

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

ACADEMIC PLANNING

Department : Computer Science

Name of the Teacher : A-SIVABALAN

Year 2022-2023

Title of the Paper : Object-oriented Prog
with C++

Subject Code : 22UCS202

Semester : ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : <u>2.1.23</u> To : <u>28.2.23</u>	Introduction to C++ - key concepts of C++ - Advantages of C++ - If, If-else, while, do/while - switch for statements - function in C++ - Inline function - function overloading - classes and objects - Member functions - Array of objects - Friend functions - Constructor and destructors - Programs explain the above concepts.	30	As per time table	-	A. S. Balan	A. S. Balan
II From : <u>8.3.23</u> To : <u>23.4.23</u>	Operator overloading - Unary, Binary operators overloading - Inheritance - Types Single/multilevel / Multiple / Hierarchical - Hybrid - Inheritance - Virtual base class - Abstract class - Pointers - Pointers to derived classes - Arrays - Polymorphism - Virtual function - Files - File modes - Sequential file Read/write operations - String function programs	30	As per time table	-	A. S. Balan	A. S. Balan

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

ACADEMIC PLANNING

Department: Computer Science Name of the Teacher: Dr. A. KAVITHA Year 2022 - 2023

Title of the Paper: Moral & Ethics Subject Code: 22VED201 Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 2.1.23 To : 23.2.23	Introduction-Meaning of Moral & Ethics. Social Ethics- Ethics and culture. Aim of Education Birth & childhood days of Swami Vivekananda At the Parliament of Religions- Teachings of Swami Vivekananda Subhas Chandra Bose Sardhar Vallabhbhai Patel - Udham Singh - V.O. Chidambaram Pillai - Bhagat Singh - Tiruppur Kumari - Dheeran Chinnamalai - Thillaiyadi Valliammai - Velu Nachiyar Vanchinathan	13 hrs	As per Time Table	-	A. Kavittha	A. Kavittha
II From : 8.3.23 To : 23.4.23	Simplified Physical Exercise, Hand Exercise, Leg Exercise, Neuro Muscular Breathing Exercises. Eye Exercises - Kabalabathi - Maharasana A & B - Massage - Acupressure - Relaxation - Kayakalpa - Yogum, Life force, Aim & objectives - Principle, Methods, Introspection, Analysis - Thoughts, Moralization of Day & Night - Neutralization of Anger, Eradication of Worries - Yogasana, Surya namaskaram, Asanas - Nadi Sudhi - Uddagi, Setthali, si-Akha - Bhujangam Benet	13 hrs	As Per Time Table	-	A. Kavittha	A. Kavittha

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

ACADEMIC PLANNING

Department : Computer Science

Name of the Teacher : A. SIVABALAN

Year 2022-2023

Title of the Paper : Database Management System Subject Code : 21UCS406

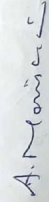
Semester : ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : <u>21.23</u> To : <u>28.2.23</u>	Introduction - Purpose - Views of data - Data models Database languages - Transaction management - Storage management - DBA - Database users - Overall system structure - E-R model - Basic concepts - Keys - ER diagram - Weak Entity sets - Extended ER - Views - SQL background - Basic structure - set aggregate function - NULL - derived relations - Views - modifications - Join relations - Data definition language - Integrity constraints	35	As per time table	-	A. S. Balan	A. S. Balan
II From : <u>8.3.23</u> To : <u>23.4.23</u>	Functional dependencies - Relational Database design - Pitfalls - Decomposition - Normalization using PD - OODB - New applications - ODBM - OD languages - Persistent prog lang + database system architecture - Central system - client/server - parallel - Distributed - Network takes - new applications - desktop support systems - Data analytics - Data mining - Data warehousing Spatial and Geographical DB - Multimedia - Mobility DB - Personal DB - Information Retrieval systems - Distributed Information Systems	35	As per time table	-	A. S. Balan	A. S. Balan

