

# Learn Object Oriented Design Patterns from the masters

 /envisioninstitute

 [www.ecti.co.in](http://www.ecti.co.in)



*This course is best fit for an individual who is aspiring to become a better programmer / better software architect. Every concept is presented with adequate details.*

*Object Oriented Design Patterns is a course which helps in designing the entire structure of an application in a completely professional way.*

*This course is best fit for professionals with at least 3 years of experience in the programming field.*

**ENVISION**<sup>™</sup>  
Computer Training Institute  
An ISO 9001:2008 Certified Company

## Syllabus

- **Introduction:** Induction for OO Concepts, Code Evaluation, early and lazy evaluation, OOAD – UML notations (Class Diagram and Class level relationships)
- **Creational Patterns:** Singleton, Factory Method, Prototype, Abstract factory, Builder Pattern, etc.
- **Behavioral Patterns:** Template Method, Observer Pattern, Memento, Strategy, Visitor Pattern, Null Object, Chain of responsibility. etc
- **Structure Patterns:** Adapter, Composite, Decorator, Proxy, Bridge, Façade, etc. Intent, Motivation, advantages and disadvantages of each design pattern, real life analogy for each pattern.
- **Difference between Patterns:** Usage of Patterns according to intent, who you gonna call? Related Patterns, etc.
- **Anti-Patterns and Re-factoring:** Code smell, Spaghetti code, feature envy, lazy class, Extract method, etc.
- **Design Principles:** SOLID design principles (SRP, OCP, LSP, ISP, DIP) and GRASP (General Responsibility Assignment Software Patterns)
- **Pattern hatching:** Tools used in Software Industry, Code and UML generation, Static code analysis, examples in standard Frameworks, etc.
- **Test your Skills:** Identify by the intent, reading the UML, etc.

**Duration:20 Hours**  
**Weekends only**

### **Bibwewadi**

1<sup>st</sup> Floor, "Yasho-Parva",  
Sant Eknath Nagar - I, Bibwewadi,  
Pune - 411 037

Call: 020-65000419 / 8485812611

### **Nal Stop**

3<sup>rd</sup> Floor, "Upendra - 1",  
Next to Hotel Nisarg, Erandwane,  
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### **Nigdi**

3<sup>rd</sup> Floor, "Utkarsh", Telco Kapoor Soc.,  
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# Post with #AskECTI to ask any of your doubts on Facebook

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## About Envision Computer Training Institute (ECTI)

Established in 1999, ECTI has been effectively substantiating the ever rising needs of technical training in the social and business scenario. The institute is successfully paving its way through the fields of Programming and Engineering, acting as a full proof educational facilitator thus consistently delivering the demand of industry ready professionals.

## Courses

### Job Guaranteed Courses

- ▶ Diploma in Graphics & Semantic Web Designing
- ▶ Full Stack Development - PHP, Java, .NET
- ▶ Diploma in Android Apps Development
- ▶ Diploma in Architectural Design
- ▶ Diploma in Engineering Design
- ▶ Diploma in Web Apps Development - PHP or .NET Track

### Electrical & Mechanical CAD

- ▶ CATIA
- ▶ Siemens NX
- ▶ Electrical Wiring Harness
- ▶ AutoCAD<sup>®</sup> Electrical
- ▶ Revit<sup>®</sup> MEP

### Alias Concept Modeling

### Programming Languages

- ▶ Android
- ▶ JAVA
- ▶ .NET / Advanced .NET
- ▶ WCF, WPF, MVC
- ▶ PHP / MySQL
- ▶ C, C++, DS

### Civil CAD

- ▶ Trimble SketchUp Pro
- ▶ Revit<sup>®</sup> Architecture
- ▶ 3ds Max
- ▶ AutoCAD<sup>®</sup>

## Our students placed in



## Why ECTI?



Placement or Money Back



Cost Effective



Industry Experts Lectures



FREE Soft Skills Training



Mock Interviews by HR



Most Updated Syllabus

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