




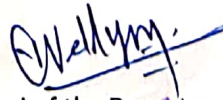
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# DEGLOOR COLLEGE, DEGLOOR

## Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- I		
Paper Name :- 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	30-Jul-22	20-Aug-22
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	21-Aug-22	10-Sep-22
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	11-Sep-22	30-Sep-22
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	1-Oct-22	15-Oct-22

  
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Head of the Department  
**Comp.Sci Department**  
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**Annual Teaching Plan**

Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mr. R. G. Suryashekhar		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- I		
Paper Name :- 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	30-Jul-22	15-Aug-22
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	16-Aug-22	4-Sep-22
III	Images in HTML Pages, Tables in HTML, Frames, Creating Frames, frame attribute linking, complex framesets, Inline frames, Image maps	10	5-Sep-22	21-Sep-22
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. Intro. to JavaScript and Dynamic HTML, Structure of JavaScript.	15	22-Sep-22	15-Oct-22

  
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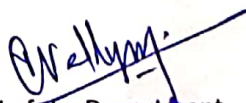
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Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- II		
Paper Name:- Introduction to Data Structure		Paper No: III		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Definition of Data Structure, Elementary data organization, data structure operations, Algorithmic notations, Control structure.	10	2-Jan-23	20-Jan-23
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	21-Jan-23	7-Feb-23
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	8-Feb-23	22-Feb-23
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	23-Feb-23	10-Mar-23

  
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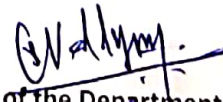


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Department :- Computer Science		Class :- B. Sc. First Year		
Name of Teacher :- Mr. R. G. Suryashekhar		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- II		
Paper Name :- Programming in C Language		Paper No: IV		
Chapter No.	Topic - Title	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-Jan-23	20-Jan-23
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	21-Jan-23	7-Feb-23
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	8-Feb-23	22-Feb-23
IV	Introduction to Function, Introduction to Structure and Union, Defining Structure and Accessing Structure members, Introduction to Concept of File Handling.	13	23-Feb-23	10-Mar-23

  
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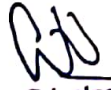
  
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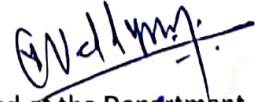


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**Annual Teaching Plan**

Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Mr. Jadlawar Y.G./Smita Sagar		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- III		
Paper Name :- Operating System		Paper No: VI		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Introduction to Operating System, Computer-System Architecture, Operating-System Structure, Operating System Operations, Process Management, Memory Management, Storage Management, Protection and Security, Distributed Systems.	15	30-Jul-22	25-Aug-22
II	Operating-System Services, User Operating-System Interface, System Calls, Types of System Calls, System Programs, Virtual Machines, Operating-System Generation, System Boot	10	26-Aug-22	9-Sep-22
III	Process Concept, Process Scheduling, Operations on Processes, Inter-process Communication, Examples of IPC Systems, Communication in Client- Server Systems, Overview of threads, Multithreading Models	10	10-Sep-22	28-Sep-22
IV	Memory Swapping, Contiguous Memory Allocation, Paging, Structure of the Page Table, Segmentation, virtual memory, File Concept, File-System Mounting, File-System Structure	10	29-Sep-22	15-Oct-22

  
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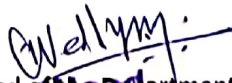


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Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Mr. R. G. Suryashekhar/Smita Sagar		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- III		
Paper Name :- Object Oriented Programming using C++		Paper No: VII		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Basic Concepts of OOP, Object Oriented Languages, Applications of OOP, Structure of C++ program. Difference between Top down & bottom up language.	10	30-Jul-22	15-Aug-22
II	Introduction to Tokens, Keywords, Identifiers & Constants, Basic Data Types, Variables Operators in C++, Decision Control & Loop Control Structures: If, If-else, Nested If, Else-if ladder, switch, goto Statement, break statement, while, do-while, for loop.	15	16-Aug-22	10-Sep-22
III	Introduction to Function, Function Prototyping, Call by Value & Call by reference, inline function, default arguments, Function Overloading, Library Functions	10	11-Sep-22	28-Sep-22
IV	Introduction Structures, specifying a Class, Defining member functions, Static Data Members, Static Member Functions, Friend Functions. Introduction to Constructors, destructors. Introduction to Inheritance.	10	29-Sep-22	15-Oct-22

