

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI
COURSE PLAN June - November 2024

Department : Computer Science
Name/s of the Faculty : Ms. Blessy Boaz, Dr. K.C.Sharmili
Course Title : **OBJECT ORIENTED PROGRAMMING**
Course Code : 23CS/MC/OP34
Shift : **II**

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	recall and reproduce basic concepts of object oriented programming	K1
CO2	explain the object oriented concepts, multithreading, generics and libraries	K2
CO3	utilize object oriented concepts and library to find a solution for simple problems	K3
CO4	select a suitable object oriented concept for the given problem	K4
CO5	build solution for a real world problem using the object oriented concepts, generics and libraries	K5, K6

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Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 19 – 26, 2024 (Day Order 1 - 6)	1	1.1 Basic Concepts Features of Java –Bytecode - Data Types – Variables – Arrays - Operators - Control Statements - Scanner – Javadoc	K1-K4	6	CO1-4	Brainstorming	Practical Exercise – Basic Java programs to familiarize with the language (eg: Swapping, Odd/Even, Armstrong, Fibonacci etc)
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	1.2 Classes, Objects and Constructors Classes - Overloading Methods- Overloading Constructors- Objects as Parameters - Returning Objects – Access Control - static - final - Nested and Inner Classes	K1-K6	6	CO1-5	Brainstorming	Practical Exercise (Student Management System with Class, constructor, overloading, Access control)
July 5 – 12, 2024 (Day Order 1 - 6)	2	2.1 Inheritance Inheritance Basics - Types of inheritance: Single, Multilevel, Hierarchical - Member Access - super	K1-K6	6	CO1-5	Trial & Error	Practical Exercise (Eg: Student Class, Sports Class, GPA Class)

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July 15 – 23, 2024 (Day Order 1 - 6)	2	Method Overriding - Dynamic Method Dispatch - Abstract Classes - final with Inheritance	K1-K6	6	CO1-5	Presentation	Practical Exercise (Eg: Student Class)
July 24 – 31, 2024 (Day Order 1 - 6)	2	2.2 Interfaces Defining an Interface- Implementing Interfaces- Partial Implementations – Applying Interfaces – Variables in Interfaces – Extending Interfaces	K1-K6	6	CO1-5	Presentation	Component 1: (20 marks) Quiz – OOPs concepts (Classes, Objects and Inheritance)
Aug 1 – 5, 2024 (Day Order 1 - 3)	3	3.1 Packages Defining a Package - Finding Packages and classpath –	K1-K6	3	CO1-5	Discussion	Questioning/ Discussion
Aug 6 – 10, 2024	C.A. Test – I						
Aug 12 – 14, 2024 (Day Order 4-6)	3	Access Protection – Importing Packages	K1-K6	3	CO1-5	Discussion	Questioning

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Aug 16 – 23, 2024 (Day Order 1-6)	3	3.2 Exception Handling Exception-Handling Fundamentals - Exception Types - Uncaught Exceptions – Using try and catch	K1-K6	6	CO1-5	Experiments	Practical Exercise (Eg: Student Class with exception)
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3	Multiple catch Clauses - Nested try Statements – throw – throws – finally - Java’s Built-in Exceptions	K1-K6	6	CO1-5	Experiments	Practical Exercise (Eg: Student Class with multiple catch clause exception)
Sep 4 – 11, 2024 (Day Order 1-6)	3	Creating Own Exception Subclasses - Checked and Unchecked Exceptions	K1-K6	6	CO1-5	Project Design	Project review
Sep 12 - 20, 2024 (Day Order 1-6)	4	4.1 Multithreaded Programming The Java Thread Model - Creating a Thread – Synchronization	K1-K3	6	CO1-3	Project Design	Project review

