**Lesson Plan**

**Name of the Assistant Professor**- Ms. Shilpa Chaudhary

**Subject**- Computer Science & Applications

**Lesson Plan**- 17 Weeks (July-Nov 2018)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week** | **Date** | **BCA (Vth Sem)**  **BCA-355:**  **Programming Using Visual Basic** | **BCA(3rd Sem)**  **Computer And Programming Fundamental** | **B.Com CAV(1st Sem)**  **BC(Voc)-106** **BUSINESS DATA PROCESSING AND PC SOFTWARE-I** | **M.Com(2nd Sem)**  **MC 301 COMPUTER APPLICATIONS IN BUSINESS** |
| 1 | 16-July-18 |  | Introduction: Program vs. Software, Software Engineering |  | Computer System: Meaning, scope |
| 17-July-18 |  | Programming paradigms |  | Computer System: types |
| 18-July-18 |  | Revision |  | Basic computer organization: Central Processing Unit |
| 19-July-18 | Introduction to VB: Visual & Non-Visual programming |  | Data processing | Basic computer organization: Central Processing Unit |
| 20-July-18 | Procedural, Object-Oriented, Object-Based and Event-Driven Programming Languages |  | Data processing(with Examples) | Revision |
| 21-July-18 | VB as Even-Driven and Object-Based Language |  | various business functions | Class Test |
| 22-July-18 | Sunday | | | |
| 2 | 23-July-18 |  | Software Crisis – problem and causes, Phases in Software development: Requirement Analysis |  | input, output |
| 24-July-18 |  | Software Design, Coding |  | input, output |
| 25-July-18 |  | Testing, Maintenance |  | storage devices |
| 26-July-18 | Revision |  | Revision | storage devices |
| 27-July-18 | VB Environment: Menu bar, Toolbar, |  | use of computers in data processing and in carrying out business functions | Revision |
| 28-July-18 | Assignments |  | use of computers in data processing and in carrying out business functions. | Power Point Assignments |
| 29-July-18 | Sunday | | | |
| 3 | 30-July-18 |  | Waterfall model |  | Introduction to software |
| 31-July-18 | Shaheedi udham singh’s martyrdom day | | | |
| 1-Aug-18 |  |  |  | System software |
| 2-Aug-18 | Project explorer, Toolbox |  | concepts of data and information | operating system, user interface |
| 3-Aug-18 | Assignments on toolbox |  | Class Test | - operating system, user interface and its types |
| 4-Aug-18 | Properties Window, Form Designer, Form Layout |  | characteristics of information | Oral Test |
| 5-Aug-18 | Sunday | | | |
| 4 | 6-Aug-18 |  | Waterfall model |  | Assignment |
| 7-Aug-18 |  | Prototype, Evolutionary model |  | Revision |
| 8-Aug-18 |  | Spiral model |  | Application software - word processing |
| 9-Aug-18 | Revision(VB as Even-Driven and Object-Based Language) |  | economics of business data processing | Spreadsheets(with Example) |
| 10-Aug-18 | Form Designer, Form Layout, Immediate window |  | impact of data processing on business organizations | Spreadsheets(With Examples |
| 11-Aug-18 | Default Controls in Tool Box Visual Development and Event Driven programming |  | information and product flow in production environment | Introduction to databases |
| 12-Aug-18 | Sunday | | | |
| 5 | 13-Aug-18 | Haryali teej | | | |
| 14-Aug-18 |  | Spiral model |  | Tables(with examples) |
| 15-Aug-18 | Independence day | | | |
| 16-Aug-18 | Default Controls in Tool Box Visual Development and Event Driven programming |  | concepts of records and files | queries, reports(with Examples) |
| 17-Aug-18 | Basics of Programming: Variables: Declaring Variables |  | Revision | queries, reports(with Examples) |
