

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

#### **Course Specification of Programming Fundamentals**

Course No ( ..... )

2020/2021

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
			Rector of Sana'a University
			Prof. Dr. Qassim Mohammed Abbas



I. Course Identification and General Information:							
1	Course Title:	Programming Fundamentals					
2	Course Code & Number:						
			C.	Η		TOTAL	
3	Credit hours:	Th.	Seminar	Pr.	Tr.		
		2	-	2	-	3	
4	Study level/ semester at which this course is offered:	1 <sup>st</sup> Level – 2 <sup>nd</sup> Semester					
5	Pre –requisite (if any):	Introduction to Computer (Problem Solving)					
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 b	based system	m			
10	Mode of delivery:	Full Time					
11	Location of teaching the course:	Faculty of Computer and Information Technology					
12	Prepared By:	Dr. Musa Ghurab					
13	Date of Approval						

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## II. Course Description:

This is an introductory course on the fundamentals of computer programming. It focuses on introduction to computer programming languages topics with an emphasis to use it to solve mathematical and scientific problems. It introduces the principles of procedural programming, data types, variables declarations, constants variables, memory locations, arithmetic operations, input and output operations, Sequences statements, Selection statements, Iteration statements and one-dimensional array. The course helps student to design, write, and implement computer programs.

III. C	Course Intended learning outcomes (CILOs) of the COURSE (maximum 8CILOs)	Referencec PILOS (Only wri code number of referenced Prograu Intended learning outcomes)
a1.	Describe the principles of programming language.	A3
a2.	Explain the fundamentals of different structure in programming language.	A4
b1.	Formulate the essential facts, concepts and principles related to logic of computer programming statements	B1, B2
b2.	Design a simple problem solving and tools using programming language.	B4
c1.	Practice algorithmic problem solving using different techniques.	C2
c2.	Implement structured programming, control constructs, arrays and loops in solving problems using programming language	C3
d1.	Work effectively both in a team and independently	D1

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(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:							
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies					
	Lectures	Assignments,					
a1- Describe the fundamentals of principles of programming language.	Tutorials	Exams					
		Quiz					
a2- Explain the fundamentals of	Lectures	Assignments, Exams					
different structure in programming language.	Tutorials	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- Formulate the essential facts, concepts and principles related to logic of computer programming statements	Lectures	Assignments, exams, experimental write tech reports, project reports
b2- Design a simple problem solving and tools using programming language.	Lectures Tutorials Seminars Problem solving	Assignments, exams, experimental write tech reports, project reports

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# **(C)** Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

5	C	
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1- Practice algorithmic problem solving using different techniques.	Tutorials problem solving case study Lab	Mid-term exam Final exam Quiz
c2- Implement structured programming, control constructs, arrays and loops in solving problems using programming language	Tutorials problem solving case study Lab	Mid-term exam Final exam Quiz

<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	
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Assoc. Prof. Mansour N. Ali Dr. Anwar Al-Shamiri Dr. Nagi Al-Shibani Assoc. Prof. Dr. Huda Al.I		Al.Emad						
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1	Introduction	a1	History of programming languages. Low-level languages and High-level languages.	1	2
2	Problem solving	a1, a2, b2, c1	Flowcharts and pseudocode algorithms.	1	2
3	Introduction to C/C++ programming language.	a2, b1, c2	History of C/C++ C++ standard Library. C++ Environment. General structures of C/C++ programming language. Data types. Variables declaration/definition. Directives. Inputs and outputs. Simple programming.	4	8
4	Arithmetic and operators	a1, a2, b1, c1	Arithmetic operators. Operator's precedence. Equality and relational operators. Sequences.	1	2
5	Control Structures	a1, a2, b1, b2, c1, c2	Selection and Decisions: if ifelse. nested if switch	2	4

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6	Control Structures	a1, a2, b1, b2, c1, c2	Iteration: for while do while	3	6
7	array	a1, a2, b1, c2	Array definition (one-dimensional array). operations on array (add, subtraction, multiplication and invers of array).	2	4
Numbe	r of Weeks /and	l Units Per Se	emester	14	28

B - P	B - Practical Aspect: (if any)				
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes	
1	Problem solving and Algorithms	1	2	a1, a2, b2, c1	
2	Introduction to C/C++ Integrated development Environments (IDE).	1	2	a1	
3	Introduction to C/C++ programming. Writing simple programs that involve using input/output statements. identify and fix common syntax errors.	2	4	a2, b1, c2	
4	Data type, Operators, and Expressions	2	4	a2, b3, c2	

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5	Control structure writing program using if, ifelse, switch, for, while &dowhile control structure	4	8	a1, a2, b1, b2, c1, c2
6	Array (one-dimensional array). Operations on array	3	6	a1, a2, b1, c2
Number of Weeks /and Units Per Semester		13	26	

# V. Teaching strategies of the course:

- Lectures
- 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	a1, b2, c1, c2	3 <sup>rd</sup>	1			
2	Write simple program (using: Sequence).	a1, b2, c1, c2	6 <sup>th</sup>	2			
3	Write simple program (using: Sequence, Selection, Iterations).	a1, b2, c1, c2	10 <sup>th</sup>	2			

