



## SESSION PLAN

**\*Lecture / Tutorial / Laboratory / Workshop**

(\* DELETE AS APPROPRIATE)

COURSE PARTICULARS	
#	AE-326
Title: Information System Management.	

SESSION PARTICULARS		
#: ...1...	Title: Systems Development Life Cycle (SDLC)	Hrs: ٢

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	Information systems role in the organization
2	Systems Development Life Cycle Phases
3	User roles in Systems Development Life Cycle
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**Prepared by**

**Designation:** Ms.

**Name:** Hend Abdelhalim Hafez

**Signature:**

**Date:** 07/09/2010

**Approved by**

**Designation:** Dr.

**Name:** Walid Abdelmoez

**Signature:**

**Date:** 07/09/2010

**Lecture**

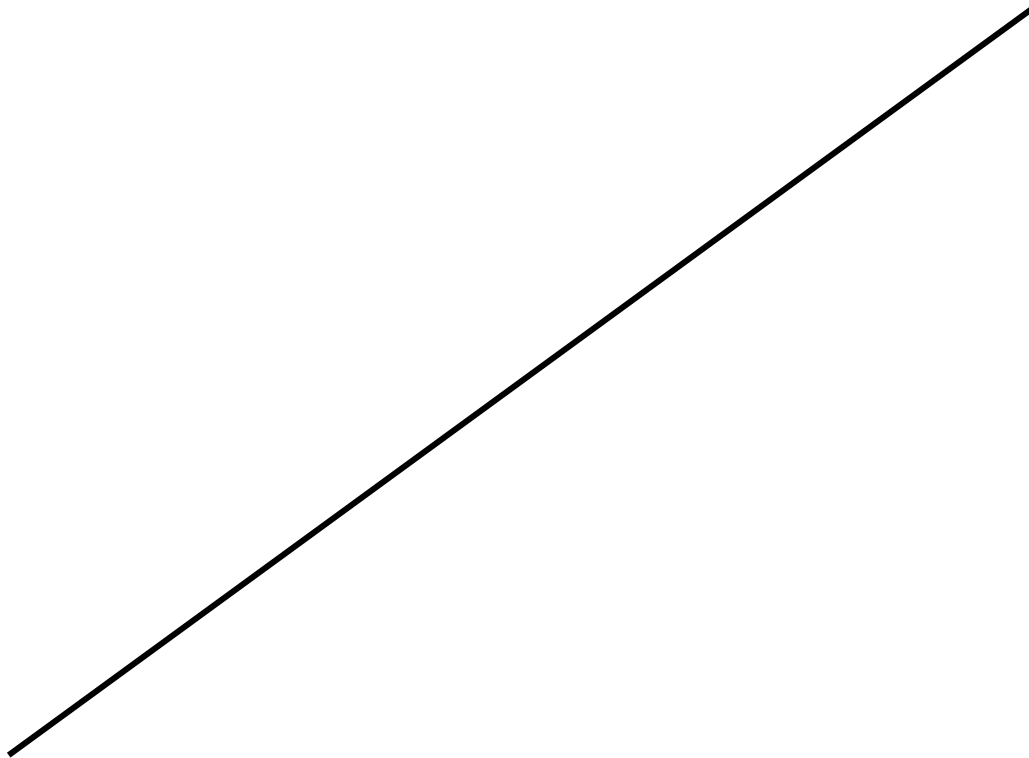
**Source Material:**

**Management Information Systems**, Raymond McLeod, 8<sup>th</sup> edition, Prentice Hall. Chapter 7

**Supplementary Material:** *Projector, white board.*

**Educational Resources:** *Handouts, presentations, assignments.*

**Tutorial / laboratory / Workshop (Delete as required)**



## SESSION PARTICULARS

# 2	Title: The Software Processes	Hrs: 2
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Software Process Models
2	Process Iteration
3	Process Activities
4	The Rational Unified Process
5	Computer-Aided Software Engineering
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**Lecture**

