & Logical Reasoning

Course Outcomes:-

CO1: On successful completion of the course the students will be able to Understand the basic concepts of quantitative ability, Understand the basic concepts of logical reasoning Skills, Acquire satisfactory competency in use of reasoning, Solve campus placements aptitude papers covering Quantitative Ability, Logical Reasoning Ability, Compete in various competitive exams like CAT, CMAT, GATE, GRE, GATE, UPSC, GPSC etc.



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Course Outcomes for Post Graduate Program:

M.Sc. System Administration and Networking

Course Outcome

Course Title:- Information Technology

Course Outcomes:-

CO1: Design, install, configure, troubleshoot and manage components of computer systems.

CO2: Apply basic knowledge of Hardware Devices.

CO3: Install, manage, and maintain Computer System. 4. Best Practices for Computer assembling.

Course Title:- Computer Network

Course Outcomes:-

CO1: Design, install, configure, troubleshoot and manage components of computer systems.

CO2: Apply basic knowledge of Network Devices.

CO3: Install, manage, and maintain LAN & WAN

CO4: Best Practices to design network setup.

Course Title:- Fundamental of Linux

Course Outcomes:-

CO1: Appreciate the role of open source operating system as System software.

CO2: Learner will handle Linux OS for software development, web server and database administration for their carrier.

Course Title:- Internetworking Protocols using TCP/IP

Course Outcomes:-

CO1: Design, install, configure, troubleshoot and manage components of Network.

CO2: Apply basic knowledge of TCP/IP protocols.

CO3: Install, manage, and maintain for Ethernet technology

CO4:Best Practices for IP Configuration Setting

Course Title:- Cisco Certified Entry Networking Technician

Course Outcomes:-

CO1: Learn basic networking hardware and tools.

CO2:Practice to design peer to peer network

CO3: Practice to design Client Server Network

Course Title:- Communication Skills - 1

Course Outcomes:-

CO1: Understand and demonstrate Basic English usages for their different purposes.

CO2: Clear entrance examination and aptitude tests.

CO3: Write various letters, reports required for professional life.

Course Title:- Operating System Concepts

Course Outcomes:-

CO1 1. Fundamental understanding of the role of Operating Systems.

CO2:To understand the various memory management techniques

CO3:To apply the cons of process/thread scheduling

CO4: To understand the concept of a process and thread.

Course Title:- Network Administration (Routing)

Course Outcomes:-

CO1: Practical hands-on will help to interconnect the N/W components & design industrial N/w

CO2:Best Practices for configuring dynamic routing protocols

CO3:Best Practices for network troubleshooting.

Course Title:- Linux Administration

Course Outcomes:-

CO1: Appreciate the role of open source operating system as System software.

CO2: Learner will handle Linux OS for software development, web server and database administration for their carrier.

Course Title:- Introduction to Office Automation

Course Outcomes:-

CO1 : After completion of this course student will be able to understand the computer software, hardware, made available to simplify and automate a variety of office operations such as data processing, data manipulating and data presentation with various application those are presents in Microsoft office tools packages.

Course Title:- Ad hoc Sensor Network

Course Outcomes:-

CO1: Describe the unique issues in ad-hoc sensor networks.

CO2: Describe current technology trends for the implementation and deployment of wireless adhoc/sensor networks

CO3: Discuss the challenges in designing MAC, routing and transport protocols for wireless adhoc/sensor networks.

Course Title:- Cloud Computing

Course Outcomes:-

CO1: Awareness of existing demanding trends for Clouds and Virtualizations in the IT industry in order to get placement as well as in research

Course Title:- Network Administration (Switching)

Course Outcomes:-

CO1: Inter VLAN routine will help to establish End to End communication between devices.

