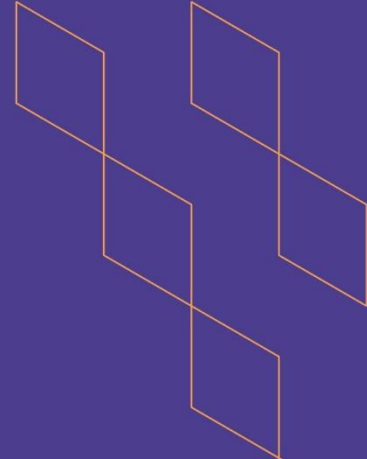




T-104  
2022

## Course Specification



Course Title: <b>Senior Project for IT 2</b>
Course Code: <b>IT11203</b>
Program: <b>Bachelor of Information Technology</b>
Department: <b>Information Technology</b>
College: <b>Faculty of Computer Science and IT</b>
Institution: <b>AlBaha University</b>
Version: <b>01</b>
Last Revision Date: <b>29 March 2023</b>



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## A. General information about the course:

### 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

Final Year Projects represent the culmination of study towards the Bachelor of Information Technology degree. This course represents an extension of the Senior Project for IT1 course. It will focus on the system design improvement, implementation, optimization, test and validation. At the end of this course, the project has to be totally delivered. The students are required to present their work through a project report, oral presentation, poster and system demonstration. Once the project is finished and the final evaluation is conducted, the students have to submit the final versions of the project documentations and the source codes to the department.

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

Senior Project for IT 1 (IT10701)

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

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

The main objectives for this course are to:

1. Provide the students with an opportunity to improve the design of their solution and to refine their work.
2. Help students to prove their skills in system development and optimization using the appropriate technologies and tools.
3. Give the students the occasion to test and evaluate their developed system.
4. Expose the students to group learning and teamwork, time and stress management, and allow them also to demonstrate individual initiative.
5. Improve the oral and written communication skills of the students as well as their English level.

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

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	33	100%
2.	E-learning		



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

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

No	Activity	Contact Hours
1.	Lectures	
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify) <b>meetings which can be through a Learning management System - LMS (e.g Rafid)</b>	33
	<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
1.0	Knowledge and understanding			
1.1	Recall the results of requirement analysis and solution design details	K1	<ul style="list-style-type: none"> <li>Physical and online meetings with supervisor</li> <li>Group discussion</li> <li>Project assignments</li> <li>Reading</li> </ul>	<ul style="list-style-type: none"> <li>Midterm Evaluation Exam (Rubrics)</li> </ul>
2.0	Skills			
2.1	Implement the system components based on the specified requirements and design	S1	<ul style="list-style-type: none"> <li>Physical and online meetings with supervisor</li> <li>Group discussion</li> <li>Project assignments</li> <li>Reading and research</li> </ul>	<ul style="list-style-type: none"> <li>Midterm Evaluation (Rubrics)</li> <li>Final Evaluation Exam (Rubrics)</li> </ul>
2.2	Perform system testing, evaluation and optimization.	S2	<ul style="list-style-type: none"> <li>Physical and online meetings with supervisor and stakeholders</li> <li>Group discussion</li> <li>Project assignments</li> <li>Case Study</li> <li>Seminars/Trainings</li> </ul>	<ul style="list-style-type: none"> <li>Midterm Evaluation (Rubrics)</li> <li>Final Evaluation Exam (Rubrics)</li> </ul>
2.3	Prepare system documentation and presentation.	S3	<ul style="list-style-type: none"> <li>Physical and online meetings with supervisor</li> <li>Group discussion</li> <li>Project assignments</li> <li>Case Study</li> <li>Seminars/Trainings</li> </ul>	<ul style="list-style-type: none"> <li>Final Evaluation Exam (Rubrics)</li> </ul>
3.0	Perform the analysis and define the detailed requirements and specifications			
3.1	Make the assigned tasks on time within a team or independently with seriousness, enthusiasm, responsibility and	V1	<ul style="list-style-type: none"> <li>Physical and online meetings with supervisor</li> <li>Group discussion</li> <li>Project assignments</li> </ul>	<ul style="list-style-type: none"> <li>Midterm Evaluation Exam (Rubrics)</li> <li>Final Evaluation Exam (Rubrics)</li> </ul>



