



Punjab Association's
ANNA ADARSH COLLEGE FOR WOMEN
(Affiliated to University of Madras)
ANNA NAGAR, CHENNAI 600040

CRITERION 1

***1.1.1 Curriculum Planning
and Implementation***

LESSON PLAN

COMPUTER APPLICATION

ANNA ADARSH COLLEGE FOR WOMEN
DEPARTMENT OF BCA – SHIFT II
LESSON PLAN
ACADEMIC YEAR 2021 – 2022

Name of the Staff: Dr. R.Anandha Lakshmi

Total Hours: 90

Name of the Subject: Database Management Systems

Year/Semester: III/V

Subject Code: SAZ5A

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Advantages and Components of a DBMS - Feasibility study – Class Diagrams – Data types – Events – Normal Forms – Integrity – Converting Class Diagrams to Normalized Tables – Data Dictionary	25	Lecture hours for introduction and for the advantages and components of DBMS. Class Diagrams explained in ppt.	Livboard
II	Query Basics – Computation using Queries – Subtotals and GroupBy command – Queries with multiple tables – sub queries – Joins – DDL & DML – Testing Queries	20	Explained all the queries and gave an assignment for their practice.	Livboard , MS Word, Google Assignment
III	Effective Design of Forms and Reports – Form Layout – Creating Forms – Graphical Objects – Reports – Procedural Languages – Data on Forms – Program to retrieve and save data – Error Handling	15	Explained all the types of forms and reports with examples	MS Word, Jamboard
IV	Power of Application structure – User interface features – Transaction – Form Events – Custom Reports – Distributing Application – Table Operations – Data	15	Lecture hours for explaining the application structure	PPT

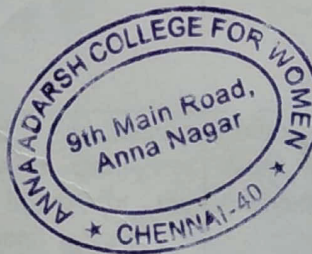
R. Anandha Lakshmi

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
	Storage methods – Storing Data Columns – Data Clustering and Partitioning			
V	Database Administration – Development stages – Application types – Backup and Recovery – Security and Privacy – Distributed Databases – Client/Server Databases – Web as a Client/Server System – Objects – Object Oriented Databases – Integrated Applications	15	Lecture hours to explain the types of Databases.	Livboard, Assignment in GCR

R. Hanthi

P. Sunda

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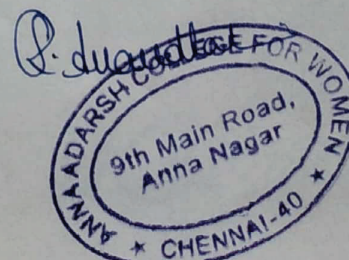
ANNA ADARSH COLLEGE FOR WOMEN
DEPARTMENT OF BCA – SHIFT II
LESSON PLAN
ACADEMIC YEAR 2021 – 2022

Name of the Staff: Dr. R.Anandha Lakshmi
 Name of the Subject: Computer Organization
 Subject Code: SZ23C

Total Hours: 30
 Year/Semester: II/III

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Data representation: Data types – Complements-fixed point and floating point representation other binary codes. Register Transfer and Microoperations: Register transfer language- Register transfer- Bus and Memory transfers – Arithmetic, logic and shift micro operations.	15	Lecture hours for introduction. Illustrated all the conversions.	Jamboard
II	Central processing unit: General register and stack organizations- instruction formats - Addressing modes- Data transfer and manipulation - program control- RISC - Pipelining - Arithmetic and instruction- RISC pipeline - Vector processing and Array processors.	15	Explained addressing modes with examples. Lecture hours for the instructions.	Livboard , MS Word, Google Assignment

R. Anandha Lakshmi
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ANNA ADARSH COLLEGE FOR WOMEN

Department of Computer applications

BCA – SHIFT II

Name of the staff: Dr. Madhumathi K

TotalHours: 90

Name of the subject: Java Programming

Year/ Semester: II/III

Subject code: SZ23B

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Introduction to OOPS: Paradigms of Programming Languages – Basic concepts of Object Oriented Programming – Differences between Procedure Oriented Programming and Object Oriented programming – Benefits of OOPs – Application of OOPs. Java: History – Java features – Java Environment – JDK – API. Introduction to Java: Types of java program – Creating and Executing a Java program – Java Tokens- Java Virtual Machine (JVM) – Command Line Arguments –Comments in Java program.	10	Lecture Hours are used to explain basics about OOPS, Introduction about java, Different types of programming languages, How to execute a java basic programs	Live Board and Power Point Presentation
II	Elements: Constants – Variables – Data types - Scope of variables – Type casting – Operators: Special operators – Expressions – Evaluation of Expressions. Decision making and branching statements- Decision making and Looping– break – labeled loop – continue Statement. Arrays: One Dimensional Array – Creating an array – Array processing – Multidimensional Array – Vectors – ArrayList – Advantages of Array List over Array Wrapper classes.	12	Lecture Hours are used to Explain different Operators, conditional Branching, Looping statements in java, Array, Vectors class and their difference	Chalk and Talk, Sketch board are used to explain the theoretical concept, Programs are explained by running it using java compiler
III	Class and objects: Defining a class – Methods – Creating objects – Accessing class members – Constructors – Method overloading – Static members –Nesting of Methods – this keyword – Command line input. Inheritance: Defining inheritance – types of inheritance– Overriding methods – Final variables and methods – Final classes – Final methods – Abstract methods and classes – Visibility Control- Interfaces:	22	Lecture Hours were used to explain concepts like Overloading, overriding, inheritance, Interface	Live board was used to explain theoretical concept, Programs are explained by running it using java compiler