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

ACADEMIC PLANNING

Department: ...Computer Science... Name of the Teacher: ...P. Kalyan... Year 2022-2023
 Title of the Paper: Software Engg. & Testng... Subject Code: ...21VLS407... Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 21.2.2023 To : 26.2.2023	Introduction- the Evolving role of SW.-Software Crisis, Software mgmt, SW Engineering Technology - SW process Models - Prototyping model - Requirement Engineering - System modeling - Requirement Analysis and Elicitation - Software Prototyping - Specification - Mechanics of Structured analysis Data dictionary - Elements of analysis Model - Functional modeling and Information flow. Transforming mappings and Translation mapping, OOP - Design for OOS, System design process	35	As per Time Table			
II From : 8.3.2023 To : 23.4.2023	Introduction- Quality, QA and QC, Testing, Verification, Validation Integration Testing as a Phase Testing, Scenario Testing Acceptance testing: functional Testing versus Non functional Testing - Acceptance Testing. Performance Testing: Introduction - Factors Governing performance testing methodology for performance testing - Regression Testing, what is regression Testing, - Types of Regression testing, Planning, Execution and Reporting	30	As per Time Table			

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

ACADEMIC PLANNING

Department: Computer Science Name of the Teacher: B. MANOJARAN Year 2022-2023
 Title of the Paper: Visual Basic & Oracle Subject Code: 21UCS408 Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 2.1.23 To : 23-2.23	Introduction- IDE : Menu, Tool, Proj Explorer Window, Property Window, Form layout window, Code Window - Properties, Methods, Events, Working with Forms - Declaring Data types & Variables, Built-in Functions, Procedures with Control stmts - Arrays. Working with Controls - classification - Text box, Label, Command Buttons - checkbox - Combo box - List box - Option Button - Frames, Timer Control, Scroll Bar, Menus and Dialog box - Graphics Control, SSI, MDI, Control arrays. ODBC - DAO : Creating DB, Record Sets, Types, Opening a DB, Add, Delete, Update, Edit Records.	37 Hrs	As per Time Table	-		
II From : 8.3.23 To : 23.4.23	Moving to First, Last, Next, Previous Records Sets, Searching and Sorting a Record Set, Data Environment, Reports Basic Database Concepts, Oracle Tools, Interactive SQL: Invoking SQL Plus, Data Manipulation, Data types, Data Manipulation (Inserting, updating, deleting, Modifying records, select st, Renaming, deleting, dropping tables, Constraints, Arithmetic/Logic operators, Functions, Grouping, Manipulating Data. Joins, sub Queries, Union, Intersection, Minus, Grant/Revoke Permissions, PL/SQL: Syntax, Block structure, Conditional Control - if then, while, for. Roll back, Commit Commands, SQL Lite, Uses.	38 Hrs	As per Time Table	-		

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

ACADEMIC PLANNING

Department: B.Sc. Computer Science (Aided) Name of the Teacher: Dr. A. KAVITHA Year 2022 2023
 Title of the Paper: Digital Principles & CSA Subject Code: 21UCSA1A4 Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 2.1.23 To : 28.2.23	Binary no system, Binary to Octal, Decimal, Hexadecimal Conversion, Decimal no system, Decimal to Binary, Octal, Hexadecimal Conversion, Octal Number System, Octal to Binary, Decimal, Hexadecimal Conversion, Hexadecimal to Binary, Octal, Decimal Conversion, ASCII code, Excess-3 Code, Gray Code, AND, OR, NOT Gates, Universal Logic gates, NAND, NOR, AND-OR, Invert gates, Boolean Laws & Theorems, SOP, Truth Table to K-Map, Pairs, Quads, Octets, Karnaugh Simplification, Don't Care Conditions, POS, Multiplexers, Demultiplexers, 1 of 16 Decoders,	35 hrs	As per the Time Table	-	A. Kavitha	A. Kavitha
II From : 8.3.23 To : 23.4.23	BCD to decimal Decoders, Encoders, RS flipflop, JK, T, D, Edge Triggered RS, JK, D, CPU General Register Organization, Stack Organization, Instruction formats, Addressing Modes, Peripheral Devices, I-O Interface, Asynchronous Data Transfer, Strobe control & Handshaking, Priority Interrupt, DMA, IOP - Serial communication, Memory Hierarchy, Main memory, Cache memory, Virtual memory, Multiprocessors, characteristics of multiprocessors, Interconnection structures	35 hrs	As per the Time Table	-	A. Kavitha	A. Kavitha

