

Bhavans Vivekananda College
Department of Computer Science
B.Sc 1st year /1st Sem
PROGRAMMING IN 'C' CS-125
Academic Organizer 2018-2019

Month/Unit No.	Sub Unit	Details	Periods Per Sub Unit	Total Periods
June/July Unit-I	a)	Unit-1: Introduction to Computers and C Fundamentals Introduction to Computers: Introduction, Characteristics of computers, Evolution of computers, Computer generations. Basic Computer Organization: Block diagram of computer, Input unit, Output unit, Storage unit, ALU, Control unit	2	15
	b)	CPU. Number system: Conversion from Binary to Decimal and Decimal to Binary. Computer Software: Types of Software's (Operating Systems, Utility Programs and Application Programs).	4	
	c)	Planning the computer program: Algorithms, Flow charts. Computer Languages: Machine language, Assembly language and High-level language: Compiler, Interpreter, Examples for High-level languages. Operating systems: Main functions of an Operating system, Some popular Operating Systems.	4	
	d)	C Fundamentals: Introduction, Integrated Development Environment, Basic structure of C programs, Executing a C program, Character Set, C-Tokens, Keywords & Identifiers, Constants, Variables, Data Types.	5	
July/Aug Unit- II	a)	Unit- 2: Control, Decision Making Statements and Looping statements Operators, Arithmetic Expressions, type casting, Operator precedence and Associativity, Formatted Input (scanf), Formatted Output (printf).	5	15
	b)	Decision making: The simple if statement, if..else statement, Nesting if..else statements, The else if ladder, switch statement, conditional operator (? :).	5	
	c)	Looping Statements: The while statement, do statement, for statement, Nesting of for loops, break statement, continue statement.	5	
Aug/Sept Unit- III	a)	Unit -3: Arrays, Strings and Functions Arrays: Introduction, One-Dimensional Arrays: Declaration of Arrays, Initialization of Arrays, Two-Dimensional Arrays:	5	15
	b)	Handling of Character strings: Introduction, Declaring and Initializing String variables, String Handling functions.	3	
	c)	User-Defined Functions: Introduction, 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.	7	

Sept/Oct Unit-IV	a)	Unit-4 Storage Classes, Structures, Unions, Pointers, Preprocessors Storage Classes: Storage Classes (Auto, static, register, extern). Working with Structures: Structure Definition, Structure	3	15
	b)	Nested Structures (Structures within Structures), Unions. Enumerated Data types, The typedef statement. Pointers: Understanding pointers, Accessing the address of a Variable, Declaring and Initializing pointers, Pointers Expressions,	7	
	c)	Dynamic Memory Allocation (Pointers with Memory allocation). The preprocessors: Macro Substitution (The # define statement), File Inclusion (# include - user defined header files).	5	
TOTAL NO OF PERIODS			60	60

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Bhavans Vivekananda College
Department of Computer Science
B.Sc 2nd year /3 rd Sem
Subject: Datastructures
Academic Organizer 2018-2019

Month	SUB Unit	Topic	Periods per Subunit	Total Periods
JUNE/ JULY	UNIT-I	Sorting:		15
	a)	Sequential Linear Search (straight forward method)	2	
	b)	Binary Search algorithm	3	
	c)	Bubble sort	3	
	d)	Selection Sort, Insertion Sort	3	
	e)	Quick Sort	4	
JULY/ AUG	UNIT-II	Linear Data Structures: Stacks and Queues:		15
	a)	Stacks-Basic Stack Operations	3	
	b)	Stack ADT –Array Implementation	3	
	c)	Queues-Queue Operations	2	
	d)	Queue ADT-Array Implementation	3	
	e)	Deque, Priority Queues.	4	
AUG/ SEP	UNIT-III	Linear Data Structures: General Linear List		15
	a)	Basic operations-insertion, deletion, retrieval,	3	
	b)	Implementation of General Linear List.	2	
	c)	Stack Linked List implementation,	2	
	d)	Queue Linked List Design	2	
	e)	Doubly Linked List –insertion and deletion algorithms.	4	
	f)	,Queue ADT Linked List Implementation,	2	
SEP/ OCT	UNIT-IV	Non-Linear Data Structures		15
	a)	Binary Tree Concepts, Binary Trees	2	
	b)	Binary Tree Traversals, Binary Search Trees	2	
	c)	Operations on Binary Search Trees	3	
	d)	Binary Search Tree Algorithms	2	
	e)	Graphs: Terminology, Operations	1	
	f)	Adjacency Matrix, Adjacency List	2	
g)	Depth-First Traversal, Breadth-First Traversal.	3		
TOTAL NO.OF.CLASSES				60

