BHAVAN'S VIVEKANANDA COLLEGE
SCIENCE,HUMANITIES, AND COMMERCE
SAINIKPURI,SECUNDERABAD -500094

AUTONOMOUS COLLEGE.AFFILIATED TO OSMANIA UNIVERSITY

TEACHING PLAN 2019-20

Name of the Faculty: B.Divya Rekha Vijetha Muralidhar M.Amitha	**Department:** Computer Science	**Year/Semester:** I/I	**No. of Classes per Week:** (4 hrs/Theory)4 hrs Practicals

Learning Objective:

Program:B.Sc(MPCs,MECs,MSCs) **Subject: Programming in C**

S.No	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June	June 4th Week	1	Types of Programming Languages, Algorithms, Flow charts, High Level Languages.	Types of Laanguages Macine,Assembly,High Level	Model Demonstration for Variable -Declaration, Initilization with swapping example.	
2	July	July 1st Week		Introduction, Basic Structure of C Program. Constants, Variables and Data types: Character Set, C Tokens, Keywords and Identifiers, Constants, Variables		Chalk and board and LCD presention with sample programmes in Lab Class.	
3		July 2nd Week		Data Types, Declaration of Variables(primary type declaration), Assigning Values to Variables		Chalk and board and LCD presention with sample programmes in Lab Class.	Example programs
4		July 3rd Week	2	Defining Symbolic Constants. Operators and Expressions: Arithmetic operators, Relational operators, Logical operators, Assignment operators, Increment and decrement operators, Bitwise operators, Special operators,Evaluation of expressions, Precedence of arithmetic operators.	Diffrence between Mathematical and C Expression Framming methods.	Chalk and board and LCD presention with sample programmes in Lab Class.	conducting quiz in these concepts
5		July 4th Week		Simple if statement, if else statement, Nested-if statements		Chalk and board and LCD presention with sample programmes in Lab Class.	

6		July 5th Week		else if ladder, switch statement, conditional operator.		Chalk and board and LCD presention with sample programmes in Lab Class.	**Group Discussion** for loops
7	August	Aug 1st Week		while statement, do statement,		Chalk and board and LCD presention with sample programmes in Lab Class.	
8		Aug 2nd Week		for statement, nesting of loops Jumping out of a loop (using break statement), Skipping a part of a loop(using continue statement).		Chalk and board and LCD presention with sample programmes in Lab Class.	
9		Aug 3rd Week		Definition of an array, One-Dimensional Arrays: Declaration and initialization of One-Dimensional Arrays, Two-Dimensional Arrays: Declaration and Initialization of Two-Dimensional Arrays.		Chalk and board and LCD presention with sample programmes in Lab Class.	more example programs
10		Aug 4th Week	3	Definition of a String, Declaring and Initializing String variables, String Handling functions[only built-in functions strlen(),strcpy(),strcat(),strcmp()]		Chalk and board and LCD presention with sample programmes in Lab Class.	**Group Seminar** on functions
11	September	Sep 1st Week		Need for User-defined Functions, The form of C functions, Category of Functions: No arguments and no return values, Arguments but no return values, Arguments with return values. Recursion.	Programing Implementation with realtime problems.	Chalk and board and LCD presention with sample programmes in Lab Class.	
12		Sep 2nd Week		Storage Classes (auto, static, register, extern).Structure definition, Giving values to members, Structure initialization,		Chalk and board and LCD presention with sample programmes in Lab Class.	more example programs
13		Sep 3rd Week	3	Arrays of structures, Arrays within structures, structures within structures, Unions. Pointers: Understanding pointers, Accessing the address of a Variable		Chalk and board and LCD presention with sample programmes in Lab Class.	more example programs
14		Sep 4th Week	4	Declaring and Initializing pointers, Accessing a variable through its pointer		Chalk and board and LCD presention with sample programmes in Lab Class.	Group Discussion for identifing Variables,pointers and
15	Octobe	Oct 1st Week		Different Memory allocation functions and their tasks [malloc(), calloc(),free].		Chalk and board and LCD presention with sample programmes in Lab Class.	

BHAVAN'S VIVEKANANDA COLLEGE

TEACHING PLAN 2019-20

Name of the Faculty: K.Muralidhar B.Divya Rekha B.Vijetha	Department: Computer Science	Year/Semester: I/II	No. of Classes per Week: (4 hrs/Theory)4 hrs Practicals

Learning Objective:

To learn basics of C++, Control Flow, Arrays, Strings.
To learn Functions, OOP's basics, Class and objects, Constructors, destructors
To learn Inheritance and Polymorphism
To learn Templates and Exception Handling.

Program: B.Sc (MPCs,MECs,MSCs) **PAPER TITLE: Programing in C++**

S.No	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November	November 3th Week	1	C++ Structure I/O Tokens, Data types in C++, Variable-Declaration and initialization.	Added features in C++ compared to C language	chalk and board	Group discussion on differences between C and C++
2		November 4th Week		Types of operators,Operator precedence,manipulators,typecasting, Expressions and types	Uses of scope resolution operator	chalk and board	Conducting quiz on these concepts making students involve in concepts
3	December	December 1st Week		Branching statements,Looping statements, 1D,2D arrays, String- initilization, string Manipulations		chalk and board	Conducting quiz on these concepts making students involve in concepts
4		December 2nd Week	2	Introduction to Function components,Library functions,Parameter passing		chalk and board	Making students(experts) explain about the concepts in brief
5		December 3rd Week		Call by value, Call by address, Call by reference, Recursive Functions,		chalk and board	
6		December 4th Week		Introduction to OOP,Concepts,Benefits and Applications of OOP	Real time examples of objects	LCD(examples), chalk and board	Conducting quiz on these concepts making students involve in concepts
7		January 1st Week		Introduction to Classes and Objects,Specifing a class,objects	Live examples of classes and objects	LCD(examples), chalk and board	Seminar on classes and objects

8	January	January 2nd Week	3	Accessing class members, Inline functions, nesting of membr functions		chalk and board	
9		January 3rd Week		Introduction to Constructors and Destructors,Types of Constructors		chalk and board	
10		January 4th Week		Copy constructors, Destructors,Introduction to Inheritance, Single,Multilevel inheritance		chalk and board	
11		January 5th Week		Multiple,Hierarchical inheritance, Function overloading, Introduction to Operator Overloading	Advantages of inheritance	LCD(examples), chalk and board	Seminar on different inheritances
12	February	February 1st Week		Overloading with Unary operator, Pointers,Virtual functions,		chalk and board	
13		February 2nd Week	4	Templates Introduction,Function Templates		chalk and board	
14		February 3rd Week		Class Templates, Basics of Exception Handling	Examples on exceptions	LCD(examples), chalk and board	
15		February 4th Week		Throwing and Catching Mechanism, Multiple Catch Statements		chalk and board	Seminar on exception handling with examples

Learning Outcomes:

By the time students completes the course they can write their own basic c++ programs,
Get equipped to use the functions and object oriented programming concepts,
Use the concepts of inheritance and polymorphism, templates and exception hndling.

