

جامعة - صنعاء

### **Course Specification of Computer Programming**

Course No ( ..... )

2020/2021

	1         Course Identification and General Information:           1         Course Title:		Computer Programming		
			Comp	Computer Programming	
	2	Course Code & Number:			
			-	_	
lead of Department		Vise Dean for Quality Assurance	Dean of the Facult	y De	an of Academic Development center and Quality
r. Ahmed Al-shalabi	l-shalabi Dr. Anwar Al-Shamiri Dr. Nagi Al-S		Dr. Nagi Al-Shibar	hibani	Assoc. Prof. Dr.Huda Al.Emad
					Rector of Sana'a University
					Prof. Dr. Qassim Mohammed Abbas



			C.H			
3	Credit hours:	Th.	Seminar	Pr	Tr.	TOTAL
		2	-	2	-	3
4	Study level/ semester at which this course is offered:	2 <sup>nd</sup> year – 1 <sup>st</sup> Semester				
5	Prerequisite (if any):	(if any): Programming Fundamentals				
6	Co –requisite (if any):	None				
7	7 Program (s) in which the course is CS offered:					
8	Language of teaching the course:	English/Arabic				
9	Study System	Term	based syste	em		
10	Mode of delivery:	Full Ti	me			
11	Location of teaching the course:	Facult Techr	ty of Comp ology	uter and	Informa	tion
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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. (	Reference PILOS (Only write code numb of referenced Program Intender learning outcome	
a1.	Demonstrate knowledge of computer programming concepts	A1, A5
a2.	Realize different structure in the programming language.	A3
b1.	Identify the essential concepts of Programming Techniques.	B1
b2.	Analyze simple programming problems.	B4
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		
a1- Demonstrate knowledge of	Lectures	Assignments, Exams,		
computer programming concepts	Tutorials	Quiz		

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a2- Realize different structure in the	Lectures	Assignments, Exams,
programming language.	Tutorials	Quiz

(B) Alignment Course Intended Learning	<b>Outcomes of Intellectual Skills to Teaching</b>
Strategies and Assessment Strategies:	

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Identify the essential of the concepts of Programming Techniques.	Lectures Tutorials	Assignments, exams, experimental write tech reports, project reports
b2- Analyze simple programming problems.	Lectures Tutorials Lab Problem solving	Assignments, exams, experimental write tech reports, project reports

# **(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 programs that illustrate professionally acceptable coding and performance standards, with debugging techniques.	Lectures Tutorials problem solving case study Lab	Mid-term exam Final exam Quiz Small project

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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
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<b>(D)</b> 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 – Theoretical Aspect:						
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours	
1	Arrays	a1, a2, b1, b2, c2	Array definition (multi-dimensional array). Array searching, sorting, and rotation.	2	4	
2	Characters and Strings	a1, a2, b1, c1, c2	Array of characters String definition. String operations.	1	2	
3	Pointers	a2, b1, b2, c1, c2	What is pointer. Use of pointer.	2	4	

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			Pointer operations. Understand the close relationships between pointers and built-in arrays.		
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. Functions with Empty Parameter Lists. Inline Functions.	4	8

 

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

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Number of Weeks /and Units Per Semester	14	28

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

 

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## V. Teaching strategies of the course:

- Lectures ٠
- Tutorials •
- Problem solving •
- Lab •
- Case study •
- Small project •

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

	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 <sup>rd</sup> , 6 <sup>th</sup> , 13 <sup>th</sup>	5	5%	a2, b2, c1, c2
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2	Small project	15 <sup>th</sup>	5	5%	a1, a2, b1, b2, c1, c2, d1
3	Lab exams	8 <sup>th</sup> , 15 <sup>th</sup>	20	20%	a1, a2, b1, b2, c1, c2, d1
4	Mid Term Exam	8 <sup>th</sup>	10	10%	a1, a2, b1, b2, c1, c2
5	Final Exam	16 <sup>th</sup>	60	60%	a1, a2, b1, b2, c1, c2

VIII.	Learning Resources:
• pt	Written in the following order: (Author - Year of publication – Title – Edition – Place of ıblication – Publisher).
1- Re	quired Textbook(s) ( maximum two ).
	1. Deitel & Deitel, 2017, " <i>C++ How to Program</i> ", Tenth Edition, Pearson Education
	<ol> <li>D. S. Malik, 2018, "C++ programming from Problem Analysis to Program Design", Eighth Edition, Cengage Learning.</li> </ol>
2- E	ssential References.
	1-Stanley B Lippman; Josée Lajoie; Barbara E, 2013, "C++ PRIMER", 5 <sup>th</sup> Edition,
	Addison-Wesley
3- E	Electronic Materials and Web Sites <i>etc</i> .
	1-http://www.cplusplus.com/
	2-https://www.w3schools.com/cpp/

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IX	. Course Policies:
Unle Facu	ss otherwise stated, the normal course administration policies and rules of the Ity of Computer and Information Technology apply. For the policy, see:
The	University Regulations on academic misconduct will be strictly enforced. Please refer
to	
1	<b>Class Attendance:</b> 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:
l	repeated lateness in attending class, he will be considered as absent.
3	<b>Exam Attendance/Punctuality:</b> 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	<b>Cheating:</b> 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	<b>Plagiarism:</b> 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	<ul> <li>Other policies:</li> <li>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</li> <li>Mobile phones are not allowed in class during the examination.</li> <li>Lecture notes and assignments my given directly to students using soft or</li> </ul>

