

Faculty of Computers & Information Technology

Software Engineering-2

Information:

Course Code: CSC 352 Level: Undergraduate Course Hours: 3.00- Hours

Department : Department of Information Systems

Area Of Study:

This course provides a review of Software Development and Requirements Engineering Process. Software Architecture Design, Object Oriented Design, Software Testing, Software Reuse, Component Based Software Development, Software Verification and Validation, Critical System Development

Description:

Critical systems: dependability, critical systems specification, critical systems development. Verification and validation: software testing, critical system validation. Management: managing people, software cost estimation, quality management, processing improvement. Evolution: legacy systems, software change, software re-engineering. Configuration management

Course outcomes:

a. Knowledge and Understanding: :

- 1 1. Understand that the engineering discipline is necessary for software development.
- 2 2. Understand the concept of reuse and its benefits
- 3 3. Understand the special characteristics of Critical System Development.
- 4 4. Understand the different types of testing

b.Intellectual Skills: :

1 - 1. Utilize critical thinking in analysis and evaluation of different models and techniques that are used in software development

c.Professional and Practical Skills: :

- 1 1. Develop a Software Architectural Design for a given system requirement document,
- 2 2. Design and implement an Object Oriented System
- 3 3. Practice teamwork in developing software project.
- 4 4. Develop a standard software design document.

d.General and Transferable Skills: :

1 - 1. Use an effective way for oral and written communication

Course	opic	And	Contents	:
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Topic	No. of hours	Lecture	Tutorial / Practical
Review of software development Process	3	2	2



Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
Software Requirements Engineering	3	2	2
Software Architectural Design I	3	2	2
Software Architectural Design II	3	2	2
Object Oriented Design I	3	2	2
Object Oriented Design II	3	2	2
Software Testing I	3	2	2
Software Testing II	3	2	2
Software Verification and Validation I	3	2	2
Software Verification and Validation II	3	2	2
The software Reuse I	3	2	2
The software Reuse II	3	2	2
Critical System Development	3	2	2

eaching And Learning Methodologies :
Lectures
Exercises
Open Discussion
Practical training
Presentation
Projects
Case Study

Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
1.Mid Term Exam.	20.00	7	To assess Topics No: 1,2,3,4,5,6
2- Open Discussion	10.00	3	To assess Topics No: 5-12
3- Project.	20.00	12	To assess Topics No: 3-8
4- Presentation	10.00	14	To assess TopicsNo:1,2,3,4,13
5- Final Exam	40.00	16	To assess Topics No:3-8