

الجمهورية اليمنية وزارة التعليم العالي والبحث العلمي جامعة ـ صنعاء كلية الحاسوب وتكنولوجيا المعلومات وحدة ضمان الجودة

Course Specification of Computer Programming

Course No (.....)

2020/2021

I. c	ourse Identification and General Information:	
1	Course Title:	Computer Programming

Head of Department

Vise Dean for Qulity
Assurance

Assoc. Prof. Mansour N. Ali

Dean of the Faculty
Dean of Development center and Quality
Assurance

Dr. Nagi Al-Shibani

Assoc. Prof. Dr. Huda Al.Emad

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2	Course Code & Number:						
		C.H			TOTAL		
3	Credit hours:		Seminar	Pr.	Tr.		
		2	-	2	-	3	
4	Study level/ semester at which this course is offered:	2 nd year – 1 st Semester					
5	Pre –requisite (if any):	Programming Fundamentals					
6	Co –requisite (if any):	None					
7	Program (s) in which the course is offered:	CS					
8	Language of teaching the course:	English/Arabic					
9	Study System	Term based system					
10	Mode of delivery:	Full Time					
11	Location of teaching the course:	Faculty of Computer and Information Technology				1	
12	Prepared By:	Dr. Musa Ghurab					
13	Date of Approval						

II. Course Description:

This course provides a continuing introduction to computer programming. It considers problems drawn from a variety of domains, and emphasizes both the broader applicability of the relevant data structures and programming concepts, as well as the implementation of those structures and concepts in software. Topics include: multi-dimensional arrays, characters and string; pointers, references, functions, files, and debugging and testing.

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III. C	Course Intended learning outcomes (CILOs) of the course (maximum 8CILOs)	Referenced PILOS (Only writed to code number of referenced Program Intended learning outcomes)
a1.	Demonstrate knowledge of computer programming concepts	A1, A5
a2.	Realize different structure in the programming language.	А3
b1.	Identify the essential concepts of Programming Techniques.	B1
b2.	Analyze simple programming problems.	В4
c1.	Use the programming language in the implementation of application programs that illustrate professionally acceptable coding and performance standards, with debugging techniques.	C1, C2
c2.	Write moderate-sized (100–300 line) programs incorporating a variety of control and data structures	C3
d1.	Work effectively both in a team and independently	D1

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes Teaching strategies Assessment Strategies

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a1- Demonstrate knowledge of computer programming concepts	Lectures Tutorials	Assignments, Exams, Quiz
a2- Realize different structure in the programming language.	Lectures Tutorials	Assignments, Exams, Quiz

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:				
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies		
b1- Identify the essential of the concepts	Lectures	Assignments, exams,		
of Programming Techniques.	Tutorials	experimental write tech		
		reports, project reports		
	Lectures	Assignments, exams,		
h2 Analyzo simple programming	Tutorials	experimental write tech		
b2- Analyze simple programming problems.		reports, project reports		
problems.	Lab			
	Problem solving			

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:			
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	
c1- Use the programming language in the implementation of application	Lectures	Mid-term exam	
programs that illustrate professionally	Tutorials	Final exam	
acceptable coding and performance standards, with debugging techniques.	problem solving	Quiz	

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	case study Lab	Small project
c2- Write moderate-sized (100–300 line) programs incorporating a variety of control and data structures	Lectures Tutorials problem solving case study Lab	Mid-term exam Final exam Quiz Small project

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:			
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	
d1- Work effectively both in a team and independently	Working in group	Small project	

IV. Course Content:					
	A - Theor	etical Aspec	et:		
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours
1	Arrays	a1, a2, b1, b2, c2	Array definition (multidimensional array). Array searching, sorting, and rotation.	2	4
2	Characters and Strings	a1, a2, b1, c1, c2	Array of characters String definition.	1	2

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			String operations.		
3	Pointers	a2, b1, b2, c1, c2	What is pointer. Use of pointer. Pointer operations. Understand the close relationships between pointers and built-in arrays.	2	4
4	References	a2, b1, b2, c1, c2	What is Reference. Use of Reference. Reference operations. Similarities and differences between pointers and references.	2	4
5	Functions	a1, a2, b1, b2, c1, c2	Introduction. Library Functions. Function Definitions with Multiple Parameters. Function Prototypes and Argument Coercion. Standard Library Headers. Storage Duration. Scope Rules. Function Call Stack.	4	8

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			Functions with Empty Parameter Lists. Inline Functions. References and Reference Parameters. Default Arguments. Function Overloading. Function Templates Recursion.		
6	File Processing	a1, a2, b1, b2, c1, c2	Introduction. Files and Streams. Creating a Sequential File. Reading Data from a Sequential File. Updating Sequential Files. Random-Access Files. Creating a Random-Access File. Writing Data Randomly to a Random-Access File. Reading from a Random-Access File Sequentially.	2	4
7	Debugging and Testing program	a2, b1, b2, c1	Introduction. Tracing code.	1	2

