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|  | | |  | **Lesson Plan** | | |
| Name of Faculty | | | : | Kanchan Saini | | |
| Discipline | | | :. | Computer Engineering | | |
| Semester | | | : | VI | | |
| Subject | | | : | Programming in JAVA | | |
| Lesson Plan Duration : | | | | | 15 Weeks ( From January 2019 to April 2019 ) | | | |
|  |  |  |  | | |  | |  |
| **Wee** |  |  | **Theory** | | |  | | **Practical** |
| **k** | **Lecture** |  |  | | **Topic** | **Practic** | | **Topic** |
|  | **Day** | **(including assignment/test )** | | | | **al Day** | |  |
| 1st | 1 | 1. A brief history | | | | 1 | | PRACTICAL 1- Write a program |
|  |  | 2. How Java works? | | | |  | | which tells whether a number is |
|  |  | 3. Java features | | | |  | | even or odd. Take a range from 1– |
|  | 2 | 1. | Java Virtual Machine (JVM) | | |  | | 50 |
|  |  | 2. | Java In Time (JIT) | | |  | |  |
|  | 3 | 1. | Using Java with other tools | | |  | |  |
| 2nd | 4 | 1. | Native code | | | 2 | | PRACTICAL 2- Write a programme to |
|  |  | 2. | Java application types | | |  | | convert the given temperature in |
|  | 5 | 1. Comparison with C and C++ | | | |  | | Fahrenheit to Celsius |
|  | 6. | Revision of chapter 1 | | | |  | |  |
| 3rd | 7 | Test of chapter 1 | | | | 3 | | PRACTICAL 3 - Write a programme to |
|  |  |  |  | |  |  | | find all the numbers and sum of all |
|  | 8 | 1. Working with data types | | | |  | | integers greater than 100 |
|  |  |  |  | |  |  | |
|  |  |  |  | |  |  | | less than 200 that are divisible by 7 |
|  | 9 | 1. | Control flow statements | | |  | |  |
| 4th | 10 | 1. | Control flow statements contd. | | | 4 | | PRACTICAL 4- Given a |
|  |  |  |  | |  |  | | list of marks ranging from 0 to |
|  |  |  |  | |  |  | | 100, write a programme to |
|  | 11 | 1. | Array | |  |  | |
|  |  |  |  | |  |  | | compute and |
|  |  |  |  | |  |  | | print the number of student should |
|  | 12 | 1. | Array Contd. | | |  | |
|  |  | | have obtained marks |
|  |  |  |  | |  |  | |
| 5th | 13 | Sessional test-1 | | | | 5 | | PRACTICAL 5- Admission to a |
|  | 14 | 1. | Casting | |  |  | | professional course is subject to the |
|  | 15 | 1 Command line arguments | | | |  | | following conditions: |
| 6th | 16 | Revision of chapter 2 | | | | 6 | | Revision PRACTICAL 1-5 |
|  | 17 | Test chapter 2 | | | |  | |  |
|  | 18 | 1. | Introduction to Classes | | |  | |  |
| 7th | 19 | 1. Inheritance | | |  | 7 | | PRACTICAL 6- Write programme using |
|  | 20 | 1. | Encapsulation | | |  | | a do ..... while loop to calculate and |
|  | 21 | 1. | Polymorphism | | |  | | print the first m ibonacci numbers |
|  |  |  | | | |  | |  |
| 8th | 22 | 1. Constructors and finalizers | | | | 8 | | PRACTICAL 7- Write a programme to |
|  | 23 | 1. | Garbage collection, access | | |  | | evaluate the following investment |
|  |  | specifier | | |  |  | | equation V=P (1+r)n |
|  | 24 | Revision of chapter 3 | | | |  | |  |
| 9th | 25 | Test of chapter 3 | | | | 9 | | PRACTICAL 8- Write a program which |
|  | 26 | Sessional test-2 | | | |  | | will store the students roll no. names |
|  | 27 | 1. | Using Java interface | | |  | | and total marks in the |
|  |  |  |  | |  |  | | database |
| 10th | 28 | 1. Using Java packages | | | | 10 | | PRACTICAL 9- Write a program which |
|  | 29 | Test of chapter 4 | | | |  | | will display all those records whose |
|  | 30 | 1. Over view of exception | | | |  | | marks are |
|  |  | handling | | |  |  | | above 75% |
|  |  |  |  | |  |  | |  |



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| 11th | 31 | 1. Method to use exception | | 11 | PRACTICAL 10- Write a programme to |
|  |  | handling | |  | draw the following using Applet: |
|  | 32 | 1. | Method available to |  |  |
|  |  | exceptions | |  |  |
|  | 33 | 1. Creating your own exception | |  |  |
|  |  | classes | |  |  |
| 12th | 34 | Revision chapter 5 | | 12 | PRACTICAL 11- Exercises on |
|  | 35 | Test of chapter 5 | |  | implementing Java Classes |
|  | 36 | 1. | Threads and Multi-threading |  |  |
|  |  | overview | |  |  |
|  |  | 2. | Thread basics |  |  |
| 13th | 37 | 1. The thread control methods | | 13 | PRACTICAL 12- Exercises on |
|  | 38 | 1. | The threads life cycle and |  | exceptional handling |
|  |  | synchronization | |  |  |
|  | 39 | Test of chapter 6 | |  |  |
| 14th | 40 | 1. | Java applets Vs Java | 14 | PRACTICAL 13- Exercises on creating |
|  |  | applications | |  | and running threads |
|  | 41 | 1. | Building application with JDK |  |  |
|  | 42 | 1. | Building applets with JDK, |  |  |
|  |  | HTML for Java applets | |  |  |
| 15th | 43 | 1. Managing input-output stream | | 15 | Revision PRACTICAL 6-13 |
|  |  | Revision of chapter 7 | |  |  |
|  | 44 | Test of chapter 7 | |  |  |
|  | 45 | Sessional test-3 | |  |  |

