

A.V.E.Society's
DEGLOOR COLLEGE, DEGLOOR

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mrs. Sapna Bunnawar		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- I		
Paper Name & NO. :- Problem Solving Using Computers Paper No: I				
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Computer Fundamentals Introduction to Computers, Block diagram of Computer, Characteristics of Computers, I/O Devices, I/O ports.	6	2-Jul-18	12-Jul-18
II	Problem Solving Aspects Introduction to Algorithm, Top Down Designing, Implementation of Algorithm, Analysis of Algorithm, Flowchart, Principals of Flowcharts, Flowcharts Symbols	8	13-Jul-18	25-Jul-18
III	Fundamentals of Algorithms Exchanging value of variables, counting numbers, Summation of set of numbers, Factorial computations, Fibonacci number, Reverse of Digits.	6	26-Jul-18	10-Aug-18
IV	Factoring Methods Finding square root of numbers, smallest divisor of integers, greatest common divisor, generation of prime numbers, prime factor.	6	11-Aug-18	24-Aug-18
V	Array Techniques Introduction to Array, types of Array, Memory Representation of Array, Reverse of Array, Array counting, Finding maximum and minimum element from Array	6	25-Aug-18	10-Sep-18
VI	Searching & Sorting Techniques Searching Techniques, linear search, binary search, Sorting Techniques:-bubble sort, selection sort.	6	11-Sep-18	5-Oct-18

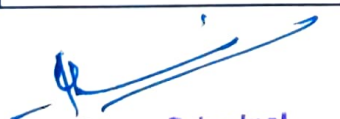

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Annual Teaching Plan


Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mr. Hangarge D.		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- I		
Paper Name & NO. :- Web Page Designing Through HTML		Paper No: II		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Introduction to Web and Website Introduction to Internet, Application and importance of Internet, www, URL, Web Browsers, web server, objectives of website, basic interface design, developing a story board for website, Navigation and links within website, checklist for designing.	6	2-Jul-18	12-Jul-18
II	Introduction to HTML Introduction to HTML, Basic elements, List- ordered/ Numbered list, Unordered/ Bulleted list, Definition list, Nesting list, Linking HTML pages, linking to URL, Text Formatting, Text Alignment, Character Styles, Fonts and Font Sizes, Using colors for the Web, preformatted text, Horizontal line, line break, Displaying special characters.	6	13-Jul-18	25-Jul-18
III	Images in HTML Images in HTML pages, Embedding inline images and external images, images and text alignment, images and links, alternative tags for images, using image as background, displaying images with heights and width dimensions, images preview, image for the web, reducing file size of image file, decreasing the file size by reducing the colour depth of image file	6	26-Jul-18	10-Aug-18
IV	Tables in HTML Introduction to tables, Features of tables, Tables in HTML, components of table, creating table, table cell and border, table and cell color	6	11-Aug-18	24-Aug-18
V	Frames, Image Maps Introduction to Frames, Creating frames, Frames attributes and linking of frames, complex framesets, Inline frames.	6	25-Aug-18	10-Sep-18
VI	Forms and CGI Scripts Introduction to forms, form design, text input fields, radio buttons, check box buttons, and submit button, additional layout features (select tag, Text AREA tag, and Hidden fields)	6	11-Sep-18	5-Oct-18


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Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mr. Hangarge D.		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- II		
Paper Name & NO. :- Programming in C		Paper No: III		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Introduction to C Introduction, Character set, C tokens, Data types, Constant, Variables, declaration of storage class, Input/Output Statement, operators, Hierarchy of Operation, Structure of C program.	5	3-Dec-18	12-Dec-18
II	The Decision and Looping, Control Structure If Statement, If-Else statement, Nesting of If-Else, else-if ladder, Switch Statement, Goto. While loop, Do-While loop, For loop.	8	13-Dec-18	22-Dec-18
III	Arrays and Pointers Introduction to Array, One-dimensional arrays: Declaration & Initialization, Two-dimensional arrays: Declaration & Initialization, Multi-dimensional arrays Introduction, understanding pointers, accessing address of variable, declaring pointer variables, initialization of pointer variable	5	23-Dec-18	2-Jan-19
IV	Storage Classes Automatic, Register, Static, Scope rules.	2	3-Jan-19	14-Jan-19
V	Functions Introduction, Definition of function, return values and their types, function calls, function declaration, recursion, passing arrays to functions, What are string, Standard Library string functions: strlen(), strcpy(), strcmp(), strcat().	7	15-Jan-19	27-Jan-19
VI	Structure and Union Introduction, defining a structure, defining a structure variable, accessing structure members, initialization of structure, structure within structure, union, Introduction to File Handling.	9	28-Jan-19	10-Feb-19