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TEACHING PLAN 2019-20

Name of the Faculty: K.Padmapriya P.Srinivasa B.Vijetha K.Vagdevi	Department: Computer Science	Year/Semester: II/III	No. of Classes per Week: (4hr/Theory)4 hrs Practicals

Learning Objectives:

To learn searching and sorting techniques.
To learn Stacks,Queues,Dequeues and Priority Queues.
To learn Linked Lists and Doubly Linked Lists.
To learn Binary Search Tree operations and traversing a graph.

Program:B.Sc MPCs,MSCs,MECs **Subject: Data Structures**

SNo	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June	June 2rd Week	UNIT 1	**Sorting** :Introduction to Data Structures, SequentialLinear Search(straight forward method)	Practical uses of Data Structures	Chalk and Board	
2		June 3rd Week		Binary Search algorithm, Bubble sort, Selection Sort	Real time examples	Chalk and Board	
3		June 4th Week		Insertion Sort , Quick Sort	U-Tube videos	LCD Presentations	Assignment
4	July	July 1st Week	UNIT 2	**Linear Data Structures: Stacks and Queues:** Stacks-Basic Stack Operations	Real time examples	Chalk and Board	
5		July 2nd Week		Stack ADT –Array Implementation, Queues-Queue Operations	Practical Applications	Chalk and Board	Quiz is conducted in class room
6		July 3rd Week		Queue ADT-Array Implementation, Deques	U-Tube videos	Chalk and Board	class room discussion
7		July 4th Week		Priority Queues,Searching and Sorting , Stack ADT and Queue ADT	Practical Applications	Chalk and Board	Class Test
8	A	August 1st Week	U	**Linear Data Structures: General Linear List:**Basic operations-insertion, deletion, retrieval	Real time examples	Chalk and Board	

9	August	August 2nd Week	NIT 3	Implementation of General Linear List, Stack Linked List implementation		LCD Presentations	Assignment
10		August 3rd Week		Queue Linked List Design, Doubly Linked List –insertion and deletion algorithms,Queue ADT Linked List Implementation		LCD Presentations	Quiz is conducted in class room
11		August 4th Week		Concepts, Binary Trees, Binary Tree Traversals,	Real time examples	Chalk and Board	
12	September	September 1st Week	UNIT 4	Binary Search Trees, Operations on Binary Search Trees, Binary Search Tree Algorithms		LCD Presentations	class room discussion
13		September 2nd Week		Graphs: Terminology,Operations, Adjacency Matrix, Adjacency List	Application Areas	LCD Presentations	Quiz is conducted in class room
14		September 3rd Week		Depth-First Traversal, Breadth-First Traversal	Examples	Chalk and Board	Quiz is conducted in class room
15		September 4th Week		Linked Lists and Graphs	Real time examples	Chalk and Board	Class Test

Learning Outcomes:

- ✔ **Able to write different searching and sorting technique programs.**
- ✔ **Able to write programs on stacks, queues, dequeues and priority queues.**
- ✔ **Able to write programs on linked lists , doubly linked lists.**
- ✔ **Able to write programs on Binary Search Tree operations and Tree Traversal Techniques.**

BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE Sainikpuri, Secunderabad-500094
Department of Computer Science

TEACHING PLAN 2019-20

Name of the Faculty:	Department:	Year/Semester:	No. of Classes per Week:
K.Srinivasa Rao/D RAMAKRISHNA	Computer Science	I/II	2 Hrs Theory & Practical

Learning Objective: • To know fundamentals of computer, hardware, software and bus structure.
• To identify the different mother board components connected to a computer.
• To introduce processors, power supply and power protection systems with backup.
• To learn how to assemble a system and install various drivers andoperating systems.
• To learn how to troubleshoot and the basics of boot sequences, methods and startup utilities

Programme: B.SC-III Semester (MPCs/MSCs/MECs) Subject: P.C Maintainance[SEC]

S.No	Month	Month & Week	Units	Syllabus	Additional Input/ Value Addition	Teaching Method	Student/ Learning activity
1	July	July 1st Week	I	Unit-I: Overview of computer systems - features and components , **Mother board**: parts on motherboard	Computer basics, mothrboard design	LCD PPT	System structure & components
2	July	July 2nd Week		**Bus** - Introduction, types – (ISA, EISA, Local Bus, Fire wire, USB), **Microprocessor** - Intel Processors,	I/O Buse,86X familiy (8086, 80286, 80386)	LCD PPT	PGA & SPGA grid Arrays
3	July	July 3rd Week		**Chipset**: North and South bridge.	RAM &ROM	LCD PPT	Logical memory,
4	July	July 4th Week		**Power supply** -Functions and Operation. **Input Devices** – Keyboards-types, Mice-types, Output devices: Video Display – Monitors	Keyboard & Mouse Basics, Moniter types	LCD PPT	Backup Power ups, Kyeboard Controller
5	July	July 5th Week	II	Audio - sound card - installation. Hard Disk Drives - definitions, components, Interfaces (IDE, SCSI, SATA)	Cable Data Transfer Rate	LCD PPT	Data Transfer Serial & Parallel
6		August 1st Week		Removable storage drives - Introduction about CD, DVD, blu ray disc.	Diisk storage technique	LCD PPT & LAB WORK	Plottres, Sectirs, Tracks of HDD

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7	August	August 2nd Week	II	Removable storage drives - Introduction about DVD, blu ray disc.	Connectors by Colors	LCD PPT & LAB WORK	Plottres, Sectirs, Tracks of Optical Media
8		August 3rd Week		Blu Ray DISC	Compare Optical & Magnetic media	LCD PPT & LAB WORK	Plottres, Sectirs, Tracks of Optical Media
9		August 4th Week		Building a system - Tools for maintenance, Disassembly and reassembly procedures,	System Components	LCD PPT & LAB WORK	Desktop systems
10	September	September 1st Week		Building a system -Disassembly	Review of System Components	LCD PPT & LAB WORK	General Tools for PC
11		September 2nd Week		Building a system - Assembly procedures	different ports	LCD PPT & LAB WORK	Precautions to work on PC
12		September 3rd Week		Building a system - Tools for maintenance, Disassembly and reassembly procedures	Precautions to work on PC	LCD PPT & LAB WORK	Onboard & Induvidual MB
13		September 4th Week		Preventive maintenance, Active preventive maintenance,	PC- Tools open source or licenced	LCD PPT & LAB WORK	Maintain Antivurus
14		September 5th Week		Passive preventive maintenance. Diagnostic tools - POST, IBM Diagnostics	PC- Tools open source or licenced	LCD PPT & LAB WORK	Firewals Backup files
15	October	October 1st Week		Operating systems- Loading software and troubleshooting.	Boot from CD OR HDD	LCD PPT & LAB WORK	Bootstrab Loader System File Names
		Learning Outcomes: • Be familiar with computer, hardware, software and bus structure. • Be able to identify the different mother board components connected to a computer. • Be familiar with processors, power supply and power protection systems with backup. • Be able to assemble a system and install various drivers andoperating systems. • Be able to troubleshoot and understand the basics of boot sequences, methods and startup utilities.					