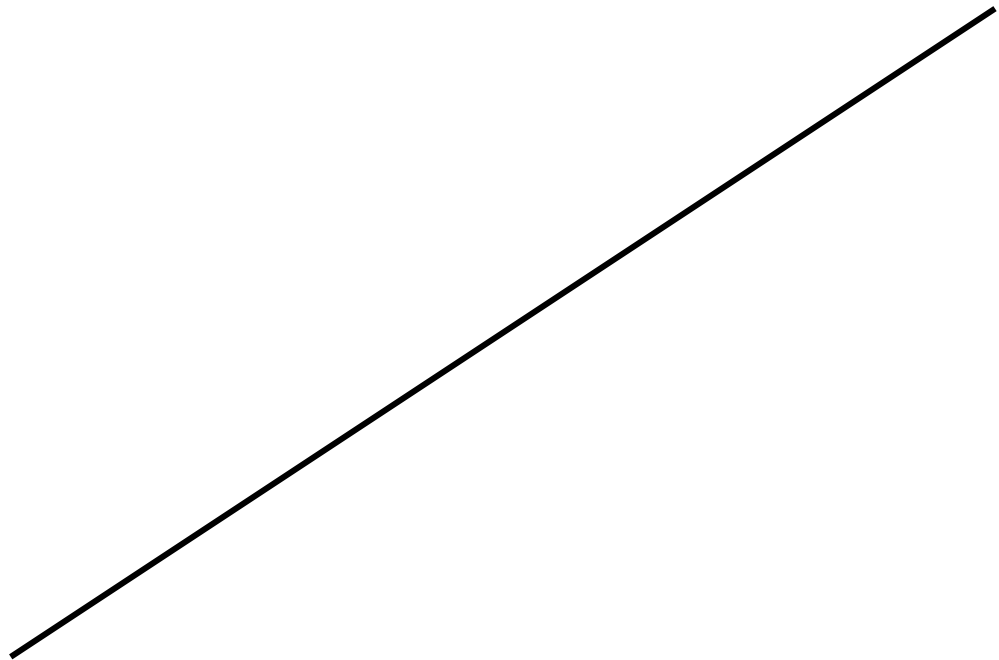
**Source Material :**

**Software Engineering**, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson **Chapter 4**

**Supplementary Material:** *Projector, white board.*

**Educational Resources:** *Handouts, presentations, assignments.*

**Tutorial / laboratory / Workshop (Delete as required)**



## SESSION PARTICULARS

# 3	Title: Project Management: Project Planning	Hrs: 2
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Management activities
2	The project plan
3	Milestones and deliverables
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### Lecture

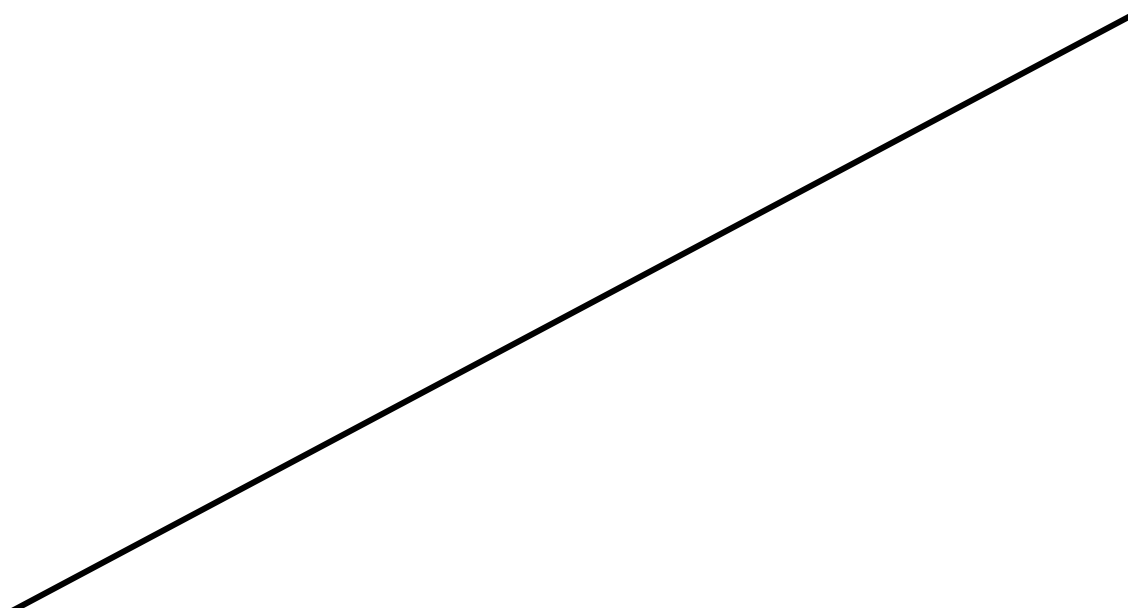
#### **Source Material:**

**Software Engineering**, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson , **Chapter 5**

**Supplementary Material: Projector, white board.**

**Educational Resources: Handouts, presentations, assignments.**

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<b>Tutorial / laboratory / Workshop (Delete as required)</b> 
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## SESSION PARTICULARS

# 4	<b>Title:</b> Project Management: Scheduling and Risk Management	<b>Hrs:</b> 2
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Bar charts
2	Activity networks
3	Risk identification
4	Risk analysis
5	Risk planning
6	Risk monitoring
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**Signature:**