  
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



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## Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Mr. Jadlawar Y.G./Smita Sagar		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- IV		
Paper Name :- Computer Network		Paper No: VIII		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Computer Network definition & Applications, Data Transmission Modes, Protocol Hierarchies, Design issues for layers, Connection Oriented & Connectionless services. Service Primitives. Network Models – OSI/ISO Reference Model & TCP/IP Model.	15	2-Jan-23	30-Jan-23
II	Network Topologies, Network Devices - NIC Cards, Hub, Switch, Bridges, Wireless access points, Router, Gateways, Modems, Repeaters, Types of Networks.	10	31-Jan-23	7-Feb-23
III	Magnetic Media, Twisted pair, Co-axial cable, fibre optics, radio transmission, Wireless transmission, Bluetooth. Structure of telephone system, Transmission & Switching. Email Architecture	10	8-Feb-23	25-Feb-23
IV	Network Protocols, Web server, Browsers, Domain Name System, introduction to IP addresses & IP Protocol, Introduction to Wi-Fi & 4G technology, Introduction to Security & Cryptography, Firewall.	10	26-Feb-23	12-Mar-23

  
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Department :- Computer Science		Class :- B. Sc. Second Year		
Name of Teacher :- Mr. R. G. Suryashekhar/Smita Sagar		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- IV		
Paper Name :- Java Programming		Paper No: IX		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	Java Features, how java differs From C and C++, Java and Internet, Java & www, Web Browsers, Java support systems, JVM, Java program structure.	10	2-Jan-23	19-Jan-23
II	Java Tokens, Constants, Variables, Data Types, Declaration of variable, Giving Values to variables, Scope of Variables, Symbolic Constants, Command Line Arguments, Java Statements, simple java program.	10	20-Jan-23	7-Feb-23
III	Introduction & defining a class, adding variables, Adding Methods, Creating Objects, Accessing Class Members, Constructors. Method Overloading, Static Members, Inheritance: Extending a class, Overriding Method, Final variable and Methods.	15	8-Feb-23	28-Feb-23
IV	Introduction, Defining Interface, Extending Interface, Implementing Interface, Accessing Interface Variables, Introduction to Arrays. Introduction to Java API package.	10	1-Mar-23	15-Mar-23

  
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## Annual Teaching Plan

Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mr. Jadlawar Y.G.		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- V		
Paper Name :- Software Engineering		Paper No: XII		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	<b>The Nature of Software &amp; Software Engineering -</b> The Nature of Software, The Changing Nature of Software, Defining the Discipline, Software engineering process, Software engineering practice, Software Myths	10	30-Jul-22	18-Aug-22
II	<b>Software Process Structure &amp; Models and Agile Development -</b> A Generic process model, defining a framework activity, Process patterns, Process assessment & improvement, Introduction to Agility, Agility & Cost of Change, Agility principles, Extreme programming.	15	19-Aug-22	15-Sep-22
III	<b>Understanding Requirements &amp; Design Concepts -</b> Requirement Engineering ,Building the analysis model, Requirement Analysis, Design within the context of software engineering, The design process,Software Architecture, Designing Class Based Components.	10	16-Sep-22	30-Sep-22
IV	<b>Web App &amp; Mobile App Design</b> Web App Design Quality, Design Goals, A Design Pyramid for Web Apps, Web App Interface Design, The Challenges in Mob. App design, Developing Mobile Apps, Mobile App Design-Best Practices	10	1-Oct-22	16-Oct-22