NAME OF THE LECTURER
K MURALI DHAR

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Bhavans Vivekananda College
Department of Computer Science
B.Sc 3rd year /5th Sem
CS525: Programming in Java
Academic Organizer 2018-2019

Unit No./ Month	Sub Unit	Details	Periods Per Sub Unit	Total Periods
June / July Unit-I	a)	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 a Java Program	3	12
	b)	– Java Virtual Machine – 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.	5	
	c)	Classes and Objects: Defining a Class – Fields Declaration – Methods Declaration – Creating Objects – Accessing class members.	4	
July/Aug Unit- II	a)	Unit-II: Class Methods, Arrays, Strings, Interfaces Class Methods: Constructors – Method Overloading – Static Members – Nesting of Methods	5	15
	b)	Inheritance - Overriding Methods – Final Variables and Methods – Final Classes – Abstract Methods and Abstract Classes	6	
	c)	Visibility Control.Arrays and Strings: One-dimensional array Two-dimensional array -String class. Interfaces (Multiple Inheritance): Defining Interfaces – Extending Interfaces – Implementing Interfaces.	4	
Aug/Sept Unit- III	a)	Unit-III: Packages and Multithreaded Programming Packages: Java API Packages – Creating user-defined Packages – Accessing a Package – Adding a Class to a Package.	4	8
	b)	Multithreaded Programming: Creating Threads – Extending the Thread Class –Life Cycle of a Thread – Thread Priority.	4	
Sept/Oct Unit-IV	a)	Unit-IV: Exceptions and Applet Programming Managing Errors and Exceptions: Types of Errors – Exceptions – Syntax of Exception Handling Code – Multiple Catch Statements – Using Finally Statement.	5	10
	b)	Applet Programming: How applets differ from applications-preparing to write applets-building applet code-applet life cycle-applet tag-adding applet to HTM file-running the applet.	5	
TOTAL NO OF PERIODS			45	45

Name of the Lecturer:M.AMITHA

R. Muralidhar

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Bhavans Vivekananda College
Department of Computer Science

B.Sc 3rd year / 5th Sem

Subject:CS525A: Software Engineering (Elective -I)

Academic Organizer 2018-2019

Month	Unit	Sub Unit	Details	Periods Per Sub Unit	Total Periods
JUNE/JULY	I & II	a)	Unit-I: Software Engineering – Introduction, Program versus Software, Software Engineering, Software Development Process and its Stages.Generic Software Development Process Models.	5	16
		b)	Requirement Engineering Processes – Requirement Engineering Process, Feasibility Study, Cost and Benefit	3	
		c)	Requirement Specification, Characteristics of a Good Requirement and Validation Techniques. Unit-II : Software Requirement Specifications – Introduction, Software Requirements Document, IEEE Standard of Software Requirement Specifications.	8	
JULY/AUG	II & III	a)	Architectural Styles – Introduction, Architecture Styles, Object Oriented Architecture, Inter- Organizational Communication, Cloud Computing Architecture Style Core, design models, Architectural design principles.	5	13
		b)	Object Oriented System Analysis – Introduction, Object Oriented Design, Object Oriented Design Models, Object Oriented Analysis, Data Modeling, Identification of Class	3	
		c)	Object Oriented Design Using UML – Introduction, Sequence Diagram, State Machine Diagram, Timing Diagram, Describing Detailed Object Oriented Design, Decision Tree and Decision Table, Composite Structure Diagram.	5	
AUGT/SEP	III & IV	a)	Software Development – Introduction, Good Coding Practices, Code Reuse, Design Pattern, and Generator Based Reuse, Application/software developed on product lines approach, and Component Based Software Engineering, Agile Methods.	6	13
		b)	Verification, Validation and Software Testing – Introduction, Software Verification and Validation Process. Software Testing, System Testing. Object Oriented Testing Strategy, Test Cases, Equivalence Partitioning (Black Box Testing).	4	
		c)	Art of Debugging, Measurement and Metrics for Assessing Software Quality – Introduction, ISO 9126 Quality Standards.	3	
OCT	IV	a)	Quality Management Models, Software Quality Control and Metrics, Defect Density Metrics.	3	3
TOTAL NO OF PERIODS				45	45

Name of the Lecturer: Mrs. DIVYA REKHA.