**Date:** 07/09/2010

### Lecture

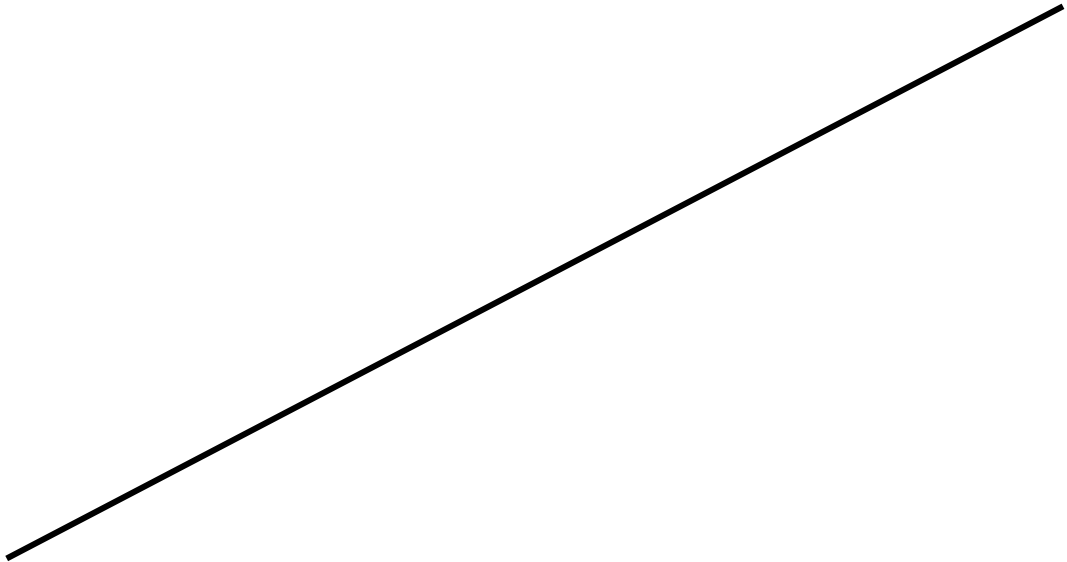
**Source Material:**

**Software Engineering**, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson , **Chapter 5**

**Supplementary Material:** *Projector, white board.*

**Educational Resources: *Handouts, presentations, assignments.***

**Tutorial / laboratory / Workshop (Delete as required)**





## SESSION PARTICULARS

#: ...5...	Title: Rapid Software Development: Agile methods	Hrs: ٢
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Agile Methods
2	Extreme programming
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**Lecture**

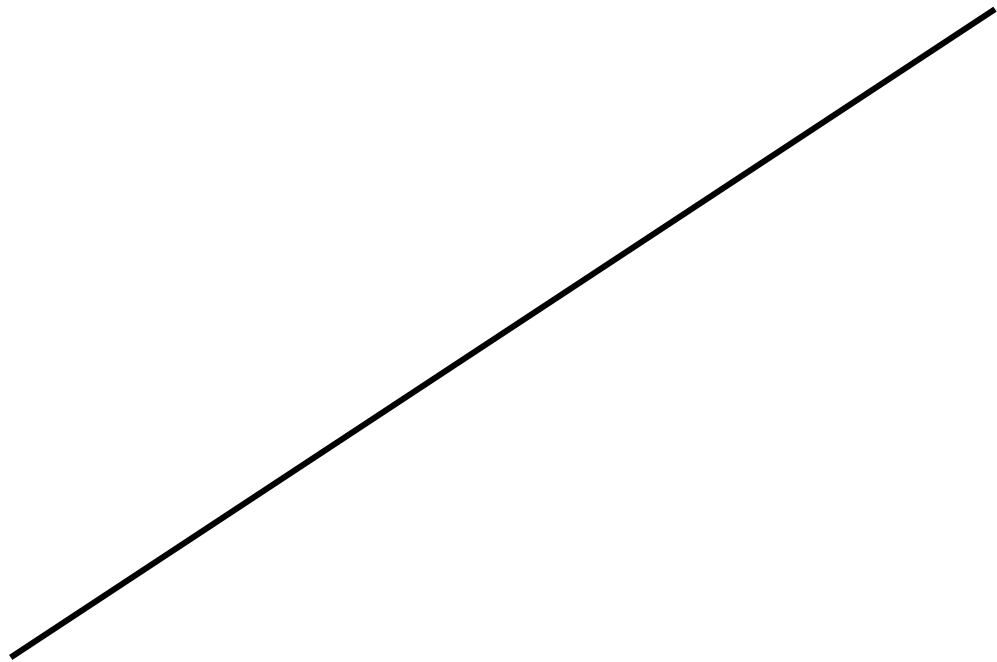
**Source Material :**

**Software Engineering, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, Chapter 17**

**Supplementary Material: *Projector, white board.***

**Educational Resources: *Handouts, presentations, assignments.***

**Tutorial / laboratory / Workshop (Delete as required)**



## SESSION PARTICULARS

# 6	<b>Title:</b> Rapid Software Development: Prototyping and RAD	<b>Hrs:</b> 2
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Rapid application development
2	Software prototyping
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**Lecture**

