

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

ACADEMIC PLANNING

Department : B.Sc. AI & ML

Name of the Teacher : Dr. S. NITHYA

Year 2022 - 2023

Title of the Paper : Database Management System Subject Code : 21VA1407

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	UNIT III SQL standards, Data types, Database objects, DDL, DML, DCL, TCL, Embedded SQL, static Vs Dynamic SQL - Query Optimization, Query Processing and Optimization - Heuristic and cost Estimator in Query Optimization	15 hrs.	27.02.2023 I-D0-4th hr to 25.3.2023 II-D0-4th hr	-	<u>[Signature]</u>	<u>[Signature]</u>
	UNIT IV Transaction Concepts, ACID Properties, A simple Transaction Model, Serializability, Two phase Commit, Concurrency, Need for Concurrency, Locking Protocols, Two Phase Locking, Transaction Recovery Deadlock.	15 hrs.	25.3.2023 II-D0-5th hr to 15.4.2023	-	<u>[Signature]</u>	<u>[Signature]</u>
II	UNIT V Overview of Physical Storage Media - RAID - File Organization, Indexing & Hashing, B+ tree Index files, Query Processing Overview, Catalog Information for Cost Estimation, Selection Operation, Sorting, Join Operation, Query Optimization, Transformation of Relational expressions.	15 hours	17.4.2023 IV-D0- to 20.4.2023 I-4th hr (10 hrs)	-	<u>[Signature]</u>	<u>[Signature]</u>

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I	<u>UNIT-I</u> Purpose of Database System - Views of data - Data Models - Data base languages, Database architecture, Database users and administrator, Entity Relationship Model - E-R Diagrams - Introduction to relational databases.	15 hours	02/01/2023 4th hr - I DO to 25.01.2023 VI DO - 2nd hr	-		
II	<u>UNIT-II</u> Structure of Relational Databases, The Relational Model, Keys, Relational Query languages, Relational Algebra, Domain Relational calculus, Tuple Relational calculus, Set Fundamentals, Integrity Triggers, Security, Views, Introduction to distributed Databases and Client Server Databases.	15 hours	25.01.2023 VI DO - 4th hour to 25.02.2023 VI DO 4th hr	-		

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

ACADEMIC PLANNING

Department : II Bsc AE & ML

Name of the Teacher : Mrs P. Sumitha

Year 2022- 2023

Title of the Paper : R programming

Subject Code : 21UA1406

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 UNIT 3 From: To:	<u>Unit 3</u> Creating Data frames - Matrix - like operations in frames - Merging data frames - Applying function to Data frames - Factors and tables - Factors and levels Common functions used with factors - Working with tables Other factors and tables related functions - Control Statements - Arithmetic and Boolean operators and Values - Default Values for arguments - Returning Boolean values - Functions are objects - Environment and Scope issues - Writing up stairs - Recursion - Replacement functions - Tools for composing function code - <u>Math-Simulation</u>	15 hours	18.02.2023 III do 5 th hr to 10.03.2023 III do 5 th hr	—	P.S	Lohu
II UNIT 4 From: To:	<u>Unit 4</u> S3 classes - S4 classes - Managing your objects - Input/output accessing keyboard and monitor - reading and writing files accessing the internet - String Manipulation - Graphics - Creating Graphs - Customizing Graphs - Saving Graphs to files - Creating three-Dimensional Plots <u>Unit 5</u> Interfacing R to other languages - Parallel R - Basic Statistics Linear model - Generalized Linear model - Nonlinear models Time series and Auto - correlation - clustering	15 hours 15 hours	11.03.2023 IV do 1 st hr to 27.03.2023 III do 5 th hr 1.04.2023 II do 2 nd hr to 19.4.2023 II do 2 nd hr	—	P.S	Lohu

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

ACADEMIC PLANNING

Department : II B.Sc. AI & ML

Name of the Teacher : Mrs. P. Sumitha

Year 2022 - 2023

Title of the Paper : R Programming

Subject Code : 21UA1406

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 Unit I From : To :	Unit I Introducing to R - R Data Structures - Help Function in R - Vectors - Scalars - Declarations - Recycling - Common Vector Operations - Using all and any - Vectorized operations - NA and NULL values - Filtering - Vectorized if-then-else - Vector Element names	15 hours	30.10.2023 11:00 2nd hr to 24.01.2023 11:00 4th hr	—	P. Sumitha	
II Unit II From : To :	Unit II Creating Matrices - Matrix Operations - Applying functions to matrix rows and columns - Adding and deleting rows and columns - Vector / Matrix Distinction - Avoiding dimension reduction - Higher Dimensional arrays - lists Creating lists - General list operations - Accessing list components and values - applying functions to lists - recursive lists	15 hours	2.2.2023 11:00 2nd hr to 17.02.2023 11:00 2nd hr	—	P. Sumitha	

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

ACADEMIC PLANNING

ARTIFICIAL INTELLIGENCE

Department : AND MACHINE LEARNING

Name of the Teacher : Dr. S. NARMADHA

Year 2022 - 2023

Title of the Paper : JAVA PROGRAMMING

Subject Code : 22UAI202

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 : 03/01/2023 To: 23/1/2023	UNIT-I - Fundamentals of object oriented Programming: Object oriented Paradigm - Basic Concepts of object oriented programming - Benefits of object oriented programming - Application of object oriented programming. Java Evolution: History - Features - How Java differs from C and C++ - Java and Internet - Java and www - web Browsers. Overview of Java: Simple Java program - Structure - Java Tokens - Statements - Java Virtual machine.	15 hours	03/01/2023 TO 23/01/2023	—	Dr. S. Narmadha	
II From : 25/1/23 To: 14/2/23	Unit-II - Constants, Variables, Data Types - Operators and Expressions - Decision making and Branching: if, if.. else, nested if, Switch, ?: operator - Decision making and Looping: while, do, for - Jumps in Loops - Labelled Loops - classes, objects and methods.	15 hours	25/01/2023 to 14/02/2023	—	Dr. S. Narmadha	

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ACADEMIC PLANNING

Department : AI & ML

Name of the Teacher : Dr. S. Narmadha

Year 2022-2023

Title of the Paper : Java Programming

Subject Code : 22UAI202

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 : To :	Unit-III - Arrays, Strings and Vectors - interfaces : Multiple inheritance - packages : putting classes together - Multi threaded programming.	15 hours	15.2.23 TO 7.3.23	—	Dr. S. Narmadha	
	Unit-IV - Managing Errors and Exceptions. Applet Programming - Graphics Programming.	15 hours	9.3.23 to 1.4.23	—	Dr. S. Narmadha	
II From : To :	Unit-V - Managing Input/output files in Java: Concepts of Streams - Stream classes - Byte Stream classes - Character Stream classes - Using Streams - I/O classes - File class - I/O exceptions - creation of files - Reading/ writing characters, Byte - handling primitive Data types - Random Access files.	15 hours	3.4.23 to 29.4.23	—	Dr. S. Narmadha	