CO2: Best Practices for configuring IP Subnet & VLAN protocols

CO3:Best Practices for configuring NAT & ACL

Course Title:- Windows ADC Part –I

Course Outcomes:-

CO1: Best Practices for domain configuration

CO2: Best Practices for group policy

Course Title:- Windows Operating Systems

Course Outcomes:-

CO1: Monitor and troubleshoot Windows 7 computers for problems with the operating system, hardware, network security, and applications

CO2: Best practice to Configure Bit-locker.

CO3: You can configure application software policy.

Course Title:- Elective VMware

Course Outcomes:-

CO1: Install and configure virtualization technology such as VMware.

CO2: Install and configure virtual server components such as vCenter

CO3: Configure and manage virtual network and storage such as vCenter server or ESxi..

Course Title:- Open Elective Logical Reasoning

Course Outcomes:-

CO1: Develops ability to think logically of student

CO2: Understanding Relations, Directions, Arrangements, Logics, Puzzles.



CO3: Improves Mental Alertness

CO4: Construct a logically sound and well-reasoned argument

Course Title:- Exchange Server

Course Outcomes:-

CO1: Deploying Exchange Server 2010

CO2: Best practice to Configure Mailbox server roles

CO3: Best practice to Manage mailboxes in Exchange Server 2010

CO4: Best practice to configure the Distribution Groups

Course Title:- Windows ADC Part – II

Course Outcomes:-

CO1 : Client and Server architecture that provide request and response

CO2 : New Server Manager: Create, Manage Server Groups

CO3: Expanded PowerShell Capabilities

Course Title:- Major Project Development Activity

Course Outcomes:-

CO1 : Project based learning will increase their capacity and learning through shared cognition. Students will have an ability to identify, formulate and implement computing solutions. Students will be able to design a system, component or process as per needs and specification.

Course Title:- Elective Introduction to Next Generation Networks



Course Outcomes:-

CO1: Deploying WLAN & Wi-Fi

CO2: To understand the GSM & GPRS

Course Title:- Elective Distributed System

Course Outcomes:-

CO1: Distinguish between distributed computing and parallel computing.

CO2: Understand concepts of architectural Styles, Communication, and Synchronization.

CO3: Demonstrate different naming & synchronization technologies

CO4: Explore various distributed concepts

Course Title:- Open Elective Numerical Aptitude

Course Outcomes:-

CO1: Develops problem solving skills of student

CO2: Improves Basic and advanced calculations used in day to day life.

CO3: Improves Mental Alertness

CO4: Analytical Thinking



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Course Outcomes for Post Graduate Program:

M.Sc(Biotechnology)

Program Outcome(s)

1. Student can eligible for working as lecturer in junior colleges as lecturer .
2. They are eligible for working as lecturer in Biotechnology, Molecular biology as well as life sciences.
3. They can apply for the technician in national level forensic laboratories.
4. They can work as JRG and SRF in Human Health Research.
5. They can work in transgenic plant and animal production lab.
6. They can apply biochemist, microbiologist and molecular biologist in pharmaceutical lab.



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Course Outcomes

B. VOC Semester - I

Semester – I

Course Title: - Practical English Part I

Course Outcome:

By the end of this course students should be able to:

1. Understand and demonstrate Basic English usages for their different purposes.
2. Clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.

Course Title: - Numerical Aptitude & Logical reasoning

Course Outcome:

- i. Develops problem solving skills of student
- ii. Improves Basic and advanced calculations used in day to day life.
- iii. Improves Mental Alertness
- iv. Construct a logically sound and well-reasoned argument.

Course Title: - Fundamental of Information Technology

Course Outcome:

At the end of this course, student should be able to

- i. Understand basic concepts and terminology of information technology.