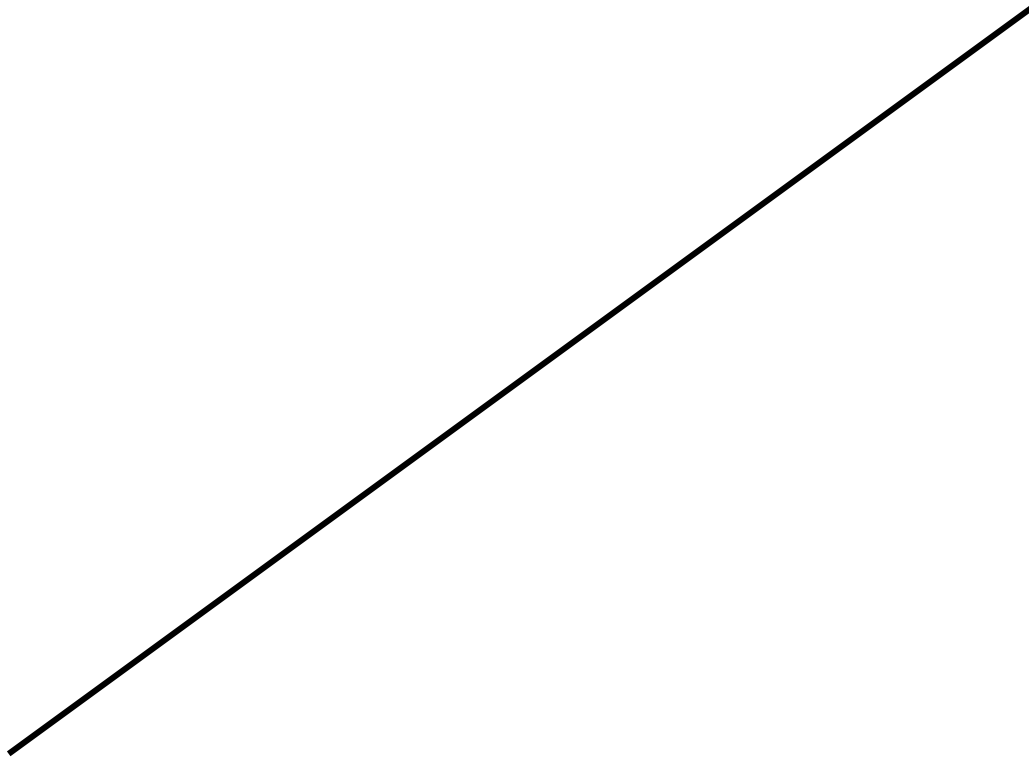
**Source Material:**

**Software Engineering**, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, **Chapter 17**

**Supplementary Material:** *Projector, white board.*

**Educational Resources:** *Handouts, presentations, assignments.*

**Tutorial / laboratory / Workshop (Delete as required)**



SESSION PARTICULARS

#: ...7...	Title 7 <sup>th</sup> Week Exam	Hrs: 2
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LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
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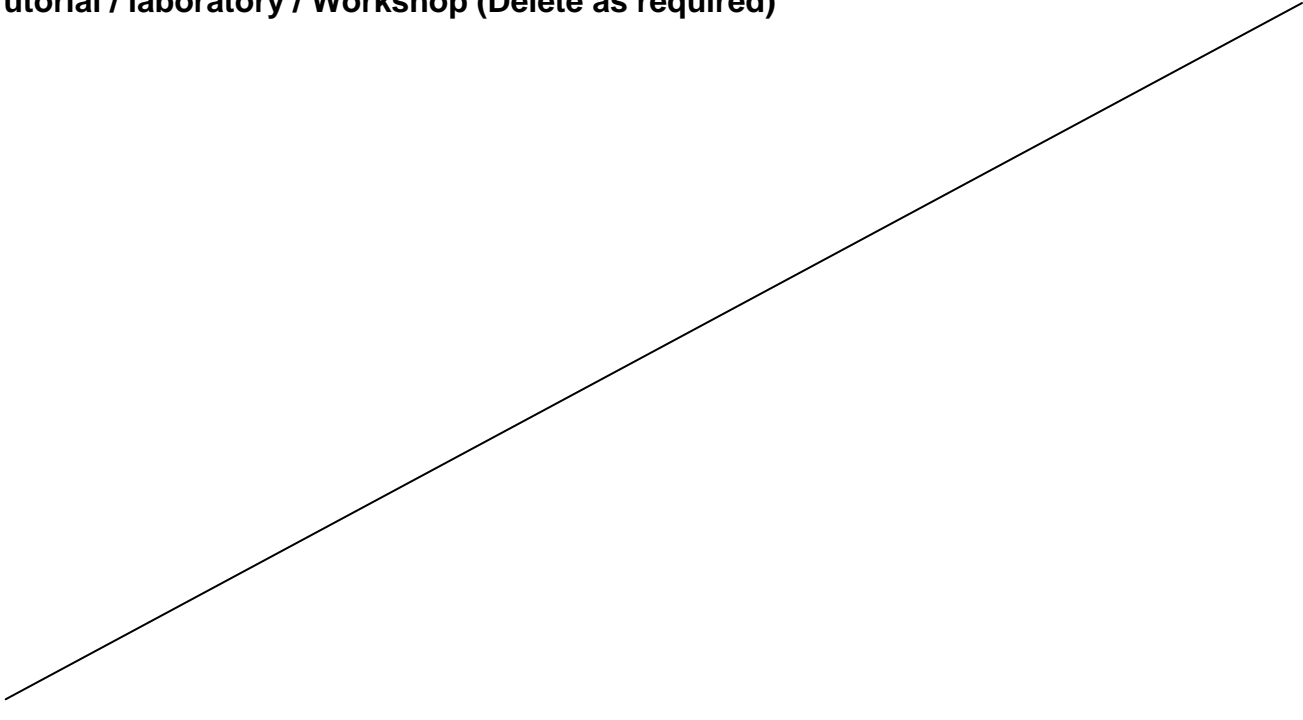
**Lecture**

**Source Material:**

**Supplementary Material:**

**Educational Resources:**

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<b>Tutorial / laboratory / Workshop (Delete as required)</b> 
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## SESSION PARTICULARS

#: ...8...	Title: Quality Management	Hrs: 2
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Process and product quality
2	Quality assurance and standards
3	Quality planning
4	Quality control
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**Lecture**