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BHAVAN'S VIVEKANANDA COLLEGE

Department of Computer Science

TEACHING PLAN 2018-19

Name of the Faculty:
K Muralidhar
B.Vijetha
S.Jayalaxmi

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-MPECS-B

Subject: Program in C++

S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November 4th 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 5th Week		Types of operators, Operator precedence, manipulators, typecasting, Expressions and types	Uses of scope resolution operator	Chalk and board and LCD presentation with sample programmes in Lab Class.	Conducting quiz on these concepts making students involve in concepts
3	December 1st Week		Branching statements, Looping statements, 1D, 2D arrays, String-initialization, string Manipulations		Conducting quiz on these concepts making students involve in concepts	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

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7	J a n u a r y	January 1st Week		Introduction to Classes and Objects, Specifying a class, objects	Live examples of classes and objects	Chalk and board and LCD presentation with sample programmes in Lab Class.	Seminar on classes and objects
8		January 2nd Week	3	Accessing class members, Inline functions, nesting of member functions.		chalk and board	
9		January 3rd Week		Introduction to Constructors and Destructors, Types of Constructors		chalk and board	
10		January 4th Week		Destructors, Introduction to Inheritance, Single, Multilevel		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	F e b r u a r y	February 1st Week		Overloading with Unary operator, Pointers, Virtual functions		chalk and board	
13		February 2nd Week	Templates Introduction, Function Templates		chalk and board	Group Discussion for identifying Various types of errors and rectification methods.	
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 complete 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 handling.

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

TEACHING PLAN 2018-19

Name of the Faculty: KVB Saraswathi K.Padma Priya P.Srinivasa	Department: Computer Science	Year/Semester: II/II	No. of Classes per Week: (4 hrs/Theory)4 hrs Practicals
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Learning Objective:
To impart knowledge of database concepts.
To get equipped with information about database administration.
To learn SQL(in lab).

Program: B.Sc (MPCS,MECS,MSCS)

Subject :DBMS

S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November 3th Week	1	Database Environment -Basic concepts and definitions, traditional file processing systems, database approach,		Chalk and board	
2	November 4th Week		Range of database applications, Advantages of database approach, Costs and Risks		LCD presentation with sample programmes in Lab Class.	
3	December 1st Week		Components of DatabaseEnvironment. Three schema Architecture for Database Development, Three – tiered Database Location Architecture		LCD presentation	

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4	December 2nd Week		E-R Model –Sample E-R model, E-R Notation. Entities-Strong V/S Weak Entity Types, Attributes-Simple v/s Composite Attribute, Single-Valued v/s Multivalued Attribute ,Stored v/s Derived Attribute, Relationships-		Chalk and board	
5	December 3rd Week		Degree of a Relationship. Cardinality constraints-minimum, maximum cardinality. Unit-II: Enhanced E-R model – Representing Super type, Sub type, Representing Specialization and Generalization,		Chalk and board	
6	December 4th Week	2	Specifying Completeness Constraints,SpecifyingDisjointnessConstraints, Specifying Subtype discriminators, Defining Super type /Subtype Hierarchies.		Chalk and board and LCD presentation with sample programmes in Lab Class.	Open book system
7	January 1st Week		Relational model - Definitions, Integrity constraints, Transforming EER diagrams into relations		Chalk and board	Seminars on classes and objects
8	January 2nd Week		Normalization –Basic Normal Forms (First Normal Form,Second Normal Form,Third Normal Form), Merging relations, Denormalization. Unit-III: Backing Up Databases and Concurrency Control Access:		LCD presentation with sample programmes	
9	January 3rd Week	3	Basic Recovery Facilities- Backup Facilities, Journalizing Facilities, Checkpoint Facility,Recovery Manager. Recovery and Restart Procedures-Switch, Restore/Rerun,		Chalk board	