- ii. Have a basic understanding of computers and their operations.
- iii. Identify issues related to basic parts.
- iv. Understand number systems used in computers
- v. To impart functional knowledge about networks and internet. To give an overview of computer application in various fields and an overall generic awareness about the scope of the field of IT

Course Title: - Programming Language Concepts

Course Outcome:

After successful completion of this course, students should be able to:

- i. To design algorithms and flowcharts to solve any problems.
- ii. To write software program to solve the given problem
- iii. To use file handling for storing and processing data.
- iv. To design program using graphics function in C

Course Title: - Software Engineering and Testing

Course Outcome:

- i. Ability to learn various methods of software development.
- ii. Ability to apply various software testing techniques

Course Title: - Office Automation

Course Outcome:

After successful completion of this course, students should be able to:

- i. To prepare well designed documentation.
- ii. To create, modify format and print document using MS Word.
- iii. To design pages using different page layouts.
- iv. To work with a Spreadsheet, Charts and perform basic calculations.
- v. To create effective presentations using power point.
- vi. To apply animations and themes to enhance the looks of the Presentation.



vii. To design a database with related tables using MS Access.

Course Title: - Programming Language Concepts

Course Outcome:

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- ii. To write software program to solve the given problem
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- iii To design pages using different page layouts.
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- v To create effective presentations using power point.
- vi To apply animations and themes to enhance the looks of the Presentation.
- vii To design a database with related tables using MS Access.

Semester II

Course Title: - Practical English Part II

Course Outcome:

By the end of this course students should be able to:

1. Understand and demonstrate Basic English usages for their different purposes.
2. Clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.

Course Title: - Data Analysis and Discrete Mathematics

Course Outcome:



- i. Develops problem solving skills of student
- ii. Improves Basic and advanced calculations used in day to day life.
- iii. Improves basics mathematics and statistics
- iv. Construct a logically sound and well-reasoned argument.

Course Title: - Operating System

Course Outcome:

After successful completion of this course, students should be able to:

- i. Understand and analyse theory and implementation of: processes, resource control (concurrency etc.), physical and virtual memory, scheduling, I/O and files
- ii. Use system calls for managing processes, memory and the file system.
- iii. describe, contrast and compare differing structures for operating systems
- iv. Understand the data structures and algorithms used to implement an OS.

Course Title: - Web Technology

Course Outcome:

- i. Describe the concepts of WWW including browser and HTTP protocol.
- ii. List the various HTML tags and use them to develop the user friendly web pages.
- iii. Define the CSS with its types and use them to provide the styles to the web pages at various levels.
- iv. Develop the modern web pages using the HTML and CSS features with different layouts as per need of applications.
- v. Use the JavaScript to develop the dynamic web pages.
- vi. Use server side scripting with PHP to generate the web pages dynamically using the database connectivity.

Course Title: - Graphics Design and Content Management Tools

Course Outcome:

After successful completion of this course, students should be able to:

- i. Utilize several Flash tools and tactics learned throughout the course to produce an



interactive flash based website.

ii. Publish flash movies in numerous formats and contexts in a professional and web friendly manner.

iii. Know types of databases and how to design them.

iv. Know advanced queries and advanced concepts in MySQL.

v. Plan website by choosing colour schemes, fonts, layouts, and more.

vi. Select, install, and activate a theme in word press.

vii. Design e-commerce site using woo commerce plugin.

Course Title: - Desktop Publishing

Course Outcome:

i. Ability to learn various methods of Pagemaker, Coreldraw, Photoshop

ii. Ability to apply various Desktop Publishing

Course Title: - Web Technology

Course Outcome:

i. Describe the concepts of WWW including browser and HTTP protocol.

ii. List the various HTML tags and use them to develop the user friendly web pages.

iii. Define the CSS with its types and use them to provide the styles to the web pages at various levels.

iv. Develop the modern web pages using the HTML and CSS features with different layouts as per need of applications.

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- vi. Select, install, and activate a theme in word press.
- vii. Design e-commerce site using woo commerce plugin.

Course Title: - Desktop Publishing

Course Outcome:

- i. Ability to learn various methods of Pagemaker, Coreldraw, Photoshop
- ii. Ability to apply various Desktop Publishing




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