**DR. B.R. AMBEDKAR GOVT. COLLEGE, KAITHAL**

**Lesson Plan: Even Semester (2024-25) Class: BCA 6thSem**

**Subject:** Advanced Programming with Visual Basic **Subject: BCA 365**

**Teacher name: Dr. Naveen Verma**

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| Week | Topic |
| Week 1 | Collections: Adding, Removing, Counting, Returning Items in a Collection |
| Week 2 | Processing a Collection; Working with Forms: Form Properties, Creating, Adding, Removing Forms in Project |
| Week 3 | Adding Multiple Forms, Managing Forms at Run Time, Hiding & Showing Forms, Load & Unload Statements |
| Week 4 | Drag and Drop Operation, Activate & Deactivate events, Form-load event, Example using Forms |
| Week 5 | Programs in VB using Forms, Working with Menu: Menu Designing in VB, Adding a Menu to a Form |
| Week 6 | Modifying and Deleting Menu Items, Adding Access Characters, Adding Shortcut Keys |
| Week 7 | Manipulating Menus using Common Dialog Box, Attaching Code to Events, Creating Submenus |
| Week 8 | Dynamic Menu Appearance Advanced Controls in VB, Scroll Bar, Slider Control, Tree View |
| Week 8 | List View, Rich Text Box Control, Toolbar, Status Bar, Progress Bar, Cool bar |
| Week 9 | Image List Program Development in VB using Menus and Advance Controls |
| Week 10 | File Handling & File Controls: Sequential & Random files, Opening and Closing Data Files |
| Week 11 | Viewing the Data in a File, Performing Operations on a File, Creating a Sequential Data File |
| Week 12 | Writing Data to a Sequential File, Reading the Data in a Sequential File, Finding the End of a Data File, Locating a File |
| Week 13 | Reading and Writing a Random File (get, put, LOF, seek). Working with Graphics: Using Paint, Line, Circle, Manipulating Graphics Program Development in VB using Files and Graphics |
| Week 14 | Revision |

Signature

**DR. B.R. AMBEDKAR GOVT. COLLEGE, KAITHAL**

**Lesson Plan: Even Semester (2024-25) Class: BCA 4th Sem**

**Subject:** Software Testing **Course Code: B23-VOC-216**

**Teacher name: Dr. Naveen Verma**

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| Week | Topic |
| Week 1 | Definition of Software Testing and its Role,Failure, Error, Fault, Defect, Bug |
| Week 2 | Goals of Testing, Principles of Testing, Software Testing Life Cycle, Verification and Valildatoin |
| Week 3 | V-testing life cycle. Types of Testing: Black box testing: Overview, Techniques. |
| Week 4 | Boundary Value Analysis, Equivalence class testing, Decision table. |
| Week 5 | White box testing: Need of white box testing, Classification, Structural: Coverage, Path Testing |
| Week 6 | Levels of Testing, Unit testing: Overview, Integration testing: Overview, Techniques: Graph based & Path based, Functional testing. |
| Week 7 | System testing: Overview, Categories: Reliability security performance recovery |
| Week 8 | Acceptance testing: Overview, Types of Acceptance testing |
| Week 8 | Test Planning: Preparing a Test Plan, Scope management |
| Week 9 | Decide test approach, Setting up criteria for testing, Identifying responsibilities, Staffing, Training needs |
| Week 10 | Resource requirements, Test delilverables, Testing Tasks |
| Week 11 | Prepare a small project and submit SRS design, coding and test plan |
| Week 12 | Manual Testing for the project   1. White box testing 2. Black box testing |
| Week 13 | Functional Testing: Boundary value testing, Equivalence class testing, Structural testing: Path testing, Data flow testing |
| Week 14 | Revision |

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