COMSATS University Islamabad Campus
Computer Science Department

	Design Patterns Contextual Categorization

1	• **Generating Objects**
	   o The Singleton Pattern
	   o Factory Method Pattern
	   o Abstract Factory Pattern
	   o Builder Pattern
	   o Prototype
	   o Service Locator
	   o Dependency Injection

2	• **Patterns for Flexible Object Programming**
	   o The Composite Pattern
	   o The Decorator Pattern
	   o The Facade Pattern

3	• **Performing and Representing Tasks**
	   o The Interpreter Pattern
	   o The Strategy Pattern
	   o The Observer Pattern
	   o The Visitor Pattern
	   o The Command Pattern
	   o The Null Object Pattern

4	• **Database Patterns**
	   o Data Mapper
	   o Identity map
	   o Unit of Work
	   o Lazy Load
	   o Domain Object Factory
	   o Identity Object
	   o Domain Object Assembler

5	• **Enterprise Patterns**
	   o Front Controller
	   o Application Controller
	   o Template View
	   o Page Controller
	   o Transaction Script
	   o Domain Model