



Course Specification (Bachelor)

Course Title: Computer Programming-2

Course Code: 501222-3

Program: Bachelor of Computer Science

Department: Department of Computer Science

College: College of Computers and Information Technology

Institution: Taif University

Version: 1

Last Revision Date: 01-02-2024







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A. General information about the course:

1. Course Identification

1. Credit hours: (4-/22)

2.	Course type	
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Α.	🗆 University	⊠ College	Departmen	t 🗆 Track	□ Others
В.	🛛 Required		🗆 Ele	ective	
3. L	3. Level/year at which this course is offered: (4 th level/2 year)				

4. Course general Description:

This course is a continuation of 501220-3 Computer Programming (I). It extends programming concepts to include functions, pointers, functions and arrays, string manipulation, file handling, and introducing object oriented programming

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

501220-3

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

None

7. Course Main Objective(s):

Students at the end of this course are able :

- Review basic programming concepts such as variable, constant, control statement and loops
- Prepare students to write and use functions using references and arrays
- Introduce students to basics of object orientated programming

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3	60%
2	Blended		
3	E-learning		
4	Correspondence		
5	Other (Lab)	2	40%





3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lecture	45
2.	Laboratory/Studio	30
3.	Tutorial	
4.	Others (specify)	
	Total	75

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	Кпоw	ledge and und	erstanding			
2.0		Skills				
2.1	Ability to write functions and write programs that use functions	S2	Lectures Labs Project	Direct Assessment Tool Quizzes / Homework/Project/ Exams Indirect Assessment Tool Course Exit Survey		
2.2	Ability to write functions and programs using arrays and strings	S2	Lectures Labs Project	Direct Assessment Tool Quizzes / Homework/Project/ Exams Indirect Assessment Tool Course Exit Survey		
2.3	Ability to create basic object- oriented programs	S1	Lectures Labs Project	Direct Assessment Tool Quizzes / Homework/Project/ Exams Indirect Assessment Tool Course Exit Survey		
3.0	0 Values, autonomy, and responsibility					





C. Course Content

No	List of Topics	Contact Hours
1.	Review of basic programming concepts, control statements and loops	5
2.	Predefined functions and user defined functions	10
3.	Pointers, functions and parameter passing	10
4.	Functions: Scope, local variable and global variable	10
5.	Functions:, static variables, function overloading	5
6.	String class	5
7.	File Input Output	5
8.	Functions and arrays	10
9.	Classes and objects	15
	Total	75

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	HomeWorks/StudentParticipation-Attendance	Every Week	10%
2.	Quizzes	Week 4 & 12	10%
3.	Mid-Term	Week 7	20%
4.	Final Labs Exam	Week 15	10%
5.	Final Examination	Week 16	50%

*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	• C++ Programming: From Problem Analysis to Program, D S Malik, CEGAGE Learning, 2011		
Supportive References	•	C++ how to Program, Harvey M. Deitel and Paul J. Deitel, Prentice Hall, 2008	
Electronic Materials	•	TBA during the course	
Other Learning Materials	•	TBA during the course	





2. Required Facilities and equipment

Items	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	 Classroom with 20-30 chairs Lab with 15 PCs and required software tools installed (Eclipse or NetBeans)
Technology Resources (AV, data show, Smart Board, software, etc.)	Video projector / data showWhite board
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	 Students Faculty members Coordinator Council Curriculum Committees 	 Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
Effectiveness of assessment	 Students Faculty members Coordinator Council Curriculum Committees 	 Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
Extent of course achievement	 Students Faculty members Coordinator Council Curriculum Committees 	 Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
Extent of course learning outcomes	StudentsFaculty members	Course exit survey





Assessment Areas/Issues	Assessor	Assessment Methods
	 Coordinator Council Curriculum Committees 	 Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees
Quality of learning resources	 Students Faculty members Coordinator Council Curriculum Committees 	 Course exit survey Feedback from Faculty members Feedback from Course Coordinator Feedback from council Feedback from Curriculum Committees

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	CS council
REFERENCE NO.	Meeting #11
DATE	07/03/2024