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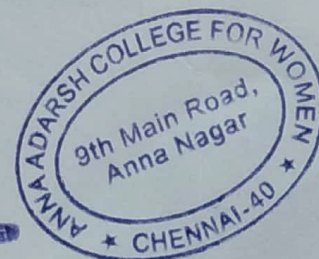
	Defining interface – Extending interface - Implementing Interface - Accessing interface variables. Strings: String Array – String Methods – String Buffer Class.			
IV	Packages: Java API Packages – System Packages – Naming Conventions –Creating & Accessing a Package – Adding Class to a Package – Hiding Classes. Exception Handling: Limitations of Error handling – Advantages of Exception Handling – Types of Errors – Basics of Exception Handling – try blocks – throwing an exception – catching an exception – finally statement. Multithreading: Creating Threads – Life of a Thread – Defining & Running Thread – Thread Methods – Thread Priority – Synchronization –Implementing Runnable interface – Thread Scheduling.	21	Exception Handling, Thread, Package concepts were explained	Live board and Chalk and Talk was used to explain theoretical concept, Programs are explained by running it using java compiler
V	I/O Streams: File – Streams – Advantages - The stream classes – Byte streams –Character streams. Applets: Introduction – Applet Life cycle – Creating & Executing an Applet –Applet tags in HTML – Parameter tag – Aligning the display - Graphics Class: Drawing and filling lines – Rectangles – Polygon – Circles – Arcs – Line Graphs – Drawing Bar charts AWT Components and Event Handlers: Abstract window tool kit – Event Handlers – Event Listeners – AWT Controls and Event Handling: Labels – Text Component – Action Event – Buttons – Check Boxes – Item Event – Choice– Scrollbars – Layout Managers- Input Events – Menus.	25	Lecture hours were used to explain the concept of File and basic operations on files. Applet concept was explained and how to create and use different GUI components were demonstrated	Live board and Sketch Board was used to explain theoretical concept, Programs are explained by running it using java compiler

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R. Sankar

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ANNA ADARSH COLLEGE FOR WOMEN

Department of Computer applications

BCA – SHIFT II

Academic year 2021-2022

Name of the staff: Dr. Madhumathi K

TotalHours: 45

Name of the subject: Software Engineering

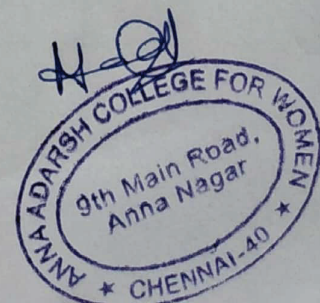
Year/ Semester: III/V

Subject code: SAZ5B

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Introduction to Software Engineering Some definition – Some size factors – Quality and productivity factors – Managerial issue. Planning a Software Project: Defining the problem – Developing a solution strategy – planning the development process – planning an organization structure – other planning activities	15	Lecture hours for Introduction basics of software engineering, Phases in Software development lifecycle and different problem that can be encountered in those phases and different documentation for each Phase that can be generated are Explained	Power point presentation
II	Software Cost Estimation: Software – Cost factors – Software cost estimation techniques – specification techniques – level estimation – estimating software maintenance costs.	12	Lecture hours are used to explain different cost models its pros and cons, different factors that affects cost.	Power point Presentation and Live Board
III	Software requirements definition: The software requirements specification – formal languages and processors for requirements specification.	18	Lecture hours are used for defining the basis of requirements and different ways to represent requirements in formal language	Power point Presentation

S. Sivaraj

R. Shanthi
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ANNA ADARSH COLLEGE FOR WOMEN

Department of BCA – SHIFT II

FORMAT FOR LESSON PLAN

Academic year 2021-22 – ODD SEMESTER(JUN'21 – NOV'21)

Name of the staff: Dr.N.Geetha Lakshmi

Total Hours: 75

Name of the subject: Data Structures using Java

Year/ Semester: II Yr / III Sem

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Abstract Data Types (ADTs)- List ADT-array-based implementation-linked list implementation-singly linked lists-circular linked lists-doubly- linked lists-applications of lists-Polynomial Manipulation- All operations Insertion- Deletion-Merge-Traversal.	14	Explanation through PPT	Powerpoint Presentations, Google Forms
II	Stack ADT-Operations- Applications- Evaluating arithmetic expressions – Conversion of infix to postfix expression-Queue ADT- Operations-Circular Queue- Priority Queue- deQueue-applications of queues.	16	Explanation through PPT, Live program demo	Powerpoint Presentations, Google Forms
III	Tree ADT-tree traversals-Binary Tree ADT-expression trees- applications of trees-binary search tree ADTThreaded Binary Trees- AVL Trees- B-Tree- B+ Tree – Heap- Applications of heap.	15	Explanation through PPT, Live program demo	Powerpoint Presentations, Google Forms
IV	Definition- Representation of Graph- Types of graph-Breadth first traversal – Depth first traversal- Topological sort- Bi- connectivity – Cut vertex- Euler circuits- Applications of graphs.	14	Explanation through PPT, Live program demo	Powerpoint Presentations, Google Forms

P. duandha

Geethalakshmi

V	Searching- Linear search-Binary search-Sorting-Bubble sort- Selection sort- Insertion sort-Shell sort-Radix sort-Hashing-Hash functions- Separate chaining- Open Addressing-Rehashing- Extendible Hashing.	16	Explanation through PPT, Live program demo	Powerpoint Presentations, Google Forms
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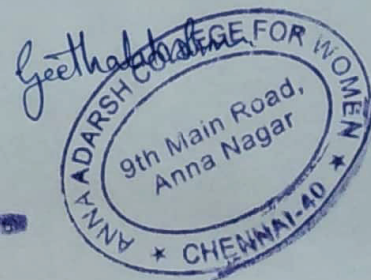
Name of the staff: **Dr.N. Geetha Lakshmi** *R. Shanthi* *Geetha Lakshmi*
ANNA ADARSH COLLEGE FOR WOMEN
 ANNA NAGAR, CHENNAI-600 040 Total Hours: 30

Name of the subject: **Software Engineering** Year/ Semester: **III Yr /V Sem**

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
IV	Software Design: Fundamental Design concepts – Modules and modularizing Criteria – Design Notations – Design Techniques – Detailed Design Consideration – Real time and distributed system design – Test plan – Mile stones walk through and inspection – Design guide lines	15	Explanation through PPT	Powerpoint Presentations, Google Forms
V	Verification and validation techniques: Quality assurance – Static analysis – symbolic exception – Unit testing and Debugging – System testing – Formal verification. Software maintenance: Enhancing maintainability during development – Managua aspects of software maintenance – Configuration management – source code metrics – other maintenance tools and techniques.	15	Explanation through PPT	Powerpoint Presentations, Google Forms