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4	Design and Implement small project.	a1, a2, b1, b2, c1, c2, d1	15 <sup>th</sup>	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	Aligned Course Learning	
NO.				Assessment	Outcomes	
1	Assignments	3 <sup>rd</sup> , 6 <sup>th</sup> , 10 <sup>th</sup>	5	5%	a1, b2, c1, c2	
2	Small project	15 <sup>th</sup>	5	5%	a1, a2, b1, b2, c1, c2, d1	
3	Lab exams	7 <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	

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

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3- Elec	3- Electronic Materials and Web Sites <i>etc</i> .		
	1-http://www.cplusplus.com/		
	2-https://www.w3schools.com/cpp/		

IX.	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:				
 The U	University Regulations on academic misconduct will be strictly enforced. Please refer to				
1	<ul><li>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</li><li>Tardy:</li></ul>				
2					
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	Plagiarism:				

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	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 hard copy</li> </ul>					

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# Faculty of Computer & Information Technology

Department of Computer Science

Program of Computer Science

## **Course Syllabus of Programming Fundamentals**

Head of Department	Vise Dean for Qulity Assurance	Dean of the Faculty	Dean of Development center and Quality Assurance
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Course No ( .....)

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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							

П.	II. Course Identification and General Information:						
1-	Course Title:	Programming Fundamentals					
2-	Course Number & Code:						
			C.	.H		Total	
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.		
		2	-	2	-	3	
4-	Study level/year at which this course is offered:	1 <sup>st</sup> Level – 2 <sup>nd</sup> Semester					
5-	Pre –requisite (if any):	Introduction to Computer (Problem Solving)					
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-	System of Study:	Term based system					
10-	Mode of delivery:	Full Time					
11-	Location of teaching the course:	Faculty of Computer and Information Technology			n		

 
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### **III.** Course Description:

This is an introductory course on the fundamentals of computer programming. It focuses on introduction to computer programming languages topics with an emphasis to use it to solve mathematical and scientific problems. It introduces the principles of procedural programming, data types, variables declarations, constants variables, memory locations, arithmetic operations, input and output operations, Sequences statements, Selection statements, Iteration statements and one-dimensional array. The course helps student to design, write, and implement computer programs..

IV. In	tended learning outcomes (ILOs) of the course:
a1.	Describe the principles of programming language.
a2.	Explain the fundamentals of different structure in programming language.
b1.	Formulate the essential facts, concepts and principles related to logic of computer programming statements
b2.	Design a simple problem solving and tools using programming language.
c1.	Practice algorithmic problem solving using different techniques.
c2.	Implement structured programming, control constructs, arrays and loops in solving problems using programming language
d1.	Work effectively both in a team and independently

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• [	Distribution of Semester Weekly Plan of Course Topics/Items and Activities.					
4 – The	eoretical Aspect:					
Order	Topics List	Week Due	Contact Hours			
1	Introduction	1 <sup>st</sup>	2			
2	Problem solving	2 <sup>nd</sup>	2			
3	Introduction to C/C++ programming language.	6 <sup>th</sup>	8			
4	Arithmetic and operators	7 <sup>th</sup>	2			
5	Mid-term Exam	8 <sup>th</sup>	2			
6	Control Structures	10 <sup>th</sup>	4			
7	Control Structures	13 <sup>th</sup>	6			
8	array	15 <sup>th</sup>	4			
9	Final Exam	16 <sup>th</sup>	2			

B – Pra	3 – Practical Aspect: (if any)				
Order	Topics List	Week Due	Contact		

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			Hours
1	Problem solving and Algorithms	1 <sup>st</sup>	2
2	Introduction to C/C++ Integrated development Environments (IDE).	2 <sup>nd</sup>	2
3	Introduction to C/C++ programming. Writing simple programs that involve using input/output statements. identify and fix common syntax errors.	4 <sup>th</sup>	4
4	Data type, Operators, and Expressions	6 <sup>th</sup>	4
5	Mid-term exam	7 <sup>th</sup>	2
6	Control structure writing program using if, ifelse, switch, for, while &dowhile control structure	11 <sup>th</sup>	8
7	Array (one-dimensional array). Operations on array	14 <sup>th</sup>	6
8	Final- exam	15 <sup>th</sup>	2
	Number of Weeks /and Units Per Semester	15	30

 

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 Dean of the Faculty Dean of Development center and Quality Assurance

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## VI. Teaching strategies of the course:

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

VII.A	VII. Assignments:				
No	Assignments	Week Due	Mark		
1	Design algorithm to solve simple problem	3 <sup>rd</sup>	1		
2	Write simple program (using: Sequence).	6 <sup>th</sup>	2		
3	Write simple program (using: Sequence, Selection, Iterations).	10 <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 Assessment Tasks Week Du		Week Due	Mark	Proportion of Final Assessment	
	1	Assignments	3rd, 6th, 10th	5	5%
	2	Small project	15 <sup>th</sup>	5	5%
	3	Lab exams	7 <sup>th</sup> , 15 <sup>th</sup>	20	20%

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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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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

2-

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

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

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

#### **X.** Course Policies:

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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	<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 hard copy</li> </ul>			

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



Republic of Yemen Minster of Higher Education and Scientific Research Sana'a University Faculty of Computer & IT Quality Assurance Unit

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