



# Course Specification

— (Bachelor)

Course Title: **Software Documentation**

Course Code: **SE1764**

Program: **Bachelor of Software Engineering**

Department: **Software Engineering**

College: **Faculty of Computing and Information**

Institution: **Al-Baha University**

Version: **V1**

Last Revision Date: **24/4/2024**



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## A. General information about the course:

### 1. Course Identification

1. Credit hours: ( 3 )

#### 2. Course type

A.  University  College  Department  Track  Others  
 B.  Required  Elective

3. Level/year at which this course is offered:

#### 4. Course general Description:

This course provides an overview of writing methods and practices that software engineers use to create software documentation and documentation process for programmer and system tests. It also provides a guideline of different types of documentation such as user documentation, style and layout, and system documentation.

5. Pre-requirements for this course (if any):

6. Pre-requirements for this course (if any):

#### 7. Course Main Objective(s):

The main objective of this course is to provide students with a broad perspective on software documentation.

### 2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3	100%
2	E-learning		
3	Hybrid		



No	Mode of Instruction	Contact Hours	Percentage
	<ul style="list-style-type: none"> <li>Traditional classroom</li> <li>E-learning</li> </ul>		
4	Distance learning		

### 3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	33
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)	
<b>Total</b>		<b>33</b>

## B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge and understanding</b>			
1.1	Explain the forms of software documentation	<b>K1</b>	Coop learning. Lectures Problem sets	Exams Rubrics Course Survey Exit
1.2	Explain the process of software documentation, from user analysis thru editing and fine tuning	<b>K2</b>	Coop learning. Lectures	Exams Rubrics Course Survey Exit
1.3	Explain the tools of software documentation such as screen and page design and the elements of	<b>K3</b>		



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	each and how to build the K2 best document to fit all type of users			
<b>2.0</b>	<b>Skills</b>			
2.1	Understand the major sections of the system requirements specification: functional requirements, performance requirements, interface requirements, design constraints, and characteristic.	<b>S1</b>		<b>Quizzes</b>
2.2	Obtain experience in writing structured use case descriptions and creating non-functional requirements.	<b>S2</b>	<b>Group Discussion Brainstorming</b>	<b>Midterm, Final Exam Rubrics Course Exit Survey</b>
2.3	Obtain experience in evaluating use case descriptions during the baselining process.	<b>S3</b>	<b>Exercises set Mini project</b>	<b>Midterm, Final Exam Rubrics Course Exit Survey</b>
<b>3.0</b>	<b>Values, autonomy, and responsibility</b>			
3.1	Applying self-learning and personal development skills in the V2 use of various technology applications and tools.	<b>V1</b>	<b>Project, discussion</b>	<b>Project</b>
3.2				





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
...				

### C. Course Content

No	List of Topics	Contact Hours
1.	introduction to Requirement Documentation	5
2.	Requirements Documentation Concepts	4
3.	Functional and Non-Functional Requirements	4
4.	Requirements Specification Components	4
5.	Requirements Specification Process	4
6.	Success Case study Scenarios	4
7.	Writing Data Specifications	4
8.	Evaluating Requirements Specifications	4
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<b>Total</b>		<b>33</b>

### D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Assignments and Quizzes	4,6,9	20%
2.	Group Project	10	20%
3.	Midterm Exam	5	20%
4.	Final exam	12	40%

\*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

### E. Learning Resources and Facilities

#### 1. References and Learning Resources

<b>Essential References</b>	Wiegers, Karl and Beatty, Joy. Software Requirements (Developer Best Practices) 3rd Edition, 2013
<b>Supportive References</b>	Blokdyk, Gerardus. Software Requirements Specification A Complete Guide - 2020 Edition, 2020
<b>Electronic Materials</b>	<b>Al-Baha e-learning system containing teaching resources (Slides, assignment papers, etc.)</b>
<b>Other Learning Materials</b>	



## 2. Required Facilities and equipment

Items	Resources
<b>facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture room with: * at least 30 seats * sliding board
<b>Technology equipment</b> (projector, smart board, software)	* A data show projector connected to a PC preferably with Internet connection.
<b>Other equipment</b> (depending on the nature of the specialty)	N/Y

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	<ul style="list-style-type: none"> <li>Students</li> <li>Faculty</li> <li>Peer Reviewers</li> <li>Program Leader</li> </ul> Course Coordinator	<ul style="list-style-type: none"> <li>Surveys (indirect).</li> <li>Direct feedback from students (interview between Program leader and students).</li> <li>Course evaluation by Peer Reviewers (indirect).</li> <li>Class visit by Program Leader</li> </ul> Comprehensive Course report (where we can find information about teaching difficulties and action plan, ...)
Effectiveness of Students assessment	<ul style="list-style-type: none"> <li>Students</li> <li>Faculty</li> <li>Peer Reviewers</li> <li>Course Coordinator</li> <li>Exam Evaluation Committee</li> </ul> Course Coordinator	<ul style="list-style-type: none"> <li>Surveys (indirect).</li> <li>Direct feedback from students (interview between Program leader and students).</li> <li>Assessment results (direct)</li> <li>Course evaluation by Peer Reviewers (indirect).</li> <li>Comprehensive Course report (where we can find information about assessment difficulties and action plan, ...)</li> </ul> Exam evaluation by the Exam Evaluation Committee (indirect)
Quality of learning resources	<ul style="list-style-type: none"> <li>Students</li> <li>Faculty</li> <li>Peer Reviewers</li> </ul> Course Coordinator	<ul style="list-style-type: none"> <li>Surveys (indirect)</li> <li>Course evaluation by Peer Reviewers (indirect).</li> </ul> Comprehensive Course report (where we can find information about difficulties and challenges about learning resources as well as



Assessment Areas/Issues	Assessor	Assessment Methods
		consequences and action plan, ...)
The extent to which CLOs have been achieved	<ul style="list-style-type: none"> <li>• Faculty</li> <li>• Program Leader</li> <li>• Course Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Student Results (direct)</li> <li>• Comprehensive Course report (where we can find the CLO assessment results)</li> </ul>
Other		

**Assessors** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

### G. Specification Approval

<b>COUNCIL /COMMITTEE</b>	Curriculum Committee
<b>REFERENCE NO.</b>	
<b>DATE</b>	28 April 2024