P. Sivaudhal

R. Shanthi
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ANNA ADARSH COLLEGE FOR WOMEN

Department of BCA

LESSON PLAN

Academic year 2021 - 2022

Name of the staff: C.VANISRI

Total Hours: 90

Name of the subject: Visual Programming

Year/ Semester: III / V SEM

Subject code: SEZ5A

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Customizing a Form - Writing Simple Programs - Toolbox - Creating Controls - Name Property - Command Button - Access Keys - Image Controls - Text Boxes - Labels - Message Boxes - Grid - Editing Tools - Variables - Data Types - String - Numbers.	25	Explained the basic concepts of Visual Basic and its controls. Explained how to write simple programs	PowerPoint presentation, MS Word and Live Demo using VB6.0
II	Displaying Information - Determinate Loops - Indeterminate Loops - Conditionals - Built-in Functions - Functions and Procedures.	15	Explained looping and conditional statements with program examples. Explained built-in functions and user defined functions	PowerPoint presentation, programs were explained and executed using Visual Basic software
III	Lists - Arrays - Sorting and Searching - Records - Control Arrays - Combo Boxes - Grid Control - Projects with Multiple forms - DoEvents and Sub Main - Error Trapping.	18	Lecture hours were used to explain arrays and records and other controls. Projects with multiple form concept explained using programs	PowerPoint Presentation, Blackboard teaching and Live demo using Visual Basic software

R. Chandral

C. Vanisri

IV	VB Objects - Dialog Boxes - Common Controls - Menus - MDI Forms - Testing, Debugging and Optimization - Working with Graphics.	16	Lecture hours were used to explain dialog boxes, common controls and working with graphics. Menus and MDI form concepts were explained using programs	PowerPoint Presentation, Blackboard teaching and Demonstration using Visual Basic software
V	Monitoring Mouse activity - File Handling - File System Controls - File System Objects - COM/OLE - automation - DLL Servers - OLE Drag and Drop.	16	Lecture hours were used to explain file system controls, file handling, COM/OLE and OLE drag and drop	PowerPoint Presentation and discussions

ANNA ADARSH COLLEGE FOR WOMEN
Department of BCA
LESSON PLAN
Academic year 2021 - 2022

C. Vanisri

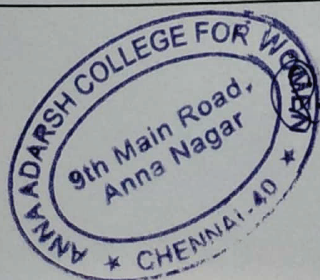
Name of the staff: C.VANISRI

Total Hours: 15

Name of the subject: Professional English

Year/ Semester: I / I SEM

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
III	Raman's equipment and experimental setup - reading scientific terms	7	Reading and find meaning of words in the passage	Powerpoint presentation and discussions
V	Learn new words and their meanings	8	Learned new words and their meanings and formed new sentences	Powerpoint presentation and discussions



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C. Vanisri

R. Ravi
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ANNA ADARSH COLLEGE FOR WOMEN

Department of BCA

LESSON PLAN

Academic year 2021 - 2022

Name of the staff: C.VANISRI

Total Hours: 15

Name of the subject: NME - Office Automation

Year/ Semester: I / I SEM

Subject code: SE51B

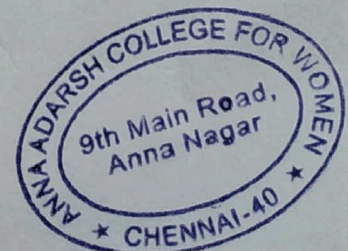
UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
II	DOS – UNIX – WINDOWS – Introduction to Programming Languages : C, C++ and its features	2	Lecture hours were used to explain different types of Operating systems and Introduction to programming languages	Powerpoint presentation
IV	Spreadsheets: Excel – opening, entering text and data, formatting, navigating; Formulas – entering, handling and copying; Charts – creating, formatting and printing.	6	Demonstrated with Microsoft excel with examples	PowerPoint presentation and Live demo on MS Excel
V	PowerPoint: Introduction to Power point – Features – Understanding slide types – creating & viewing slides – creating slide shows. Applying special object – including objects & pictures – Slide transition – Animation effects.	7	Lecture and activity assigned to students to make interactive presentation	PowerPoint presentation and discussion

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R. Shanthi

C. Vanisri

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DEPARTMENT OF BCA – SHIFT II
LESSON PLAN
ACADEMIC YEAR 2021 - 2022

Name of the staff: Dr.D.Seethalakshmi

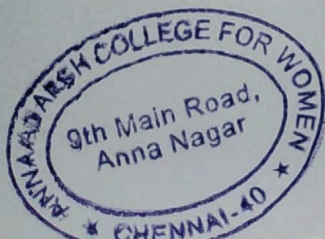
Total Hours: 60

Name of the subject: Problem solving using Python

Year/ Semester: I / I SEM

Subject code: SE21A

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Introduction: The essence of computational problem solving – Limits of computational problem solving- Computer algorithms-Computer Hardware-Computer Software-The process of computational problem solving-Python programming language - Literals - Variables and Identifiers - Operators - Expressions and Data types.	7	Lecture method	PowerPoint presentation
II	Control Structures: Boolean Expressions - Selection Control - If Statement- Indentation in Python- Multi-Way Selection - Iterative Control- While Statement - Infinite loops - Definite vs. Indefinite Loops - Boolean Flags and Indefinite Loops. Lists: List Structures - Lists in Python - Iterating over lists in Python.	13	Lecture method along with simple examples & demonstration with Python IDLE environment	PowerPoint presentation & demonstration with IDLE
III	Functions: Program Routines- Defining Functions- More on Functions: Calling Value-Returning Functions- Calling Non-Value-Returning Functions- Parameter Passing - Keyword Arguments in Python - Default Arguments in Python-Variable Scope.	15	Blended learning to interpret functions and passing values	Interactive and Animated PowerPoint presentation & demonstration with IDLE
IV	Objects and their use: Software Objects - Turtle Graphics - Turtle attributes- Modular Design: Modules - Top- Down Design - Python Modules - Text Files: Opening, reading and writing text files - String Processing - Exception Handling.	13	Demonstration with Python IDLE environment	PowerPoint presentation
V	Dictionaries and Sets: Dictionary type in Python - Set Data type. Object Oriented Programming using Python: Encapsulation - Inheritance - Polymorphism. Recursion: Recursive Functions.	12	Interpretation with the example of dictionaries and set objects	PowerPoint presentation



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ANNA ADARSH COLLEGE FOR WOMEN
DEPARTMENT OF BCA – SHIFT II
LESSON PLAN
ACADEMIC YEAR 2021 - 2022

Name of the staff: Dr.D.Seethalakshmi
 Name of the subject: Computer Organization
 Year/ Semester: II / III SEM
 Subject code: SZ23C