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TEACHING PLAN 2019-20

Name of the Faculty: K.Padma Priya, P.Srinivasa, N Sharon Rosy, B.Vijetha, K.Vagdevi	Department: Computer Science	Year/Semester: II/IV	No. of Classes per Week: (4 hrs/Theory)4 hrs Practicals

Learning Objective:

To impart knowledge of database concepts

To get equipped with information about database administration

To learn basic SQL commands(in lab)

PROGRAM: B.Sc(MPCs,MECs,MSCs) | **PAPER TITLE: DATABASE MANAGEMENT SYSTEMS**

S.No	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November	November 5th Week	1	Database Environment- Basic Concpets and Definitions, Traditional File Processing Systems, Database Approach, Range of Database Applications, Advantages of Database Approach, Costs and Risks	Diffrence between File Processing Systems and Database Approach	Chalk and Board/ LCD Presentations	
2	December	December 1st Week		Components of Database Environment, 3-schema Architecture for Database Development,3-Tier Database location Architecture, E-R Model-Sample E-R Model, E-R Notation, Entities-Types of Entities, Attributes-Types of Attributes	E-R Diagram representation along with relevant examples	Chalk and Board/ LCD Presentations	
3		December 2nd Week	2	Relationships- Degree of Relationship, Cardinality Constraints, Enhanced E-R Model- Representing Super Type, Sub Type, Representing Specialization and Generalization, Specifying Completeness Constraints, Specifying Disjointness Constraints	Differences between E-R Model and EER Model	Chalk and Board/ LCD Presentations	Individual Activity on examples
4		December 3rd Week		Specifying Subtype Discriminators, Defining Super type/Sub type Hierarchies, Relational Model- Definitions, Integrity Constraints, Transforming EER Diagrams into Relations		Chalk and Board/ LCD Presentations	
5		December 4th Week		Normalization: Basic Normal Forms(1NF, 2NF, 3NF), Merging Relations, Denormalization	How to convert E-R Diagram to its corresponding Relational Model	Chalk and Board/ LCD Presentations	
6	January	January 1st Week	3	Backing Up Databases and Concurrency control Access- Basic Recovery Facilities- Backup Facilities, Journalizing Facilities, Checkpoint Facility		Chalk and Board/ LCD Presentations	Individual Activity on examples

PROGRAM: B.Sc(MPCs,MECs,MSC				PAPER TITLE: DATABASE MANAGEMENT SYSTEMS -II/IV			
S.No		Month & Week		Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
7	January	January 2nd Week	3	Recovery Manager, Recovery and Restart Procedures, Switch, Restore/Return, Transaction Integrity. Backward Recovery and Forward Recovery		Chalk and Board/ LCD Presentations usage of ICT tool(College website)	Individual Activity on examples
8		January 3rd Week		Types of Database Failures, Aborted Transactions, Incorrect Data, System Failure, Database Destruction	Practical examples	Chalk and Board/ LCD Presentations	
9		January 4th Week		The Problem of Lost Updates, Serializability, Locking Mechanisms-Locking Levels, Types of Locks		Chalk and Board/ LCD Presentations	
10		January 5th Week	4	Client-Server and Middleware- Client/Server Architectures. 3Tier Architecture-Partitioning, Middleware		Chalk and Board/ LCD Presentations	
11	February	February 1st Week		Establishing Client/Server Security, Client/Server Issues- Distributed Databases- Introduction- Data Replication- Snapshot Replication, Near-Real-Time Replication, Pull Replication, Database Integrity with Replication	Comparison study between Distributed DBMS and Client-Server System		
12		February 2nd Week		When to use Replication, Horizontal Partitioning, Vertical Partitioning, Combination of operations, Distributed DBMS: Location Transparency, Replication Transparency, Failure Transparency, Commit Protocol, Concurrency, Transparency		Chalk and Board/ LCD Presentations	
13		February 3rd Week		Database Administration- Role of data and database administrators: Traditional data administration, Evolving approaches to data and database administration, Evolving apporaches to data administration		Chalk and Board/ LCD Presentations	
14		February 4th Week		Database Administration- Role of data and database administrators: Traditional data administration, Evolving approaches to data and database administration	Differences between DA and DBA	Chalk and Board/ LCD Presentations	
15	March	March 1st Week		Evolving apporaches to data administration		Chalk and Board/ LCD Presentations	

Learning Outcomes:

By the time students completes the course, the students would acquire knowledge on database concepts.
They will also be able to understand the technical and managerial roles of Database Administrator and Data Administrator.
They also will be able to interact with Database using SQL (Lab)

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TEACHING PLAN 2019-20

PROGRAM: BSC (M/P/E CS)-2A	**PAPER TITLE: LIBRE Office Calc and Libre Office Office Base**	
Name of the Faculty: CH N V MALLIKHARJUNA RAO Ms. Vagdevi	**Department: Computer Science**	**Year/Semester: II/IV**	**No. of Classes per Week: 2hrs/Theory**

Learning Objectives:

- To introduce Spreadsheet formulas and functions.
- To familiarize students with formatting, linking and protecting worksheets.
- To understand the usage of pivot tables, conditional formatting and data validation in Spreadsheet.
- To learn about Table creation, Query creation, Form wizard and Report wizard in Base.