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

ACADEMIC PLANNING

Department: Computer Science

Name of the Teacher: A. Manickalingam

Year 2022- 2023

Title of the Paper: Women's Rights

Subject Code: 20UWRAN2 - 21UWRAN2

Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From: 21-1-23 To: 28-2-23	Women Studies: Basic concepts of Women's Studies in Higher Education - Perspectives - Socialization - Patriarchy - Women's studies as an academic discipline - Growth and development of Women's Studies as a discipline in International and in India. Socio-economic development of Women: Family welfare measures - role of Women in economic development - representation of Women in media Status of Women - Land rights - National Policy for the empowerment of Women - Access to justice - Crime against Women - Domestic Violence - Physical abuse - Verbal abuse - Economical abuse - Minorities - Dowry.	15	As per the Time-Table	—	<i>[Signature]</i>	<i>[Signature]</i>
II From: 8-3-23 To: 23-4-23	Code of Conduct for workplace - Abolition of Sati - Women protective acts - Protective legislation for Women in the Indian Constitution - Anti-dowry - SITTA - PNDT and Prevention of Sexual Harassment of Workplace (Vishaka case), Domestic Violence (Prevention) Act - Women and Child Welfare: Safety Provisions - Various forms of mass media - radio, visual, cyberspace - Texting, SMS and Smart Phone usage. Healing measures for the affected Women and Child society by Private and Public Sector, NGo and society.	15	As per the Time Table	—	<i>[Signature]</i>	<i>[Signature]</i>

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

ACADEMIC PLANNING

Department: Computer Science Name of the Teacher: A. Manicka Thae Year 2022- 2023

Title of the Paper: Artificial Intelligence Subject Code: 20VCS612 Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From: 2-1-23 To: 28-2-23	Introduction: AI Problems - AI Techniques - Criteria for success - Problem spaces. Search: State Space Search Production Systems - Problem characteristics - Issues in Design of Search. Heuristic Search techniques. Generate and Test - Hill climbing - Best - First Search or Graphs - A* algorithm - Problem reduction - Path or Graph - A.O* algorithm, Constraint Satisfaction - Means Ends analysis. Knowledge Representation Issues: - Representations and mappings.	30	As per the Time-table	—	<i>A. Manicka Thae</i>	<i>A. Manicka Thae</i>
II From: 8-3-23 To: 23-4-23	Approaches to knowledge Representations - Issues in knowledge representations - Frame problem. Predicate logic: Representing simple facts in logic. Representing Instance and Is-a relationships - Computable functions and predicates - resolution Natural Deduction. Representing knowledge using Rules: Procedural Vs Declarative knowledge - Logic programming - Forward Vs Backward reasoning - matching - control knowledge - Expert Systems - Characteristic features of Expert System - Background History Importance of Expert Systems - Introduction to neural networks.	30	As per the Time-table	—	<i>A. Manicka Thae</i>	<i>A. Manicka Thae</i>