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10	January 4th Week	4	Transaction integrity, Backward Recovery and Forward Recovery. Types of Database Failures- Aborted Transactions, Incorrect data, System Failure, Database destruction.		Chalk and board and LCD presentation with sample programmes in Lab Class.	
11	January 5th Week		The problem of Lost updates. Serializability Locking mechanism- Locking levels, Types of Locks, Deadlock, Managing Deadlock. Data Dictionaries and Repositories.		LCD presentation with sample programmes in Lab Class.	
12	February 1st Week		Unit-IV: 15 Hrs. Client/server and Middle ware - Client/server Architectures, Three-tier architecture - partitioning, Middleware, Establishing Client/Server Security, Client/Server issues.		Chalk and board	Group Discussion on virtual functions
13	February 2nd Week		Distributed Databases- Introduction, Data Replication: Snapshot replication, Near Real-time Replication, Pull replication, Database integrity with replication, when to use replication.		Chalk and board	
14	February 3rd Week		Horizontal Partitioning, Vertical Partitioning, Combination of operations. Distributed DBMS: Location Transparency, Replication Transparency, Failure transparency, Commit protocol, Concurrency transparency.		Chalk and board and LCD presentation with sample programmes in Lab Class.	Group Seminar on Templates
15	February 4th Week		Database Administration - Role of data and database Administrators: Traditional data administration, Traditional database administration, Evolving Approaches to Data and Database Administration, Evolving Approaches to Data Administration.		Chalk and board	
Learning Outcomes: <input type="checkbox"/> Acquire knowledge on database concepts. <input type="checkbox"/> Understand technical and management roles of database administration & data administrator. <input type="checkbox"/> Be able to interact with Database using SQL (Lab).						

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

TEACHING PLAN 2018-19

Name of the Faculty: PADMA PRIYA M.AMITHA S.RAMANA VAGDEVI	Department: Computer Science	Year/Semester: III/VI	No. of Classes per Week: (3 hrs/Theory)4 hrs Practicals
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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: MPCS/MECS/MSCS

Subject: Computer Networks

SNo		Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	N o v e m b e r	November 3rd Week	1	unit:1 Introduction: Data communication,components		LCD Presentation,Live Demonstration of linking devices	
2		November 4thWeek		Line configuration,Topologies,Transmission modes		Chalk and board	
3		December 1st Week		categories of networks,ISO Reference Model-		Chalk and board and LCD presentation	
4	D e c	December 2nd Week	1	Layered Architecture-OSI/ISO,functions of layers		Chalk and board and LCD presentation	

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5	e m b e r	December 3rd Week	& 2	Layered Architecture-OSI/ISO		Chalk and board	practical knowledge about media
6		December 4th Week		IP Addressing System:Class A,Class B,Class C,Class D &Class E(range and usage)		Chalk and board and LCD presentation	
7	J a n u a r y	January 1st Week	2 & 3	TCP/IP reference Model	comparision between OSI/ISO and TCP/IP	Chalk and board and LCD presentation	
8		January 2nd Week		Unit 2: Multiplexing:frequency-division multiplexing,Time-division multiplexing		Chalk and board and LCD presentation	
9		January 3rd Week		Error detection and correction:Types of errors,VRC,LRC,CRC,Checksum		Chalk and board and LCD presentation	
		January 4th Week		Transmission media:Guided Media-Twisted pair cable,coaxial cable,optical fiber,unguided Media-Satellite communication and Cellular telephony.			
10		January 5th Week		Unit 3: Data Link Control: Line Discipline-ENQ/ACK		Chalk and board and LCD presentation	
11	F e b r u a r y	February 1st Week	3 & 4	Poll/Select,Flow Control-Stop and wait,Sliding window		Chalk and board and LCD presentation	
12		February 2nd Week		Error control-Stop and Wait ARQ,Sliding Window ARQ,GO-back-n ARQ Selective-Reject ARQ.		Chalk and board and LCD presentation	
13		February 3rd Week		Local Area Networks:Introduction to IEEE 802,Ethernet-CSMA/CD,implementation,Token Ring,Token Passing,Implementation. Unit-4:Networking and Internetworking Devices:Repeaters,Bridges,Routers,Gateways,Routers,Switches.		Chalk and board and LCD presentation	

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14		February 4th Week	Unit 4: Routing Algorithms ,Distance vector Routing Algorithm,Link State Routing Algorithm.Switching: Circuit switching,packet switching,message switching.		Chalk and board and LCD presentation	
15	M a r c h	March 1st Week	Revision		Chalk and board and LCD presentation	
<p>Learning Outcomes:</p> <ul style="list-style-type: none"> • Students would have learnt fundamental concepts and terminologies in networking, seven layers of OSI model and digital transmission. • Students would have learnt different interfaces along 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 implemented at local area networks and get familiarized with flow control and error control mechanisms at data link layer. •Students would have learnt Routing Algorithms. 						