| 18-Aug-18 | Types of variables, Converting Variables Types |  | Assignment | Oral Test |
| 19-Aug-18 | Sunday | | | |
| 6 | 20-Aug-18 |  | Class Test |  | Assignment |
| 21-Aug-18 |  | Role of Metrics |  | form generation in Data base |
| 22-Aug-18 | Id-ul-zuha(bakrid) | | | |
| 23-Aug-18 | Written Test |  | various types of file organizations | Tables(with examples) |
| 24-Aug-18 | User Defined Data Types, Forcing Variable Declaration |  | data capturing, data preparation | Class Test |
| 25-Aug-18 | Scope & Lifetime of Variables |  | data verification and validation, and data editing. | Fuzzy Logic |
| 26-Aug-18 | Sunday | | | |
| 7 | 27-Aug-18 |  | Feasibility Study, Software Requirement Analysis and Specifications: SRS |  | Fuzzy Logic |
| 28-Aug-18 |  | Need for SRS, Characteristics of an SRS, Components of an SRS |  | Fuzzy Logic(with Examples) |
| 29-Aug-18 |  | Problem Analysis, Information gathering tools |  | Main Memory |
| 30-Aug-18 | Scope & Lifetime of Variables |  | Word processing: application of word processing | Types of main Memory |
| 31-Aug-18 | With example(Scope & Lifetime of Variables) |  | menus and tool bars | Types of main Memory |
| 1-Sep-18 | Constants: Named & Intrinsic |  | Revision | Oral Test |
| 2-Sep-18 | Sunday | | | |
| 8 | 3-Sep-18 | Janmashtmi | | | |
| 4-Sep-18 |  | Assignments |  | Secondary Memory |
| 5-Sep-18 |  | Oral Test |  | Types of Secondary Memory |
| 6-Sep-18 | Operators: Arithmetic, Relational & Logical operators |  | word processor: creating, entering, saving and printing the document | Types of Secondary Memory |
| 7-Sep-18 | Operators: Arithmetic, Relational & Logical operators |  | editing and formatting text | Information Technology in Business |
| 8-Sep-18 | Oral Test |  | mail merge and macros | Revision |
| 9-Sep-18 | Sunday | | | |
| 9 | 10-Sep-18 |  | Organizing and structuring information, Requirement specification |  | Concept of information technology |
| 11-Sep-18 |  | validation and Verification. . SCM |  | Concept of information technology |
| 12-Sep-18 |  | SCM -Revision |  | LAN |
| 13-Sep-18 | Input/output in VB: Various Controls for I/O |  | mail merge and macros(with Example) | MAN |
| 14-Sep-18 | Assignment |  | Spreadsheet: application | WAN |
| 15-Sep-18 | Message box, Input Box, Print statement |  | Assignment | Transmission Media |
| 16-Sep-18 | Sunday | | | |
| 10 | 17-Sep-18 |  | Structured Analysis and Tools: Data Flow Diagram, Data Dictionary |  | Transmission Media |
| 18-Sep-18 |  | Decision table, Decision tress, Structured English |  | Revision |
| 19-Sep-18 |  | Entity-Relationship diagrams |  | Class Test |
| 20-Sep-18 | Decision Statements in VB - if statement, if-then-else |  | menus and tool bar | topologies and Wide Area Networks |
| 21-Sep-18 | select-case; Looping Statements in VB: do-loop, for-next |  | menus and tool bar | topologies and Wide Area Networks |
| 22-Sep-18 | while-wend; Exit statement, Nested Control Structure |  | Class Test | Assignment |
| 23-Sep-18 | Sunday | | | |
| 11 | 24-Sep-18 |  | Entity-Relationship diagrams(with examples) |  | Electronic data processing |
| 25-Sep-18 |  | Power point Assignments |  | Electronic data processing |
| 26-Sep-18 |  | Cohesion and Coupling |  | Revision |
| 27-Sep-18 | Programming Examples of loops |  | data verification and validation, and data editing(Revision) | Intranet and extranet |
| 28-Sep-18 | Programming Examples of loops |  | preparing tables in excel | Intranet and extranet(with Examples) |
