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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 |  |  |

