

M.L. Dahanukar College of Commerce

Teaching Plan: 2023 - 24

Department: I.T. Class: F.Y.B.Sc.(I.T.)

Semester: I

Subject: Programming Principles with C

Name of the Faculty: Pranali Chindarkar

Month	Topics to be Covered	Internal Assessment	Number of Lectures
July	<p>Unit1- Introduction: Algorithms, History of C, Structure of C Program. Program Characteristics, Compiler, Linker and preprocessor, pseudo code statements and flowchart symbols, Desirable program characteristics. Program structure. Compilation and Execution of a Program, C Character Set, identifiers and keywords, data types and sizes, constants and its types, variables, Character and character strings, typedef, typecasting</p> <p>Unit 2- Type of operators: Arithmetic operators, relational and logical operators, Increment and Decrement operators, assignment operators, the conditional operator, Assignment operators and expression, Precedence and order of Evaluation</p>		14
August	<p>Unit 2- Block Structure, Initialization, C Preprocessor</p> <p>Control Flow: Statements and Blocks, If-Else, Else-If, Switch, Loops- While and For Loops Do-while, Break and Continue, Goto and Labels</p> <p>Unit 3 - Functions and Program Structure: Basics of functions. User defined and Library functions, Function parameters, Return values, Recursion</p>		16
September	<p>Unit 3-. External variables, Scope Rules, Standard Input and Output, Formatted Outputprintf() and Formatted Input- scanf(), Line Input and Output, Error Handling- StdErr and Exit, Header Files</p> <p>Unit 4 - Pointer and Arrays Pointer and Addresses, Pointer and Function Arguments, Pointer and Arrays, Address Arithmetic, Character Pointers and Functions, Pointer Arrays: Pointers and Functions, Multidimensional Array, Command-line Arguments, Pointers to Functions, Dynamic memory allocation</p>		16

October	Unit 5- Structures: Basics of structures, Structures and Functions, Arrays of Structures, Pointers to Structures, Unions, Bit-fields File management in C: Defining and Opening file Closing a file, Input / Output operations on file, Error handling in C, Random access to files, Command line arguments.		10
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M.L. Dahanukar College of Commerce
Teaching Plan: 2023 - 24

Department: I.T. Class: F.Y.B.Sc.(I.T.) Semester:I
Subject: Digital Logic and Applications
Name of the Faculty: Ms.Shruti Save

Month	Topics to be Covered	Internal Assessment	Number of Lectures
July	Unit I: Digital Systems and Binary numbers Introduction to Number systems, Positional Number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.		10
August	Unit I: Logic gates and Logic Circuits Basic and Universal Gates Unit II: Boolean algebra and Gate level minimization Introduction, Postulates of Boolean Algebra, Two Valued Boolean Algebra, Principle of Duality, Basic Theorems of Boolean Algebra, Boolean Functions and their Representation, Gate-Level Minimization, QuineMcCluskey Method Unit III: Combinational logic Introduction, Analysis and Design Procedure for Combinational Logic Circuits,		24
September	Unit III: Types of Combinational Circuit. Unit IV: Sequential circuits Introduction, Latch, Flip-Flops, Registers, Counters		18
October	Unit V: Applications Bit Arithmetic and Logic unit, Carry lookahead generator, Binary Multiplication and Division algorithm, Booth's multiplication algorithm		08

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M.L. Dahanukar College of Commerce

Teaching Plan: 2023 - 24

Department: I.T.

Class: B.Sc.(I.T.)

