

College of IT and Management Education

Lesson Plan

Sub : Programming with JAVA (MCC-401)
 Branch : MCA
 Semester : 4th Semester MCA (January – June ,2017)

Name of the Faculty : Sabita rani Behera

Total Credit Point: 4

Total Number of Classes: 42

| Sl No. | TOPIC PLANNED | SESSION |
|-------------------|---|-----------------|
| MODULE-I | | 16 HOURS |
| 1. | Introduction to Java programming , History of Java , Edition, Application | 1 |
| 2. | Features of Java | 1 |
| 3. | JVM, JDK ,JRE , Hello world program in Java | 1 |
| 4. | Variable , Data types , Typecasting , keywords ,Operators | 1 |
| 5. | Control statements ,if ,switch-case ,loop | 1 |
| 6. | Array | 1 |
| 7. | Object and Class , Methods, Method Abstraction and Stepwise Refinement | 1 |
| 8. | Constructors , Finalize method | 1 |
| 9. | Static ,this, final | 1 |
| 10. | Inheritance and Aggregation | 1 |
| 11. | Method overriding , super | 1 |
| 12. | Run time polymorphism , Dynamic binding , instanceof operator | 1 |
| 13. | Abstract class | 1 |
| 14. | Interface | 2 |
| 15. | Package, Object Class | 1 |
| MODULE-II | | 13 HOURS |
| 16. | Exception Handling | 2 |
| 17. | Applets and Multimedia | 1 |
| 18. | GUI Basics, Graphics , Creating User Interfaces | 1 |
| 19. | Event-Driven Programming ,Button ,Text ,Focus events | 1 |
| 20. | Event-Driven Programming ,Mouse and Mouse Motion events | 1 |
| 21. | Binary I/O, Files & Streams | 2 |
| 22. | Recursion | 1 |
| 23. | Dynamic Binding, Generics & Generic Programming | 1 |
| 24. | Java Collections Framework | 2 |
| 25. | Algorithm Efficiency , Searching & Sorting | 1 |
| MODULE-III | | 13HOURS |
| 26. | Multithreading | 2 |
| 27. | Layout Managers | 1 |
| 28. | JDBC | 1 |
| 29. | Borders | 1 |
| 30. | Menu Design | 1 |
| 31. | Toolbar Design | 1 |
| 32. | Dialog Boxes | 1 |
| 33. | Networking , Socket programming | 1 |
| 34. | Internationalization | 1 |
| 35. | JTable, JTree | 1 |

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| 36. | MVC Model ,New Features in Java | 1 |
| 37. | Doubt Clearing Classes | 1 |

Text Books:

1. Y. Daniel **Liang**, "*Introduction to Java Programming: Comprehensive Version*", 7th Edition, 2009, Pearson Education Inc., New Delhi.
(Book Chapters: 1 to 24, 26, 29 to 37)
2. Cay S. **Horstmann**, "*Big Java*", 3rd Edition, Wiley India Pvt. Ltd., New Delhi.

Reference Books:

1. Richard A. **Johnson**, "*An Introduction to Java Programming and Object Oriented Application Development*", First Edition, 2007, CENGAGE Learning India Pvt. Ltd., New Delhi.
2. E. **Balagurusamy**, "*Programming with Java: A Primer*", 3rd Edition, 2008, McGraw-Hill Education (India), New Delhi.
3. Harvey M. **Deitel** & Paul J. **Deitel**, "*Java How to Program*", 8th Edition, 2009, PHI Learning Pvt. Ltd., New Delhi.
4. Mahesh P. **Bhave** & Sunil A. **Patekar**, "*Programming with Java*", First Edition, 2009, Pearson Education, Inc. New Delhi.
5. P. **Radha Krishna**, "*Object-Oriented Programming through Java*", First Edition, 2007, Universities Press (India) Pvt. Ltd., Hyderabad.

Sabita rene Behera
Signature of Faculty

Prakash
Signature of Course Coordinator

[Signature]
Signature of Principal