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

ACADEMIC PLANNING

Department: ...Computer Science..... Name of the Teacher:P. Lakshmi..... Year 2022 - 2023
 Title of the Paper: ...Python Programs..... Subject Code: ...20UCS613..... Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 2.1.2023 To : 28.2.2023	Introduction to Python - Python overview - Getting started with Python - Comments - Python identifiers - Reserved keywords - Variables - datatypes - operators - Statements and Expressions - String operators - Boolean expressions - Control statements - While Statement Input from keyboard - Built in functions - User defined functions - parameters - arguments - function calls - the return function - python recursive function - The anonymous function - write python scripts. String len function, Slices string are immutable - string traversal escape character - string formatting function list - values	30	As per Time Table			
II From : 8.3.2023 To : 23.4.2023	List mutable - Delete elements from list - Built in list operators - Built list methods. tuples - creating tuples - Accessing values in tuples - tuples are immutable. Tuple Assignment - tuple as return values - variable length argument tuples - Basic tuple operations - Built in tuple function Dictionary - creating Dictionary operations in dictionary - class and objects - Built in methods. in runtime files - opening files - closing files - the file object write files. Reading from files. mkdir, chdir, exceptions. Handling exceptions, Exception arguments, User defined functions.	30	As per Time Table			

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

ACADEMIC PLANNING

Department: Computer Science (Aided) Name of the Teacher: Dr. A. K. V. J. THA Year 2022- 2023

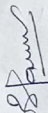
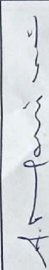
Title of the Paper: Information Security Subject Code: 20VCS614 Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : <u>2-1-23</u> to <u>28.2.23</u> To : <u>27.4.2022</u>	Is there security problem in Computing? What does Security mean, Attacks, The meaning of computer Security, Computer Criminals, Protection in general purpose OS, Memory & Address protection, Control of Access to General Objects, File Protection Mechanisms, User Authentication, Secure Programs, Non Malicious Program Errors, Viruses and other Malicious Code, Targeted Malicious code, Controls against Program Threats, Introduction to Databases, security requirements, reliability & Integrity	40	As per the Time table	-	A. Karitha	A. Karitha
II From : <u>8.3.23</u> to <u>23.4.23</u> To : <u>14.7.2022</u>	Multilevel Databases, Proposals for multilevel Security, Data mining Network Concepts, Threats in n/w, Firewalls, IDS, Web Systems, Web security, Web Application Security, Mobile Security, Legal and Ethical Issues in Computer Security, protecting Programs & Data, Information and the Law, Computer crime, Ethical Issues in Computer Security	40	As per the Time Table	-	A. Karitha	A. Karitha

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

ACADEMIC PLANNING

Department: Computer Science Name of the Teacher: R. MANOJARAN Year 2022-2023
 Title of the Paper: Big Data Analytics Subject Code: 20UCS6E2 Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 2.1.23 To : 28.2.23	Data Evaluation - Data development Time Line, IET Advancement, Data Growth, IET Components, Data Science Types of Data: Numeric, Categorical, Graphical, High Dim Data Classification - Hot, Cold, Warm, Thick, Thin Classification of Digital Data - structured, Unstructured, Semi Structured Sources of data: Time Series, Transactional, Biological, Spatial, Social Networks, Data Evaluation, Data Sources. Data Science, Data Sci Vs Statistics, Statistics, Mathematics, Prog Languages, Data bases, ML, Analytics, Big Data Analytics Data Science Components: Data Engineering, Methods and Algorithms, Data Visualization.	38 hrs	As per the Time Table	—		
II From : 8.3.23 To : 23.4.23	Big Data: Evolution, Sources, characteristics, GVs, challenges of conventional systems. Data Processing Models - Limitations of Conventional model, Big Data myths, Data Discovery Approaches, Big Data Technologies, Exploration, Augmentations Operational Analysis, 360 View of customer, Security and Privacy Use cases - Potentials, Limitations/Challenges Roles of Data Scientists, Architect, Analyst, Skills. Case study - customer insight, Behavioural Analysis, Applications in Marketing, Retail, Insurance, Health Care, Risk and Security	37 Hrs	As per the Time Table	—		