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Sep 23 - 26, 2024 (Day Order 1-4)	4	4.2 Generics - Simple Generics example, Generic Class with two type parameters, General form of a Generic class, Bounded Types	K1-K3	4	CO1-3	Project Design	Project review
Sep 27 – Oct 3, 2024	C.A. Test – II						
Oct 4 – 5, 2024 (Day 5 & 6)	5	5.1 Java Library String Handling – Exploring Java. Lang: Primitive type Wrappers	K1-K3	2	CO1-3	Presentation	Questioning
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	Number, Double and Float, Character – Math 5.2 Java.util Collection Framework - Interfaces: Collection, list,	K1-K3	6	CO1-3	Presentation	Component 2 : (30 marks) Miniproject(OOPs Concepts, Exception, Threading and, Collections)
Oct 16 - 22, 2024 (Day Order 1 to 6)	5	Enumeration, Iterator, List Iterator - Classes: Array List - Utility Classes - Random, Calendar	K1-K3	6	CO1-3	Presentation	Questioning/ Discussion
Oct 23 - 24, 2024 (Day Order 1 to 2)	REVISION						

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COURSE PLAN June - November 2024

Department : **COMPUTER SCIENCE**
Name/s of the faculty : **Ms. Roselin Clara. A [A] & Sr. Amutha [B]**
Course Title : **FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEMS**
Course Code : **23CS/MC/FD34**
Shift : **II**

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	recall and differentiate the flat file system with database management system and relational database	K1
CO2	explain the database design and modeling techniques with transaction and recovery management	K2
CO3	utilize relational data modeling and conceptual modelling in storing and retrieving data	K3
CO4	analyze relational database management techniques to store and manage data effectively	K4
CO5	develop a normalized database using SQL/PLSQL for any real time scenario	K5, K6

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Shift II

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 19 – 26, 2024 (Day Order 1 - 6)	1,3	1.1 Introduction to Databases Introduction - An example - Characteristics of the Database Approach - Actors on the Scene - Workers behind the Scene - Advantages of Using the DBMS Approach - A Brief History of Database Applications -When Not to Use a DBMS 3.1 Basic SQL SQL Data Definition - Data Types	K1-K3	4	1-3	Presentation	Questionnaire
			K1-K6	1	1-5	Doing by Learning	
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1,3	1.2 Database System Concepts and Architecture- Data Models, Schemas and Instances - Three Schema Architecture and Data Independence - Database Languages and Interfaces 3.1 Basic SQL Specifying Constraints in SQL-	K1-K3	3	1-3	Presentation	Questionnaire
			K1-K6	2	1-5	Doing by Learning	

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July 5 – 12, 2024 (Day Order 1 - 6)	1,3	The Database System Environment - Centralized and Client/Server Architectures for DBMSs - Classification of Database Management Systems 3.1 Basic SQL Basic Retrieval Queries in SQL- Insert, Delete and Update	K1-K3	2	1-3	Presentation	Discussion
		Statements in SQL- Additional Features of SQL	K1-K6	3	1-5	Doing by Learning	Exercises
July 15 – 23, 2024 (Day Order 1 - 6)	2	2.1 The Relational Data Model and Relational Database Constraints Relational Model Concepts - Relational Model Constraints and Relational Database Schemas - Update Operations, Transactions and Dealing with Constraint	K1-K6	5	1-5	Presentation	Component 1 for 25 marks MCQs from unit 1

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July 24 – 31, 2024 (Day Order 1 - 6)	2	2.2 Data Modeling Using the Entity-Relationship Model Using High-Level Conceptual Data Models for Database Design - A Sample Database Application - Entity Types, Entity Sets, Attributes and Keys - Relationship Types, Relationship Sets, Roles and Structural Constraints - Weak Entity Types - Refining the ER Diagram	K1-K6	5	1-5	Case Studies	Discussion
Aug 1 – 5, 2024 (Day Order 1 - 3)	2	ER Diagrams, Naming Conventions and Design Issues - Relationship Types of Degree Higher than Two	K1-K6	3	1-5	Presentation	Discussion
Aug 6 – 10, 2024	C.A. Test - I						
Aug 12 – 14, 2024 (Day Order 4-6)	3	3.2 More SQL: Complex Queries, Views and Schema Modification More Complex SQL Retrieval Queries -	K1-K6	2	1-5	Doing by Learning	Exercises