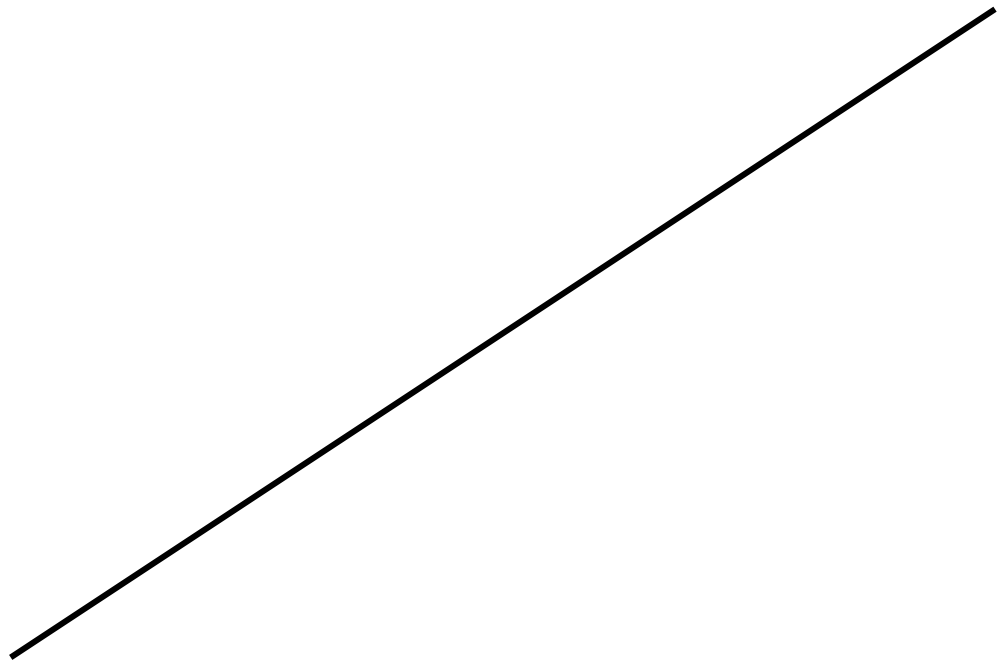
**Source Material :**

**Software Engineering, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, Chapter 27**

**Supplementary Material: *Projector, white board.***

**Educational Resources: *Handouts, presentations, assignments.***

**Tutorial / laboratory / Workshop (Delete as required)**





## SESSION PARTICULARS

#: ...9...	Title: Software measurement and metrics	Hrs: 2
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	The measurement process
2	Product metrics
3	Analysis of measurements
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**Signature:**

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**Signature:**

**Date:** 07/09/2010

**Lecture**

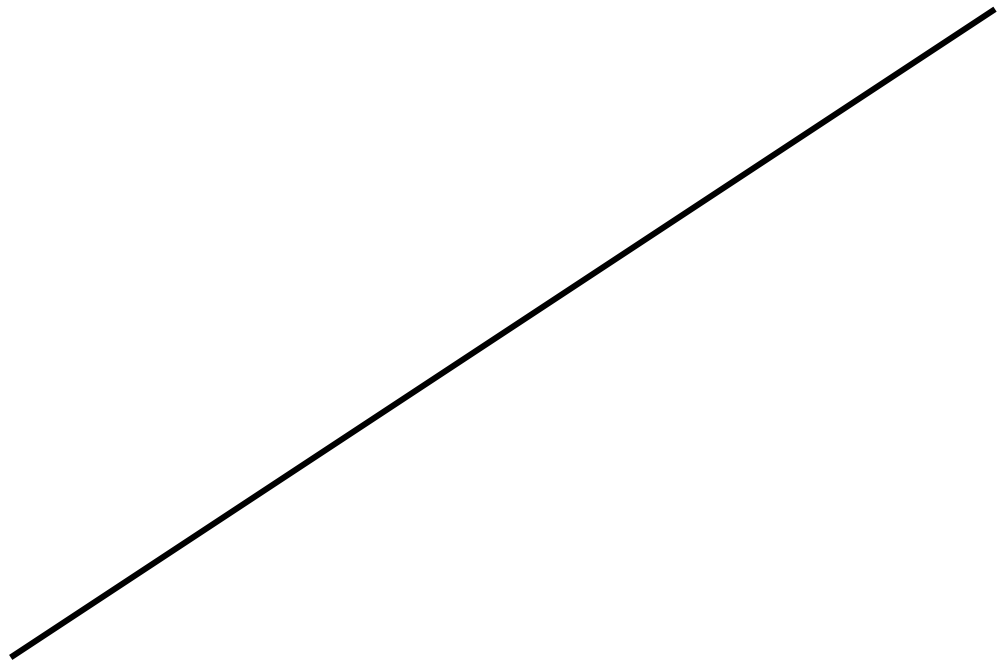
**Source Material :**

**Software Engineering, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, Chapter 27**

**Supplementary Material: *Projector, white board.***

**Educational Resources: *Handouts, presentations, assignments.***

**Tutorial / laboratory / Workshop (Delete as required)**



## SESSION PARTICULARS

#: 10	Title: Software Testing: System Testing	Hrs: 2
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Testing phases in the software process
2	Integration testing
3	Release testing
4	Performance testing
5	Component testing
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### Lecture