Total Hours: 45

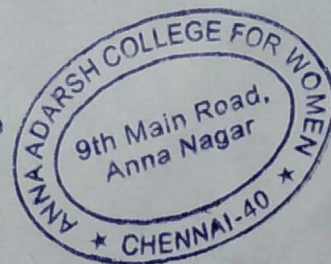
UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
III	Microprocessor Architecture and its operations – 8085 MPU – 8085 Instruction set and classifications programming in 8085: Code conversions – BCD to Binary and Binary to BCD conversions – ASCII to BCD and BCD to ASCII conversions – Binary to ASCII and ASCII to Binary conversions.	20	Lecture method and Make the students to do number conversions using black board	PowerPoint presentation & White Board
IV	Programming in 8085:BCD Arithmetic - BCD addition and Subtraction - Multibyte Addition and Subtraction - Multiplication and Division. Interrupts: The 8085 Interrupt – 8085 Vectored Interrupts	15	Lecture method with examples	PowerPoint presentation & Black Board Teaching
V	Direct Memory Access (DMA)and 8257 DMA controller - 8255A Programmable Peripheral Interface. Basic features of Advanced Microprocessors - Pentium - I3, I5 and I7.	10	Blended learning with online videos	PowerPoint presentation

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ANNA ADARSH COLLEGE FOR WOMEN
DEPARTMENT OF BCA – SHIFT II
LESSON PLAN
ACADEMIC YEAR 2021 - 2022

Name of the staff: Dr.D.Seethalakshmi

Total Hours: 30

Name of the subject: NME- HTML

Year/ Semester: I / I SEM

Subject code: SE51C

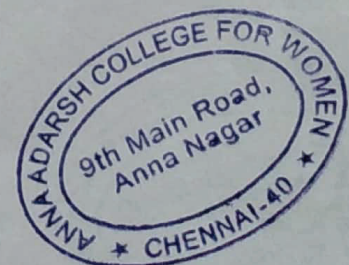
UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	What is Internet – Web browsers – What is Web page – HTML Basics: Understanding tags.	2	Lecture method	PowerPoint presentation
II	Tags for Document structure(HTML, Head, Body Tag). Block level text elements. Headings paragraph(<p> tag) – Font style elements: (bold, italic, font, small, strong, strike, big tags)	6	Lecture method with elements examples	PowerPoint presentation & demonstration with notepad and IE
III	Lists: Types of lists: Ordered, Unordered – Nesting Lists – Other tags: Marquee, HR, BR- Using Images – Creating Hyperlinks	6	Lecture method with examples	PowerPoint presentation & demonstration with notepad and IE
IV	Tables: Creating basic Table, Table elements, Caption – Table and cell alignment – Rowspan, Colspan – Cell padding.	7	Lecture method along with demonstration & make the students to do assignments to create tables	PowerPoint presentation & demonstration with notepad and IE
V	Frames: Frameset – Targeted Links – No frame – Forms : Input, Textarea, Select, Option.	7	Demonstration with frames	PowerPoint presentation & demonstration with notepad and IE

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P. Divya Lakshmi

R. Shanthi

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ANNA ADARSH COLLEGE FOR WOMEN

Department of BCA – (SHIFT II)

Academic Year 2021-22

Name of the Staff : M.MAHESWARI

Total Hours: 120 Hrs

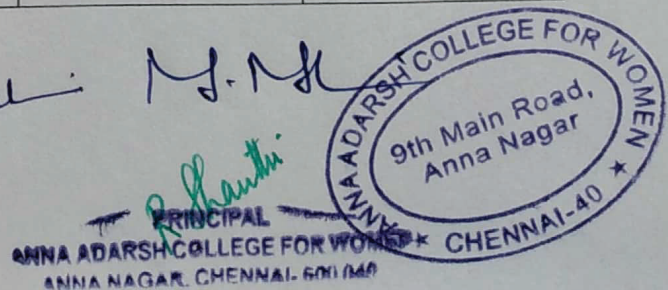
Name of the Subject : Allied Mathematics - I

Year /Semester : I/ I Sem

Subject Code: SBAMM

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Algebra and Numerical Methods: Algebra: Summation of series - simple problems. Numerical Methods: Operators E, Δ , ∇ , difference tables- Newton-Raphson method- Newton's forward and backward interpolation formulae for equal intervals, Lagrange's interpolation formula.	24	Live Board	PPT
II	Matrices: Symmetric, Skew-Symmetric, Orthogonal, Hermetian, Skew-Hermetian and Unitary matrices. Eigen values and Eigen-vectors, Cayley-Hamilton theorem – Computation of inverse of matrix using Cayley - Hamilton theorem.	24	Live Board + Assignment Problems	PPT
III	Theory Of Equations: Polynomial equations with real coefficients, irrational roots, complex roots, symmetric functions of roots, transformation of equation by increasing or decreasing roots by a constant, reciprocal equation-simple problems.	24	Real time examples + Quiz + Live Board	-
IV	Trigonometry: Expansions of $\sin n\theta$ and $\cos n\theta$ in a series of powers of $\sin\theta$ and $\cos\theta$ - Expansions of $\sin^n\theta$, $\cos^n\theta$, $\tan^n\theta$ in a series of sines, cosines and tangents of multiples of " θ " - Expansions of $\sin\theta$, $\cos\theta$ and $\tan\theta$ in a series of powers of " θ " – Hyperbolic and inverse hyperbolic functions .	26	Live Board + Example problems	

P. Chandrala M.M



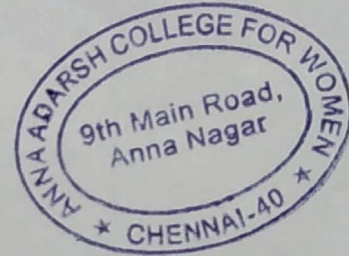
V	Differential Calculus: Successive differentiation, nth derivatives, Leibnitz and applications, Jacobians, Curvature and radius of curvature in Cartesian co-ordinates, maxima and minima of functions of two variables- Simple problems	22	Live Board	
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M. M. S.