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Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Aug 16 – 23, 2024 (Day Order 1-6)	3	Specifying Constraints as Assertions – Views - Schema Change Statements in SQL 3.3 The Relational Algebra Unary Relational Operations: Select and Project - Relational Algebra Operations from Set Theory - Binary Relational Operations: Join and Division, Additional Relational Operations	K1-K6	5	1-5	Doing by Learning	Exercises
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3,4	Examples of Queries in Relational Algebra. 4.1 DB design and normalization Basics of Functional Dependencies and normalization for relational DB-relational: 1 NF, 2 NF, 3 NF and BCNF	K1-K6	5	1-5	Presentation	Questionnaire
Sep 4 – 11, 2024 (Day Order 1-6)	4	4.2 PL/ SQL PL/ SQL Blocks – Architecture - Data Types and their usage - Control Structures - Exceptions - Predefined	K1-K6	5	1-5	Presentation	Questionnaire
Sep 12 - 20, 2024 (Day Order 1-6)	4	User Defined Cursors and Triggers: Introduction – Cursors - Cursor Management – Procedures – Functions - Triggers and its types	K1-K6	5	1-5	Presentation	Questionnaire

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Sep 23 - 26, 2024 (Day Order 1-4)	5	5.1 Transaction processing and Concurrency control Transaction and system concepts, desirable properties of transactions	K1-K2	3	1-2	Presentation	Discussion
Sep 27 – Oct 3, 2024	C.A. Test - II						
Oct 4 – 5, 2024 (Day 5 & 6)	5	characterizing schedules based on recoverability and serializability	K1-K2	1	1-2	Presentation	Discussion
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	transaction support in SQL	K1-K2	5	1-2	Presentation	Component 2 for 25 marks 2 mark interview questions with few MCQs from unit 3,4
Oct 16 - 22, 2024 (Day Order 1 to 6)	5	Concurrency control techniques, validation concurrency control techniques.	K1-K2	5	1-2	Presentation	Discussion
Oct 23 - 24, 2024 (Day Order 1 to 2)	REVISION						

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Department : Computer Science
Name/s of the Faculty : Dr. I. Diana Judith and Ms. Geethanjali S.
Course Title : Software Engineering and Testing
Course Code : 23CS/MC/TE34
Shift : II

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	Recall the software process models and the phases of a software project	K1
CO2	Compare different software development process models and distinguish the appropriate models for real time project	K2
CO3	Apply the knowledge, techniques and skills in the development of a software product.	K3
CO4	Design an appropriate architectural model and test the application	K4
CO5	Choose the software process models and testing techniques for an application	K5

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Course Code : 23CS/MC/TE34
Shift : II

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 19 – 26, 2024 (Day Order 1 - 6)	1	1.1 Software Engineering Nature of Software -Software Process - Principles 1.2 Software process models Defining a framework activity, Waterfall model	K1-K3	5	1-3	Lecture/ Demo / Case Studies are given for students to build solutions to problems	Brainstorming, Group Discussion
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	Incremental process models, RAD model 1.3 Agile development Agility - Principles of an Agile process	K1-K3	5	1-3	Lecture/ Demo / Case Studies are given for students to build solutions to problems	Brainstorming, Group Discussion
July 5 – 12, 2024 (Day Order 1 - 6)	1	Extreme programming(XP) - XP process –Scrum 2.1 Understanding Requirements Requirement Engineering- Establishing the Groundwork	K1-K3 K1-K5	2 3	1-3 1-5	Lecture/ Demo / Case Studies are given for students to build solutions to problems	Component I – Part 1: Drawing UML Diagrams for Mini-Project [10 marks]