S.No	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	D e c e m b e r	December 1st week	1	Introduction to Spreadsheet	Demonstrated about Spreadsheet	Chalk and board and LCD presention	Menus & its Options
2		December 2nd week	1	Basics of Spreadsheet, Formatting of Worksheets.	Menus & its options	Chalk and board and LCD presention	
3		December 3rd week	1	Formulas in Spreadsheet	Demonstrated Formulas with examples	Chalk and board and LCD presention	Functions with no.of examples
4		December 4th week	1	Relative ,Absolute and Mixed Cell References,	Explained with examples	Chalk and board and LCD presention	
5		December 5th week	1	Types of Functions in Spreadsheet.	Explained with examples	Chalk and board and LCD presention	
6	J a n u a r y	January 1st week	1	Types of Charts in Spreadsheet	Demonstrated all charts	Chalk and board and LCD presention	Example Problems
7		January 2nd week	1	Linking between Sheets, Protection of Worksheets	Given Real time examples	Chalk and board and LCD presention	Assignment
8		January 3rd week	1	Filters and Sorting (Advanced Filters), Pivot Tables and Pivot Charts	Demonstrated Filters	Chalk and board and LCD presention	
9		January 4th week	1	Data Validation, Give Permission to Read/Write some area of the Sheet.	Explained with example problem	Chalk and board and LCD presention	Assignment
10		January 5th week	2	Conditional Formatting, Macros, lookup ( ) . vlookup( ), hlookup ( ) functions. Database	Explained with examples	Chalk and board and LCD presention	Example Problems
11	F	February 1st week	2	Exchange (copy, import, export) data between Spreadsheet and Base Base-Creating Database	Given Real time examples	Chalk and board and LCD presention	Assignment

12	e b r u a r y	February 2nd week	2	Creating Tables(design view, datasheet view, wizard).Creating query in design view).	Importance of Queries	Chalk and board	Example Problems
13		February 3rd week	2	Primary and foreign key Connectivity,Select query, Update query. Append and Delete	Importance of Primary and Foreign Key.	Chalk and board and LCD presention	Assignment
14		February 4th week	2	Creating Forms with Wizards	Given Real time examples	Chalk and board and LCD presention	Assignment
15		February 5th week	2	Creating Reports with Wizards (Grouping with Summary Statements).	Given Real time examples	Chalk and board and LCD presention	Assignment

Learning Objectives :

- **Get knowledge about Spreadsheet formulas and functions**
- **Be familiarized about formatting, linking and protecting worksheets**
- **Be able to prepare pivot tables, conditional formatting and data validation in Spreadsheet.**
- **Be able to learn Table creation, Query creation, Form wizard and Report wizard in Base.**

BHAVAN'S VIVEKANANDA COLLEGE

TEACHING PLAN 2019-20

Name of the Faculty: KVB.Saraswathi K.Padma Priya M.Amitha B.Vijetha K.Vagdevi	Department: Computer Science	Year/Semester:III/V	No. of Classes per Week: (3hrs/Theory)4 hrs Practicals

Learning Objectives:

Program: B.Sc (MPCs,MECS,MSCs) **Subject: Programming in JAVA**

S.No	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June	June 2nd Week	UNIT 1	**Unit-I: Fundamentals of OOPs, Classes and Objects** Java Evolution: Java Features – How Java differs from C and C++. Overview of Java Language: Java Program Structure – Implementing	Real life examples	Chalk and Board	
2		June 3rd Week		Overview of Java Language: Java Program Structure – Implementing a Java Program– Java Virtual Machine		Chalk and Board	Quiz using ICT tools
3		June 4th Week		Command Line Arguments. Constants, Variables and Data types: Java Tokens - Data types- Scope of Variables. Fundamentals of Object-Oriented Programming: Basic concepts of Object Oriented Programming, Applications of OOPS.	Example programs	Chalk and Board	
4	July	July 1st Week		Classes and Objects: Defining a Class – Fields Declaration – Methods Declaration – Creating Objects – Accessing class members.	Animated videos	Chalk and Board	Class Test
5		July 2nd Week	UNIT 2	**Unit-II: Class Methods, Arrays, Strings, Interfaces** Class Methods: Constructors – Method Overloading.	Application areas	Chalk and Board	Quiz using ICT tools
6		July 3rd Week		Static Members – Nesting of Methods -Inheritance - Overriding Methods		Chalk and Board	Class Test

7	July	July 4th Week	UNIT 2	Final Variables and Methods – Final Classes – Abstract Methods and Abstract Classes	Example programs	Chalk and Board	
8		August 1st Week		Visibility Control. Arrays and Strings: One-dimensional array Two-dimensional array - String class.		Chalk and Board	Assignments
9	August	August 2nd Week		Interfaces (Multiple Inheritance): Defining Interfaces – Extending Interfaces – Implementing Interfaces.	Real life examples	Chalk and Board	Class room activity
10		August 3rd Week	UNIT 3	**Unit-III: Packages and Multithreaded Programming** Packages: Java API Packages.	Example programs	Chalk and Board	
11		August 4th Week		Creating user-defined Packages – Accessing a Package – Adding a Class to a Package.	Practical applications	Chalk and Board	Assignments
12	September	September 1st Week		Multithreaded Programming: Creating Threads – Extending the Thread Class, Life Cycle of a Thread – Thread Priority.	Application areas	Chalk and Board	
13		September 2nd Week	UNIT 4	**Unit-IV: Exceptions and Applet Programming** Exceptions – Syntax of Exception Handling Code	Animated videos	Chalk and Board	Class room activity
14		September 3rd Week		Multiple Catch Statements – Using Finally Statement. Applet Programming: How applets differ from applications	Animated videos	Chalk and Board	
15		September 4th Week		Preparing to write applets-building applet code-applet life cycle applet tag-adding applet to HTML file-running the applet.	Animated videos	Chalk and Board	Webpage creation

Learning Outcomes:

Students will learn fundementals of OOPs,classes and objects.

Students will develop Java programs relating to classes,arrays,strings and interfaces.

Students will develop Java programs relating to the concepts of packages and multithtreading.

Students will develop Java programs relating to the concepts of exception handling and applets.

Employability aspect: Students will develop interactive web pages,gaming etc- using Java Multithreading and Applets.

BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE

Department of Coputer Science

TEACHING PLAN 2019-20

Name of the Faculty: **KVB Saraswathi** **CH Mallikarjun Rao** **D Rama Krishna** **N Sharon Rosy**	**Department:** **Computer Science**	**Year/Semester: III / V**	**No. of Classes per Week: 7** **(3 hrs/Theory)4 hrs Practicals**

Learning Objective:

COb1: To explain the basics of Operating System and its structure

COb2: To acquire knowledge on the Process Scheduling Algorithms and the process of Synchronization

COb3: To be able to determine the best disk scheduling algorithm and the deadlock handling methods

COb4: To explain the importance of Memory and Virtual Memory Management

Program: B.Sc (MPCs,MECs,MSCs) **Subject: Operating Systems**

S.No	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	June	June Week 2	I	Introduction to Operating Systems, Computer System Architecture: Single Processor Systems, Multiprocessor	Basic Computer Architecture and its Comparison	Chalk and Blackboard	
2		June Week 3		Operating System Services	In detail explanation of the services provided by the OS	Chalk and Blackboard	
3		June Week 4		System Calls, Operating System, Structure- Simple Structure	Comparison of System calls in Windows and Unix	Chalk and Blackboard	Examples of System Calls
4	July	July Week 1		Operating System Structure- Layered Approach, Microkernels, Modules. Process Concepts, Process States, PCB	Comparison between Program and a Process	PPT Presentations	
5		July Week 2		Process Scheduling: Scheduling Queues,Schedulers, Context Switch, IPC	Types of IPC	Chalk and Blackboard	
6		July Week 3	II	Process Scheduling: Scheduling Criteria, Scheduling Algorithms- FCFS, SJF, Priority Scheduling, Round- Robin Scheduling.		Chalk and Blackboard	Understand the different types of Scheduling
7		July Week 4		Synchronization: The Critical- Section Problem, Peterson's Solution, Semaphores- Usage and Implementation, Classic Problems of Synchronization- The Bounded Buffer Problem	Uses of Synchronization	Chalk and Blackboard	

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8	August	August Week 1		The Dining Philosopher Problem, Monitors- Monitor Usage, Dining Philosopher Solution using Monitors,	Differences between Synchronization and Monitors	Chalk and Blackboard	
9		August Week 2	III	Deadlocks: Deadlock Characterization- Necessary Conditions, Resource Allocation Graph, Methods for Handling Deadlocks	Real-Time Reasons for Deadlocks to occur	Chalk and Blackboard	
10		August Week 3		Deadlock Prevention- Mutual Exclusion, Hold and Wait, No preemption, Circular Wait	Other Methods of handling deadlocks	Chalk and Blackboard	
11		August Week 4		Mass Storage Structure: Disk Scheduling- FCFS Scheduling, SSTF Scheduling, SCAN Scheduling,C-SCAN Scheduling, RAID Structure- RAID level 0, RAID level 1,	Importance of Disk Scheduling and Need	PPT Presentations	What is RAID and its importance
12	September	September Week 1	IV	Memory Management Strategies: Background- Basic hardware, Address Binding, Logical vs Physical Address Space. Swapping: Standard Swapping	Need for Memory Management	Chalk and Blackboard	
13		September Week 2		Swapping on Mobile Systems, Contiguous Memory Allocation- Memory Protection, Memory Allocation, Fragmentation		Chalk and Blackboard	
14		September Week 3		Segmentation- Basic Method, Segmentation Hardware, Paging- Basic Method. Virtual Memory Management: Demand Paging		Chalk and Blackboard	Differences between Segmentation and Paging
15		September Week 4		PageReplacement- Basic Page Replacement, FIFO Page Replacement, LRU Page Replacement	Need for Page Replacement and Definition of Page Fault	PPT Presentations	When does a Page Fault occur?
		Learning Outcomes: **CO1: Paraphrase the basic concepts of Operating Systems and its structure** **CO2: Summarize the various Process Management Services of an OS and the problems that could arise due to Synchronization and their respective solutions suggested** **CO3: Determine the Process Scheduling Algorithm or the Deadlock Handling Method to be used.** **CO4: Discuss the process of Memory and Virtual Memory Management**					

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BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE
Sainikpuri, Secunderabad-500094

TEACHING PLAN 2019-2020

Name of the Faculty: K PADMA PRIYA K.VAGDEVI	Department: Computer Science	Year/Semester: III/V	No. of Classes per Week: (2 hrs Theory / Practicals)

Learning Objective:
- **To learn Python programming features, conditional and looping statements.**
- **To learn functions, files and exception handling, lists and tuples.**

Program: MPCS-A,MSCS-A Subject: Python

S.No		Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1		June 4th Week	UNIT-I	Introduction to Python Programming: How a Program Works, Using Python, Program Development Cycle, Input, Processing, and Output, Displaying Output with the Print Function, Comments, Variables, Reading Input from the Keyboard.Performing Calculations (Operators. Type conversions, Expressions), More about Data Output.Decision Structures and Boolean Logic: if, if-else, ifelif-else Statements, Nested Decision Structures		Chalk and board and LCD presentation	
2		July 1st Week		Comparing Strings, Logical Operators, Boolean Variables.		Chalk and board and LCD presentation	
3		July 2nd Week		Repetition Structures: Introduction, while loop		Chalk and board and LCD presentation	Practical Example programs
4		July 3rd Week		Repetition Structures: for loop, Calculating a Running Total	Real-time examples	Chalk and board and LCD presentation	Practical Example programs
5		July 4th Week		Input Validation Loops	Real-time examples	Chalk and board and LCD presention	Practical Example programs
6		July 5th Week		Nested Loops.	Real-time examples	Chalk and board and LCD presentation	Practical Example programs

7		August 1st Week		Unit-II: Functions: Introduction, Defining and Calling a Void Function, Designing a Program to Use Functions		LCD presentation	Practical Example programs
8		August 2nd Week		Local Variables, Passing Arguments to Functions, Global Variables and Global Constants		LCD presentation	
9		August 3rd Week		Internal Exam (CIA-1)			
10		August 4th Week	U N I T - I I I	Value-Returning Functions-Generating Random Numbers, Writing Our Own Value-Returning Functions,		LCD presentation	Practical Example programs
11		August 5th Week		The math Module, Storing Functions in Modules.			
12		September 1st Week		File and Exceptions: Introduction to File Input and Output, Using Loops to Process Files, Processing Records, Exceptions.		LCD presentation	Practical Example programs
13		September 2nd Week		Lists and Tuples: Sequences, Introduction to Lists, List slicing, Finding Items in Lists with the in Operator.	Live Example Programs.	LCD presentation	Practical Example programs
		September 3rd Week		List Methods and Useful Built-in Functions, Copying Lists.	Example Programs.	LCD presentation	Practical Example programs
14		September 4th Week		Processing Lists, Two-Dimensional Lists, Tuples.		LCD presentation	
15		October Ist Week	UNIT-I & UNIT-II	Revision		LCD presentation	

Learning Outcomes:

. Acquire knowledge on python programming features and develop applications using conditional and looping statements. . Develop applications using functions, files and exception handling, list and tuples.

. Employability aspect: A programming language used for Artificial Intelligence.

