

UNIT III

1. The requirements model, manifested by scenario-based, class-based, flow-oriented, and behavioral elements,
2. The architectural design defines the relationship between major structural elements of the software,
3. The interface design describes how the software communicates with systems that interoperate with it, and with humans who use it.
4. The component-level design transforms structural elements of the software architecture into a procedural description of software components.
5. The design should provide a complete picture of the software, addressing the data, functional, and behavioral domains from an implementation perspective.
6. FURPS—functionality, usability, reliability, performance, and supportability
7. A procedural abstraction refers to a sequence of instructions that have a specific and limited function.
8. A data abstraction is a named collection of data that describes a data object
9. Cohesion is an indication of the relative functional strength of a module.
10. Coupling is an indication of the relative interdependence among modules.
11. Refactoring is the process of changing a software system in such a way that it does not alter the external behavior of the code [design] yet improves its internal structure.
12. Software architecture must model the structure of a system
13. and the manner in which data and procedural components collaborate with one another.
14. An architectural style is a transformation that is imposed on the design of an entire system.
15. An archetype is an abstraction (similar to a class) that represents one element of system behavior.
16. ACD stands for architectural context diagram
17. Sharing dependencies represent dependence relationships among consumers who use the same resource
18. Flow dependencies represent dependence relationships between producers and consumers of resources
19. Constrained dependencies represent constraints on the relative flow of control among a set of activities.
20. Component is “a modular, deployable, and replaceable part of a system that encapsulates implementation and exposes a set of interfaces.”
21. ISP stands for Interface Segregation Principle.
22. Interface is the equivalent of an abstract class that provides a controlled connection between design classes.

23. Example for Tabular Design Notation is Decision tables