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Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mr. R.G. Suryashekhar		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- V		
Paper Name :- Programming in Visual Basic		Paper No: XIII (A)		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	<b>Getting Started with VB -</b> The IDE, The Elements of user interface, Designing user interface, Programming an Application Visual Development and Event Driven Programming.	10	30-Jul-22	14-Aug-22
II	<b>Visual Basic The language</b> Variable, Constants, operators, data types, arrays, collections, Procedures, control flow & loop statements - If-else, Nested If else, select case, do loop, for loop, nested for loop	10	16-Aug-22	1-Sep-22
III	<b>Working with forms</b> Form types, Appearance of forms, Form properties, Designing menu structure, Adding code to menus, Building dynamic forms at run time, Introduction to MDI forms.	10	2-Sep-22	19-Sep-22
IV	<b>Basic Active X controls</b> Command button, control-properties, Text Box control- properties, List Box & Combo Box control - properties, Label control-properties, Picture box control-properties, Option button and check box control properties, Understanding Visual data manager.	15	20-Sep-22	16-Oct-22

  
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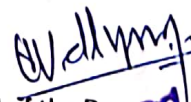


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<b>Department :- Computer Science</b>		<b>Class :- B. Sc. Third Year</b>		
<b>Name of Teacher :- Mr. Jadlawar Y.G.</b>		<b>Year :- 2022- 23</b>		
<b>Subject :- Computer Science</b>		<b>Semester :- VI</b>		
<b>Paper Name :- Software Testing</b>		<b>Paper No: XIV</b>		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	<b>Software Quality Assurance</b> Software Quality, Formal Technical Reviews, Elements of Software Quality Assurance, SQA Processes and Product Characteristics, SQA Tasks, Goals, and Metrics, The ISO 9000 Quality Standards.	10	2-Jan-23	18-Jan-23
II	<b>Software Testing Strategies:</b> A Strategic Approach to Software Testing, Strategic Issues Test Strategies for Conventional Software, Test Strategies for WebApps& Mobile Apps, Validation Testing, System Testing,	10	19-Jan-23	4-Feb-23
III	<b>Testing Conventional Applications</b> Software Testing Fundamentals, Internal and External Views of Testing, White-Box Testing, Basis Path Testing, Control Structure Testing, Black-Box Testing,	15	5-Feb-23	26-Feb-23
IV	<b>Testing Web Applications &amp; Mobile Applications</b> Testing Concepts for WebApps, The Web Testing Process—An Overview, Testing Guidelines for Mobile Apps, The Testing Strategies of mobile apps, Considering the Spectrum of User Interaction	10	27-Feb-23	14-Mar-23

  
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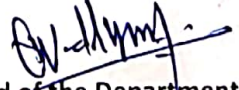
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Department :- Computer Science		Class :- B. Sc. Third Year		
Name of Teacher :- Mr. R. G. Suryashekhar		Year :- 2022 - 23		
Subject :- Computer Science		Semester :- VI		
Paper Name: Relational Database Management System		Paper No: XV (A)		
Chapter No.	Topic - Title	Expected Lectures	Expected Duration	
			From	To
I	<b>Introduction</b> Database-System Applications, Purpose of Database Systems, View of Data, Database Languages, Database Design, Database Engine, Database and Application Architecture, Database Users and Administrators.	10	2-Jan-23	18-Jan-23
II	<b>Relational Model</b> Structure of Relational Databases, Database Schema, Keys, Schema Diagrams, Relational Query Languages.	10	19-Jan-23	4-Feb-23
III	<b>Relational Database Design</b> Features of Good Relational Designs, Decomposition Using Functional Dependencies, Normal Forms	10	5-Feb-23	20-Feb-23
IV	<b>Introduction to SQL</b> Overview of the SQL Query Language, SQL Data Definition, Basic Structure of SQL Queries, Additional Basic Operations, Set Operations, Null Values, Aggregate Functions, Modification of the Database, Join Expressions, Views	15	21-Feb-23	14-Mar-23

  
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