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BHAVAN'S VIVEKANANDA COLLEGE
OF SCIENCE, HUMANITIES AND COMMERCE
Sainikpuri, Secunderabad-500094
Autonomous College
Affiliated to Osmania University

TEACHING PLAN 2019-20

Name of the Faculty: M Amitha	Department: Computer Science	Year/Semester: III/VI sem	No. of Classes per Week: 2hrs/Theory

Learning Objective:
To understand the im pact of E-Com merce on Business Models and E DI.
To understand Risks of Insecure Systems, Risk Management and E-Payment Systems.

Program:BSC (computer science) Subject : GE(E-commerce)

S.No	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	December	December 1st Week	1	E-Commerce: Introduction -Definition of E-Commerce, Definition of E-Business, potential benefits of E-Commerce		Chalk and black board.	
2		December 2nd Week		Impact of E-Commerce on Business Models Overall Business and E-Commerce Goal Congruence	Debate on models	Chalk , black board and LCD presention	
3		December 3rd Week	1	The Impact of E-commerce on the Value ChainThree Pillars of E-Commerce EDI- Introduction, Traditional EDI Systems		Chalk , black board and LCD presention	
4		December 4th Week	1	The Origin of EDI, Non-EDI Systems, Value Added Networks (VAN), .		Chalk , black board and LCD presention	presentations by students
5		December 5th Week	1	Partiall y Integrated EDI Systems, Fully I ntegrated Systems, Benefits of EDI Systems	Debate	LCD presention	

6	January	January 1st Week	2	The ICDT Business Strategy Model		LCD presention	presentations by students
7		January 2nd Week	2	Risks of Insecure Systems and Risk Management	Debate	LCD presention	presentations by students
8		January 3rd Week	2	E-Com merce Payment Mechanisms		LCD presention	presentations by students
9		January 4th Week	2	Types of payment Mechanism		LCD presention	
10		January 5th Week		Risks of Insecure Systems and		LCD presention	presentations by students
11	February	February 1st Week	2	Risk Management: Introduction	Debate	LCD presention	
12		February 2nd Week	2	SET Protocol		LCD presention	presentations by students
13		February 3rd Week	2	SET Protocol,Magnetic Strip Cards		LCD presention	presentations by students
14		February 4th Week	2	Smart Cards. E- Checks	Debate	LCD presention	presentations by students
15	March	March 1st week	2	E-Cash and other types	Debate	LCD presention	presentations by students

Learning Outcomes:

- Student will be able to analyse the impact of E-Commerce on Business Models and EDI.
- Student will be able to analyze the Risks of Insecure system, Risk Management and Online Payment system.
- Employability aspect: Business Analyst.

Bhavan's Vivekanada college
Department of Computer Science

TEACHING PLAN 2019-20

Name of the Faculty: M Amitha	Department: Computer Science	Year/Semester: III/V	No. of Classes per Week: (1hr Theory)1 hr Practicals

Learning Objective:

To introduce Spreadsheet formulas and functions.
To familiarize students with formatting, linking and protecting worksheets.
To understand the usage of pivot tables, conditional formatting and data validation in Spreadsheet.
To learn about Table creation, Query creation, Form wizard and Report wizard in Base.

Program:BSC (computer science) **Subject**:GE(Libre Office Calc)

SNo	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	July	July 1st Week	UNIT 1	Basic Introduction to Excel-- Basics of Excel, Formatting of Worksheets		LCD presentation	
2		July 2nd Week		Formulas in Excel,Relative, Absolute and Mixed Cell References		LCD presentation	
3		July 3rd Week		Different types of Functions in Excel		LCD presentation	exercises solved by Students
4		July 4th Week		Different types of Charts in Excel	usage of various Charts in Excel	LCD presentation	
5		July 5th week		Linking between Sheets, Protection of Worksheets, Give Permission to Read/Write some area of the Sheet		LCD presentation	
6	Augu	Aug 1st Week	UNIT	Filters and Sorting (Advanced Filters)	exercises solved by Students	LCD presentation	
7		Aug 2nd Week		Pivot Tables and Pivot Charts,		LCD presentation	Exercises sheets

8	st	Aug 3rd Week	2	Data Validation,Conditional Formatting		LCD presentation	
9	August	Aug 4th Week	UNIT 2	Conditional Formatting		LCD presentation	
10		Aug 5th Week		Macros			
11	September	Sep 1st Week		What if analysis		LCD presentation	
12		Sep 2nd Week		Goal seek, Data Table		LCD presentation	
13		Sep 3rd Week		lookup (), vlookup (),		LCD presentation	
14		Sep 4th Week		hlookup () functions	exercises solved by Students	LCD presentation	
15	October	Oct 1st Week		Exchange (copy, import, export) data between Excel and Access.		LCD presentation	Exercises sheets

Learning Outcomes:

- **Get knowledge about Spreadsheet formulas and functions.**
- **Be familiarized about formatting, linking and protecting worksheets.**
- **Be able to prepare pivot tables, conditional formatting and data validation in Spreadsheet.**
- **Be able to learn Table creation, Query creation, Form wizard and Report wizard in Base**

BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE

Sainikpuri, Secunderabad-500094

TEACHING PLAN 2019-2020

Name of the Faculty: N.BHASKAR	Department: Computer Science	Year/Semester: III/V	No. of Classes per Week: (2 hrs Theory / Practicals)

Learning Objective:

- **To learn Python programming features and conditional statements**
- **To learn looping statements and functions**

Program: B.SC **Subject: GE - BASICS OF PYTHON**

SL. NO.	MONTH	MONTH & WEEK	UNITS	SYLLABUS	ADDITIONAL INPUT/VALUE ADDITION	TEACHING METHOD	STUDENT/LEARNING ACTIVITY
1	July	JUL WEEK 1	I	Introduction to Python Programming, Decision Structures and Boolean Logic. Inlroduction to		Chalk & black board	
2		JUL WEEK 2		Python Programnring: How a Program Works, Using Pylhon,	Exercise by students	Chalk & black board	
3		JUL WEEK 3		Program Development Cycle, Input, Processing		Chalk & black board	
4		JUL WEEK 4		and Output, Displaying Output with the Print Function,	Exercise by students	LCD Projector	
5		JUL WEEK 5		Comments, Variables,		LCD Projector	
6	August	AUG WEEK 1		Reading Input from the Keyboard.	Exercise by students	LCD Projector	
7		AUG WEEK 2		Performing Calculations (Operators, Type convcrsions. Expressions), More about Data Output.		LCD Projector	
8		AUG WEEK 3		Decision Structures and Boolcan Logic if, if-else. if-elif-else Slatements.	Exercise by students	LCD Projector	
9		AUG WEEK 4		Nested Decision Structurcs, comparing Strings. Logical Operators	Test in Unit-1	LCD Projector	
10		AUG WEEK 5		Boolean Variables.			