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

ACADEMIC PLANNING

Department : Computer Science Name of the Teacher : A. S. V. M. B. L. G. V.
 Title of the Paper : Programming Subject Code : 22 VCS101
 Year 2022-2023 Semester : ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of Staff	Signature of HOD
I From : 18-7-22 To : 21-9-22	Introduction to C - Overview of compiler and interpreter Structure of C - Rules - character set - keywords - Variables - Data types - Type conversion - Constant and variable variables - operators and expressions - Priority of Arithmetic, Relational, logical, etc. Formatted and unformatted I/O - Library function - Decision statements - if, if-else if, switch/case - break - continue - goto - Loop control statements - for - nested loop - while - do while : Arrays - Introduction - 1D, 2D, 3D or multidimensional	30	As per time table	-	As shown	A. S. V. M. B. L. G. V.
II From : 30-9-22 To : 14-11-22	Strings - Standard functions - Application - Pointers - Features - Declaration - Pointer and Array Array of pointers - Pointer to pointers - Pointers and Array String - void *, Function - Declaration - Types - Call-by-value - Call-by-reference - Recursion - Pointer pointer to function - Storage class - Structure and union - Declaration and Initialization - Files - Streams Types - Steps - File I/O functions - Command line arguments - Application - Programming Embedded Systems - C - What is an embedded system - which programming language and OS to use - develop embedded system	30	As per time table	-	As shown	A. S. V. M. B. L. G. V.

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

ACADEMIC PLANNING

Department: Commerce.....

Name of the Teacher: P. Lakshmi.....

Year 2022- 2023

Title of the Paper: Environmental Studies.....

Subject Code: 29ENVSL01.....

Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of Staff	HOD
I From : 18.7.2022 To : 21.9.2022	Definition, Scope and Importance - Need for public awareness Natural resources - Types of resources - Forest resources - Water Resources Mineral resources - Food resources - Energy resources - Conservation of eco system - Structure of an eco-system - Food Chain - Food web and ecological pyramids - Structure and function of the following Ecosystem - forest eco-system - Grassland eco-system - Desert ecosystem - Aquatic ecosystem - Special and eco-system - Bio ecosystem - Awareness of India, Value of biodiversity. Geographical Classification of India, Value of biodiversity. Biodiversity - a global, national and local levels - India mega diversity nation - Hot spots of Biodiversity - Threats to Biodiversity.	15	As per Time Table	-	P. Lakshmi	A. J. Jeyaraj
II From : 30.9.2022 To : 14.11.2022	Conservation of Biodiversity - In situ Conservation of Biodiversity Ex situ conservation of Biodiversity - Pollution Causes - Air Pollution - Water Pollution - Soil Pollution - Marine Pollution - Noise Pollution - Solid waste management - Causes, effects - domestic waste water, effluents from paper mill and dyeing, cement pollution - Disaster management - Flood - Drought, Dams, Floods, Cyclone and Land Slide. Sustainable Development, water conservation and forests, watershed management, Environment movement, water quality, public awareness, population growth, family welfare, human rights, Value Education, HIV/AIDS, women child welfare, Role of IT, and Human Health.	15	As per Time Table	-	P. Lakshmi	A. J. Jeyaraj

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

ACADEMIC PLANNING

Department: Computer Science ^(Aided) Name of the Teacher: Dr. A. K. AVITHA

Year 2022 2023

Title of the Paper: Data Structures Subject Code: 21VCS303

Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of Staff	HOD
I From : <u>21-7-22</u> To : <u>21-9-22</u>	Introduction, Overview, How to create Programs and analyze them, Arrays, Structures, Ordered lists, representation of arrays, simple applications, Stacks and queues, Fundamentals, Structure - operations, Multiple Stacks and queues, Applications, Evaluation of Expressions, Linked Lists, Single linked lists, Linked stacks and queues, The storage pool, Applications.	35 hrs	As per the Time Table	—	A. Karitha	A. Naraini
II From : <u>30.9.22</u> To : <u>14.11.22</u>	Polynomial addition, Sparse matrices, Double Linked lists, Dynamic storage management, Garbage collection & Compaction Trees, Basic Terminology, Binary Trees, Binary Tree representation, Application of trees, Searching: Binary, Sequential, Fibonacci Sorting, Internal Sorting: Insertion, Quick, merge, heap, radix Sorts, External Sorting, Sorting with disks, K-way merging, Sorting with tapes, Balanced merge, polynomial merge, symbol tables, Static tree, Dynamic tree, Hash Tables.	35 hr	As per the Time Table	—	A. Karitha	A. Naraini