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July 15 – 23, 2024 (Day Order 1 - 6)	2	Eliciting Requirements – developing use cases - building the requirements model - negotiating requirements - validating requirements	K1-K5	5	1-5	Lecture/ Demo	Practical – Collecting requirements for a project
July 24 – 31, 2024 (Day Order 1 - 6)	2	2.2 Requirements Modelling Analysis Rules of Thumb - domain analysis -UML models that supplement use case	K1-K5	5	1-5	Lecture/ Demo	Practical – design UML diagrams
Aug 1 – 5, 2024 (Day Order 1 - 3)	2	Data modelling concepts - class based modelling	K1-K5	3	1-5	Lecture/ Demo	Component I – Part 2 : Drawing UML Diagrams for Mini-Project in Star UML [15 marks]
Aug 6 – 10, 2024	C.A. Test - I						
Aug 12 – 14, 2024 (Day Order 4-6)	3	3.1 Software Testing Software Testing Techniques	K1-K5	2	1-5	Lecture/ Demo	Q&A

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Aug 16 – 23, 2024 (Day Order 1-6)	3	Test Case Design - Unit testing - Integration testing - Test driven development -Validation testing, alpha & beta Testing	K1-K5	5	1-5	Lecture/ Demo	Practical – Writing Manual Test Cases
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3	System testing White-Box testing - Basis Path Testing	K1-K5	5	1-5	Lecture/ Demo	Practical – Writing Automated Test Cases using JUnit
Sep 4 – 11, 2024 (Day Order 1-6)	3	Control Structure Testing - Black-Box Testing	K1-K5	5	1-5	Lecture/ Demo	Component II – Part 1: Writing Manual Test Cases for Mini-Project – 15 marks
Sep 12 - 20, 2024 (Day Order 1-6)	4	4.1 Quality Management Mccall’s Quality factors – Quality assurance – Review – Informal Reviews-Formal Technical reviews– Walkthrough – Inspection	K1-K5	5	1-5	Lecture/ Demo	Case study

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Sep 23 - 26, 2024 (Day Order 1-4)	4	4.2 Project metrics Size-Oriented metrics, LOC, Function Point	K1-K5	3	1-5	Lecture/ Demo	Component II – Part 2 : Testing Mini Project using Automated testing : Junit – 10 marks
Sep 27 – Oct 3, 2024	C.A. Test - II						
Oct 4 – 5, 2024 (Day 5 & 6)	4	4.3 Software Configuration Management Software Configuration Management – The SCM Repository, The SCM Process	K1-K3	2	1-3	Lecture/ Demo	Discussion
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	5.1 Project Management Concept The Management Spectrum – People - The Product - The Process – The Project - The W5HH Principle.	K1-K3	5	1-3	Lecture/ Demo	Discussion

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Oct 16 - 22, 2024 (Day Order 1 to 6)	5	5.2 Estimation for Software Project The Project Planning Process - Software Scope and Feasibility – Resources - COCOMO Model - Reactive Vs Proactive Risk Strategies – RMMM plan	K1-K3	5	1-3	Lecture/ Demo	Discussion
Oct 23 - 24, 2024 (Day Order 1 to 2)	REVISION						

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Department : **COMPUTER SCIENCE**
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Course Title : **DATABASE MANAGEMENT SYSTEMS PRACTICAL**
Course Code : **23CS/MC/P132**
Shift : **II**

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	recall the fundamentals concepts of relational database management system	K1
CO2	demonstrate the sql queries and pl/sql procedures, functions, cursors, error handling and triggers	K2
CO3	apply sql commands and pl/sql to store and retrieve data from the database	K3
CO4	examine the database design and relational database management	K4
CO5	design and create database along with normalization, keys and constraint	K5, K6