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DEGLOOR COLLEGE, DEGLOOR**Annual Teaching Plan**

Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mrs. Sapna Bunnawar		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- II		
Paper Name & NO. :- Analysis of Algorithm and Data Structure		Paper No: IV		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Role of Algorithms in Computing Introduction, Algorithms as a technology, designing Algorithm, divide and conquer technique/ Approach	8	3-Dec-18	12-Dec-18
II	Introduction to Data Structure Introduction, Elementry data organization, data structure operations, mathematical notations and functions, Algorithmic notations, control structure.	8	13-Dec-18	22-Dec-18
III	Linked List Introduction, Representation of linked list in memory, Traversing, Searching, Unsorted link list, Inserting after given node, deleting node with a given item of information.	8	23-Dec-18	2-Jan-19
IV	Stack and Queue Introduction, Memory representation of Stack, Insert element in Stack_PUSH, Delete element from Stack_POP. Queue: Introduction, Memory Representation, Insert & Delete operation.	8	3-Jan-19	14-Jan-19
V	Trees Introduction, Binary tree & it's Memory representation, Insertion & Deletion of nodes in binary tree, Threaded binary tree.	8	15-Jan-19	27-Jan-19
VI	Graphs Introduction, Memory Representation of graphs, types of graphs, Warshall's Algorithm.	8	28-Jan-19	10-Feb-19

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Vice - Principal

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DEGLOOR COLLEGE, DEGLOOR**Annual Teaching Plan**

Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- III		
Paper Name & NO. :- Operating System		Paper No: VI		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Overview of Operating System - Introduction, What Operating Systems Do, Computer-System Organization, Computer- System Architecture, Special-Purpose Systems, Operating-System Structure, Operating- System Operations, Process Management, Memory Management, Storage Management, Protection and Security, Distributed Systems, Special-Purpose Systems, Computing Environments	8	2-Jul-18	12-Jul-18
II	Exploring Operating System - Operating-System Services, User Operating-System Interface, System Calls, Types of System Calls, System Programs, Operating-System Design and Implementation, Operating-System Structure, Virtual Machines, Operating-System Generation, System Boot	8	13-Jul-18	25-Jul-18
III	Process & Threads - Process Concept, Process Scheduling, Operations on Processes, Inter-process Communication, Examples of IPC Systems, Communication in Client- Server Systems, Overview of threads, Multithreading Models	8	26-Jul-18	10-Aug-18
IV	Memory - Background, Swapping, Contiguous Memory Allocation, Paging, Structure of the Page Table, Segmentation, virtual memory	8	11-Aug-18	24-Aug-18
V	File System - File Concept, Access Methods, Directory Structure, File-System Mounting, File Sharing, Protection, File-System Structure	8	25-Aug-18	10-Sep-18
VI	Protection in Operating System - Goals of Protection, Principles of Protection, Domain of Protection, Access Matrix, Implementation of Access Control, Revocation of Access Rights, Capability-Based Systems, Language-Based Protection	8	11-Sep-18	5-Oct-18

M. K. K.
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Y. G. Jadlawar
Head of the Department

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Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Mrs. Sapna Bunnawar		Year :- 2018-19		
Subject :- Computer Science		Semester :- III		
Paper Name & NO. :- Programming in C++		Paper No: VII		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Object Oriented Programming & C++ - Object Oriented Programming Paradigm, Basic Concepts of OOP, Benefits of OOP, Object Oriented Languages, Applications of OOP, A Simple C++ Program, More C++ Statements, Structure of C++ program.	10	2-Jul-18	12-Jul-18
II	Basics of C++ Introduction, Tokens, Keywords, Identifiers & Constants, Basic Data Types, User-defined Data Types, Derived Data Types, Variables : declaration & dynamic initialization, Reference variables, Operators in C++ : Scope Resolution, Manipulators, Operator Precedence, . Decision Control & Loop Control Structures: If, If-else, Nested If, Else-if ladder, switch, goto, break statement, while, do-while, for.	12	13-Jul-18	25-Jul-18
III	Functions in C++ Introduction, Function Prototyping, Call by Value & Call by reference, inline function, default arguments, Function Overloading, Library Functions	10	26-Jul-18	10-Aug-18
IV	Classes & Constructors in C++ Introduction, Structures, Specifying a Class, Defining member functions, Memory allocation for objects, Static Data Members, Static Member Functions, Objects as Function arguments, Friend Functions. Introduction to Constructors, Parameterized Constructors, Copy Constructors, Multiple Constructors in a class, destructors.	10	11-Aug-18	24-Aug-18
V	Operator Overloading Introduction, Defining Operator overloading, Overloading Unary Operators, Overloading binary operators, overloading binary operator using friend, Rules for overloading operators	10	25-Aug-18	10-Sep-18
VI	Inheritance in C++ Introduction, defining derived classes, single inheritance, multilevel inheritance, multiple inheritance, hierarchical inheritance, hybrid inheritance, virtual base classes, Abstract classes.	10	11-Sep-18	5-Oct-18

