KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : COMPUTER TECHNOLOGY Name of the Teacher : P. BHARATHI Year 2021 - 2022

Title of the Paper : C Programming Subject Code : 21UCT101 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	UNIT-I : Overview of C : History of C - Importance of C - sample programs - Basic structure of C programs - programming style Constants, variables and data types; character set - C Tokens - keywords and identifiers - Constants - variables - Data types - operators and Expressions - Type conversions in Expressions - operator precedence and Associativity : Managing Input and output operations : Reading and writing character - formatted input - Formatted output.	15	09.8.21 to 27.8.21	-		
II From : To :	UNIT-II : Decision making and Branching : Decision making with if statement - simple if statement - The if-else statement - nested if-else - If ladder - The switch statement : Looping : The while statement - The do statement - The for statement - Jump in Loops UNIT-III : Arrays : Introduction - one dimensional Arrays - Declaration of one dimensional Arrays - Initialization of one dimensional Arrays - Two dimensional Arrays - Initializing two dimensional Arrays	15 6	30.8.21 to 24.9.21 25.9.21 to 10.10.21	-		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : COMPUTER TECHNOLOGY Name of the Teacher : P. BHARATHI Year 2021 - 2022

Title of the Paper : C Programming Subject Code : 21UCT101 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	Multidimensional Arrays. Character Arrays and strings. string handling functions. User defind functions: Definition of functions - function Declaration - Category of functions - No Arguments and No Return values - Argments but No Return values - Arguments with return values - No Arguments but Returns a value - Functions that Return Multiple values - Recursion - passing Array to Functions - The scope, visibility and Lifetime of variables. UNIT - IV : Pointers : Understanding pointers - Accessing the Address of the variable - Declaring	9	10.10.21 to 8.11.21	—		
II From : To :	pointer variables - pointer and Arrays - pointer and character strings - Array of pointers - pointers as function Arguments - functions returning pointers. UNIT - V : Structures and Unions : Introduction - Defining a structure - Declaring structure variables - structure Initialization - Array of structures - Array with in structures - structures with in structures - Unions. File Management in C : Defining and opening a file - closing file - Input/Output operation on files - Command Line Arguments.	15 15	9.11.21 to 30.11.21 1.12.21 to 23.12.21	—		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : G. VANI Year 2021 - 2022 (odd)

Title of the Paper : Advanced Operating Systems Subject Code : 20UCT304 Semester : ODD / ~~EVEN~~

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	Unit I Introduction - what is an OS - mainframe System - Desktop Systems - multiprocessor systems Distributed Systems - clustered Systems - Real time Systems - Operating System Structures : System Components - OS services - System Calls Unit II Process management : process concept - process	15 hrs 15 hrs	09.8.21 5 27.8.21 3.8.21	—		
II From : To :	Scheduling - Operations on process - Co operating process - Inter process Communication. Cpu scheduling : Basic concepts - Scheduling Criteria - scheduling algorithms - multiple - processor scheduling - Real time Scheduling Unit III Deadlocks : Deadlock Characterization -	15 hrs	5 24.9.21 25.9.21	—		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : G. VANI Year : 2021 - 2022 (odd)

Title of the Paper : Advanced Operating Systems Subject Code : 20UCT304 Semester : ODD / ~~EVEN~~

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	methods for handling deadlocks - Deadlock prevention - Deadlock avoidance - Deadlock detection - Recovery from deadlock. Memory mgmt : Background - Swapping - Contiguous memory allocation - paging - Segmentation - Segmentation with paging. Unit - IV Virtual memory : Demand paging - process creation - page replacement - Thrashing.	28.10.21 to 08.11.21 - 15 hrs	28.10.21 to 9.11.21 - 5			
II From : To :	I/O Systems : Disk Structure - Disk Scheduling - disk mgmt - Swap space mgmt - file systems : file concepts - Access methods - Directory structure - file system structure - Dir implementation - Allocation methods - Recovery. Unit - V - Case Studies - Android - WAP - open handset alliance - platform - SDK - Exploring the core android appln framework - Android Emulator - core files & directories - Lanch Configuration - Running.	15 hrs	30.11.21 to 28.12.21 - 5			

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : N. Senthil Kumar Year 2021 - 2022

Title of the Paper : Advanced Java Programming Subject Code : 20UCT306 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	Unit-I : Java Evolution : OOPS - History - Features - How Java differ from C & C++ - Java & Internet. Overview of Java Language : Introduction - Simple Java Program - Structure - Java Tokens - Statements Scope of Variable - Datatypes - operators - class Objects - Method - Final - Static Unit-II : Arrays - Strings - Inheritance. Interface : Multiple Inheritance.	15 hrs 15 hrs	09.08.2021 TO 27.08.2021 30.08.2021	Operators & Strings Assignment & Self Study)		
II From : To :	Packages : putting classes together - MultiThread Programming - Managing Errors & Exceptions. Unit-III : Files : Introduction - Concept of Streams - Stream Classes - I/O Exceptions - Reading/writing Characters / Byte - Primitive Data Types. Random Access Files.	15 hrs	TO. 24.09.2021 25.09.2021 TO 13.10.2021	Random Access Files [Self Study]		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : M. Senthil kumar Year 2021 - 2024