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BHAVAN'S VIVEKANANDA COLLEGE

TEACHING PLAN 2018-19

Name of the Faculty: K.SRINIVAS RAO D.Rama Krishna S.JAYALAXMI VAGDEVI	Department: Computer Science	Year/Semester: III/II (VI SEM)	No. of Classes per Week: (4 hrs/Theory)4 hrs Practicals
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Learning Objective:

Learn to design static web pages, To Learn CSS, Learn about web browser, web servers and case study.

Programme:B.Sc -MSCS,MECS,MPCS

Subject:Web Technologies

S.No		Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	N o v e m b	November 4 th Week	1	UNIT-I: HTML: Introduction , Structure of HTML page, Formatting Tags	networking, internet, web, protocols	black board & Lab work	Quiz
2		November 5th Week		Physical and Logical Tags, Font Tags, Heading Tags, Presenting and Arranging text tags, Images	formatting overall web content	black board & Lab work	
3	December 1st Week	Hyperlinks, Lists		linking of web pages	Lab work		
4	D e c	December 2nd Week		Tables Unit-ii: More Html & CSS: Frames	1.images, hyperlinks in tables 2.Nested frames	black board & Lab work	
5		December 3rd Week		Multimedia Tags (Object, Embed)	sound, audio and video	Chalk and board	

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6	e m b e r	December 4th Week	2	Forms	form controls	Chalk and board and LCD presentation with sample programme s in Lab Class.	
7	J a n u a r y	January 1st Week	3	CSS: introduction and types of style sheets		Chalk and board	
8		January 2nd Week		Properties and Values of css (font, background, colors, text & boxes)		Chalk and board	
9		January 3rd Week		Unit-III: JAVASCRIPT: Basics, variables, dialog boxes	data types, printing statements in java script	Chalk and board	
10		January 4th Week		String functoions, Mathematical functions		Chalk and board	
11		January 5th Week		statements	looping statements, conditional statements,	Chalk and board	
12	F e b r u a r y	February 1st Week	4	operators, Built in Array functions	arithmetic, assignment, logical, creation of arrays, adding array elemets	Chalk and board	
13		February 2nd Week		Unit-Iv: Built in Objects: document, window, browser		Chalk and board	
14		February 3rd Week		Events	Event Handling, compare Static html & DHTML	black board & Lab work	
15		February 4th Week		usefull software: web browsers, web servers,the plan , the data, case study about	types of browsers , server types	Chalk and board	Group discussion

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 handling.

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BHAVAN'S VIVEKANANDA COLLEGE

TEACHING PLAN 2019-20

Name of the Faculty: B.Divya Rekha	Department: Computer Science	Year/Semester: IIIYr/ VI	No. of Classes per Week: (3 hrs/Theory) 2 hrs Practicals
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Learning Objective:
 To learn different cycles of testing and to analyze the bugs
 To learn how to build software testing methodology and establish.
 To learn different phases of testing
 To learn the configuration of software management

Program:BCA Subject :Software Testing 3rd year 6th sem

S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity
1	November 3rd Week	U n i t	Example test series - first cycle, second cycle, subsequent cycles		Individual student activities based on concept	
2			November 4th Week	Objectives and limits of testing Testing in software development process ,black box testing reporting and analyzing bugs.	Case studies	Conducting seminars on topics
3	December 1st Week	1	problem reports contents and characteristics ,analysis of reproducible bug,tactics for analyzing a reproducible bug,making a bug reproducible	Case studies	Chalk and Board/ LCD Presentations	Case studies given basing on concept
4		U n i t	December 2nd Week	Problem tracking systems - objectives, tasks, overview		Individual student activities based on concept
5			December 3rd Week	users, mechanics, further thoughts on problem reporting	Case studies	LCD Presentations



