

Course Specifications

Course Title:	Computer Programming 1
Course Code:	CP31
Program:	Diploma in Programming and Computer Sciences
Department:	Technology department
College:	Applied College
Institution:	Taif University











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A. Course Identification

1. Credit hours:	4 (2 hou	ırs/week the	eoretical +1 hou	ır/week practical)
2. Course type				<u></u>
a. University	Colleg	e Del	partment	Program 🗸
b. Requir	red 🗸	Elective		
3. Level/year at whi	ich this c	ourse is offer	ed: First Year	· / Third Level
4. Pre-requisites for	this cou	rse (if any):		
			Null	
5. Co-requisites for	this cour	se (if any):		
			Null	

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3 hours/week	50%
2	Blended		
3	E-learning		
4	Distance learning		
5	Other (Lab)	3 hours/week	50%

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	30
3	Tutorial	
4	Others (specify)	
	Total	60

B. Course Objectives and Learning Outcomes

1. Course Description

In this course on computer programming students are taught basic programming concepts, such as, variables and constants, control structures, through programming in Java. They learn to write programs that use various data types, methods, arrays, and I/O from/ to console and files.

2. Course Main Objective

This course provides an introduction to computer programming. Students at the end of this course are able to write computer programs in Java to solve simple computing problems.

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	Knowledge and Understanding	
1.1	Understand the basic terminology used in Java Programming Language.	K2
1.2	Understand the use of basic control structures	K2
1.3	Define how to use arrays and handle files,	K2
2	Skills:	
2.1	Execute programs written in Java language (write, compile and debug).	S 1
2.2	Use different data types in a computer program.	S 2
2.3	Design programs involving decision structures and loops.	S 2
3	Values:	
3.1	Null	

C. Course Content

No	List of Topics	Contact Hours
1	Introduction: Introduction Java Feature Programming	6 (3H theoretical + 3H practical)
2	I/O statement from/ to console, variables, data typesand naming conventions assignment.	6
3	Increment/decrement operations, type casting arithmetic operations and operator precedence.	6
4	If statement, nested if and if-else statement.	6
5	logical operations and switch statement.	6
6	Loop statements: for, while and do-while statements.	6
7	Nested loops, break and continue statements.	6
8	Methods and signature .	6
9	Arrays handling.	6
10	Files Input/output handling.	6
	Total	60

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	TeachingStrategies	AssessmentMethods
1.0	Knowledge and Understanding		
1.1	Understand the basic terminology used in computer programming.	Lectures	Direct Quizzes / Homework Exams Indirect Course Exit Survey
2.0	Skills		
2.1	Execute programs written in Java language (write, compile and debug).	Lectures Labs	Direct Quizzes / Homework Exams

Code	Course Learning Outcomes	TeachingStrategies	AssessmentMethods
			Indirect Course Exit Survey
2.2	Use different data types in a computer program.	Lectures Labs	Direct Quizzes / Homework Exams Indirect Course Exit Survey
2.3	Design programs involving decision structures and loops.	Lectures Labs	Direct Quizzes / Homework Exams Indirect Course Exit Survey
3.0	Values		
	Null		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	HomeWorks/StudentParticipation-Attendance	Every Week	5%
2	Research/ Quizzes	3 →10	5%
3	Mid-Term	6	20%
4	Final Labs Exam	11	20%
5	Final Examination	12	50%

^{*}Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- ✓ Providing a guide for each group of students, and distributing student lists electronically to faculty members.
- ✓ There is an academic advising guide that defines the role of the faculty member in the academic advising process.
- ✓ The program supervisor is available throughout the year to answer student inquiries.
- ✓ Availability of full information about the program and its members and ways to communicate with them.
- ✓ Use the Learning Management System (Black Board) to communicate with students
- Student Handbook, Deanship of Student Affairs.

https://www.tu.edu.sa/Attachments/893d1c33-3156-44d7-b4b8-e203d4cca737_.pdf

Student Handbook at Taif University.

https://www.tu.edu.sa/Attachments/41dc8a24-22b7-4ae1-9b31-3608de8bcf8b_.pdf

F. Learning Resources and Facilities

1.Learning Resources

Required	❖ Paul Deitel, Harvey M. Deitel, Java How to Program, 9th Edition, Prentice
Textbooks	Hall, 2011, ISBN-13: 9780132575669

	❖ Y. Daniel, Introduction to Java Programming, Comprehensive Version Liang Publisher: Prentice Hall; 10th edition (January 6, 2014). ISBN-10:
Essential	0133761312 ISBN-13: 978-0133761313
References	❖ Walter Savitch, Java: An Introduction to Problem Solving and
Materials	Programming, (6Th Edition)
	❖ S. Reges& M. Stepp, Building Java Programs (3rd Edition) Publisher,
	Pearson. ISBN-13: 978-0133360905, 2013
	Browsing and searching sites on the Internet Google.
Electronic	❖ Saudi Digital Library:
Materials	https://sdl.edu.sa/SDLPortal/Publishers.aspx
Materials	❖ The digital repository of Taif University:
	http://applications/eLibrary
Other	
Learning	Course presentation slides submitted by the course coordinator (if any).
Materials	

2. Facilities Required

2. Facilities Required		
Item	Resources	
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classroom with 50 chairsLab with 25 chairs	
Technology Resources (AV, data show, Smart Board, software, etc.)	 Availability of a Data Show Provides a smart board. Provide a whiteboard and colored whiteboard pens. 	
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	❖ Null	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation 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	StudentsFaculty membersCoordinator	Course exit surveyFeedback from Faculty membersFeedback from Course

Evaluation Areas/Issues	Evaluators	Evaluation Methods
	CouncilCurriculumCommittees	CoordinatorFeedback from councilFeedback from Curriculum Committees
Extent of course learning outcomes	 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
Quality oflearning 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

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	