Semester: I

Subject: Digital Logic and Applications

Div: A

Name of the Faculty: Snehal Borade

Month	Topics to be Covered	Internal Assessment	Number of Lectures
July	Digital Systems and Binary numbers Introduction to Number systems, Positional Number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.		20
August	Logic gates and Logic Circuits Basic and Universal Gates Boolean algebra and Gate level minimization Introduction, Postulates of Boolean Algebra, Two Valued Boolean Algebra, Principle of Duality, Basic Theorems of Boolean Algebra.		12
September	Combinational logic Introduction, Analysis and Design Procedure for Combinational Logic Circuits, Types of Combinational Circuit, Review Questions Representation, Gate-Level Minimization (Simplification of Boolean Function), Quine-McCluskey Method, Review questions Sequential circuits Introduction, Latch, Flip-Flops, Registers, Counters, Review Questions		18
October	Applications Bit Arithmetic and Logic unit, Carry lookahead generator, Binary Multiplication and Division algorithm, Booth's multiplication algorithm		10

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M.L. Dahanukar College of Commerce

Teaching Plan: 2023 - 24

Department: I.T.

Class: F.Y.B.Sc.(I.T.)

Semester: I

Subject: Fundamentals of Database Management Systems

Name of the Faculty: Supritha Bhandary

Month	Topics to be Covered	Internal Assessment	Number of Lectures
July	Database system- concept and Architecture, Relational model and Relational database constraints. Relational Algebra. Conceptual modelling and database design: Data modelling using the Entity Relationship model (ER).		16
August	The enhanced entity relationship model. Relational database design by ER and EER model. Practical database design methodology and use of UML diagrams. Database Design theory and normalization: Basics of functional dependencies and normalization for relational databases.		24
September	Relational database design and further dependencies. Introduction to SQL, Complex queries, triggers, views, joining database tables and schema modification. Query Processing and optimization. File structure, hashing and indexing		12
October	Transaction management and concurrency control and recovery: Introduction to transaction processing concepts and theory. Concurrency control technique. Database recovery technique		08

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M.L. Dahanukar College of Commerce

Teaching Plan: 2023 - 2024

Department: I.T.

Class: **F.Y.B.Sc.(I.T.)**

Semester: I

Subject: Fundamental Of Database Management System

Name of the Faculty: Snehal S. Borlikar

Month	Topics to be Covered	Internal Assessment	Number of Lectures
July	Unit 1: Database system- concept and Architecture Unit 2: Conceptual modelling and database design		15
August	Unit 2: Conceptual modelling and database design: Unit 3: Database Design theory and normalization:		15
September	Unit 3: Database Design theory and normalization: Unit 4: Introduction to SQL		20
October	Unit 4: Introduction to SQL Unit 5: Transaction management and concurrency control and recovery		10

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M.L. Dahanukar College of Commerce

Teaching Plan: 2023 - 24

Department: I.T.

Class: F. Y. B. Sc.(I.T.)

Semester: I

Subject: COMPUTATIONAL LOGIC & DISCRETE STRUCTURE

Name of the Faculty: Mrs. Manisha Warekar

Month	Topics to be Covered	Internal Assessment	Number of Lectures
July	Set Theory Counting Probability		8 6 2
August	Probability Advance Counting Graph Theory Directed Graph		4 4 6 6
September	Relation Functions & Algorithm Binary Trees		6 6 6
October	Lattice		6

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M.L. Dahanukar College of Commerce

Teaching Plan: 2023 - 24

Department: I.T.

Class: **F.Y.B.Sc.(I.T.)**

Semester: I

Subject: Technical Communication Skills

Name of the Faculty: Kajal Shah

Month	Topics to be Covered	Internal Assessment	Number of Lectures
July	Unit I Chapter 1 full(Seven C's of Effective Communication) Chapter 2 , (Understanding Business Communication) 2.1 to 2.4		12
August	Unit 1, chapter 2 from 2.5. Unit II Chapter 3 full (Writing Business Messages and Documents) Ch 4. Developing Oral Communication Skills for Business.		20
September	Unit III & Unit IV full Ch. 5 Oral Communication Skills for Business and Communication Needs Ch.6 Understanding Specific Communication Needs.		20
October	Unit V Chapter 7 – Presentation Process		08

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