

University of Halabja
Directorate of Quality Assurance



SUBJECT OUTLINE

Academic Year: 2023-2024

1. Information on the Programme

Higher education institution	University of Halabja
College	College of Science
Department	Computer Science
Field of study	Computer Science
Cycle of study¹	First Cycle
Specialization/ Study programme	N/A
Form of education	Full time

2. Information on the Discipline

Discipline Name	VISUAL PROGRAMMING	Discipline Code	1010401
ECTS	5	Language	English
Lecturer (Theory)		Home page	
Moodle Course link		Google Scholar	
E-mail	Peshang.kareem@uoh.edu.iq	Tel	
Practical/Seminar / laboratory/ project Lecturer	Peshang Hasan Karim	Home page	
Moodle Course Link		Google Scholar	
E-mail	Peshang.kareem@uoh.edu.iq	Tel	
Study Year	2	Semester	4 th
Assessment type²	Exam	Discipline status	
Content³	SD	Mandatory⁴	MD

3. Prerequisites (if applicable)

Curriculum-related	Capability of understanding the basics of Java programming language.
Skills-related	

6. Conditions (if applicable)

For the Theoretical	The lectures are presented to the students using white board, colorful markers and Data show Students must bring pencil and paper (or Notebook) Students must present 90% of lectures
For the Practical/Lab. /Project	Using computers in computer lab. Students can bring their laptops (Recommended). Students must present 90% of lectures

7. Cumulated specific competences

Professional competencies	
Transversal competences	Data analyzing, Problem solving, Programming, Teamwork.

7. Discipline objectives (based on the cumulated specific competences)

General objective	The aim of the course is to evaluate computer programming strategies/methods that could be required in software design based on Object Oriented programming techniques.
Specific objectives (Learning Outcomes)	<ul style="list-style-type: none"> • Explain basic concepts and definitions. • Using visual programming language concepts to solve problems and required tasks. • Using the fundamental software development process, including design, coding, documentation, testing, and debugging.

8. Content

Theoretical- Number of hours	Teaching	Observation
First week	Course Information	2 hours
Second week	Introduction to Graphical user Interfaces	2 hours

Third week	Swing Components	2 hours
Fourth week	Layout Managers	2 hours
Fifth week	Event Handling	2 hours
Sixth week	JDBC	2 hours
Seventh week	Exception Handling	2 hours
Eighth week	Seminar Presentation	2 hours
Ninth week	File Processing	2 hours
Tens week	Java FX Basics	2 hours
Eleventh week	Project Presentation	2 hours
Twelfth week	Java FX More Detail	2 hours
Thirteenth week	Final Exam (Theory & Practical)	2 hours

Practical Works– Number of hours	Teaching	Observation
First week	Course Information	2 hours
Second week	Introduction to Graphical user Interfaces	2 hours
Third week	Swing Components	2 hours
Fourth week	Layout Managers	2 hours
Fifth week	Event Handling	2 hours
Sixth week	JDBC	2 hours
Seventh week	Exception Handling	2 hours
Eighth week	Seminar Presentation	2 hours
Ninth week	File Processing	2 hours
Tenth week	Java FX Basics	2 hours
Eleventh week	Project Presentation	2 hours
Twelfth week	Java FX More Detail	2 hours

Thirteenth week	Final Exam (Theory & Practical)	2 hours
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9. Compulsory bibliography

- 1- Beginning Java * APIs, Extensions and Libraries (Swing, JavaFX, JavaScript, JDBC and Java Programming APIs)
- 2- Introduction to Java Programming, Eleventh Edition©2018 Liang, Pearson Education, Ltd. Lecture notes that will be delivered during the classes.

Optional bibliography

- 1-

10. Corroborating the discipline content with the expectations of the epistemic community representatives, of the professional associations and of the relevant employers in the corresponding field

- 1.
- 2.
- 3.
- 4.

11. Assessment

Type of activity	Assessment criteria ²	Assessment type	Final grade Percentage
Theoretical	Written Exam	writing examination	%40
Practical/Laboratory	Oral Exam	Seminars , Report& Projects	%40
Activity during semester	Oral Exam	Assignment, Seminars Quiz &Class Activity	%20

Minimum performance standards: Reading English well and having an introduction to the basics of Java programming language

Theoretical Lecturer	Asst. Lec.
Practice Lecturer	Asst. Lec.

Approved by the Curriculum development Committee	
1	
2	
3	
Head of the Department/ Dean	

Notes:

- 1 Cycle of studies - choose one of the three options: Bachelor «1», Master «2», Ph.D. «3»
- 2 (Exam: oral examination, written exam), and (Continous Evaluation(CE), portfolio).
- 3 Discipline status (content) - for the Bachelor level, choose one of the options: FD (fundamental (General) discipline), PF (Preparatory Disciplines in the Field), SD (Specialty Disciplines), CD (Complementary Disciplines), DU (disciplines based on the university's options).
- 4 Discipline status (compulsoriness) - choose one of the options
 - MD (Mandatory discipline),
 - OD (optional discipline),
 - ED (Elective (Facultative) discipline).
- 5 Note: 1 ECTS = 27 hours workload; $ECTS = WL/27$, The first week is registration and introduction to the course.