

# Faculty of Computers and Information Technology

Software Engineering-2

Information	<u>ı:</u>					
Course Co	<b>de</b> : CS352	Level	:	Undergraduate	Course Hours :	3.00- Hours
Departmen	t: Department of Ir	formation Syste	ms			
<u>Area Of Stu</u>	<u>ıdy :</u>					
Use effective Understand Use and ac	olution for the requiren vely communication sk I knowledge that enha lopt fundamental of sc nd deeply the basic co	tills. nces skills in sof ftware engineeri	tware ng.	e reuse and critical s	system development. em process and comp	onents
Descriptior	1:					
Architecture					s Engineering Process Reuse, Software Verifi	
Course out	<u>comes :</u>					
a.Knowledg	ge and Understandin	g: :				
1 -	Identify quantitative t	echniques and r	netho	ods of software syste	em	
2 -	Explain the principle	s and techniques	s of s	oftware developmer	t methods	
3 -	Identify the fundame development	ntal topics of sof	tware	e engineering such a	as software reuse and	critical system
b.Intellectu	al Skills: :					
1 -	Analyze different architectural and object oriented designs					
2 -	Select appropriate methodologies and techniques for design of a software system					
3 -	Classify methods and techniques to implement software system					
c.Professio	nal and Practical Sk	ills: :				
1 -	Apply effective information to design, implement and test a software system					
2 -	Construct and evaluate using user interface design using human computer interaction concepts					
3 -	3 - Deploy documentation and development tools for software systems					
d.General a	nd Transferable Skil	ls: :				
1 -	Work on a team for the development of a design and testing documents					
2 -	Apply communications skills in presentation and report writing of a software project deliverables					
ABET Cour	se outcomes :					
1 -	Perform an architect	ural design for th	ne rec	quirements of a give	n software system.	
2 -	Carry out detailed de	esign for given so	oftwa	re system.		



3 -	Communication effectively.	
4 -	Understand different approaches for software reuse and critical system development.	
5 -	5 - Implement, test, and evaluate a software system.	
6 -	Work effectively in a team.	

#### **Course Topic And Contents :**

Торіс	No. of hours	Locturo	Tutorial / Practical
	No. of hours	Leciule	Tutonal / Flactical
Review of Software Requirements Engineering	4	2	2
Software Architectural Design I	4	2	2
Software Architectural Design II	4	2	2
Object Oriented Design I	4	2	2
Object Oriented Design II	4	2	2
Software Testing I	4	2	2
Software Testing II	4	2	2
Software Verification and Validation I	4	2	2
Mid-Term Exam	2		
The software Reuse I	4	2	2
The software Reuse II	4	2	2
Critical System Development	4	2	2
Project presentation	4	2	2
Final Exam	2		

# Teaching And Learning Methodologies :

Interactive Lectures including discussion
Tutorials

#### Practical Lab Sessions

Self-Study (Project / Reading Materials / Online Material / Presentations)

Seminars

**Case Studies** 

## Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments	5.00	4	
Final Exam	40.00	14	
Midterm Exam (s)	20.00	9	
Others (Participations)	5.00		
Presentations	5.00	12	
Quizzes	10.00	5	
Team Work Projects	15.00	12	

http://www.fue.edu.eg



### Course Notes :

An Electronic form of the Course Notes and all the slides of the Lectures is available on the Students Learning Management System (Moodle)

#### Web Sites :

www.ekb.eg