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			Testing and finding code bug.		
Number of Weeks /and Units Per Semester		14	28		

B - P	ractical Aspect: (if any)			
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Array (multi-dimensional array). Searching, sorting, rotation. Character array. Strings, Strings operations.	2	4	a1, a2, b1, b2, c2
2	(Testing/Debugging). Pointers. Pointers operations. (Testing/Debugging).	3	6	a2, b1, b2 c1, c2
3	References. References operations. (Testing/Debugging).	2	4	a2, b1, b2 c1, c2
4	Functions. Types of functions/parameters/arguments/etc. (Testing/Debugging).	4	8	a1, a2, b1, b2, c1, c2

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	Number of Weeks /and Units Per Semester	13	26	
5	File Processing. (Testing/Debugging).	2	4	a1, a2, b1, b2, c1, c2

V. Teaching strategies of the course:

- Lectures
- Tutorials
- Problem solving
- Lab
- Case study
- Small project

VI.	VI. Assignments:						
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark			
1	Design algorithm to solve simple problem using arrays	a2, b2, c1, c2	3 rd	1			
2	Write simple program (using: Strings, Pointers, References)	a2, b2, c1, c2	6 th	2			
3	Write simple program (using: functions).	a2, b2, c1, c2	13 th	2			
4	Design and Implement small project.	a1, a2, b1, b2, c1, c2, d1	15 th	5			

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VII	VII. Schedule of Assessment Tasks for Students During the Semester:				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	3 rd , 6 th , 13 th	5	5%	a2, b2, c1, c2
2	Small project	15 th	5	5%	a1, a2, b1, b2, c1, c2, d1
3	Lab exams	8 th , 15 th	20	20%	a1, a2, b1, b2, c1, c2, d1
4	Mid Term Exam	8 th	10	10%	a1, a2, b1, b2, c1, c2
5	Final Exam	16 th	60	60%	a1, a2, b1, b2, c1, c2

VIII. Learning Resources:

- Written in the following order: (Author Year of publication Title Edition Place of publication Publisher).
- 1- Required Textbook(s) (maximum two).
 - 1. Deitel & Deitel, 2017, "*C++ How to Program*", Tenth Edition, Pearson Education.
 - 2. D. S. Malik, 2018, "*C++ programming from Problem Analysis to Program Design*", Eighth Edition, Cengage Learning.
 - 2- Essential References.
 - 1-Stanley B Lippman; Josée Lajoie; Barbara E, 2013, "*C++ PRIMER*",5th Edition, Addison-Wesley
 - 3- Electronic Materials and Web Sites etc.

1-http://www.cplusplus.com/

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2-https://www.w3schools.com/cpp/

IX.	Course Policies:
Unles	s otherwise stated, the normal course administration policies and rules of the Faculty of outer and Information Technology apply. For the policy, see:
The U	Iniversity Regulations on academic misconduct will be strictly enforced. Please refer to
1	Class Attendance: A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic
2	Tardy: For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he will be considered as absent.
3	Exam Attendance/Punctuality: A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
4	Assignments & Project The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time.
5	Cheating: For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6	Plagiarism: Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university.
7	Other policies:

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- Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room
- Mobile phones are not allowed in class during the examination.
- Lecture notes and assignments my given directly to students using soft or hard copy

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Faculty of Computer & Information Technology

Department of Computer Science

Program of Computer Science

Course No (.....)

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2020/2021

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Template for Course Plan (Syllabus)

I Information about Faculty Member Responsible for the Course:							
Name of Faculty Member		Office Hours					
Location& Telephone No.		SAT	SUN	MON	TUE	WED	THU
E-mail							

II.	II. Course Identification and General Information:					
1-	Course Title:	Compu	ter Program	nming		
2-	Course Number & Code:		•••			
			C.	Н		Total
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.	1014
		2	-	2	-	3
4-	Study level/year at which this course is offered:	2 nd Leve	el– 1 st Seme	ster		
5-	Pre –requisite (if any):	Progran	mming Fund	lamentals		
6-	Co –requisite (if any):	None				
7-	Program (s) in which the course is offered	CS				
8-	Language of teaching the course:	English				
9-	System of Study:	Term b	ased system	1		
10-	Mode of delivery:	Full Tim	ne			

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	Location of teaching the course:	Faculty of Computer and Information
11-		Technology

III. Course Description:

This course provides a continuing introduction to computer programming. It considers problems drawn from a variety of domains, and emphasizes both the broader applicability of the relevant data structures and programming concepts, as well as the implementation of those structures and concepts in software. Topics include: multi-dimensional arrays, characters and string; pointers, references, functions, files, and debugging and testing.