N. Bhaskar

11	S e p t e m b e r	SEPT WEEK 1	II	Repetition Structurcs: Introduction, while loop, for loop, Calculating a Running Total. Inpur Validation Loops, Nested Loops.	Exercise by students	LCD Projector	
12		SEPT WEEK 2		Functionsi Introduction, Defining and Calling a Void Function, Designing a Program to Use Functions.		LCD Projector	
13		SEPT WEEK 3		Local Variables, Passing Arguments to Functions		LCD Projector	
14		SEPT WEEK 4		Global Variables and Global Constants, Value-Returning Functions-Generating Randorn Numbers	Exercise by students	LCD Projector	
15	Oct	OCT WEEK 1		Writing Our Own Value-Returning Functions. The math Module, Storing Functions in Modules.	Test in Unit-2	Chalk & black board	

Learning Outcomes:

. Acquire knowledge on python programming features and develop applications using conditional and looping statements.

. Develop applications using functions, and modules

. Employability aspect: A programming language used for Artificial Intelligence.

BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE,
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Department of Computer Science

TEACHING PLAN 2019-20

Name of the Faculty: KVB Saraswathi, K.Srinivas Rao, N Sharon Rosy, D.RAMAKRISHNA	**Department:** Computer Science	**Year/Semester:** III/II (VI SEM)	**No. of Classes per Week:** 3 Hrs Theory & 4 Hrs Practicals

Learning Objective:
Learn to design static web pages.
To Learn CSS.
Learn to design dynamic web program
Learn about web browser, web servers and case study.

Programme:B.Sc -MSCS-A **PAPER TITLE: Web Technologies**

S.No	Month	Month & Week	Units	Syllabus	Additional Input /Value Addition	Teaching Method	Student/ Learning activity
1	November	November 5th Week	1	UNIT-I: HTML: Introduction , Structure of HTML page, Formatting Tags	Networking, internet, Web, protocols	Chalk and Board	Basic Design of Web
2	December	December 1st Week		Physical and Logical Tags, Font Tags, Heading Tags, Presenting and Arranging text tags, Images	Formatting overall Web Content	Chalk and Board	More Design Heading Tags
3		December 2nd Week		Hyperlinks, Lists	alink , vlink, link of body attributes	Chalk and Board	Linking Section bewteen Webpages
4		December 3rd Week		Tables UNIT-II: More Html & CSS: Frames	Images in tables & Nested frames	Chalk and Board	Spanning of Cells
5		December 4th Week	2	Multimedia Tags (Object, Embed), Forms	Sound, Audio and Video , Form Controls	Chalk and Board	Plugins
7		January 1st Week		CSS: introduction and types of style sheets	Comapre HTML with CSS	Chalk and Board	Styles in Html

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8	January	January 2nd Week		Properties and Values of css (font, background, colors, text & boxes)	Text, Font , Boxes more stylish values	Chalk and Board	
9		January 3rd Week	3	UNIT-III: JAVASCRIPT: Basics, variables, dialog boxes	Data types, Printing Statements in Javascript	Chalk and Board	Dialog boxes for User Intercation
10		January 4th Week		String functoions, Mathematical functions,	String Manupiltaion Examples,	Chalk and Board	Practically Developed Examples
11		February 1st Week		Statements ,Operators, Built in Array functions	Looping, Conditional Statements, Array functions Sort, Push & Pop etc	Chalk and Board	Practical Examples on Statements, Operators,arrays
12	February	February 2nd Week		UNIT-IV: Built in Objects: document, window, Browser	Object & Property	Chalk and Board	More Dynamic Interactivity
13		February 3rd Week	4	Events	Event Handling, Compare Static HTML & DHTML	Lab Assignemt Work	Mouse & Form events
14		February 4th Week		Usefull Software: Web Browsers, Web Servers	Types of browsers, Server Types	Chalk and Board	Apache, Tomcat Servers
15		March 1st Week		The plan , The data	Case Study about Webpage	Chalk and Board	More Creative Web Plan & Design

Learning Outcomes:

Students will be able to design static web pages

Students can create webpages using style sheets and also design Dhtml web pages

students interaction with web browsers , web servers and case study

D. Ramakrishna

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TEACHING PLAN 2019-20

Name of the Faculty: K.PADMAPRIYA S.RAMANA M.AMITHA K.VAGDEVI	Department: Computer Science	Year/Semester: III/VI	No. of Classes per Week: 3 hrs Theory/4 hrs Practical

Learning Objective:

To impart knowledge of layers in networking.
To impart knowledge about physical layer along with its operations.
To impart knowledge about the functionalities of data link layer and its operations.
To have knowledge about different Routing devices and algorithms.

Program: B.Sc (MPCs,MECs,MSCs) **Paper Title: Computer Networks**

S.No	Month	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November	November 5th Week	UNIT-I	Introduction:Data communication and its components, Line configuration,Topologies, Transmission modes	Simulation models	Chalk and board	
2	December	December 1st Week		Categories of networks, OSI/ISO Reference Model	Animation videos	Chalk and board and LCD presentation	
3		December 2nd Week		Layered Architecture		Chalk and board and LCD presentation	
4		December 3rd Week		Functions of layers-Protocols	Importance of Protocols	Chalk and board	Practical knowledge about media
5		December 4th Week	UNIT-I	TCP/IP Reference Model	Comparision between OSI/ISO and TCP/IP	Chalk and board and LCD presentation	
6		January 1st Week		IP Addressing System:Class A,Class B,Class C,Class D &Class E(range and usage)	Example for identifying the class of IP addresses in various organization	Chalk and board and LCD presentation	Example problems on IP Addressing
7	Ja	January 2nd Week	U	Multiplexing:Frequency-Division Multiplexing,Time-Division Multiplexing	Animation videos Real-time applications	Chalk and board and LCD presention	

S. Ramana

8	n u a r y	January 3rd Week	N I T - I I I	Error Detection and Correction:Types of errors,VRC,LRC,CRC,Checksum	Problems	Chalk and board and LCD presentation	Example problems
9		January 4th Week		Transmission media:Guided Media-Twisted pair cable,coaxial cable,optical fiber,Unguided Media-Satellite communication and Cellular telephony.	Application areas	LCD presentation	
10		January 5th Week	U N I T - I I I	Data Link Control: Line Discipline-ENQ/ACK,Poll/Select		Chalk and board and LCD presentation	
11	F e b r u a r y	February 1st Week		Flow Control-Stop and wait,Sliding window ,Error control-Stop and Wait ARQ,Sliding Window ARQ,GO-back-n ARQ	Animation videos	Chalk and board	Class Activity
12		February 2nd Week		Selective-Reject ARQ. Local Area Networks:Introduction to IEEE 802 Ethernet-CSMA/CD,Implementation,Token Ring,Token Passing,Implementation.		LCD presentation	class quiz
13		February 3rd Week	U N I T - I V	Networking and Internetworking Devices:Repeaters,Bridges,Routers,Gateways, Brouters,Switches.	Real time images	LCD presentation	
14		February 4th Week		Routing Algorithms,Distance vector Routing Algorithm,Link State Routing Algorithm.Switching: Circuit switching,packet switching,message switching.		Chalk and board and LCD presentation	Example problems on Routing
15	March	March 1st week		Revision		Chalk and board and LCD presentation	