| 29-Sep-18 | Arrays: Declaring and using Arrays, One-dimensional, Two-dimensional and Multi-dimensional Arrays |  | charts, sorting | Revision |
| 30-Sep-18 | Sunday | | | |
| 12 | 1-Oct-18 |  | Gantt chart, PERT Chart |  | Power Point assignment |
| 2-Oct-18 | Mahatma gandhi’s jayanti | |  | Intranet and extranet evolution |
| 3-Oct-18 |  | Software Maintenance: Type of maintenance, Management of Maintenance |  | World Wide Web |
| 4-Oct-18 | Two-dimensional and Multi-dimensional Arrays with example |  | charts, sorting | World Wide Web |
| 5-Oct-18 | Static and Dynamic arrays, Array of Arrays. |  | running statistical applications in Excel and Libra Office Calc | Revision |
| 6-Oct-18 | Static and Dynamic arrays, Array of Arrays. |  | running statistical applications in Excel and Libra Office Calc | Multimedia technologies |
| 7-Oct-18 | Sunday | | | |
| 13 | 8-Oct-18 |  | Maintenance Process, maintenance characteristics. |  | Multimedia technologies |
| 9-Oct-18 |  | Revision |  | Revision |
| 10-Oct-18 | Maharaja aggarsen jayanti | | | |
| 11-Oct-18 | Class Test |  | Revision | Types Of Multimedia technologies |
| 12-Oct-18 | Simple Program Development in VB such as Sum of Numbers, Greatest among Numbers |  | Class Test | Test |
| 13-Oct-18 | Named Arguments, Functions Returning Custom Data Type |  | creating formulae in spreadsheets | Video conferencing |
| 14-Oct-18 | Sunday | | | |
| 14 | 15-Oct-18 |  | Software Project Planning: Cost estimation: COCOMO model |  | Video conferencing |
| 16-Oct-18 |  | COCOMO model |  | Types of Video conferencing |
| 17-Oct-18 |  | Project scheduling, Staffing and personnel planning |  | Revision |
| 18-Oct-18 | Dussehra | | | |
| 19-Oct-18 | Calling Procedures, Arguments - Passing Mechanisms, Optional Arguments |  | RDBMS software: an overview. | Assignment |
| 20-Oct-18 | Checking Even/Odd Number, HCF of Two Numbers |  | RDBMS software: an overview. | Broadband networks |
| 21-Oct-18 | Sunday | | | |
| 15 | 22-Oct-18 |  | team structure, Software configuration management |  | Broadband networks; |
| 23-Oct-18 |  | Quality assurance plans |  | Broadband networks; |
| 24-Oct-18 | Maharishi valmiki’s birthday | | | |
| 25-Oct-18 | Procedures: General & Event Procedures, Subroutines, Functions |  | Class Test | Revision |
| 26-Oct-18 | Generate Fibonacci Series, Generate Prime Numbers |  | creating formulae in spreadsheets(Revision) | Planning and designing web pages |
| 27-Oct-18 | Factorial of a Number, Searching, Sorting |  | Power Point Assignments | Basic tags in HTML |
| 28-Oct-18 | Sunday | | | |
| 16 | 29-Oct-18 |  | Project monitoring plans, Risk Management |  | Basic tags in HTML |
| 30-Oct-18 |  | Software testing strategies: unit testing, integration testing, Validation testing, System testing, Alpha and Beta testing |  | Linking and Insert Image in Html |
| 31-Oct-18 |  | Software testing strategies: unit testing, integration testing, Validation testing, System testing, Alpha and Beta testing |  | Tables, List, form in Html |
| 1-Nov-18 | Haryana day | | | |
| 2-Nov-18 | Factorial of a Number, Searching, Sorting |  | Revision | Class Test |
| 3-Nov-18 | Revision |  | Revision | Tables, List, form in Html |
| 4-Nov-18 | Sunday | | | |
| 17 | 5-Nov-18 |  | Revision |  | Tables, List, form in Html |
| 6-Nov-18 | Holiday  Diwali  Holiday  Vishavkarma day  Holiday  Sunday  Holiday  Holiday | | | |
| 7-Nov-18 |
| 8-Nov-18 |
| 9-Nov-18 |
| 10-Nov-18 |
| 11-Nov-18 |
| 18 | 12-Nov-18 |
| 13-Nov-18 |
| 14-Nov-18 |  | Revision |  | Revision |