

## Flow up the implementation of course syllabus

<b>Course Instructor</b>	Jinan Nseif Shehab				
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<b>Title</b>	Programming language (C++ + Matlab)				
<b>Course Coordinator</b>	<b>4 hours weekly</b>				
<b>Course Objective</b>	Teaching and training students in theory and practice the concepts and the basics of programming languages.				
<b>Course Description</b>	The subject divided in to several chapters, as follow: Chapter One: The Main structure of C++ programs, Chapter Two: Expressions, Operators, Simple Type Conversion, Operator Precedence. Chapter Three: Statements. Chapter Four: Arrays Chapter Five: Function. Chapter One: Introduction. Chapter Two: Expressions, Operators, Simple Type Conversion, Operator Precedence. Chapter Three: vectors and matrix. Chapter Four: Flow control. Chapter Five: Graphics.				
<b>Textbook</b>	<b>Electrical Circuits Fundamentals by: Boylestad</b>				
<b>Course Assessment</b>	First Term	Mid-Year	2 <sup>nd</sup> Term	Project	Final Exam
	25 %	---	25%	----	50 %
<b>General Notes</b>	1. Outline schome series. 2. C++ Programming by Sharam Hekmet. 3. Matlab C++ - Math Library 4. C++ Programming Fundamentals by Chuck Easttom. 5. C++ for Computer Science and Engineering by Vic Broquard 6. Essential MATLAB for Engineers and Scientists 3rd ed. 7. 4) A Guide to MATLAB.				

## Course Weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	24/9	Chapter(1) Introduction and definition, The Main structure of C++ programs,		
2	1/10	Chapter (1) Data type, Variable declaration, Variables Names, Simple Input/Output		
3	8/10	Chapter(2) Expressions, Operators		
4	15/10	Chapter(2) Simple Type Conversion		
5	22/10	Chapter(2) Operator Precedence		
6	29/10	Chapter(3) The if statement, switch statement,		
7	5/11	Chapter(3)while statement, do statement, for statement		
8	12/11	Chapter(3) continue statement, break statement, goto statement, return statement		
9	19/11	Chapter(4)Array introduction & definition		
10	26/11	Chapter(4)one dimensional Array		
11	3/12	Chapter(4)two dimensional Array		
12	10/12	Course one examination		
13	17/12	Chapter(5) introduction & definition function		
14	24/12	Chapter(5) function description		
15	31/12	Chapter(5)function and pointer		
16	7/1	Chapter(5)function and reference		
Half-Year Break				
17	18/2	Chapter(1) MATLAB Basic,		
18	25/2	Chapter(1) Input and Output , Arithmetic, Errors in Input Aborting Calculations		
19	4/3	Chapter(2) Algebraic or Symbolic Computation		
20	11/3	Chapter(2) Substituting in Symbolic Expressions		

Republic of Iraq

The Ministry of Higher Education  
& Scientific Research



University: Diyala

College: Engineering

Department: Communications

Stage: second

Lecturer name: Jinan Nseif Shehab

Academic Status: Assistant lecturer

Qualification: master

Place of work: Communications  
Dept.

21	18/3	Chapter(2) Symbolic Expressions, Variable Precision, and Exact Arithmetic		
22	25/3	Chapter(3) introduction to Vectors and Matrices		
23	1/4	Chapter(3) Vectors		
24	8/4	Chapter(3) Matrices		
25	15/4	Chapter(4) Functions		
26	22/4	Chapter(4) Built-in Functions		
27	29/4	Chapter(4) User-Defined Functions		
28	6/5	Course two examination		
29	13/5	Chapter(5) Managing Variables		
30	20/5	Chapter(5) Variables and Assignments		
31	27/5	Chapter(5) Solving Equations		
32	3/6	Chapter(5) Graphics		

Instructor Signature:

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