**Lesson plan**

**Name of the Assistant Professor**- Ms. Nidhi sharma

**Subject**- Computer Science & Applications

**Lesson plan**- 17 weeks (July-Nov 2018)

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| **Week** | **Date** |  **B.VOC.(SD) (Ist SEM)** **Computer Fundamentals** | **B.VOC.(SD) (IIIrd SEM)** **Object Oriented Programming With C++** | **B.VOC.(SD) (Vth SEM)****Advanced Java** |
| 1 | 16-July-18 | Introduction to computers | Introduction to programming C++ | Introduction to advanced java |
| 17-July-18 | Advantages | Why it is used | Applet |
| 18-July-18 | Characteristics of computer system | Object-oriented features of C++ | Basic program of applet |
| 19-July-18 | Basic components of a digital computer | Class and objects | Applet life cycle |
| 20-July-18 | Revision | Data hiding & encapsulation | Applet class |
| 21-July-18 | Revision | Revision | Revision |
| 22-July-18 | Sunday |
| 2 | 23-July-18 | Control unit, alu, input/output function and memory | Inheritance | Applet context class |
| 24-July-18 | Memory addressing capability of a cpu | Polymorphism and dynamic binding | Passing parameters to applet |
| 25-July-18 | Memory addressing capability of a cpu | Message passing | Use of java.awt graphics class and its various methods in an applet |
| 26-July-18 | Test | Test | Graphics methods |
| 27-July-18 | Word length of a computer | Structures | Graphics methods |
| 28-July-18 | Revision |  data members and member functions | Revision |
| 29-July-18 | Sunday |
| 3 | 30-July-18 | Problem session | Revision | Test |
| 31-July-18 | Shaheedi udham singh’s martyrdom day |
| 1-Aug-18 | Evolution of computer | Basic c++ program | Event handling |
| 2-Aug-18 | Generations 1 | Various header files | Event delegation |
| 3-Aug-18 | Generations 2 , 3 | Inline functions | Model or event class hierarchy |
| 4-Aug-18 | Generations 4, 5 | Static data members | All classes and interfaces of event delegation model |
| 5-Aug-18 | Sunday |
| 4 | 6-Aug-18 | Quiz | Test | All classes and interfaces of event delegation model |
| 7-Aug-18 | Types of computer | Member functions |  classes and interfaces of event delegation model |
| 8-Aug-18 | Revision | Revision | Classes and interfaces of event delegation model |
| 9-Aug-18 | Presentation session |  friend functions |  classes and interfaces of event delegation model |
| 10-Aug-18 | Presentation session | Program on friend functions | Revision |
| 11-Aug-18 | Presentation session | Program on friend functions | Programs related to event handling covering all types of events. |
| 12-Aug-18 | Sunday |
| 5 | 13-Aug-18 | Haryali teej |
| 14-Aug-18 | Processing speed of a computer | Preprocessor directives | Input/Output: Basics, Streams |
| 15-Aug-18 | Independence day |
| 16-Aug-18 | Computer classification | Test | Bytes and Character Stream |
| 17-Aug-18 | Computer classification | Revision | The Class Print Stream |
| 18-Aug-18 | Test | Revision | Data Stream |
| 19-Aug-18 | Sunday |
| 6 | 20-Aug-18 | Assignment 1 | Comparing c with c++. | String Tokenizer Class |
| 21-Aug-18 | Problem session | Problem session | Stream Tokenizer |
| 22-Aug-18 | Id-ul-zuha(bakrid) |
| 23-Aug-18 | Input/output units - keyboard, mouse | Assignment 1 | Test |
| 24-Aug-18 | Trackball, joystick, digitizing tablet | Introduction to constructors & destructors | Assignment 1 |
| 25-Aug-18 | Scanners, digital camera |  roles and types of constructors |  |
| 26-Aug-18 | Sunday |
| 7 | 27-Aug-18 |  micr, ocr, omr, bar-code reader | Constructors programming problems | Graphical user interface |
| 28-Aug-18 | Analog size, resolution, refresh rate, dot pitch | Revision |  layout manager |
| 29-Aug-18 | Video standard – vga, svga, xga | Revision | Flow layout, border layout |
| 30-Aug-18 | Revision | Roles of destructors | Card layout |
| 31-Aug-18 | Test |  dynamic memory allocation | Grid bag layout |
| 1-Sep-18 | Printers & its types | Pointers and their manipulation | Grid layout |
| 2-Sep-18 | Sunday |
| 8 | 3-Sep-18 | Janmashtmi |
| 4-Sep-18 | Daisy wheel, dot matrix, inkjet | Test | Test |
| 5-Sep-18 | Laser, line printer | New and delete operators | Awt controls |
| 6-Sep-18 | Plotter; sound card and speakers | ‘this’ pointer | Labels, buttons |