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## Faculty of Computer & Information Technology

## Department of Computer Science

Program of Computer Science

**Course Syllabus of Computer Programming** 

Course No ( ..... )

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## 2020/2021

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			Prof. Dr. Qassim Mohammed Abbas



## **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							

Π.	II. Course Identification and General Information:					
1-	Course Title:	Computer Programming				
2-	Course Number & Code:					
			C.I	н		Total
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.	rotar
		2	-	2	-	3
4-	Study level/year at which this course is offered:	2 <sup>nd</sup> Level– 1 <sup>st</sup> Semester				
5-	Pre –requisite (if any):	Progra	mming Fur	ndamenta	als	
6-	Co –requisite (if any):	None				
7-	Program (s) in which the course is offered	CS				
8-	Language of teaching the course:	English	l			
9-	System of Study:	Term b	based syste	m		
10-	Mode of delivery:	Full Tir	me			

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lead of Department

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Dr. Nagi Al-Shibani

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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.	Intended learning outcomes (ILOs) of the course:
٠	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				
A – Theoretical Aspect:				
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Order	Topics List	Week Due	Contact Hours
1	Arrays	1 <sup>st</sup> ,2 <sup>nd</sup>	4
2	Characters and Strings	3 <sup>rd</sup>	2
3	Pointers	4 <sup>th</sup> ,5 <sup>th</sup>	4
4	References	6 <sup>th</sup> ,7 <sup>th</sup>	4
5	Mid-term Exam	8 <sup>th</sup>	2
6	Functions	9 <sup>th</sup> -12 <sup>th</sup>	8
7	File Processing	13 <sup>th</sup> ,14 <sup>th</sup>	4
8	Debugging and Testing program	15 <sup>th</sup>	2
9	Final Exam	16 <sup>th</sup>	2
	Number of Weeks /and Units Per Semester	16	32

B – Pr	B – Practical Aspect: (if any)				
Order	Topics List	Week Due	Contact Hours		
1	Array (multi-dimensional array). Searching, sorting, rotation. Character array. Strings, Strings operations.	1 <sup>st</sup> ,2 <sup>nd</sup>	4		
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	Testing/Debugging.		
3	Pointers. Pointers operations.	3 <sup>rd</sup> -5 <sup>th</sup>	6
	Testing/Debugging.		
	References.		
4	References operations.	6 <sup>th</sup> ,7 <sup>th</sup>	2
	Testing/Debugging.		
5	Mid-term exam	8 <sup>th</sup>	2
	Functions.		
6	Types of functions/parameters/arguments/etc.	$9^{th}$ -12 <sup>th</sup>	8
	Testing/Debugging.		
7	File Processing.	13 <sup>th</sup> 14 <sup>th</sup>	4
	Testing/Debugging.	10 ,1 .	
8	Final- exam	15 <sup>th</sup>	2
	Number of Weeks /and Units Per Semester	15	30

### VI. Teaching strategies of the course:

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

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			Prof. Dr. Qassim Mohammed Abbas



VII. Assignments:				
No	Assignments	Week Due	Mark	
1	Design algorithm to solve simple problem using arrays	3 <sup>rd</sup>	1	
2	Write simple program (using: Strings, Pointers, References)	6 <sup>th</sup>	2	
3	Write simple program (using: functions).	13 <sup>th</sup>	2	
4	Design and Implement small project.	15 <sup>th</sup>	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 <sup>rd</sup> , 6 <sup>th</sup> , 13 <sup>th</sup>	5	5%
2	Small project	15 <sup>th</sup>	5	5%
3	Lab exams	8 <sup>th</sup> , 15 <sup>th</sup>	20	2•%
4	Mid Term Exam	8 <sup>th</sup>	10	10%
5	Final Exam	16 <sup>th</sup>	60	60%

### **IX. Learning Resources:**

• Written in the following order: (Author – Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) ( maximum two ).

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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*", 5<sup>th</sup> Edition, Addison-Wesley

### 3- Electronic Materials and Web Sites etc.

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

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

X. Course Policies:				
Unless otherwise stated, the normal course administration policies and rules of the Faculty of Computer and Information Technology apply. For the policy, see:				
1	<b>Class Attendance:</b> 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	<b>Tardy:</b> 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	<b>Exam Attendance/Punctuality:</b> 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:			

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	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				
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		ينة الإشرافية	اللج
التوقيع	الصــــفة	الاســــم	م.
	نائب عميد الكلية للشؤون الأكاديمية	أ.م.د. عبد الماجد الخليدي	١
	نائب عميد مركز التطوير الأكاديمي وضمان الجودة	أ.م.د. احمد مجاهد	۲
	ممثل المركز في الكلية	د. حسين الأشول	٣
	نائب رئيس الجامعة للشوون الأكاديمية	أ.د. إبراهيم المطاع	٤

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