Title of the Paper : Advanced Java Programming Subject Code : 20UCT306 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	Applet Programming - Graphics Programming - Color - Font. Unit-IV : AWT - Introduction - AWT classes - Container - Labels - PushButton - CheckBox - ChoiceList - List - TextField - TextArea - ScrollBar - Menubar. Event Handling - Action Event - KeyEvent - MouseEvent MouseWheelEvent - ItemEvent.	28.10.2021 TO. 08.11.2021 15hrs	28.10.2021 TO 08.11.2021 9.11.2021 TO.	—		
II From : To :	Interface - ActionListener - ItemListener - KeyListener MouseListener - MouseMotionListener - MouseWheelListener. Unit-V : Swing Concepts - Introduction - Components Containers - Swing Packages - JLabel - JTextField - JButton - JTabbedPane - JTree - JTable. JavaBeans - Introduction - JavaBean API - Simple JavaBean API	15hrs	30.11.2021 01.12.2021 TO. 23.12.2021	—		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : COMPUTER TECHNOLOGY Name of the Teacher : P. BHARATHI Year 2021-2022

Title of the Paper : Data structures and Analysis of Algorithms. Subject Code : 20UCT305 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	UNIT-I : Introduction: Overview - How to create a program - How to analyze a program. Arrays: Axiomatization - Ordered Lists - Sparse Matrices - Representation of Arrays. Stacks and Queues: fundamentals - Evalution of Expressions - Multiple Stacks and Queues. UNIT-II : Linked Lists : Singly Linked List - Linked stacks and Queues - The storage pool - Polynomial Addition - Doubly Linked List and dynamic storage management.	15 10	9.8.21 to 27.8.21 30.8.21 to 20.9.21	—		
II From : To :	Trees : Basic Terminology - Binary Trees - Binary Tree Representations - Binary Tree Traversal. UNIT-III : Graphs : Terminology and Representations - Traversals; connected components and spanning trees - Shortest paths and Transitive Closure Internal sorting : Insertion sort - Quick	5 10	21.9.21 to 25.9.21 26.9.21 to 28.10.21	—		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : COMPUTER TECHNOLOGY Name of the Teacher : P. BHARATHI Year 2021 - 2022

Title of the Paper : Data structures and Analysis of Algorithms. Subject Code : 20UCT305 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	Sort - 2 way merge sort - Heap sort - sorting on several keys · External sorting sorting with Tapes, sorting with Disks UNIT - IV : Symbol Tables : static tree Tables - Dynamic Tree Tables - Hash Tables - Hashing functions - Overflow Handling. Files : Files, Queries and Sequential Organizations - Index Techniques - File organizations.	5 15	28.10.21 to 8.11.21 9.11.21 to 30.11.21			
II From : To :	UNIT - V : Introduction - Analysis of Algorithms Best case and worst case complexities Analysis of some algorithms using simple data structures, amortized time Complexity - Dynamic programming : The General method - Traveling sales person problem.	15	1.12.21 to 23.12.21			

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : D. DHANALAKSHMI Year 2020 - 2021

Title of the Paper : Programming Language in Python Subject Code : 20UCIT35 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	Composition of functions - User defined functions - Parameters & Arguments - Function Calls - The return statement - Python Recursive functions - The anonymous function - Writing Python Scripts. UNIT-IV : Strings and Lists : Strings - Lists - Tuples & Dictionaries :	15 hrs	13.10.2021			
II From : To :	Tuples - Dictionaries. UNIT-V : Files & Exceptions : Text Files - Directories - Exceptions - Exceptions with arguments - User defined Exceptions - Classes & objects		23.12.2021			

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : D. Hemalatha Year 2021 - 2022

Title of the Paper : Programming language in Python. Subject Code : 20UCT3S1 Semester : ODD / EVEN

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Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	UNIT-I: Introduction to Python - Introduction - Python Overview - Getting Started with Python - Comments - Python Identifiers - Reserved keywords - Variables - Standard Data types. UNIT-II : Operators - Statements & Expressions - string operations - Boolean Expressions - Control statements	15 hrs.		—		
II From : To :	Iteration while Statements - Input from keyboard. UNIT-III : Functions : Introduction - Built-in-functions.					

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : D. HEMALATHA Year 2020 - 2021

Title of the Paper : Software Engineering & Testing Subject Code : 19UCTS10 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	Performing user Interface design: The golden rules - Design heuristics for effective modularity. UNIT-IV: Types of testing: White Box testing - Black box testing - what, How to do black box testing - Requirement based testing - Positive & Negative testing - BVA - Decision Tables - Equivalence Partitioning -	38 hrs	19/08/21			
II From : To :	State Based or graph based testing - Compatibility Testing - User documentation - Domain Testing. UNIT-V: Integrating Testing: Introduction - Integration Testing as a Type of testing - Integration Testing as a phase - System & Acceptance Testing: Introduction - Functional Vs Non-functional system - Function Testing - Non-functional Testing - Acceptance testing.		28/09/21			