6		December 4th Week	1	visible state transitions, race conditions, load testing, error guessing					
7	January	January 1st Week	2	function equivalence testing, regression testing, executing the tests.	Case studies	Chalk and Board/ LCD Presentations	Individual Activity on examples		
8		January 2nd Week	Unit	Building a software testing strategy , determining software testing techniques	Case studies	Chalk and Board/ LCD Presentations			
9		January 3rd Week		Determining software testing techniques ,eleven steps of software testing process			Individual Activity on examples		
10		January 4th Week		3	Overview, Assess project management ,develop test plan,requirement phase testing	Case studies	Chalk and Board/ LCD Presentations	Individual Activity on examples	
11		January 5th Week		Design phase testing, program phase testing,test execution,acceptance testing		Chalk and Board/ LCD Presentations			
12	February	February 1st Week	Unit	Test software changes Software maintenance definition,maintenance characteristics	Case studies		Individual Activity on examples		
13		February 2nd Week		maintainability, maintenance tasks, sideeffects, reverse engineering, reengineering	Case studies	Chalk and Board/ LCD Presentations	Conducting seminars on topics		
14		February 3rd Week		4	Software configuration management ,configuration items.		Chalk and Board/ LCD Presentations	Conducting seminars	
15		February 4th Week			Software configuration management process,version control,change control, configuration audit, status reporting.	Case studies	Chalk and Board/ LCD Presentations	Conducting seminars	

Learning Outcomes:

1. Be able to learn different cycles of testing and to analyze the bugs.
2. Be able to learn different cycles of testing and to analyze the bugs.
3. Be able to do different phases of testing
4. Be able to implement configuration of software management

BHAVAN'S VIVEKANANDA COLLEGE

Sainikpuri, Secunderabad - 500094

Dept. of Computer Science

TEACHING PLAN 2018-19

Name of the Faculty: D Ramakrishna	Department: Computer Science	Subject: .NET Year/Semester: III / VI B.Sc (SEC) M.S.Cs-A, M.S.Cs-B, M.P.Cs-A VI (EVEN SEMESTER)	No. of Classes per Week: (2 hrs Theory / Practicals)
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Learning Objective:
To understand dot net platform, develop and implement of Console applications.
To develop windows form, connecting forms to database and develop few modules.

S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/Learning activity	Review	Sign
1	December 2 nd Week	1	.NET framework overview: Introduction to .NET, Framework of .NET, BCL		Chalk and board and LCD presentation			
2	December-3 rd Week		CLR, Design Goals of CLR, CTS, MSIL	ASP.NET, ADO.NET	Chalk and board and LCD presentation	Group discussion on CLR		
3	December-4 th Week		.NET framework: Advantages and Disadvantages of .NET, Features of .NET, Assemblies in .NET		Chalk and board and LCD presentation			
4	January 1 st Week		Platform for .NET, GAC, Language Interoperable, Reflection		Chalk and board and LCD presentation			
5	January 2 nd Week		Programming Using C#: Overview of C# .NET, Features of C# .NET, Program Design	Visual Studio IDE	Chalk and board and LCD presentation	Seminar on C#.NET		
6	January 3 rd Week		Start of Application, Variables and Types, Value Types and Reference Types		Chalk and board and LCD presentation			
7	January 4 th Week		Control Statements, Strings and Arrays	String Compare, String Length	Chalk and board and LCD presentation	Assignment on Arrays Topic		
8	January 5 th Week	2	Console Class: String Formatting types		Chalk and board and LCD presentation			
9	February 1 st week		Programming Structure of Console Class	Write(), WriteLine(), ReadLine() and ReadKey()	Chalk and board and LCD presentation	Assignment on Console Class		

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S.No	Month & Week	Units	Syllabus	Additional Input/Value Addition	Teaching Method	Student/ Learning activity	Review	Sign
10	February 2 nd week	2	Windows Project Application: Controls		Chalk and board and LCD presentation			
11	February 3 rd week		Windows Project Application: Coding		Chalk and board and LCD presentation			
12	February 4 th week		Using ADO.NET for Data Retrieval with Windows Forms	Types of Database Types	Chalk and board and LCD presentation	Group discussion on Database Types		
13	March 1 st week		Using ADO.NET for Data Retrieval with Windows Forms		Chalk and board and LCD presentation			

Outcomes:

Students are capable to understand .NET platform, application development basics

Capable to develop Windows form based applications with backend connectivity

D. Banalika