S. Suresh

R. Shanthi

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Name of the Staff : M.MAHESWARI
 Name of the Subject : Resource Management Techniques
 Subject Code: SEZ5C

Total Hours: 90 Hrs
 Year /Semester : III/ V Sem

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Basics of Operations Research Characteristics of O.R Necessity of O.R in Industry OR and Decision making Role of computers in O.R. Linear programming: Formulations and Graphical solution (of 2 variables) canonical & standard terms of Linear programming problem. Algebraic solution: Simplex method	15	Chalk & Talk Method	PPT
II	Algebraic solution: Charnes method of penalties two phase simplex method concept of Duality properties of duality Dual simplex method.	20	Live Board + Seminars	
III	Transportation model: Definition formulation and solution of transportation models the row minima, column minima, matrix minima and vogel's approximation methods. Assignment model: Definition of Assignment model comparison with transportation model formulation and solution of Assignment model variations of Assignment problem	18	Chalk & Talk Method + Real time Examples etc.,	PPT
IV	Sequencing problem: Processing each of n jobs through m machines processing n jobs through 2 machines processing n jobs through 3 machines processing 2 jobs through m machines processing n jobs through m machines travelling salesman problem. Game Theory: Characteristics of games Maximin, Minimax criteria of	19	Seminars + Quiz + Chalk & Talk Method	PPT

P. Chandrasekhar *M. Maheswari*

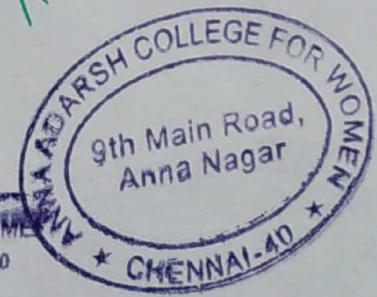
	optimality Dominance property algebraic and graphical method of solution of solving 2 x 2 games.			
V	Pert CPM: Networks Fulkerson's Rule measure of activity PERT computation CPM computation resource scheduling. Simulation: Various methods of obtaining random numbers for use in computer simulation Additive, multiplicative and mixed types of congruence random number generators Monte Carlo method of simulation its advantages and disadvantages.	18	Live Board + Real time examples & Applications.	PPT

M. M.

D. Chandhal

R. Shanthi

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ANNA ADARSH COLLEGE FOR WOMEN
DEPARTMENT OF BCA – SHIFT II
FORMAT FOR LESSON PLAN
ACADEMIC YEAR 2021 – 2022

Name of the Staff: Dr. R.Anandha Lakshmi
Name of the Subject: Computer Networks
Subject Code:

Total Hours: 90
Year/Semester: II/IV

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Introduction – Network Hardware – Software – Reference Models – OSI and TCP/IP Models – Example Networks: Internet, ATM, Ethernet and Wireless LANs – Physical Layer – Theoretical Basis for Data Communication – Guided Transmission Media.	25	Lecture hours for introduction and for the OSI models. Transmission media explained in ppt.	Blackboard, Livboard
II	Wireless Transmission – Communication Satellites – Telephone System : Structure Local Loop, Trunks and Multiplexing and switching, Data Link Layer: Design issues – Error Detection and Correction.	20	Explained all the concepts and gave an assignment for their practice.	Livboard , MS Word, Google Assignment
III	Elementary Data Link Protocols – Sliding Window Protocols – Data Link Layer in the Internet – Medium Access Layer – Channel Allocation Problem – Multiple Access Protocols – Bluetooth.	15	Explained all the functions of layers and protocols with examples	MS Word, Jamboard
IV	Network layer – Design Issues – Routing Algorithms – Congestion Control Algorithms – IP	15	Lecture hours for explaining the Network layer and for the routing algorithms.	PPT

P. Anandha Lakshmi

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
	protocol – IP Addresses – Internet Control Protocols.			
V	Transport Layer – Services – Connection Management – Addressing, Establishing and Releasing a connection – Simple Transport Protocol – Internet Transport Protocols (ITP) – Network Security: Cryptography	15	Lecture hours to explain the functions of transport layer and for the cryptography	Livboard, Assignment in GCR

R. Sankar

S. Suresh

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DEPARTMENT OF BCA – SHIFT II
FORMAT FOR LESSON PLAN
ACADEMIC YEAR 2021 – 2022

Name of the Staff: Dr. R.Anandha Lakshmi
 Name of the Subject: Multimedia Systems
 Subject Code: SEZ6D

Total Hours: 30
 Year/Semester: III/VI

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	What is Multimedia: Definitions – CD-ROM and the Multimedia Highway – Where to use Multimedia – Introduction to Making Multimedia: The Stages of a project – What you need – Multimedia Skills and Training: the team – Macintosh and Windows Production Platforms: Macintosh versus PC platform – Networking Macintosh and windows computers – Hardware Peripherals: Connections – Memory and Storage Devices – Input Devices – Output Hardware – Communication Devices.	15	Lecture hours for introduction. Illustrated all the conversions.	Jamboard Blackboard,
IV	Images: Making still Images – Colour – Image file formats. Animation: The power of motion – Principles of Animation – Making Animations that work – Video: Using Video – How Video works – Broadcast video standards – Integrating computers and television – Shooting and Editing	15	Explained Images and Videos with examples in ppt. Lecture hours for the instructions.	Livboard , MS Word, Google Assignment

P. Anandha Lakshmi

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
	Video - Video tips - Recording formats - Digital video			

R. Hanthi

P. Sundaal

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LESSON PLAN
Academic year 2021 - 2022

Name of the staff: **Dr. MADHUMATHI K**

Total Hours: **30**

Name of the subject: **SOFTWARE TESTING**

Year/ Semester: **III / VI SEM**

Subject code: **SAZ6C**

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
II	Unit-2: Flow/Graphs and Path Testing – Achievable paths – Path instrumentation – Application – Transaction Flow Testing Techniques	15	Lecture method	Blackboard / PowerPoint Presentation
IV	Unit-4: Linguistic –Metrics – Structural Metric – Path Products and Path Expressions. Syntax Testing – Formats – Test Cases .	15	Lecture method	Blackboard / PowerPoint Presentation

S. Sundar

R. Shanthi

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LESSON PLAN
Academic year 2021 - 2022

Name of the staff: **Dr. MADHUMATHI K**
 Name of the subject: **E-COMMERCE TECHNOLOGIES**
 Subject code:

Total Hours: **30**
 Year/ Semester: **II / IV SEM**

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	History of E-commerce and Indian Business Context: E-Commerce – Emergence of the Internet – Emergence of the WWW – Advantages of E-Commerce – Transition to E-Commerce in India – The Internet and India – E-transition Challenges for Indian Corporate. Business Models for E-commerce: Business Model – E-business Models Based on the Relationship of Transaction Parties - E-business Models Based on the Relationship of Transaction Types.	15	Lecture method	Blackboard / PowerPoint Presentation
III	E-Security: Information system Security – Security on the Internet – E-business Risk Management Issues – Information Security Environment in India. Legal and Ethical Issues : Cybers talking – Privacy is at Risk in the Internet Age – Phishing – Application Fraud – Skimming – Copyright – Internet Gambling – Threats to Children.	15	Lecture method	Blackboard / PowerPoint Presentation

P. Sundar

R. Harithi

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LESSON PLAN
Academic year 2021 - 2022

Name of the staff: **Dr. MADHUMATHI K**

Total Hours: **75**

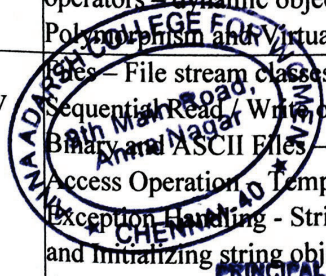
Name

of the subject: **OBJECT ORIENTED PROGRAMMING CONCEPTS USING C ++**

Year/ Semester: **I / II SEM**

Subject code: **SU22A**

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Introduction to C++ - key concepts of Object-Oriented Programming – Advantages – Object Oriented Languages – I/O in C++ - C++ Declarations. Control Structures : - Decision Making and Statements : If ..else, jump, goto, break, continue, Switch case statements - Loops in C++ : for, while, do - functions in C++ - inline functions – Function Overloading..	14	Lecture Hours are used to explain basics about OOPS and branching and looping statements	Live Board and Power Point Presentation
II	Classes and Objects: Declaring Objects – Defining Member Functions – Static Member variables and functions – array of objects –friend functions – Overloading member functions – Bit fields and classes – Constructor and destructor with static members.	15	Lecture Hours are used To Define class, object creation, functions creation and define constructor	Black Board, Sketch board are used to explain the theoretical concept, Programs are explained by using C++ compiler
III	Operator Overloading: Overloading unary, binary operators – Overloading Friend functions – type conversion – Inheritance: Types of Inheritance – Single, Multilevel, Multiple, Hierarchical, Hybrid, Multi path inheritance – Virtual base Classes – Abstract Classes.	17	Lecture Hours are used to explain overloading concept, Inheritance and its types	Live board is used to explain theoretical concept, Programs are explained by running it using C++ compiler
IV	Pointers – Declaration – Pointer to Class , Object – this pointer – Pointers to derived classes and Base classes – Arrays – Characteristics – array of classes – Memory models – new and delete operators – dynamic object – Binding, Polymorphism and Virtual Functions.	14	Lecture Hours are used to explain pointer, polymorphism, Array concept	Black Board, Sketch board are used to explain the theoretical concept, Programs are explained by using C++ Compiler
V	Files – File stream classes – file modes – Sequential Read / Write operations – Binary and ASCII Files – Random Access Operation – Templates – Exception Handling - String – Declaring and Initializing string objects – String Attributes – Miscellaneous functions	15	Lecture Hours are used to explain the file concept , Working using File, Exception Handling	Black Board, Sketch board are used to explain the theoretical concept, Programs are explained by using C++ Compiler



L. Daudal *R. Shanmuga* *[Signature]*

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LESSON PLAN

Academic year 2021-22 – EVEN SEMESTER

Name of the staff: Dr.N.Geetha Lakshmi

Total Hours: 90

Name of the subject: Data Communication and Networks

Year/ Semester: III Yr /

VI Sem

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Unit 1: Introduction to Data Communication, Network, Protocols & standards and standards organizations - Line Configuration - Topology - Transmission mode - Classification of Network - OSI Model - Layers of OSI Model.	14	Discussion hours for introduction, and lecture hours for the explanation of Topology, its real-time application areas explained with relevant diagrams	Jam board, Google Forms for quiz
II	Unit-2: Parallel and Serial Transmission - DTE/DCE/such as EIA-449, EIA-530, EIA-202 and x.21 interface - Interface standards - Modems - Guided Media - Unguided Media - Performance - Types of Error - Error Detection - Error Corrections.	16	Explanation through interactive lecture hours, concepts explained through simulation concepts	Powerpoint Presentations, Google Forms for assignments

P. Anandha

Geethalakshmi

III	Unit 3: : Multiplexing - Types of Multiplexing - Multiplexing Application - Telephone system - Project 802 - Ethernet - Token Bus - Token Ring - FDDI - IEEE 802.6 - SMDS - Circuit Switching - Packet Switching - Message switching - Connection Oriented and Connectionless services.	17	Lecture hours and discussion hours to impart concepts through practical examples	Jam board
IV	Unit-4: History of Analog and Digital Network - Access to ISDN - ISDN Layers - Broadband ISDN - X.25 Layers - Packet Layer Protocol - ATM - ATM Topology - ATM Protocol.	14	Explanation through PPT , co-relating to real-life scenarios.	Jam board Powerpoint Presentations
V	Unit-5: Repeaters - Bridges - Routers - Gateway - Routing algorithms - TCP/IP Network, Transport and Application Layers of TCP/IP - World Wide Web.	14	Lecture hours and discussion hours for explanation and co-relating live examples.	Jam board Powerpoint Presentations, Google Forms

P. Sivaudal

Geethalakshmi

R. Shanki



Name of the staff: Dr.N. Geetha Lakshmi

Total Hours: 45

Name of the subject: E-Commerce Technologies Year/ Semester: II Yr /IV Sem

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
II	Enabling Technologies of the World Wide Web: World Wide Web – Internet Client-Server Applications – Networks and Internets – Software Agents – Internet Standards and Specifications – ISP. e-Marketing :Traditional Marketing – Identifying Web Presence Goals – Online Marketing – E-advertising – E-branding.	15	Introduction, explanation will be done in Lecture hours using PPT	Jam board, Google Forms for On-the-Go Quiz sessions.
IV	e-Payment Systems: Main Concerns in Internet Banking – Digital Payment Requirements – Digital Token-based e-payment Systems – Classification of New Payment Systems – Properties of Electronic Cash – Cheque Payment Systems on the Internet – Risk and e-Payment Systems – Designing e-payment Systems – Digital Signature – Online Financial Services in India - Online Stock Trading.	15	Explanation through PPT and co-relating with real-time scenarios	Powerpoint Presentations, Google Forms