IV.	IV. Intended learning outcomes (ILOs) of the course:				
•	Brief summary of the knowledge or skill the course is intended to develop:				
a1.	Demonstrate knowledge of computer programming concepts				
a2.	Realize different structure in the programming language.				
b1.	Identify the essential concepts of Programming Techniques.				
b2.	Analyze simple programming problems.				
c1.	Use the programming language in the implementation of application programs that illustrate professionally acceptable coding and performance standards, with debugging techniques.				
c2.	Write moderate-sized (100–300 line) programs incorporating a variety of control and data structures				
d1.	Work effectively both in a team and independently				

V. Course Content:

• Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

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A – Theoretical Aspect:					
Order	Topics List	Week Due	Contact Hours		
1	Arrays	1 st ,2 nd	4		
2	Characters and Strings	3 rd	2		
3	Pointers	4 th ,5 th	4		
4	References	6 th ,7 th	4		
5	Mid-term Exam	8 th	2		
6	Functions	9 th -12 th	8		
7	File Processing	13 th ,14 th	4		
8	Debugging and Testing program	15 th	2		
9	Final Exam	16 th	2		
	Number of Weeks /and Units Per Semester 16 32				

B – Practical Aspect: (if any)				
Order Topics List Week Due Hours				
1	Array (multi-dimensional array).	1 st ,2 nd	4	

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	Searching, sorting, rotation.		
	Character array.		
	Strings, Strings operations.		
	Testing/Debugging.		
	Pointers.	3 rd -5 th	
3	Pointers operations.		6
	Testing/Debugging.		
	References.		
4	References operations.	6 th ,7 th	2
	Testing/Debugging.		
5	Mid-term exam	8 th	2
	Functions.		
6	Types of functions/parameters/arguments/etc.	9 th -12 th	8
	Testing/Debugging.		
7	File Processing.	13 th ,14 th	4
,	Testing/Debugging.	13 ,14	4
8	Final- exam	15 th	2
	Number of Weeks /and Units Per Semester	15	30

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VI. Teaching strategies of the course:

- Lectures
- Tutorials
- Problem solving
- Lab
- Case study
- Small project

VII.As	VII. Assignments:				
No	Assignments	Week Due	Mark		
1	Design algorithm to solve simple problem using arrays	3 rd	1		
2	Write simple program (using: Strings, Pointers, References)	6 th	2		
3	Write simple program (using: functions).	13 th	2		
4	Design and Implement small project.	15 th	5		

VIII. Schedule of Assessment Tasks for Students During the Semester:					
Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment	
1	Assignments	3 rd , 6 th , 13 th	5	5%	
2	Small project	15 th	5	5%	

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3	Lab exams	8 th , 15 th	20	2 • %
4	Mid Term Exam	8 th	10	10%
5	Final Exam	16 th	60	60%

IX. Learning Resources:

- Written in the following order: (Author Year of publication Title Edition Place of publication Publisher).
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 - 2. D. S. Malik, 2018, "*C++ programming from Problem Analysis to Program Design*", Eighth Edition, Cengage Learning.
- 2- Essential References.
 - 1-Stanley B Lippman; Josée Lajoie; Barbara E, 2013, "*C++ PRIMER*",5th Edition, Addison-Wesley
- 3- Electronic Materials and Web Sites etc.
 - 1-http://www.cplusplus.com/
 - 2-https://www.w3schools.com/cpp/

X. Course Policies:

The University Regulations on academic misconduct will be strictly enforced. Please refer to -----

Class Attendance:

1

A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic

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	Tardy:			
2	For late in attending the class, the student will be initially notified. If he repeated lateness in attending class he will be considered as absent.			
3	Exam Attendance/Punctuality: A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.			
4	Assignments & Project The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time.			
5	Cheating: For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.			
6	Plagiarism: Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university.			
	Other policies:			
7	- Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room			
′	- Mobile phones are not allowed in class during the examination.			
	- Lecture notes and assignments my given directly to students using soft or hard copy			

Head of Department	Vise Dean for Qulity Assurance	Dean of the Faculty	Dean of Development center and Quality Assurance
Assoc. Prof. Mansour N. Ali	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad



الجمهورية اليمنية وزارة التعليم العالي والبحث العلمي جامعة - صنعاء كلية الحاسوب وتكنولوجيا المعلومات وحدة ضمان الجودة

		نة الإشرافية	النج
التوقيع	الصـــفة	الاسم	م.
	نانب عميد الكلية للشؤون الأكاديمية	أ.م.د. عبد الماجد الخليدي	١
	نانب عميد مركز التطوير الأكاديمي وضمان الجودة	أ.م.د. احمد مجاهد	۲
	ممثل المركز في الكلية	د. حسين الأشول	٣
	نانب رنيس الجامعة للشؤون الأكاديمية	أ.د. إبراهيم المطاع	ź

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Rector of Sana'a University