

A.V.E.Society's
DEGLOOR COLLEGE, DEGLOOR
Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2019 - 20		
Subject :- Computer Science		Semester :- I		
Paper Name & NO. :- Programming Logic Concepts		Paper No: I		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Introduction, Generation of Computer, Classification of Computers, Hardware, Software, Applications of Computers, Computer Architecture: Central Processing Unit: Arithmetic Unit, Logic Unit, Control Unit, Main Memory Unit, Types of Memory, Input & Output Devices:	15	1-Jul-19	25-Jul-19
II	Introduction to Number systems, the problem solving aspects, top-down design, introduction to Algorithms, implementation of algorithms, the efficiency of algorithms, the analysis of algorithms, Flowchart and it's symbols.	10	26-Jul-19	12-Aug-19
III	Exchanging the value of two variables, Counting, Summation of set of numbers, Factorial computation, Generation of the Fibonacci sequence, reverses the Digits of an Integer.	10	13-Aug-19	27-Aug-19
IV	The Smallest divisors of an integer, Generating prime numbers, Definition and Memory Representation of Array, Array order reversal, Array Counting , Finding the Maximum number in a set, sorting by exchange, Binary Search.	10	28-Aug-19	12-Sep-19


PRINCIPAL

A.V. EDUCATION SOCIETY'S
 DEGLOOR COLLEGE, DEGLOOR


Head of the Department

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

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Ms. Morlewar M.		Year :- 2019-20		
Subject :- Computer Science		Semester :- I		
Paper Name & NO. :- Designing of Web Pages Using HTML		Paper No: II		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Internet, The Important of the Internet, World Wide Web, URLs, Web Brewers, Web Server, Internet Services, The web flow, objectives of the website, basic interface design, developing a store board for the website, navigation and links within the site, checklist for designing.	10	1-Jul-19	25-Jul-19
II	HTML, Basic elements, Lists, Linking HTML pages, Linking to URLs, Text formatting, Text Alignment, Character Styles, Fonts and Font Sizes, Using Colors for the Web, Preformatted text, Horizontal lines, Line break, displaying special characters.	10	26-Jul-19	12-Aug-19
III	Images in HTML Pages, Tables in HTML, Frames, Creating Frames, frame attribute linking, complex framesets, Inline frames, Image maps	10	13-Aug-19	27-Aug-19
IV	Form designing, Additional Layout features, Intro to CGI Scripting, Active Server Pages, Introduction to Embedding Multimedia and Java Applets, Inserting sound/Audio into Web Pages, Video file formats, Creating Marquee. Into. to JavaScript and Dynamic HTML, Structure of JavaScript.	15	28-Aug-19	12-Sep-19


PRINCIPAL

A.V. EDUCATION SOCIETY'S
DEGLOOR COLLEGE, DEGLOOR


Head of the Department


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

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mr. Jadlawar Y. G.		Year :- 2019 - 20		
Subject :- Computer Science		Semester :- II		
Paper Name & NO. :- Introduction to Data Structure		Paper No: III		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Definition of Data Structure, Elementary data organization, data structure operations, Algorithmic notations, Control structure.	10	2-Dec-19	19-Dec-19
II	Introduction to Linked list, Representation of linked list in memory, Traversing, Searching in Unsorted linked list, Overflow and Underflow, Inserting at the beginning of a list, deleting node following a given Node.	10	20-Dec-19	4-Jan-20
III	Stack: Introduction, Memory representation of Stack, Insert element in Stack i.e. PUSH operation, Delete element from Stack i.e. POP operation. Queue: Introduction, Memory Representation, Insert & Delete operation in Queue.	10	5-Jan-20	20-Jan-20
IV	Tree: Introduction, Definition of a Binary tree & its Memory representation, Traversing a Binary Tree, PREORDER, INORDER, POSTORDER Traversal, Threaded binary tree. Graph: Introduction, Memory Representation of graphs,	15	21-Jan-20	5-Feb-20


PRINCIPAL

A.V. EDUCATION SOCIETY'S
DEGLOOR COLLEGE, DEGLOOR


Head of the Department

A.V.E.Society's
DEGLOOR COLLEGE, DEGLOOR
Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Ms. Morlewar M.		Year :- 2019 - 20		
Subject :- Computer Science		Semester :- II		
Paper Name & NO. :- Programming in C Language		Paper No: IV		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Introduction to C, Character set, C tokens, Constant and Variables, Data types, declaration of variables, assigning values to variables, Input /Output Statement, all Operators and Structure of C program.	12	2-Dec-19	19-Dec-19
II	If Statement, If-Else statement, Nesting of If-Else statement, switch Statement, goto, Looping statements, while loop, do-While, for loop, nested loop.	10	20-Dec-19	4-Jan-20
III	Introduction to Array, types of array declaration and initialization, introduction to function, recursion, standard library string handling functions: strlen(), strcpy(), strcmp(), strcat(), Storage Classes: auto, static, register, externs	10	5-Jan-20	20-Jan-20
IV	Introduction to Function, Introduction to Structure and Union, Defining Structure and Accessing Structure members, Introduction to Concept of File Handling.	13	21-Jan-20	5-Feb-20