P. S. S. S. S.

Geetha Lakshmi

V	<p>Information systems for Mobile Commerce: What is Mobile Commerce? – Wireless Applications – Cellular Network – Wireless Spectrum – Technologies for Mobile Commerce – Wireless Technologies – Different Generations in Wireless Communication – Security Issues Pertaining to Cellular Technology. Portals for E-Business: Portals – Human Resource Management – Various HRIS Modules.</p>	15	<p>Lecture hours spent for concept explanation and disussion</p>	<p>Jam board, Powerpoint Presentations, Google Forms</p>
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P. Sivaudal

Geethalakshmi

R. Senthil

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Department of BCA – SHIFT II

LESSON PLAN

Academic year 2021 - 2022

Name of the staff: C.VANISRI

Total Hours: 75

Name of the subject: WEB TECHNOLOGY

Year/ Semester: III / VI SEM

Subject code: SAZ6A

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Introduction to VBScript - Adding VBScript Code to an HTML Page - VB Script Basics - VBScript Data Types - VBScript Variables - VBScript Constants - VBScript Operators - Mathematical - Comparison- Logical operators - Using Conditional Statements - Looping Through Code - VBScript Procedures - Type casting variables - Math functions - Date functions - String functions - other functions - VBScript Coding Conventions - Dictionary Object in VBScript - Err Object	15	Explanation through PPT, Live program demo	PowerPoint Presentation, Google forms and Live Demo using Notepad and Internet Explorer
II	Introduction to Javascript - Advantages of Javascript - Javascript syntax - Data type - Variable - Array - Operator - Expression - Looping - Control structures - Constructor Function - User defined function - Dialog Box .	17	Explanation through PPT, Live program demo and discussions about the basic concepts of Javascript	PowerPoint Presentation, Google forms and Program demo using Notepad, Internet Explorer

P. S. S. S. S.

C. Vanisri

III	Javascript Document Object Model – Introduction – Object in HTML – Event Handling – Window object – Document object – Browser object – Form object – Navigator object – Screen object – Build-in object – User defined object – Cookies.	14	Lecture method and discussions	PowerPoint Presentation, Google forms and blackboard teaching
IV	ASP.NET Language Structure – Page Structure – Page event , Properties - Compiler Directives . HTML server controls – Anchor, Tables, Forms, Files . Basic Web server Controls – Label, Text box, Button, Image Links, Check, Radio Button, Hyperlink, Data List Web Server Controls – Check box list. Radio button list, Drop down list, Listbox, Data grid, Repeater.	15	Explanation through Live program demo.	PowerPoint Presentation and Live demo using Visual Studio.NET and black board teaching
V	Request and Response Objects, Cookies, Working with Data – OLEDB connection class, Command class, Transaction class, Data adaptor class, Data set class. Advanced issues – Email, Application issues, Working with IIS and page Directives , error handling. Security – Authentication, IP Address, Secure by SSL - Client Certificates	14	Lecture method	PowerPoint presentation and Group discussions

P. Sundaiah

C. Varadachari

R. Rathi
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Department of BCA – SHIFT II

LESSON PLAN

Academic year 2021-2022

Name of the staff: C.VANISRI

Total Hours: 45

Name of the subject: Multimedia Systems

Year/ Semester: III / VI SEM

Subject code: SEZ6D

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
II	Basic Tools: Text Editing and Word Processing Tools – OCR Software - Painting and Drawing Tools - 3-D Modeling and Animation Tools - Image-Editing Tools - Sound Editing Tools - Animation, Video and Digital Movie Tools - Helpful Accessories - Making Instant Multimedia: Linking Multimedia Objects - Office Suites – Word Processors - Spreadsheets - Databases - Presentation Tools. Multimedia Authoring Tools: Types of Authoring Tools - Card-and-Page-Based Authoring Tools - Icon-Based Authoring Tools - Time-Based Authoring Tools - Object-Oriented Authoring Tools - Cross-Platform Authoring Notes	16	Lecture method and discussions	PowerPoint presentation, Blackboard teaching and discussions

P. Chandhal

C. Vanisri

III	Text: The Power of Meaning - About Fonts and Faces – Using Text in Multimedia - Computers and Text - Font Editing and Design Tools - Hypermedia and Hypertext - Sound: The Power of Sound - Multimedia System Sounds - MIDI Versus Digital Audio - Digital Audio - Making MIDI Audio - Audio File Formats - Working with Sound on the Macintosh - Notation Interchange File Format (NIFF) – Adding Sound to Your Multimedia Project - Toward Professional Sound: The Red Book Standard - Production Tips	15	Lecture method and discussions	PowerPoint presentation and Live demo using MS Word and MS Paint
V	Planning and costing: Project Planning – Estimating – RFPs and Bid proposals – Designing and Producing: Designing – Producing – Content and Talent: Acquiring Content – Using content created by others – Using content created for a Project – Using Talent – Delivering: Testing – Preparing for Delivery – Delivering on CD-ROM – Compact Disc Technology – Wrapping it up – Delivering on the World Wide Web.	14	Lecture method	PowerPoint presentation and Black board teaching

C. Varadani

P. Chaudhali

R. Shanthi



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LESSON PLAN
Academic Year 2021 - 2022

Name of the staff: **Dr.D.Seethalakshmi**

Total Hours: **90**

Name of the subject: **Open Source Technologies**

Year/ Semester: **II / IV SEM**

Subject code:

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Introduction – Why Open Source – Open Source –Principles, Standards Requirements, Successes – Free Software – FOSS – Internet Application Projects.	18	Lecture method and Interpretation	Blackboard Teaching
II	Open source – Initiatives, Principles, Methodologies, Philosophy, Platform, Freedom, OSSD, Licenses – Copy right, Copy left, Patent, Zero Marginal Technologies, Income generation opportunities, Internalization.	19	Lecture method along with examples & demonstration	Blackboard Teaching
III	Case Studies – Apache, BSD, Linux, Mozilla (Firefox), Wikipedia, Joomla, GCC, Open Office.	18	Lecture Method and Discussions on features of Open Source Technology and to interpret, contrast and compare open source products among themselves	Blackboard Teaching
IV	Open Source Project –Starting, Maintaining –Open Source – Hardware, Design, Teaching & Media.	17	Lecture Method	Blackboard Teaching
V	Open Source Ethics – Open Vs Closed Source – Government – Ethics – Impact of Open source Technology – Shared Software – Shared Source.	18	Lecture Method and Discussion	Blackboard Teaching

R. Seethalakshmi

R. Seethalakshmi

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LESSON PLAN
Academic Year 2021 - 2022