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Shift II

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Jun 19 – 26, 2024 (Day Order 1 - 6)	3	Schema design	K1-K6	4	1-5	Demonstration	Practical exercises
Jun 27 – July 4, 2024 (Day Order 1 - 6)	2	ER modeling using a tool	K1-K6	4	1-5	Demonstration	Case study presentation
July 5 – 12, 2024 (Day Order 1 - 6)	3	DDL commands DML and TCL commands	K1-K6	4	1-5	Demonstration	Practical exercises
July 15 – 23, 2024 (Day Order 1 - 6)	3	Sub queries	K1-K6	4	1-5	Demonstration	Component 1 for 25 marks as a Mini project phase 1 *Choose the application *Draw the ER diagram for the same using the tool *Apply schema creation and commands till subqueries.
July 24 – 31, 2024 (Day Order 1 - 6)	3	Single Row and Aggregate functions	K1-K6	4	1-5	Demonstration	Practical exercises

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Aug 1 – 5, 2024 (Day Order 1 - 3)	3	Set operations.	K1-K6	4	1-5	Demonstration	Practical exercises
Aug 6 – 10, 2024	C.A. Test - I						
Aug 12 – 14, 2024 (Day Order 4-6)	3	Joins	K1-K6	4	1-5	Demonstration	Practical exercises
Aug 16 – 23, 2024 (Day Order 1-6)	3	Views, index, synonyms and sequence	K1-K6	4	1-5	Demonstration	Practical exercises
Aug 27 – Sep 3, 2024 (Day Order 1-6)	4	SQL programming	K1-K6	4	1-5	Demonstration	Practical exercises
Sep 4 – 11, 2024 (Day Order 1-6)	4	SQL programming	K1-K6	4	1-5	Demonstration	Practical exercises
Sep 12 - 20, 2024 (Day Order 1-6)	4	Cursors	K1-K6	4	1-5	Demonstration	Practical exercises

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Sep 23 - 26, 2024 (Day Order 1-4)	4	Procedures & Functions	K1-K6	4	1-5	Demonstration	Practical exercises
Sep 27 – Oct 3, 2024	C.A. Test – II						
Oct 4 – 5, 2024 (Day 5 & 6)	4	Report generation	K1-K6	4	1-5	Demonstration	Practical exercises
Oct 7 - 15, 2024 (Day Order 1 to 6)	4	Triggers	K1-K6	4	1-5	Demonstration	Component 2 for 25 marks as a Mini project phase II *Apply joins, views, index with cursors and sql programming *Report generation
Oct 16 - 22, 2024 (Day Order 1 to 6)	4	Exception Handling	K1-K6	4	1-5	Demonstration	Practical exercises
Oct 23 - 24, 2024 (Day Order 1 to 2)	REVISION						

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Department : Computer Science
Name/s of the Faculty : Ms. Rajalakshmi. S , Ms. Nancy Arokia Rani.S
Course Title : IMAGE EDITING AND DOCUMENTATION
Course Code : 23CS/MC/ID31
Shift : II

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	recall and relate image editing using GIMP, documentation using word processing and tables, charts using excel	K1
CO2	explain the textures, logos and animation using GIMP and also formatting options in word document and excel for personal, academic and business sectors	K2
CO3	apply the tools and techniques to edit an image and to format a document/Spreadsheet/Presentation	K3
CO4	examine the tools and techniques in GIMP, Word document, Spreadsheet and Presentation	K4
CO5	design an image using the design elements and create a report as well as presentation with proper formatting	K5, K6

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Course Title : IMAGE EDITING AND DOCUMENTATION
Course Code : 23CS/MC/ID31
Shift : II

