



مَتَخَصِّص

المشروع الأول من نوعه في
الأراضي الفلسطينية

دليل الدورات المتخصصة

بعد دراسة مستفيضة لاحتياجات السوق المحلي والعالمي، وجدنا أنّ هناك فراغاً ينبغي ملؤه ونقصاً يجب علينا تغطيته، وأن هناك قصوراً كبيراً لدى الامكانيات المتوفرة حالياً في السوق، فقمنا بهذه المبادرة وأطلقنا هذا المشروع. يمكنك الاطلاع على بعض الدورات أدناه أو زيارة موقعنا الإلكتروني للمزيد

هدف المشروع: إخراج جيل متخصص في تكنولوجيا المعلومات يستطيع مواكبة التطورات الحاصلة في العالم ويستطيع إخراج أعمال ذات مهنية وجودة عالية، تتناسب ومتطلبات السوق العالمي.

الفئة المستهدفة: جميع متخصصي تكنولوجيا المعلومات والحاسوب.



1. Effective Java Programming

DETAILS

Prerequisites:	Good knowledge in Java Programming Good understanding of Object-Oriented
Course Level:	Intermediate – Advanced
Expected Course Hours:	70 hours + 10 hours (Project)

COURSE OBJECTIVES

1. Creating and Destroying Objects

- Static factory methods
- Singleton classes
- Avoid creating unnecessary objects
- Eliminate obsolete object references

2. Methods Common to All Objects

- Always override *hashCode*
- Consider implementing *Comparable*
- Always override *toString*

3. Classes and Interfaces

- Minimize accessibility of classes and members
- Favor composition over inheritance
- Prefer interfaces to abstract classes
- Favor static member classes over non-static

4. Generics

- Use bounded wildcards to increase API flexibility

5. Enums and Annotations

- User enums instead of int constants
- Prefer annotations to naming patterns

6. General Programming

- Prefer for-each loops to traditional loops
- Prefer primitive time to boxed primitives
- Refer to objects by their interfaces

7. Exceptions

- User exceptions only for exceptional conditions
- Don't ignore exceptions

8. Concurrency

- Synchronize access to shared mutable data
- Avoid excessive synchronization
- Prefer executors and tasks to threads

9. Serialization

- Consider using a custom serialized form

DETAILS

Prerequisites:	Good knowledge in Java Programming Good understanding of Object-Oriented Effective Java Programming is preferable
Course Level:	Intermediate – Advanced
Expected Course Hours:	60 hours + 20 hours (project)

COURSE OBJECTIVES

1. Introduction

- How about an interface
- Separating what changed from what stays the same
- The big picture on Encapsulation behavior

2. Keeping your Objects in the Know

- Meet the Observer Pattern
- Publishers + Subscribers = Observer Pattern
- The Power of Loose Coupling

Decorating Objects

- The Open-Closed Principle
- Meet the Decorator Pattern
- Writing your own Java I/O Decorator

Baking with OO Goodness

- Encapsulation Object Creation
- Declaring a Factory Method
- Factory Method Pattern

One of a King Objects

- Singleton Pattern

Encapsulation Invocation

- The Command Pattern

Being Adaptive

- Adapter Pattern

8. Encapsulating Algorithms

- Template Method Pattern

9. Well-Managed Collections

- Iterator Pattern

10. The State of Things

- How do we Implement State
- State Pattern

11. Controlling Object Access

- The role of the Remote Proxy
- The Proxy Pattern Defined
- Creating a Dynamic Proxy

3. AJAX Security

DETAILS

Prerequisites:	Basic Knowledge in Web Development Basic knowledge in JavaScript
Course Level:	Intermediate – Advanced
Expected Course Hours:	70 hours

COURSE OBJECTIVES

1. Introduction to AJAX Security
2. The Heist
3. Web Attacks
4. Ajax Attach Surface
5. Ajax Code Complexity
6. Transparency in Ajax Applications
7. Hijacking Ajax Applications
8. Attacking Client-Side Storage
9. Offline Ajax Applications
10. Request Origin Issues
11. Web Mashups and Aggregators
12. Attacking the Presentation Layer
13. JavaScript Worms

4. High Performance Web Sites

DETAILS

Prerequisites:	Basic Knowledge HTML, HTTP
Course Level:	Intermediate – Advanced
Expected Course Hours:	30 hours

COURSE OBJECTIVES

1. Importance of Frontend Performance
 2. Make Fewer HTTP Requests
 3. Use a Content Delivery Network
 4. Add Expires Header
 5. Gzip Components
 6. Put Stylesheets at the Top
 7. Put Scripts at the Bottom
- ~ Avoid CSS Expressions
 - Make JavaScript and CSS External
 - Reduce DNS Lookups
 - Minify JavaScript
 - Avoid Redirects
 - Remove Duplicate Scripts
 - Configure ETags
 - Make AJAX Cacheable

DETAILS

Prerequisites	Basic skill in using Graphical design applications like Adobe Photoshop
Level	Basic
Hours	40 Hours

Course Objectives

1. Introduction to FCS4.0 User Interface
2. Working with Graphics
3. Creating and Editing Symbols
4. Adding Animation
5. Articulated Motion and Morphing
6. Creating Interactive Navigation
7. Working with Sound and Video
8. Using Components
9. Loading and Controlling Flash Content
10. Publishing Flash Documents

6. Action Script 3.0 Programming

DETAILS

Prerequisites	Intermediate knowledge in a full Object-Oriented programming language like Java or C#
Level	Intermediate – Advanced
Hours	80 Hours

Course Objectives

1. Core Concepts, Introductions to tools, definitions, and concepts
2. Conditions and Loops
3. Instance Methods
4. Static variables and Methods
5. Functions
6. Inheritance
7. Datatypes and Type Checking
8. Interfaces
9. Statements and Operators
10. Arrays
11. Events and Events Handling
12. Exceptions and Error Handling
13. Garbage Collection
14. Dynamic Action Script
15. Scope
16. Namespaces
17. XML and E5X
18. The Display API and Display List
19. Events and Display Hierarchies
20. Interactivity
21. Screen Updates
22. Programmatic Animations
23. Drawing with Vectors
24. Bitmap Programming
25. Text Display and Input
26. Loading External Display Assets
27. Project

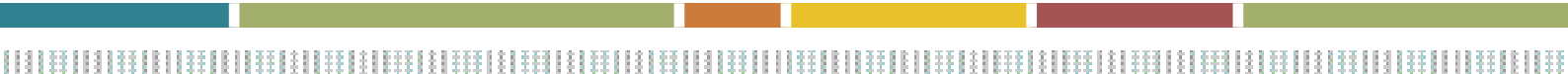
7. Essential PHP Security

DETAILS

Prerequisites	Good knowledge of PHP scripting
Level	Advanced
Hours	45 Hours

Course Outlines

1. Introduction
2. Forms and URLs
3. Databases and SQL
4. Sessions and Cookies
5. Includes
6. Files and Commands
7. Authentication and Authorization
8. Shared Hosting
9. Configuration Directives
10. Functions
11. Cryptography



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