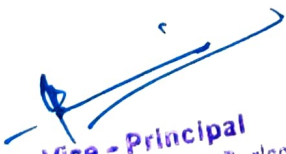
M. Bunnawar
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Sapna Bunnawar
Head of the Department

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Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- IV		
Paper Name & NO. :- Computer Network		Paper No: VIII		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Introduction to Network Definition & Applications of Computer Network, Data Transmission Modes, Protocol Hierarchies, Design issues for layers, Connection Oriented & Connectionless services. Service Primitives. Network Models – OSI/ISO Reference Model & TCP/IP Model,	10	3-Dec-18	12-Dec-18
II	Network Hardware Network Topologies, Network Devices - NIC Cards, Hub, Switch, Bridges, Wireless access points, Router, Gateways, Modems, ISDN Terminal Adaptor, Repeaters, Types of Networks	10	13-Dec-18	22-Dec-18
III	Transmission Media Magnetic Media, Twisted pair, Co-axial cable , fibre optics , radio transmission, Wireless transmission, Bluetooth.	10	23-Dec-18	2-Jan-19
IV	Telephone System Structure of telephone system, Transmission & Switching, Trunks & Multiplexing ,Type of Switching, Introduction to mobile telephone system.	10	3-Jan-19	14-Jan-19
V	Internetworking protocols Network Protocols, Email Architecture, Web server, Browsers, Domain Name System, IP protocol, IP addresses , IPv6. Introduction to Wi-Fi & 4G technology.	10	15-Jan-19	27-Jan-19
VI	Network Security & Cryptography Introduction to Security & Cryptography, Security concepts- Computer Security, Network Security, Information Security, Firewall, Working of Firewalls, Conventional Cryptography, Caesar's Cipher, public key Cryptography.	10	28-Jan-19	10-Feb-19



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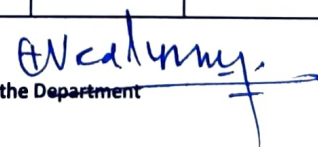

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Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Mrs. Sapna Bunnawar		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- IV		
Paper Name & NO. :- Programming in JAVA		Paper No: IX		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Java Evolution. Java History, Java Features, How java differs From C and C++, Java and Internet. Java & WWW, Web Browsers, Java support systems, Java Environment	10	3-Dec-18	12-Dec-18
II	Overview of Java Introduction, simple java program, More JAVA Statements, An application with two classes, Java program structure, implementation of a java program, JAVA Virtual Machine, Command Line Arguments Java Tokens , Constants, Variables, Data Types, Declaration of variable, Giving Values to variables, Scope of Variables, Symbolic Constants, Type Casting, Getting Values of variables, Standard Default values, Java Statements	12	13-Dec-18	22-Dec-18
III	Classes, Object and Methods Introduction, Defining a class, Adding variables, Adding Methods, Creating Objects, Accessing Class Members, Constructors. Method Overloading, Static Members, Nesting of Method, Inheritance: Extending a class, Overriding Method, Final variable and Methods.	10	23-Dec-18	2-Jan-19
IV	Interfaces - Multiple Inheritances Introduction, Defining Interface, Extending Interface, Implementing Interface, Accessing Interface Variables	10	3-Jan-19	14-Jan-19
V	Arrays and Strings Introduction, One-dimensional Arrays, Creating an one dimensional array, Two dimensional Arrays, Creating an two dimensional array, String Arrays, String Method	10	15-Jan-19	27-Jan-19
VI	Packages and Applets Introduction, Java API package, Using system packages, Naming Conventions, Creating Packages, Accessing a package, Using a Package, Adding a class to a package. Introduction, how applets differ from applications, preparing to write applets, building applet code, applet life cycle	10	28-Jan-19	10-Feb-19


