

Lesson Plan July-Dec 2018

Name: Komal Bansal

Class: BCA 5th Sem

Subject: Visual Basic

Paper Code: PAPER CODE- BCA-304

Month	Syllabus to be covered
16 July to 21 July	Unit-I: Fundamentals of Visual Basic , Visual & non-visual programming
23 July to 28 July	Procedural, Object-oriented Paradigm, Differences
30 July to 4 Aug	Eventdriven programming languages, The VB environment: Menu bar, Toolbar
6 Aug to 11 Aug	Project explorer, Toolbox, Properties window
13 Aug to 18 Aug	Form designer, Form layout, Immediate window, Visual Development
20 Aug to 25 Aug	Basics of Programming: Variables: Declaring variables, Types of variables, Converting variables types, User-defined data types, Assignment-1 Test-1
27 Aug to 1 Sep	Forcing variable declaration, Scope & lifetime of variables. Constants: Named & intrinsic. Operators: Arithmetic, Relational & Logical operators.
3 Sep to 8 Sep	I/O in VB: Various controls for I/O in VB, Message box, Input Box, Print statement. Programming with VB: Decisions and conditions: If statement, If-then-else, Select-case. Test unit 2
10 Sep to 15 Sep	Looping statements: Do-loops, For-next, While-wend, Exit statement. Nested control structures. Programming Practice
17 Sep to 22 Sep	Arrays: Declaring and using arrays, one-dimensional and multi-dimensional arrays, Static & dynamic arrays, Arrays of array.
24 Sep to 29 Sep	Collections: Adding, Removing, Counting, Returning items in a collection, Processing a collection. Assignment 2
1 Oct to 6 Oct	menu designing in VB, creating menu, submenu, popup menus, Programming practice, Doubt session, test unit 3
8 Oct to 13 Oct	Programming with VB: Procedures: General & event procedures, Subroutines
15 Oct to 20 Oct	Functions, Calling procedures, Arguments- passing mechanisms, Optional arguments, Named arguments. Load & unload statements,
22 Oct to 27 Oct	Functions returning custom data types, Functions returning arrays. Working with forms and menus : Adding multiple forms in VB, Hiding & showing forms
29 Oct to 3 Nov & 5 Nov	Activate & deactivate events, Form-load event. Test complete syllabus
6 Nov to 13 Nov	Vacations

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Name: Komal Bansal

Class: BSc. Maths (H)

Subject: Database Management System and Oracle

Paper Code: BHM 236 Opt(i)

Month	Syllabus to be covered
16 July to 21 July	Basic Concepts: File systems vs DBMS, advantages and disadvantages of DBMS
23 July to 28 July	objectives of a database. Database systems concepts and architecture.
30 July to 4 Aug	Data Modeling for a database: records and files, abstraction and data integration.
6 Aug to 11 Aug	Functions of DBMA, role of DBA Test Unit 1, Assignment 1
13 Aug to 18 Aug	Database Management System: Relational, Network, and Hierarchical.
20 Aug to 25 Aug	Relational Data Manipulations: Relational Algebra
27 Aug to 1 Sep	Relational Calculus, SQL
3 Sep to 8 Sep	Relational Database Design: Functional dependencies, Finding keys
10 Sep to 15 Sep	1st to 3rd NFs, CNF, Lossess Join and Dependency preserving decomposition. Test unit 2
17 Sep to 22 Sep	Query Processing: General strategies for query processing, query optimization, query processor. Database security issues and recovery techniques.
24 Sep to 29 Sep	Introduction to Oracle: Modules of Oracle, Invoking SQLPLUS, Data types, Data Constraints, Operators, Data manipulation: Create, Modify, Insert, Delete and Update; Searching, Matching and Oracle Functions. Assignment 2
1 Oct to 6 Oct	SQL*Forms: Form Construction, user-defined form, multiple-record form, Master-detail form. PL/SQL Blocks in SQL*Forms, PL/SQL syntax, Data types,
8 Oct to 13 Oct	PL/SQL functions, Error handling in PL/SQL, package functions, package procedures, Oracle transactions. Tets unit 3
15 Oct to 20 Oct	SQL*ReportWriter: Selective dump report, Master-detail Report, Control-break Report, Test report. Database Triggers: Use & type of database Triggers, Database Triggers Vs SQL*Forms
22 Oct to 27 Oct	Database Triggers Vs. Declarative Integrity Constraints, BEFORE vs AFTER Trigger Combinations, Creating a Trigger, Dropping a Trigger.
29 Oct to 3 Nov & 5 Nov	Revision, Doubt Session, test- complete syllabus
6 Nov to 13 Nov	Vacations