| 7-Sep-18 | Test | Console i/o: formatted | Canvases, check boxes |
| 8-Sep-18 | Problem session | Unformatted i/o | Revsion |
| 9-Sep-18 | Sunday |
| 9 | 10-Sep-18 | Memory – ram | Manipulators | Check box group, choices |
| 11-Sep-18 | Rom, eprom, prom | Revision | Text fields, text areas |
| 12-Sep-18 | Other types of memory | Revision | Lists, scroll bars, panels |
| 13-Sep-18 | Storage fundamentals | Compile-time polymorphism |  windows, frames |
| 14-Sep-18 | Primary vs secondary data storage | Unary and binary operators overloading | Menus, menu bar |
| 15-Sep-18 | Test | Unary and binary operators overloading | Revision |
| 16-Sep-18 | Sunday |
| 10 | 17-Sep-18 |  various storage devices – magnetic tape | Overloading through member functions  | Test |
| 18-Sep-18 | Magnetic disks | Overloading through friend functions | Java swing |
| 19-Sep-18 | Cartridge tape | Test | Working with j-frame |
| 20-Sep-18 | Disk drives, floppy disks (winchester disk) | Programming problems | J-applet, j-panel |
| 21-Sep-18 | Optical disks, cd, vcd | Programming problems | J-text field, j-password field |
| 22-Sep-18 | Cd-r, cd-rw, zip drive | Revision | Revision |
| 23-Sep-18 | Sunday |
| 11 | 24-Sep-18 | Quiz on memory | Function overloading | Test |
| 25-Sep-18 | Flash drives, video disk | Inheritance single | J-button, j-checkbox |
| 26-Sep-18 | Blue ray disc, sd/mmc memory cards | Inheritance multiple | J-radio button, j-list, j-scroll pane |
| 27-Sep-18 | Physical structure of floppy & hard disk | Inheritance hybrid | J-combo box, j-menu, j-menu bar |
| 28-Sep-18 | Revision | Test | J-menu item, j-popup menu |
| 29-Sep-18 | Revision | Revision | Revision |
| 30-Sep-18 | Sunday |
| 12 | 1-Oct-18 | Drive naming conventions in pc | Revision | Revision |
| 2-Oct-18 | Mahatma gandhi’s jayanti |
| 3-Oct-18 | Test |  roles of constructors and destructors in inheritance | J-tree |
| 4-Oct-18 | Dvd, dvd-rw, usb pen drive | Roles of constructors and destructors in inheritance | J-table |
| 5-Oct-18 | Assignment 2 | Revision | Assignment 2 |
| 6-Oct-18 | Information representation | Assignment 2 | Revision |
| 7-Oct-18 | Sunday |
| 13 | 8-Oct-18 | Number systems | Genericity in c++ | Programming problems |
| 9-Oct-18 | Conversion from one number system to another number system | Template function | Programming problems |
| 10-Oct-18 | Maharaja aggarsen jayanti |
| 11-Oct-18 | Octal number system | Template function | Test |
| 12-Oct-18 | Hexa decimal number system | Template function | Introduction to servlets |
| 13-Oct-18 | Conversions | Revsion | Structure of servlet & life cycle |
| 14-Oct-18 | Sunday |
| 14 | 15-Oct-18 | Conversion problems | Test | Revision |
| 16-Oct-18 | Integer representation – sign magnitude, 1’s complement | Template class |  accessing a servlet using an html |
| 17-Oct-18 | Revision | Template class | Accessing a servlet using an html |
| 18-Oct-18 | Dussehra |
| 19-Oct-18 | Sessional test |  inheritance and templates | Sessional test |
| 20-Oct-18 | Problem session | Sessional test | Revision |
| 21-Oct-18 | Sunday |
| 15 | 22-Oct-18 | 2’s complement | Revision | Page exploring deployment descriptor (web.xml) |
| 23-Oct-18 | Bcd codes | Revision | Handling requests |
| 24-Oct-18 | Maharishi valmiki’s birthday |
| 25-Oct-18 | Floating-point representation | Exception handling | Handling response |
| 26-Oct-18 | Binary arithmetic – addition |  try, throw and catch constructs | Initializing a servlet, |
| 27-Oct-18 | Revision | Try, throw and catch constructs |  accessing database |
| 28-Oct-18 | Sunday |
| 16 | 29-Oct-18 | Subtraction | Test | Test |
| 30-Oct-18 | Multiplication | Rethrowing an exception | Servlet sharing |
| 31-Oct-18 | Problem session  | Revision | Session tracking |
| 1-Nov-18 | Haryana day |
| 2-Nov-18 | Division |  catch all handlers | Session management |
| 3-Nov-18 | Revision | Revision | Dealing with cookies |
| 4-Nov-18 | Sunday |
| 17 | 5-Nov-18 | Revision | Revision | Revision |
| 6-Nov-18 | Holiday |
| 7-Nov-18 | Diwali |
| 8-Nov-18 | Holiday |
| 9-Nov-18 | Vishavkarma day |
| 10-Nov-18 | Holiday |
| 11-Nov-18 | Sunday |
| 18 | 12-Nov-18 | Holiday |
| 13-Nov-18 | Holiday |
| 14-Nov-18 | Revision | Revision | Revision |