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 19 – 26, 2024 (Day Order 1 - 6)		Photo Editing GIMP Basics – Image Handling Basics - Working with Images - Photograph Retouching	K1	1	1	Participatory Learning	Discussion
Jun 27 – July 4, 2024 (Day Order 1 - 6)		Global Transformations – Local Transformations – Painting and Drawing - Dodging	K1	1	1	Participatory Learning	Quiz
July 5 – 12, 2024 (Day Order 1 - 6)		Burning and Smudging – Selections, Overlaying and Blending Modes – Digital Collage	K1	1	1	Learning by Doing	Practical Exercise
July 15 – 23, 2024 (Day Order 1 - 6)		Textures, Logos and 2D Animation Creating Textures – Logos - Animation	K2	1	2	Learning by Doing	Practical Exercise
July 24 – 31, 2024 (Day Order 1 - 6)		Building an Animated GIF by Hand - Using Animation Tools – Using GAP	K2	1	2	Learning by Doing	Practical Exercise
Aug 1 – 5, 2024 (Day Order 1 - 3)		Designing a Website Laying Out a Website – Fixed and Variable Width Designs	K3	1	3	Project Designs	Presentation

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Course Code : 23CS/MC/ID31
Shift : II

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Aug 6 – 10, 2024	C.A. Test - I						
Aug 16 – 23, 2024 (Day Order 1-6)		Web Design Tools – Optimizing Images for the Web	K3	1	3	Project Designs	component 1: Topic: Poster making Total marks: 25 Assessment Type: Using Image Editing tool (GIMP)
Aug 27 – Sep 3, 2024 (Day Order 1-6)		Word Processing: Introduction – The Style Advantage, Outlining, - Autocorrect – Compatibility with previous versions of word –Drawing Canvas –Styles and Character/Font Formatting - Bullets and Numbering – Character Formatting –Paragraph Formatting –Styles and paragraph Formatting - Structural Formatting, paragraph Decoration - Find, Replace and GO To - Language Tools –AutoCorrect – Auto Format – Tables – Pictures and SmartArt – Headers and Footers –	K3	1	3	Experiential Learning	Practical Exercise

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Sep 4 – 11, 2024 (Day Order 1-6)		Symbols and Equations –Charts – Inserting Objects and Files –Blogging- Templates and Themes Bookmarks –Tables of Contents – Footnotes and Endnotes -Citations and Bibliography - Indexing - Table of Authorities –Hyperlinks and Cross-References –Envelopes and Labels - Data Documents and Mail Merge –The Ribbon -Security, Tracking and Comments - Protection Type - Integration with other office Applications –Excel, PowerPoint	K4	1	4	Experiential Learning	Practical Exercise
Sep 12 - 20, 2024 (Day Order 1-6)		Spreadsheet Data entry, Using formulae and functions, Formatting data, Creating charts, List, Sorting, Filtering, Working with forms, Grouping, Linking and Protecting sheets, Data validation, printing spreadsheets. Tool: MS-Excel	K4	1	4	Experiential Learning	Practical Exercise

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Sep 23 - 26, 2024 (Day Order 1-4)		Presentation Tool Introduction to PowerPoint – Changing the view – Creating a good presentation - Creating and saving Presentation Files – Creating New Slides and Text Boxes Working with Layout, Themes and Masters – Formatting Text – Formatting Paragraphs – Correcting and Improving Text	K5, K6	5		Project Designs	Presentation
Sep 27 – Oct 3, 2024	C.A. Test – II						
Oct 7 - 15, 2024 (Day Order 1 to 6)		Creating and Formatting Tables- Creating SmartArt Diagrams - Importing Image Files into PowerPoint – Compressing Images – Creating a Photo Album - Layout – Working with Charts- Working with External Content - Copying Content from Other Programs - Adding Sound Effects - Music and Soundtracks	K5,K6	1	5	Problem Solving	Component 2: Topic: Preparing a detailed report for a College Event Total marks: 25 Assessment Type: Using Word processing software and spreadsheet.

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Oct 16 - 22, 2024 (Day Order 1 to 6)		Creating Animation Effects and Transitions – Creating Support Materials –Preparing for a Live Presentation –Limiting User Access to a Presentation CANVA - Presentation Template –Tools and Features – Downloading and Sharing	K5,K6	1	5	Experiential Learning	Practical Exercise
Oct 23 - 24, 2024 (Day Order 1 to 2)	REVISION						