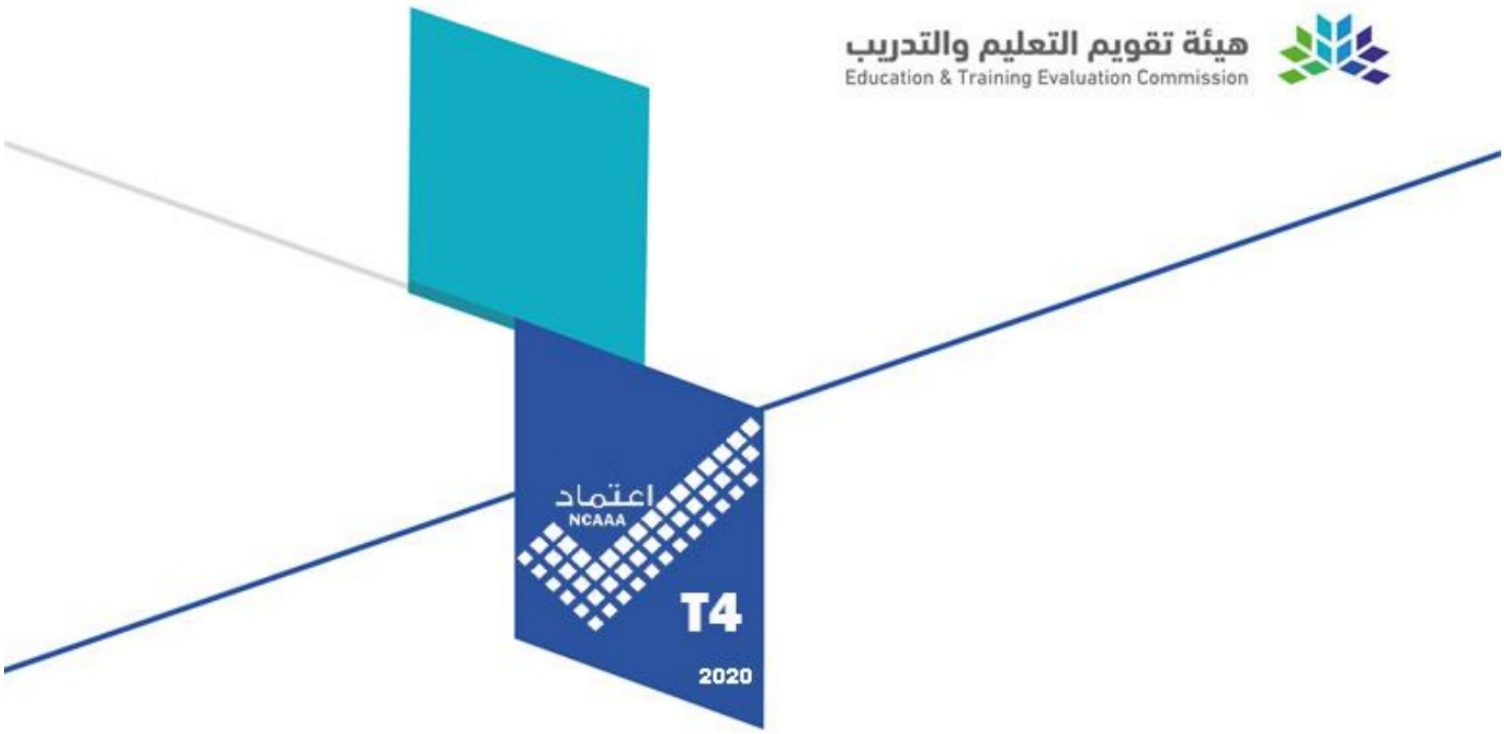
هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission



Course Specifications

Course Title:	Computer Applications
Course Code:	CS102-3
Program:	Bachelor
Department:	All
College:	College of Business
Institution:	King Khalid University

Table of Contents

A. Course Identification

1. Credit hours: 03
2. Course type **a.** University [X] College [ ] Department [ ] Others [ ] **b.** Required [X] Elective [ ]
3. Level/year at which this course is offered: Level 4
4. Pre-requisites for this course (if any)**:** 101 CSM-3
5. Co-requisites for this course (if any)**:** n/a

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**		
2	**Blended**		
3	**E-learning**	60	100
4	**Distance learning**		
5	**Other**		