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : D. Hemalatha Year 2021 - 2022

Title of the Paper : Software Engineering & Testing Subject Code : 19UCT510 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	UNIT-I : Introduction - The evolving role of S/w - S/w crisis - Myths - S/w Engineering technology - S/w Process - Models. UNIT-II : Requirement Engineering Tasks - Developing Use-cases - Negotiating Requirements - validating	37 hrs.	09/08/21			
II From : To :	Requirements - Req. analysis - Data Modeling concepts - Flow oriented Modeling - UNIT-III : Design engineering - Design concepts - Data Design.		23/09/21			

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : M. Senthil Kumar Year 2021 - 2022

Title of the Paper : Web Development Languages Subject Code : 19UCTEE1 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	JavaScript : History - Basic Terminology - Variable - Execute Code - Repeat Statements - Comment - Handling Error - Exception. Unit - IV : Java script Arrays : creating an 'Empty. Array - Length Static & Dynamic - Types. Java Script Functions: Function Definition - Accept Parameter - Variable scope - Return value.	18 Hrs	13.10.2021 28.10.2021 TO 24.11.2021			
II From : To :	Java Script Classes : Built in Classes as Data Type - String Objects - mathematical Functions - Number Functions Unit - V : VB script - Scripting - VB Script - Data Types - Inserting Script in Html document - Client Side & Server side Script - Converting Variable Types - Operators - Date & Time Functions - Math Functions - Program Control Statements	18 Hrs	25.11.2021 TO 23.12.2021			

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : M. SENTHIL KUMAR Year 2021 - 2024

Title of the Paper : Elective - Web Development Languages Subject Code : 19UCT5E1 Semester : ODD / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	Unit-I : Introduction to the Internet : Computer in Business – Networking – Internet – Emails – Resource sharing – WWW – Usenet – Telnet. IT Technology – Modem – Internet Address – Physical Connection. Introduction to HTML : History – HTML – HTML Documents. Head section, Title – Links – color, Body section : Heading – Alignment – <Hr> – formatting Tags – Images – <A> – <OL> <UL>.	19 hrs	09.08.2021 To 31.08.2021			
II From : To :	Unit-II : HTML Tables – Introduction – Table Properties – Frames – HTML Forms – Method – Drop Down List, DHTML : Introduction – Object Ref. – Event Model – onClick – onload – Mouse Event – onfocus – on blur – onSubmit – onrest. Unit-III : CSS : Introduction – Inline css – Embedded css – External css – Positioning Elements – Background Text Flow – Box model – use style sheet.	17 hrs. 18 hrs	01.09.2021 To 27.9.2021 28.9.2021 To			

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : D. PRINCY Year 2021 - 2022

Title of the Paper : Wireless Adhoc Networks Subject Code : 19UCT511 Semester : ODD / ~~EVEN~~

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 9.9.2021 To : 31.9.2021	UNIT-I Properties of Wireless Multihop Networks: Introduction Terminology and Models - Data Sampling and Simulation Methodology. Self-Configuring Self-Organizing and Self-Healing Scheme: Introduction - Hidden Terminal Problem - Self Configuring and Organizing MANETs - Self Healing. Co-operation in Mobile Ad-hoc Network: Introduction Virtual Currency System - Reputation System - CONFIDANT - CORE - OCEAN.	15 Hrs	9.8.2021 To 31.8.2021	-		
II From : To :	UNIT-II Routing in Mobile Ad-hoc Network: Introduction - Routing Protocol: Expected properties of MANET Routing protocols - Categorizing the Routing Protocols for MANET - Proposed Routing Protocols: Major Features - Criteria for Performance Evaluation of MANET Routing Protocols.	15 Hrs	1.09.2021 To 22.09.2021	-		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Computer Technology Name of the Teacher : D. PRINCY Year 2021 - 2022

Title of the Paper : Wireless Ad-hoc Networks Subject Code : 19UCT511 Semester : ODD / ~~EVEN~~

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : To :	UNIT- III Multicasting in Mobile Ad-hoc Networks: Introduction- Multicast Protocol Design Considerations - Broadcast in Adhoc Networks: Introduction - Heuristic- Based Broadcasting - Neighbor Coverage-based Brodcast - Dominating Sets-based Broadcasting -Cluster-Based Broadjasting - Resource-Aware Broadcasting UNIT- IV Formal Verification of Routing Protocols for WAN: Formal Verification Techniques- Tools.	15 Hrs 15 Hrs	23.09.2021 To 13.10.2021 20.10.2021 To	-		
II From : To :	Security Threats in Adhoc Routing Protocols: Introduction. Taxonomy of Adhoc Network Routing Attacks - Elements of Attack Behavior - Attack Behavior - Attack Scenarios. UNIT - V Trust Management in Mobile Adhoc Networks: Introduction. Security Issues in MANET - Trust Management Systems - Trust and Reputation - Components of Trust Management Systems - Trust Evaluation in Adhoc Network. Vehicular Ad hoc Networks: Introduction - Applications - Network Architecture and Characteristics.	15 Hrs	17.11.2021 15.11.2021 To 17.12.2021	-		