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

ACADEMIC PLANNING

Department : Computer Science Name of the Teacher : A. SILVIA ALAN Year 2022-2023
 Title of the Paper : Operating Systems Subject Code : 21UE5304 Semester : ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of Staff	HOD
I From : 18.7.22 To : 21.9.22	Introduction - Definitions - Process state transition - Interrupt processing - Deadlock Prevention - Avoidance + Detection - Recovery - Indefinite postponement - Storage management - Real, storage - Management strategies - Concurrency vs Non-concurrency single user - Fixed Partition multiprogramming - Variable Partition multiprogramming - Storage swapping - Virtual storage mgmt strategies - Page replacement strategies - Process management - Job and process scheduling - Preemptive vs Non-preemptive scheduling - Priorities - Deadline scheduling strategies	35	As per time table	-	Asst. Prof.	A. Monica
II From : 30.9.22 To : 14.11.22	Distributed Computing - Classification of sequential and parallel processing - Array processing - Data flow Computers - Multiprocessing - Fault Tolerance - Device and information management - Disk performance optimization - Moving head - disk storage - Disk scheduling - Seek optimization - RAM disks - optical disks - File and DB systems - File system - Functions - Organization - allocation and tracing - File descriptions - Access control system - Case studies: Linux - Windows - overviews - Internet - Shell - Utility - Kernel - Process - memory - Windows with - History - Structure - Kernel - Process - Threads - Coding - Security - Android - Features - Architecture	35		-	Asst. Prof.	A. Monica

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

ACADEMIC PLANNING

Department: Comp. Science

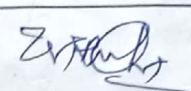
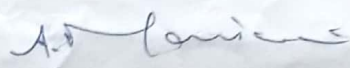
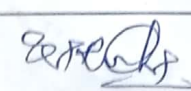
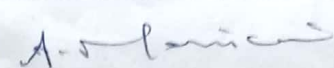
Name of the Teacher: IT M. RAJ. L. CHAND. R. AN.

Year 2022-2023

Sem - (III)

Semester: ODD / EVEN

Title of the Paper: JAVA Programming Subject Code: 21 UCS 305

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
I From: 18.7.22 To: 21.9.22	Java Evolution - History - Features - How Java differs from C and C++ - Java and Internet - Overview of Java language - structure - Constants and variables - operators - Decision making & branching - classes and objects. Simple Java programs using If, for, while, switch etc.,	30	As per the time table allotted	-		
II From: 30.9.22 To: 14.11.22	Arrays, Strings - vectors - Interfaces - Packages - Multi Threading - Managing errors and exceptions - Applet programming - Graphics programming - Files - Stream classes - I/O classes - I/O Exceptions - Creation of files - Reading/writing characters / bytes - Random Access files - Related Programs	30	As per the time table allotted	-		