CTU
PRINCIPAL

A.V. EDUCATION SOCIETY'S
 DEGLOOR COLLEGE, DEGLOOR

[Signature]
 Head of the Department

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

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Ms. Morlewar M.		Year :- 2019 - 20		
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	1-Jul-19	12-Jul-19
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-19	25-Jul-19
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-19	10-Aug-19
IV	Memory - Background, Swapping, Contiguous Memory Allocation, Paging, Structure of the Page Table, Segmentation, virtual memory	8	11-Aug-19	24-Aug-19
V	File System - File Concept, Access Methods, Directory Structure, File-System Mounting, File Sharing, Protection, File-System Structure	8	25-Aug-19	10-Sep-19
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-19	20-Sep-19


PRINCIPAL

A.V. EDUCATION SOCIETY'S
DEGLOOR COLLEGE, DEGLOOR


Head of the Department


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

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Ms. Morlewar M.		Year :- 2019 - 20		
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	1-Jul-19	12-Jul-19
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-19	25-Jul-19
III	Functions in C++ Introduction, Function Prototyping, Call by Value & Call by reference, inline function, default arguments, Function Overloading, Library Functions	10	26-Jul-19	10-Aug-19
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-19	24-Aug-19
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-19	10-Sep-19
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-19	20-Sep-19


PRINCIPAL

A.V. EDUCATION SOCIETY'S
DEGLOOR COLLEGE, DEGLOOR


Head of the Department

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

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Ms. Morlewar M.		Year :- 2019 - 20		
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	2-Dec-19	12-Dec-19
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-19	22-Dec-19
III	Transmission Media Magnetic Media, Twisted pair, Co-axial cable , fibre optics , radio transmission, Wireless transmission, Bluetooth.	10	23-Dec-19	2-Jan-20
IV	Telephone System Structure of telephone system, Transmission & Switching, Trunks & Multiplexing ,Type of Switching, Introduction to mobile telephone system.	10	3-Jan-20	14-Jan-20
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-20	27-Jan-20
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-20	10-Feb-20


PRINCIPAL

A.V. EDUCATION SOCIETY'S
DEGLOOR COLLEGE, DEGLOOR


Head of the Department

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

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Ms. Morlewar M.		Year :- 2019-20		
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	2-Dec-19	12-Dec-19
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-19	22-Dec-19
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-19	2-Jan-20
IV	Interfaces - Multiple Inheritances Introduction, Defining Interface, Extending Interface, Implementing Interface, Accessing Interface Variables	10	3-Jan-20	14-Jan-20
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-20	27-Jan-20
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-20	10-Feb-20


PRINCIPAL

A.V. EDUCATION SOCIETY'S
DEGLOOR COLLEGE, DEGLOOR


Head of the Department

DEGLOOR COLLEGE, DEGLOOR**Annual Teaching Plan**

Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2019 - 20		
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	1-Jul-19	25-Jul-19
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	26-Jul-19	12-Aug-19
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	13-Aug-19	27-Aug-19
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	28-Aug-19	12-Sep-19



PRINCIPAL

A.V. EDUCATION SOCIETY'S
DEGLOOR COLLEGE, DEGLOOR

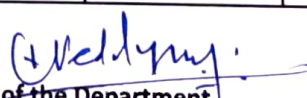

Head of the Department

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

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2019-20		
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	1-Jul-19	25-Jul-19
II	Visual Basic The language Variable, Constants, operators, data types, arrays, collections, Procedures, control flow & loop statements.	10	26-Jul-19	12-Aug-19
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	13-Aug-19	27-Aug-19
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	28-Aug-19	12-Sep-19


PRINCIPAL
 A.V. EDUCATION SOCIETY'S
 DEGLOOR COLLEGE, DEGLOOR



Head of the Department

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

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2019-20		
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	2-Dec-19	19-Dec-19
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	20-Dec-19	4-Jan-20
III	Integrity Constraints Introduction, Domain Constraint, Primary Key, Unique Key, Foreign Key	10	5-Jan-20	20-Jan-20
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-20	5-Feb-20


PRINCIPAL
 A.V. EDUCATION SOCIETY'S
 DEGLOOR COLLEGE, DEGLOOR



Head of the Department

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

Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2019-20		
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	2-Dec-19	19-Dec-19
II	Intranet Introduction to Intranet, Intranet services, Intranet Implementation.	10	20-Dec-19	4-Jan-20
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-20	20-Jan-20
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-20	5-Feb-20


 PRINCIPAL
 A.V. EDUCATION SOCIETY'S
 DEGLOOR COLLEGE, DEGLOOR


 Head of the Department