Name of the staff: Dr.D.Seethalakshmi
Name of the subject: Software Testing
Year/ Semester: III / VI SEM

Total Hours: 45

Subject code: SAZ6C

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Introduction: Purpose – Productivity and Quality in Software – Testing Vs Debugging – Model for Testing – Bugs – Types of Bugs – Testing and Design Style.	18	Lecture method and Discussions	Blackboard Teaching
III	Data Flow Testing Strategies - Domain Testing: Domains and Paths - Domains and Interface Testing	15	Lecture method and Discussions	Blackboard Teaching
V	Logic Based Testing – Decision Tables – Transition Testing – States, State Graph, State Testing	12	Blended learning with online videos	Blackboard Teaching

P. Sridhar

R. Shanthi

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Department of BCA – SHIFT II

LESSON PLAN

Academic Year 2021 - 2022

Name of the staff: Dr.D.Seethalakshmi

Total Hours: 15

Name of the subject: Professional English

Year/ Semester: I / II SEM

Subject code:

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
III	Digital Competence - The Fibonacci Around Us - Software Localization And Social Justice - Digital Competence For Academic And Professional Life - Electronic Warfare And Defense - Phosgene - The Deadly Villain Of The Bhopal Gas Tragedy	8	Framing own sentence, discussing digital competence, story building and fill in the blank with appropriate words through blended learning by watching YouTube video.	Blackboard teaching, PowerPoint presentation and discussions
V	Workplace Communication & Basics Of Academic Writing - Artificial Intelligence - Siri, Cortana, And Alexa Carry The Marks Of Their Human Makers - Product Description - Drafting A Circular -	7	Capitalization, Punctuation activity, writing paraphrases, writing minutes of a meeting and drafting a circular	Blackboard Teaching and Discussions

S. Sridhar

R. Senthil

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Department of BCA – (SHIFT II)

LESSON PLAN

Academic Year 2021-2022

Name of the Staff: M.MAHESWARI

Total Hours: 120 Hours

Name of the Subject: Allied Mathematics-II

Year /Semester: I/ II Sem

Year / Semester: I / II SEM

Subject Code: SM3AE

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Integral Calculus: Bernoullis formula – Reduction formulae - $\int_0^{\pi/2} \sin^n x dx,$ $\int_0^{\pi/2} \cos^n x dx,$ $\int_0^{\pi/2} \sin^m x \cos^n x dx,$ Fourier Series for functions in $(0, 2\pi)$.	20	White Board	PPT, Discussion
II	Differential Equations: Ordinary Differential Equations: second order non-homogeneous differential equations with constant coefficients of the form $ay'' + by' + cy = X$ where X is of the form $e^{ax}\cos\beta x$ and $e^{ax} \sin\beta x$ -Related problems only. Partial Differential Equations: Formation, complete integrals and general integrals, four standard types and solving Lagrange's linear equation $Pp + Qq = R$.	26	Quiz + Conducting test.	PPT, Black Board Teaching

P. Chandrasekhar

M. Maheswari

III	Laplace Transforms: Laplace transformations of standard functions and simple properties, inverse Laplace transforms, Application to solution of linear differential equations up to second order- simple problems.	26	Giving Real time examples + Applications in various fields	PPT, Quiz, Black Board teaching
IV	Vector Differentiation: Introduction, Scalar point functions, Vector point functions, Vector differential operator, Gradient, Divergence, Curl, Solenoidal, irrotational, identities.	24	Jam Board + Quiz + Test	PPT, Black Board teaching
V	Vector Integration: Line, surface and volume integrals, Gauss, Stoke's and Green's theorems – Simple Problems.	24	Seminars + Quiz + Assignment Problems	PPT, Black Board teaching

M. M.

P. Chandrasekhar

R. Shankar

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LESSON PLAN

Academic Year 2021-2022

Name of the Staff: M.MAHESWARI

Total Hours: 90 Hours

Name of the Subject: E-Commerce

Year / Semester: III / VI SEM

Subject Code: SEZ6B

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Electronic Commerce and Opportunities : Background The Electronic Commerce Environment – Electronic Marketplace Technologies – Modes of Electronic Commerce Overview: Electronic Data Interchange.	18	Real time examples + Applications of Ecommerce in various fields.	PPT, Assignment, Quiz.
II	Approaches to Safe Electronic Commerce- Overview – Secure Transport Protocols – Secure Transaction – Secure Electronic Payment Protocol (SEPP) – Secure Electronic Transaction (SET)	20	Quiz + Seminars	PPT, Black Board Teaching.
III	Certificates for Authentication – Security on Web Servers – Payment Schemes: Internet Monetary Payment and Security	18	Assignment + Quiz + Live Board.	PPT, Discussion.

P. Chandrasekhar

M. Maheswari

	Requirements- Payment and purchase order process – Online electronic cash.			
IV	Internet / Intranet Security Issues and Solutions : The Need for Computer Security – Specific Intruder Approaches – Security Strategies- Security Tools – Encryption – Enterprise Networking and Access to the Internet Antivirus Programs.- Security Teams	16	Live Board + Giving real time examples using Diagrams	PPT
V	MasterCard/Visa Secure Electronic Transaction: Introduction –Business Requirements – Concepts – payment Processing. E-mail and secure e-mail technologies for Electronic Commerce: Introduction – The Means of Distribution – A model for Message Handling- MIME, S/MIME, MOSS, MIME and Related Facilities for EDI over the Internet.	18	Jam Board	PPT

Radhadevi

M. N. S.

R. Rathi

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Department of BCA – (SHIFT II)

LESSON PLAN

Academic Year 2021-2022

Name of the Staff : M.MAHESWARI

Total Hours: 30Hrs

Name of the Subject : Functional Mathematics-II

Year /Semester: I/ II Sem

Subject Code: SM5AB

UNIT	CHAPTER	HOURS	METHODOLOGY	ICT TOOLS ADOPTED
I	Time and work – Pipes and cisterns-Problem.	6	Real time examples + Quiz + Live Board	PPT
II	Time and Distance, Relative speeds-Problems on Races, Boats and Trains.	6	Live Board + Seminars	PPT
III	Mensuration-Problems.	6	Live Board + Quiz+ Assignment Problems	PPT
IV	Polygons-Interior angles- Number of diagonals- Regular Polygon-Problems.	6	Lecture method + discussion	Power point presentation, Black Board teaching and discussion

R. Pranthi
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