PVP14 REGULATIONS COMPUTER SCIENCE & ENGINEERING PVPSIT

III/IV B. TECH. SECOND SEMESTER UML AND DESIGN PATTERNS LAB(Required)

Course Code: CS 6L2 Lab Hours: 3 periods/ week Credits: 2 Internal assessment: 25 Marks Semester end examination: 50 Marks

Prerequisite: UML And Design Patterns

Course Objectives:

- Construct UML diagrams for static view and dynamic view of the system.
- Generate creational patterns by applicable patterns for given context.
- Create refined model for given Scenario using structural patterns.
- Construct behavioral patterns for given applications.

Course Outcomes:

- CO1) Understand the Case studies and design the Model..
- CO2) Understand how design patterns solve design problems.
- CO3) Develop design solutions using creational patterns.
- CO4)Construct design solutions by using structural and behavioural patterns

Exercises:

- 1. To create a UML diagram of ATM APPLICATION
- 2. To create a UML diagram of LIBRARY MANAGEMENT SYSTEM
- 3. Design Abstract factory Design pattern.
- 4. Design Builder Design pattern.
- 5. Design Facade Design pattern.
- 6. Design Bridge Design pattern.
- 7. Design Decorator Design pattern.

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- 8. User gives a print command from a word document. Design to represent this chain of responsibility design pattern.
- 9. Design Visitor Design pattern.
- 10. Design Iterator Design pattern.
- 11. To design a Document Editor.

Learning Resources

Text Books

- 1. Grady Booch , James Rumbaugh , Ivar Jacobson : The Unified Modeling Language User Guide, Pearson Education.
- 2. Design Patterns By Erich Gamma, Pearson Education
- 3. Meta Patterns designed by Wolf gang, Pearson.

References

- 1. Design Patterns Explained By Alan Shalloway, Pearson Education..
- 2. Head First Design Patterns By Eric Freeman Oreilly-spd.
- 3. JAVA Enterprise Design Patterns Vol-III By Mark Grand, Wiley Dreamtech.
- 4. Pattern's in JAVA Vol-I By Mark Grand , Wiley Dreamtech.
- 5. Pattern's in JAVA Vol-II By Mark Grand , Wiley Dreamtech.