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 Develop basic programming and computing skills to solve different mathematical, statistical, and general programming problems using programming tool visual C++.
2. Course Main Objective This course will develop basic programming and computing skills to solve different mathematical, statistical, and general programming problems using programming tool visual C++. During this course, the student will develop any simple software project like student information system, calculator, Library Management System etc. using the high-level computer language C++. It will help the students to learn other computer languages such as JAVA, Java Script, PHP and other Scripting Languages also.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge and Understanding**	
1.1	Understanding problem solving	
1.2	Describe programming language.	
1.3	List and recognize control structures	
1.4	Define arrays and functions	
2	**Skills :**	
2.1	Analyses and design strategies for solving basic programming problems	
2.2	Develop programs to solve a variety of problems in math, science, and business	
2.3	Manipulate arrays for storing and processing data	
3	**Values:**	
3.1	Code with C++ arithmetic, increment, decrement, assignment, relational, equality and logical operators.	
3.2	Use primitive data types, selection statements, loops, functions to write programs	
3.3	Solving the given task mathematically • Tackling the given task logically • Implementing the given task syntactically	

C. Course Content

No	List of Topics	Contact Hours
1	Orientation, seminars, Training and face to face classes	6
2	Ch:1 Programming Language, algorithm and flowchart	6
3	Ch: 2 Introduction to C++ .	4
4	Ch:3 Selection Statements (if and switch)	4
5	Ch:4 Repetition Statements (for, while, do-While)	4
6	Ch:5 Arrays	6
Total		30

D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge and Understanding**		
1.1	Understanding problem solving	Lecture through online(LMS): gives an Overview, the content, significance of the course, and its relationship to students' existing and future knowledge.	Theoretical and Practical assessment: After completion of 40% and 80% of course.Two Electronic Exams are conducted cover the content in the form
1.2	Describe programming language.		
1.3	List and recognize control structures		
1.4	Define arrays and functions		

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
			of multiple choice and true/false questions. Final Exam After completion of the course and at the end of semester, an exam is conducted in the last 40% of course in the form of multiple choice and true/false questions.
2.0	**Skills**		
2.1	Analyses and design strategies for solving basic programming problems	Lecture through online (LMS).	- Problem solving questions at the end of each topic. - Group and individual assignments for developing/solving a task through online (LMS).
2.2	Develop programs to solve a variety of problems in math, science, and business		
2.3	Manipulate arrays for storing and processing data		
3.0	**Values**		
3.1	Code with C++ arithmetic, increment, decrement, assignment, relational, equality and logical operators.	Lecture through online(LMS).	E-Exams , Labs Homework.
3.2	Use primitive data types, selection statements, loops, functions to write programs		
3.3	Solving the given task mathematically • Tackling the given task logically • Implementing the given task syntactically		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Activities and Quizzes	1-8	20%
2	Electronic Examination I	11	20%
3	Electronic Examination II	12	20%
4	Practical	During the Semester	20%
5	Final Electronic Examination	At the End of the Semester	20%

***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 :

1. Instructors must attend their office hours and create Virtual classes using Blackboard.
2. Student can send email using Blackboard and the instructor must replay at most within 48 hours.

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	Teach yourself C++ by Jesse Liberty
Essential References Materials	C++ How to Program Deitel & Deitel Programming with C++ by Aikman Series
Electronic Materials	KING KHALID UNIVERSITY is providing online electronic learning and assessment software for the students and faculties. Students are provided time to time the names of Websites, such as en.wikipedia.org, www.thefreedictionary.com, search engines, etc .for their respective subject material
Other Learning Materials	Online tutorial. The course will contain practical works for some programming tools using Visual C++. , online C++ compilers and CDs of the software are provided for students for their home PCs

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Visual C++. , online C++ compilers
Technology Resources (AV, data show, Smart Board, software, etc.)	Access to the internet.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students and faculty	A periodical questionnaire is to be given to the students for giving their feedback about a faculty and subject.

Evaluation Areas/Issues	Evaluators	Evaluation Methods
		forms to be filled with suggestions and issues from instructors by the end of every semester
Improvement of Teaching	faculty	Preparation of course report. Revision of course specification, based on previous semester course report
Verifying Standards of Student Achievement	Faculty	All the course activities are monitor by course coordinator. Several meeting in a semester (or via active Group discussion) for all course teachers and lab teachers. Update on course specification

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	

Name of Course Instructor/coordinator: Asfia Sabahath
Signature: _____ Date Specification Completed: 22/11/2020