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**UNIVERSITY**

**SOFTWARE ARCHITECTURE-**

**THEORY**

**ASSIGNMENT # 03**

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**DESIGN PATTERN**

**VS**

**DESIGN PRINCIPLES**

**DESIGN PATTERN**

* Design patterns are solutions to software design problems that we face again and again in real-world application development.
* Design Patterns are nothing but a process or methodology to apply or implement good architecture in a solution.
* Design patterns are implementations.
* Design Pattern provides low-level solutions related to implementation, of commonly occurring object-oriented problems.
* They do not provide implementation guidelines and are not bound to any programming language.

**DESIGN PRINCIPLES**

* Design Principal act as a framework for the designers to

follow a good design.

* Software design principles are a set of guidelines that helps developers to make a good system design.
* Design Principle are not implementations.
* Design principles provide high level guidelines to design better software applications.
* design pattern suggests a specific implementation for the specific object-oriented programming problem

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| **S.NO** | **DESIGN PATTERNS** | | **DESIGN PRINCIPLES** |
| **1** | Design patterns are solutions to software design problems that we face again and again in real-world application development. | | Design Principal act as framework for the designers to follow a good design. |
| **2** | Design patterns are low level coding solutions for complex designs. These solutions were obtained by trial and error by numerous software developers over quite a substantial period of time. | | Design principles are said to be a set of guidelines. These guidelines help design complex systems and help developers to have abstract knowledge about solving complex designs. |
| **3** | Design Patterns are nothing but a process or methodology to apply or implement good architecture in a solution. | | Software design principles are a set of guidelines that helps developers to make a good system design. |
| **4** | Design patterns are implementations | | Design Principle are not implementations. |
| **5** | Design Pattern provides low-level solutions related to implementation, of commonly occurring object-oriented problems. | | Design principles provide high level guidelines to design better software applications. |
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