Learning Outcomes:

- **Students would have learnt fundamental concepts and terminologies in networking, seven layers of OSI model and digital transmission.**
- **Students would have learnt different interfaces alomg with their functionalities and know about multiplexing techniques(FDM,TDM) and Error Detection methods and correction methods.**
- **Students would have learnt how data link layer is implemted at local area networks and get familiarized with flow control and error control mechnisms at data link layer.**
- **Students would have learnt Routing Algorithms.**

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TEACHING PLAN 2019-2020

Program: MSCS-A,MSCS-B,MSCS-A Subject: GUI Programming using JAVA

Name of the Faculty: K PADMA PRIYA B.Divya Rekha	Department: Computer Science	Year/Semester: III/VI	No. of Classes per Week: (2 hrs Theory / Practicals)

Learning Objective:
To learn applets and event handling mechanisms in applets.
To learn swing components.

S.No	Month	Month & Week	Units	Syllabus	Additional Input/ Value Addition	Teaching Method	Student/ Learning activity
1	December	December 1st Week	UNIT-I	Applet class-Two Types of Applets, Applet Basics.		Chalk and board and LCD presentation	
2		December 2nd Week		Applet Architecture, an Applet Skeleton, Simple Applet Display Methods.		Chalk and board and LCD presentation	
3		December 3rd Week		Display Methods, Requesting, <applet> Tag.		Chalk and board and LCD presentation	Practical Example programs
4		December 4th Week		Passing Parameters to Applets.	Real-time examples	Chalk and board and LCD presentation	Practical Example programs
5		December 4th Week		using Status Window,getDocumentBase() and getCodeBase().	Real-time examples	Chalk and board and LCD presentation	Practical Example programs
6	January	January 1st Week		Event Handling-Two Event handling Mechanisms	Real-time examples	Chalk and board and LCD presention	
7		January 2nd Week		Delegation Event Model -Event Classes- Event Listener Interface.	Real-time examples	Chalk and board and LCD presentation	Practical Example programs
8		January 3rd Week		AWT Controls: Labels, Buttons, TextField, TextArea. Repainting.	Real-time examples	LCD presentation	Practical Example programs

9	a r y	January 4th Week		CheckBox, CheckboxGroup, Handling Mouse Events, Handling Keyboard Events.	Game-Related Applications	LCD presentation	Practical Example programs
10		January 5th Week		A Simple Banner Applet. Improving Banner Applet.		LCD presentation	
11	F e b r u a r y	February 1st Week	UNIT-II	Introducing Swing-The Origin of Swing, Swing is built on AWT, Two Key Swing Features, MVC Connection,Components and Containers, Swing Packages, A Simple Swing Application.	Comparision between AWT and Swing(Live examples)	LCD presentation	
12		February 2nd Week		Event Handling, Create a Swing Applet. Exploring Swing - JLabel and ImageIcon, JTextField	Live Example Programs.	LCD presentation	Practical Example programs
13		February 3rd Week		Swing Buttons - JScrollPane, JButton, JToggleButton, JCheckBox	Example Programs.	LCD presentation	Practical Example programs
14		February 4th Week		JRadioButton, JTabbedPan, JList, JComboBox, JTable.	Example Programs.	LCD presentation	Practical Example programs
15		February 5th Week	UNIT-I& UNIT-II	Revision		LCD presentation	

Learning Outcomes:

- Develop programs using applets and event handling mechanisms in applets.
- Develop programs using swing components.
- Employability aspect: Server Side Program Developer.

BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE

Sainikpuri, Secunderabad-500094

TEACHING PLAN 2019-2020

Name of the Faculty: N.BHASKAR	Department: Computer Science	Year/Semester: III/VI	No. of Classes per Week: (2 hrs Theory / Practicals)

Learning Objective:

•Students are able to understand basics of multimedia tool objets.

•To understand the usage of scanned images, animate and implement effects to process for imteractive multimedia applications.

Program: B.SC **Subject: MULTIMEDIA WITH GIMP**

SL. NO.		MONTH & WEEK	UNITS	SYLLABUS	ADDITIONAL INPUT/VALUE ADDITION	TEACHING METHOD	STUDENT/ LEARNING ACTIVITY
1		DEC WEEK 1		Introduction to digital image Editing : Characterstics of pixel images,		LCD Projector	
2		DEC WEEK 2		Screen resolution colors, import images.		LCD Projector	Exercise on similar problemsl
3		DEC WEEK 3	I	The working environment, opening, setting and operating images.		LCD Projector	
4		DEC WEEK 4		**Selection Tools :** Polygon Lasso, scissor selection, rotating image.	Working with few websites and practice	LCD Projector	Exercise on similar problemsl
5		DEC WEEK 5		Cropping settings, resolution, blur & fiter		LCD Projector	
6				Hue and saturation.			
7		JAN WEEK 2		Dust and scratches, healing, cleaning tools. Save image in compression mode.	Image extraction and practice with topics	LCD Projector	Student exercise with implementation
8		JAN WEEK 3	II	Working with layers & colors		LCD Projector	
9				dialog layer, layers menu.			
10		JAN WEEK 5		Selecting area by color, deleting color replacing, multicolor.		LCD Projector	
11		FEB WEEK 2		Blend tool, text tool, path operations.	Image extraction and practice with topics	LCD Projector	Student exercise with implementation
12				Transformation of path			

N. Bhaskar

13		FEB WEEK 3	Creating liht effects, with brushes & filters.		LCD Projector	
14		FEB WEEK 5	Creating graphical effects using colorize functions on images.	Image extraction and practice with topics	LCD Projector	Student exercise with implementation
15		MAR WEEK 2	Practicing real world application development with few websites design.	Image extraction and practice with topics	LCD Projector	Test & assignment on Unitwise problems.

Outcomes

Can create, edit and modify simple image file with various extensions.

Can implement filter and graphical effects for selected page.

Employment opportunity:freelance image editor