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Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mr. Jadlawar Y. G.		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- V		
Paper Name & NO. :- Software Engineering		Paper No: XII		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	The Nature of Software & Software Engineering - The Nature of Software, The Changing Nature of Software, Defining the Discipline, Software engineering process, Software engineering practice, Software Myths	10	2-Jul-18	18-Jul-18
II	Software Process Structure & Models - A Generic process model, defining a framework activity, Process patterns, Process assessment & improvement, Prescriptive process models, Personal & team process models	10	19-Jul-18	4-Aug-18
III	Agility development & Human Aspects - Introduction to Agility, Agility & Cost of Change, Agility principles, Extreme programming, Characteristics of Software engineer, Psychology of Software engineering, Software team structures.	10	5-Aug-18	20-Aug-18
IV	Understanding Requirements & Design Concepts - Requirement Engineering ,Building the analysis model, Requirement Analysis, Design within the context of software engineering, The design process, Design model, Software Architecture, Element of quality assurance, Software testing fundamentals	10	21-Aug-18	15-Sep-18



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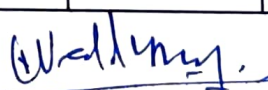

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Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mrs. Vaishali Wangikar		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- V		
Paper Name & NO. :- Visual Programming		Paper No: XIII (A)		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Getting Started with VB - The IDE, The Elements of user interface, Designing user interface, Programming an Application Visual Development and Event Driven Programming.	10	2-Jul-18	18-Jul-18
II	Visual Basic The language Variable, Constants, operators, data types, arrays, collections, Procedures, control flow & loop statements.	10	19-Jul-18	4-Aug-18
III	Working with forms Form types, Appearance of forms, Form properties, Designing menu structure, Building dynamic forms at run time, Introduction to MDI forms.	10	5-Aug-18	20-Aug-18
IV	Basic Active X controls Command button, control-properties, Text Box control- properties, List Box & Combo Box control - properties, combo Box control-properties, Scroll Bar control-properties, Slider controlproperties, Understanding Visual data manager.	10	21-Aug-18	15-Sep-18



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Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mrs. Vaishali Wangikar		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- VI		
Paper Name & NO. :-Relational Database Management Systems & PL/SQL Paper No: XIV				
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Introduction Introduction to DBMS, Applications of DBMS, Data Models, Database Architecture, Database Users & Administrators, Entity, Attributes & Entity Set, Database Languages, DDL,DML,DCL.	10	3-Dec-18	18-Dec-18
II	Relational Algebra and Calculus: Introduction to Selection, Projection, Union, and Joins, introduction to SQL, Basic SQL Query and Examples of SQL Queries: select, where, from, Introduction to views, Aggregate Operators Group by & Order by Clause.	10	19-Dec-18	4-Jan-19
III	Integrity Constraints Introduction, Domain Constraint, Primary Key, Unique Key, Foreign Key	10	5-Jan-19	20-Jan-19
IV	Introduction to PL/SQL Introduction, Architecture of PL/SQL, Data types, operators, Decision making and looping statements, Simple PL/SQL programs, Introduction to Triggers.	10	21-Jan-19	5-Feb-19



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Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2018 - 19		
Subject :- Computer Science		Semester :- VI		
Paper Name & NO. :-E-Commerce		Paper No: XV (B)		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Electronic Commerce Introduction, E-Commerce types, Value Added Networks, Electronic commerce over the Internet.	10	3-Dec-18	18-Dec-18
II	Intranet Introduction to Intranet, Intranet services, Intranet Implementation.	10	19-Dec-18	4-Jan-19
III	Internet Internet-Introduction, Internet Engineering Task Force, Internet Architecture Board, Internet Communication Protocols, Internet Search Tools: Telnet, FTP, World Wide Web. Gopher, HTTP, Concerns about Internet.	10	5-Jan-19	20-Jan-19
IV	Electronic Data Interchange EDI introduction, Cost & Benefits of EDI, Components of EDI Systems: EDI Standards, EDI Software's, EDI Communication Networks, EAN system, EAN/COM, Article numbering system, Bar-coding, Serial Shipping Container Code & EAN label.	10	21-Jan-19	5-Feb-19


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