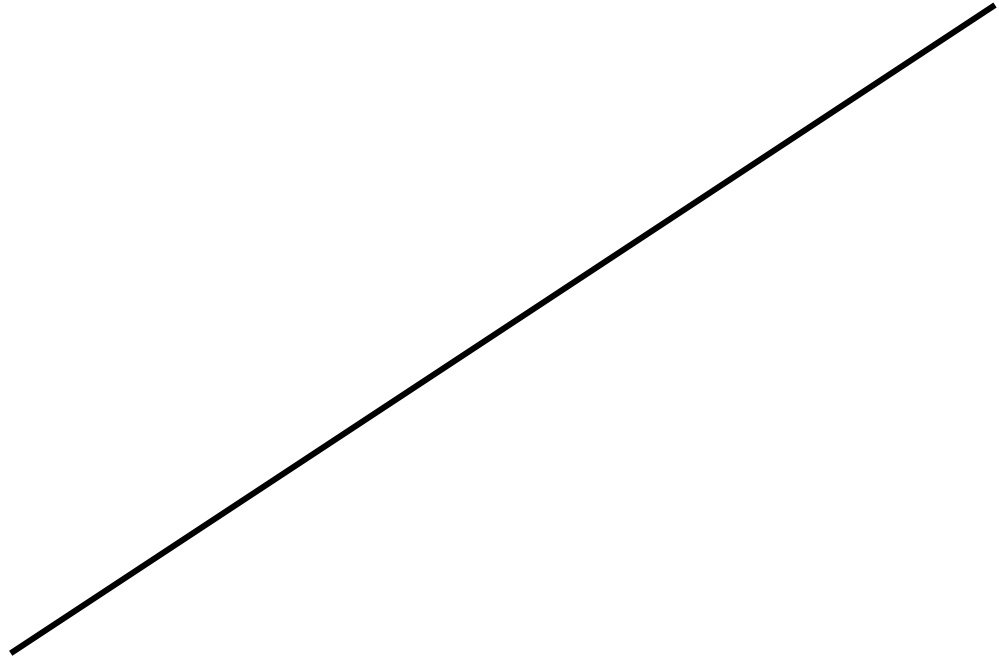
#### **Source Material :**

**Software Engineering**, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, **Chapter 23** and **Chapter 4**  
**page 74 -82**

**Supplementary Material:** *Projector, white board.*

**Educational Resources:** *Handouts, presentations, assignments.*

**Tutorial / laboratory / Workshop (Delete as required)**



## SESSION PARTICULARS

# 11	Title: Software Testing: Test Case Design	Hrs: ٢
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Requirements-based testing
2	Partition testing
3	Structural testing
4	Path testing
5	Test automation
6	Examples: cyclometric complexity calculations
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**Signature:**

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### Approved by

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**Name:** Walid Abdelmoez

**Signature:**

**Date:** 07/09/2010

**Lecture**

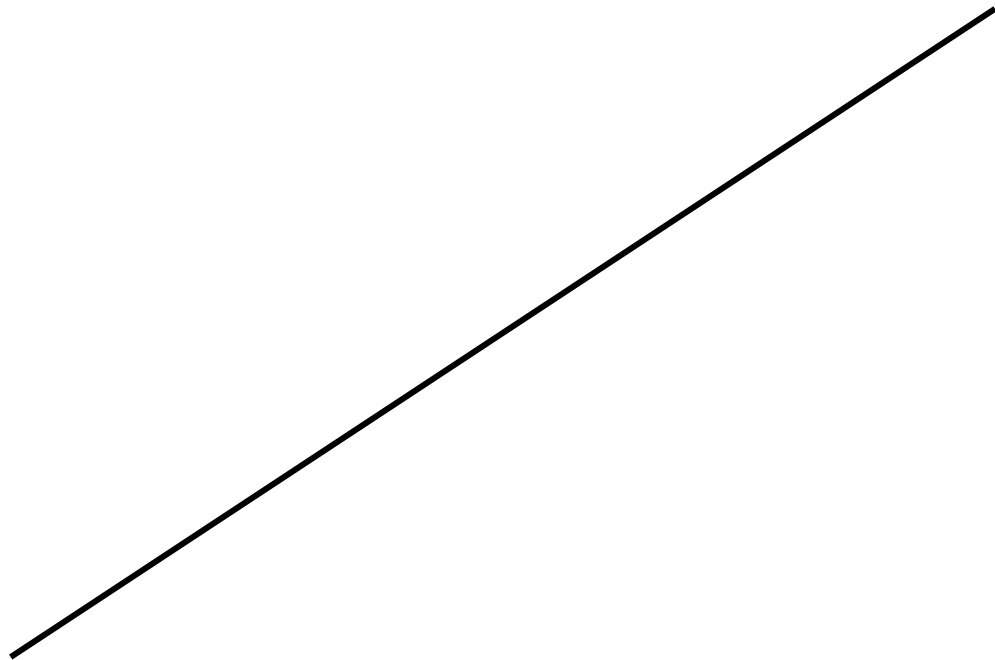
**Source Material :**

**Software Engineering**, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, **Chapter 23**  
**Software Engineering A Practitioners Approach**, Pressman, 5<sup>th</sup> Edition, 2001 McGraw Hill  
Higher Education. **Chapter 17**

**Supplementary Material:** *white board.*

**Educational Resources:** *assignments.*

**Tutorial / laboratory / Workshop (Delete as required)**



SESSION PARTICULARS

#: 12	Title: ١٢ Exam	Hrs: 2
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LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
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**Name:** Hend Abdelhalim Hafez