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	respect to ethics and to other's opinions.		<ul style="list-style-type: none"> <li>• Seminars/Trainings</li> </ul>	
3.2	Demonstrate ability to communicate, using a good English level, with peers, supervisors, evaluation committee member or industry, whether through an oral presentation, a report, a poster or a system demonstration.	V2	<ul style="list-style-type: none"> <li>• Physical and online meetings with supervisor</li> <li>• Group discussion</li> <li>• Project assignments</li> <li>• Seminars/Trainings</li> </ul>	<ul style="list-style-type: none"> <li>• Midterm Evaluation Exam (Rubrics)</li> <li>• Final Evaluation Exam (Rubrics)</li> </ul>

### C. Course Content

No	List of Topics	Contact Hours
1.	Prototype implementation	12
2.	Solution optimization	9
3.	Testing and verification	6
4.	Project documentation preparation (reports, presentations, poster, system demonstration, ...)	6
5.	Prototype implementation	12
6.	Solution optimization	6
7.	Testing and verification	6
8.		
9.		
10.		
11.		
12.		
13.		
<b>Total</b>		<b>33</b>





## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Evaluation Exam	Week 6	30% (by the project Supervisor)
2.	Report and slides assessment	Week 11	10% (by the project supervisor/rubric)
3.	Assessment of student commitment, seriousness, and enthusiasm (following supervisor instructions including attending required training and workshops)	Before the end of week 11	10% (by the project supervisor/evidence)
4.	Final Evaluation Exam (Oral Presentation in front of the Evaluation Committee as well as providing a project report)	Week 12	50% (by independent evaluation committee)
...	<b>Total</b>		<b>100%</b>

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





## E. Learning Resources and Facilities

### 1. References and Learning Resources

Essential References	ACM (Association for Computer Machinery) Curricula Recommendations 2017 – <a href="https://www.acm.org/binaries/content/assets/education/curricula-recommendations/it2017.pdf">https://www.acm.org/binaries/content/assets/education/curricula-recommendations/it2017.pdf</a>
Supportive References	None
Electronic Materials	Access to the Saudi Digital Library (SDL). Using the learning management system of the university – Rafid System ( <a href="https://lms.bu.edu.sa/">https://lms.bu.edu.sa/</a> ).
Other Learning Materials	Project Specific (depends on the project specific hardware and software requirements)

### 2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<ul style="list-style-type: none"> <li>A classroom or lecture hall with whiteboard for 3-5 students or more to present their project work.</li> <li>A laboratory with 3-5 computers or more to be used to prepare the project.</li> </ul>
Technology equipment (projector, smart board, software)	<ul style="list-style-type: none"> <li>A laptop or access to a desktop computer with access to necessary computational tools and platforms.</li> <li>A digital image projection system with connection to desktop or laptop computer.</li> <li>High speed Internet connection</li> </ul>
Other equipment (depending on the nature of the specialty)	<ul style="list-style-type: none"> <li>Mainly the software and hardware used for IT-related senior projects (e.g networking, cloud-computing, IoT, cybersecurity, system administration, ....).</li> </ul>

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	<ul style="list-style-type: none"> <li>Students</li> <li>Peer Reviewer</li> <li>Program Leaders</li> </ul>	<ul style="list-style-type: none"> <li>Survey (indirect)</li> <li>Peer review (direct)</li> <li>Class visit (direct)</li> </ul>
Effectiveness of students assessment	<ul style="list-style-type: none"> <li>Students</li> <li>Exam Evaluation Committee</li> <li>Course Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>Survey (indirect)</li> <li>Exam Review (direct) review of course file (direct)</li> </ul>
Quality of learning resources	<ul style="list-style-type: none"> <li>Faculty</li> <li>Students</li> </ul>	Survey (indirect)







Assessment Areas/Issues	Assessor	Assessment Methods
The extent to which CLOs have been achieved	<ul style="list-style-type: none"> <li>Faculty</li> <li>Program Leaders or Course Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>Exams (direct)</li> <li>Exit Exams (direct)</li> </ul>
Other		

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

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval Data

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	29/01/2023