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

ACADEMIC PLANNING

Department: Computer Science [M.T.D.D] Name of the Teacher: A. N. Anandakumar

Year 2022 - 2023

Title of the Paper: Systems Software Subject Code: 20UCS509

Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From: 15-7-22 To: 21-9-22	Language Processors: Introduction - Language processing activities - Fundamentals of Language Processing - Language Specification - Language Processor development tools, Assemblers: Elements of Assembly Language Programming - A simple Assembly Scheme - Pass Structure of assemblers - Design of a two Pass Assembler - Pass I of the Assembler - Pass II of the Assembler - Macros and Macroprocessor: Macro definition and call - macro expansion - Macro calls - advanced macro facilities.	38	As per the Time-Table	—	A. N. Anandakumar	A. N. Anandakumar
II From: 30-9-22 To: 14-11-22	Design of a macro Preprocessor - Design of a macro assembler. Compilers and Interpreters: Aspects of compilation - memory allocation - compilation of expressions - A toy code generator for expressions - Intermediate code for expressions - compilation of control structures - code optimization, Linkers: Relocation and linking concepts - Design of a linker - Self relocating programs - linking for overlays - loaders, Software Tools for Program Development - Editors - Debug monitors - Programming Environments - User Interfaces,	40	As per the Time-Table	—	A. N. Anandakumar	A. N. Anandakumar

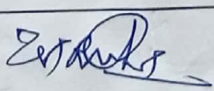
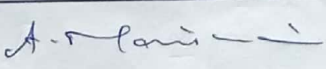
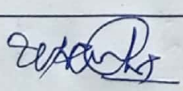
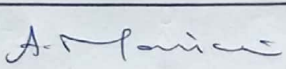
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department: Comp. Science Name of the Teacher: L. N. Ravichandran

Year 2022-2023
Sem-V
Semester: ODD / EVEN

Title of the Paper: Java Programming Subject Code: 20 UCS 510

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of Staff	HOD
I From : 18-7-22 To : 21-9-22	Java evolution- How Java differs from C and C++- Java and Internet- Overview of Java language- Tokens- Java virtual Machine (JVM)- classes and objects - Data types - operators- decision making and branching- programs written to demonstrate if, for, while, switch etc,	30	As per the time table allotted	—		
II From : 30-9-22 To : 14-11-22	Array, strings- Vectors- Interfaced- Multiple inheritance- packages- multithreaded programming- Managing errors and exceptions- Applet programming- graphics programming- Files- Introduction concept of streams- stream classes- File classes- I/O exceptions- creation of files- Reading/ writing characters / bytes- Random Access files- programs for the above	30	As per the time table allotted	—		

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

ACADEMIC PLANNING

Department: Computer Science (Aided) Name of the Teacher: Dr. A. KAVITHA

Year 2022 2023

Title of the Paper: Data Communication & Networking Subject Code: 20VCE511

Semester: ODD / EVEN

Test No. & Period	Topics allotted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
I From: 18.7.22 To: 21.9.22	Introduction, Fundamental concepts, Data communication Protocols, Standards, Signal propagation, Analog and Digital signals, Information Encoding; Representing Different symbols, Minimizing Errors Analog and Digital Transmission methods, Modes of Data Transmission & Multiplexing, Error Detection & correction, Guided media, Unguided media, Network Topologies: Mesh, Star, Tree, Ring, Bus Switching Circuit Message Packets, Routing Algorithms, Routers and Routing Factors affecting routing algorithms, Approaches to routing, Network Protocols & OSI model.	40 hrs	As per the time table	—	A. Kavitha	A. Kavitha
II From: 30.9.22 To: 14.11.22	LAN, MAN, WAN, LAN: Ethernet, MAN, SMDs, WAN, WAN architecture, WAN transmission mechanism, WAN addressing, packet forwarding, Aloha, ISDN, X.25 protocol, Frame relay, ATM, Internetworking concepts; Devices, Internal basics, History & Architecture, An Introduction to TCP/IP, IP, ARP, RARP, ICMP, TCP, features of TCP, Relationship between TCP & IP, ports & sockets, TCP connection, what makes TCP Reliable, TCP packet format, UDP, UDP Packet, Diff. between UDP & TCP, DNS, E-mail, FTP	40 hrs	As per the Time Table	—	A. Kavitha	A. Kavitha

ACADEMIC PLANNING

Name of the Teacher: P. Kethavath

Title of the Paper: Simultaneous & Trans

Subject Code: 08 VLSI & EHE

Semester: ODD / EVEN

Bus Safety Network primitive.