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**Name:** Walid Abdelmoez

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**Lecture**

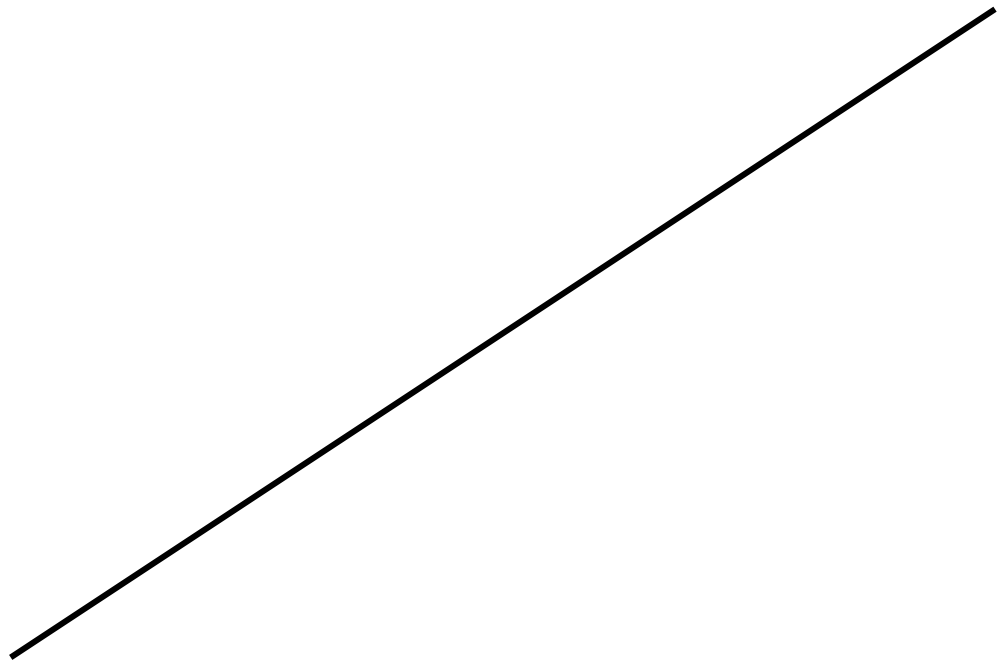
**Source Material :**

**Software Engineering, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, Chapter 22**

**Supplementary Material: *Projector, white board.***

**Educational Resources: *Handouts, presentations, assignments.***

**Tutorial / laboratory / Workshop (Delete as required)**





## SESSION PARTICULARS

# 13	Title: Verification and validation	Hrs: 2
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Planning verification and validation
2	Software inspections
3	Automated static analysis
4	Verification and formal methods
5	Planning verification and validation
6	Software inspections
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**Prepared by**

**Designation:** Ms.

**Name:** Hend Abdelhalim Hafez

**Signature:**

**Date:** 07/09/2010

**Approved by**

**Designation:** Dr.

**Name:** Walid Abdelmoez

**Signature:**

**Date:** 07/09/2010

**Lecture**

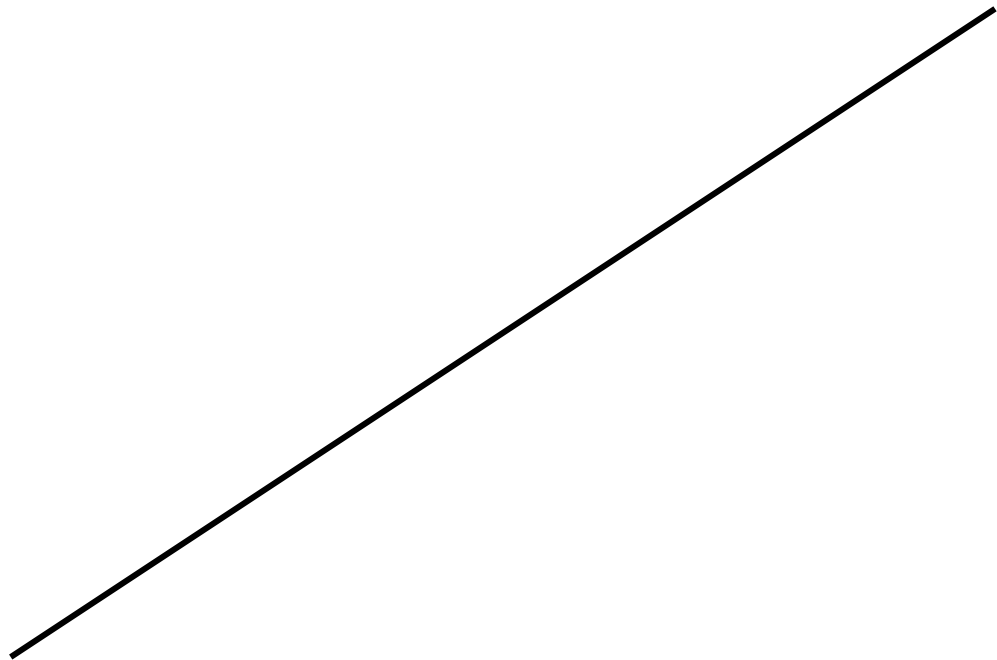
**Source Material :**

**Software Engineering, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, Chapter 22**

**Supplementary Material: *Projector, white board.***

**Educational Resources: *Handouts, presentations, assignments.***

**Tutorial / laboratory / Workshop (Delete as required)**



**SESSION PARTICULARS**

# 14	Title: Object- Oriented Concepts	Hrs: 2
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**LEARNING OUTCOMES / ABILITIES GAINED\***

#	Outcome Description
1	The Object-oriented paradigm
2	Object-oriented concepts
3	Classes and objects
4	Attributes
5	Operations, methods and services
6	Identifying classes and objects
7	Specifying attributes
8	Defining operations
9	Finalizing the object definition
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**Prepared by****Designation:** Ms.**Name:** Hend Abdelhalim Hafez**Signature:****Date:** 07/09/2010**Approved by****Designation:** Dr.**Name:** Walid Abdelmoez**Signature:****Date:** 07/09/2010

**Lecture**

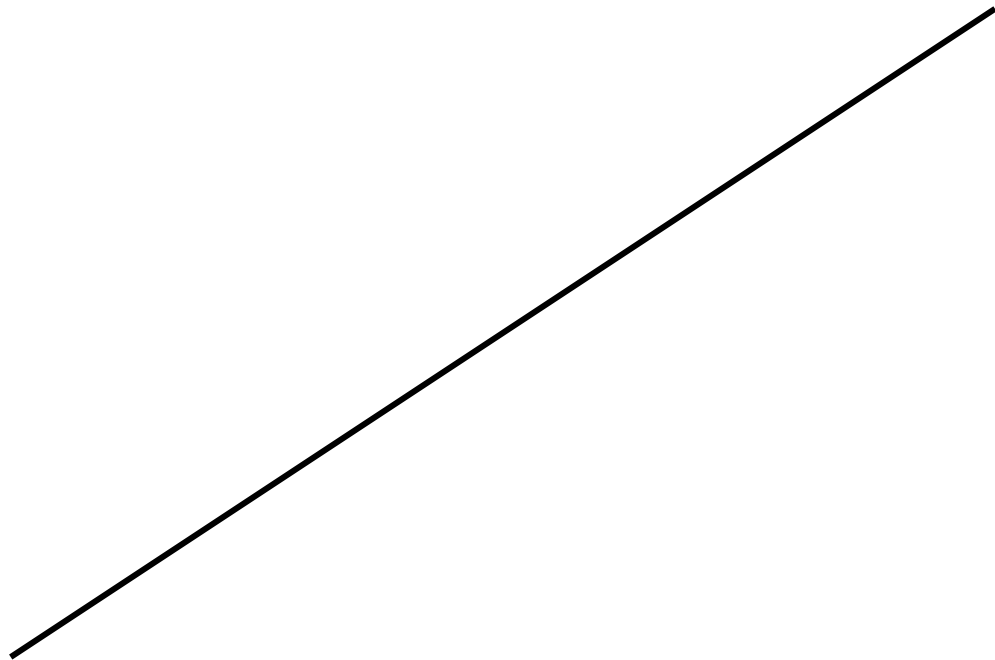
**Source Material :**

**Software Engineering, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, Chapter 22**

**Supplementary Material: *Projector, white board.***

**Educational Resources: *Handouts, presentations, assignments.***

**Tutorial / laboratory / Workshop (Delete as required)**



## SESSION PARTICULARS

<b># 15</b>	<b>Title:</b> Object- Oriented Analysis and Design	<b>Hrs:</b> 2
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## LEARNING OUTCOMES / ABILITIES GAINED\*

#	Outcome Description
1	Conventional vs. OO approaches
2	The OOA landscape
3	The unified approach to OOA
4	Objects and object classes
5	An OO design process
6	Design models
7	Design evolution
8	Modular decomposition styles: OO decomposition
9	Objects and object classes
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### Prepared by

**Designation:** Ms.

**Name:** Hend Abdelhalim Hafez

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### Approved by

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**Lecture**

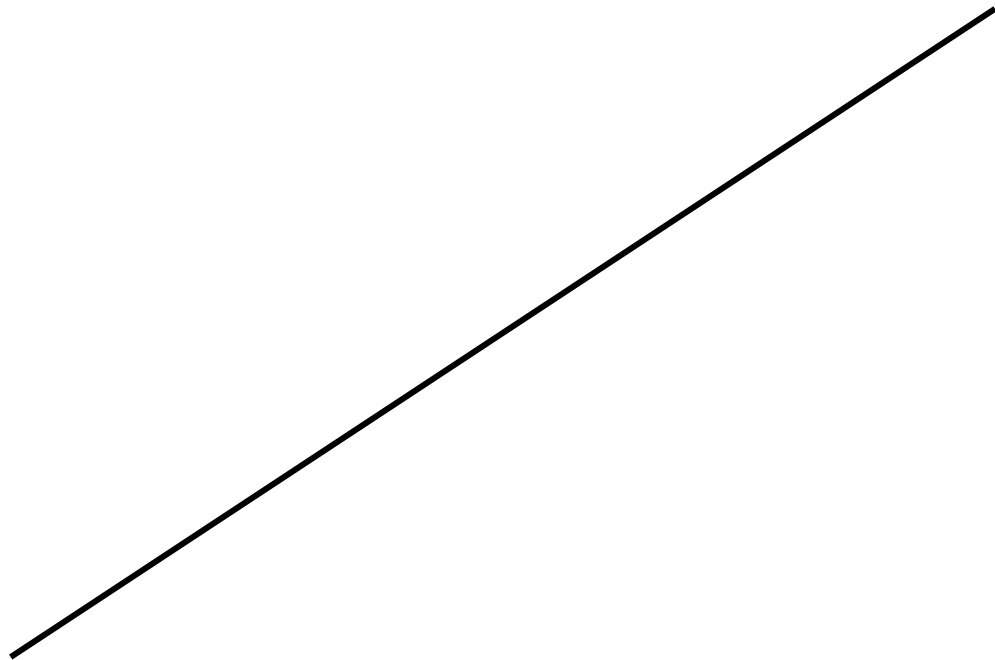
**Source Material :**

**Software Engineering**, Sommerville, 7<sup>th</sup> Edition, 2004, Pearson, **Chapter 14** and **Chapter 11**  
page 252-254

**Supplementary Material:** *Projector, white board.*

**Educational Resources:** *Handouts, presentations, assignments.*

**Tutorial / laboratory / Workshop (Delete as required)**



**SESSION PARTICULARS**

#: 16...	Title: Final Exam	Hrs: 2
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**LEARNING OUTCOMES / ABILITIES GAINED\***

#	Outcome Description
1	Final Exam
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**Prepared by****Designation:** Ms.**Name:** Hend Abdelhalim Hafez**Signature:****Date:** 07/09/2010**Approved by****Designation:** Dr.**Name:** Walid Abdelmoez**Signature:****Date:** 07/09/2010**Lecture****Source Material:****Supplementary Material:****Educational Resources:**

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<b>Tutorial / laboratory / Workshop (Delete as required)</b>
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