

FACULTY OF ENGINEERING
1st Year 2nd Semester

ENF 102E Basic Computer Science and C/C++ Programming				FACULTY OF ENGINEERING					
Semester	Methods of Education							Credits	
	Lecture	Recit.	Lab.	Project/Field Study	Homework	Other	Total	Credit	ECTS Credit
2	28	10	20	10	32	-	100	3	4.0
Language	English								
Compulsory / Elective	Compulsory								
Prerequisites	None								
Course Contents	Introduction to C/C++ programming, Introduction to classes and objects, Control structures, Loop structures, Functions, Arrays, Pointers, Classes and properties, Introduction to object oriented programming, Object oriented programming: inheritance, Object oriented programming: polymorphism, Object oriented programming: abstract classes and interfaces, Exceptions and exception handling, Files and stream structures.								
Course Objectives	To teach C++ programming language and object oriented programming.								
Learning Outcomes and Competences	Learning C++ programming language and object oriented programming.								
Textbook and /or Reference	- C++ How to Program, 7th ed., Paul J. Deitel and Harvey M. Deitel, Prentice Hall, 2010. - Problem Solving with C++, 8th ed., Walter Savitch, Addison-Wesley, 2012.								
Assessment Criteria						If any, mark as (x)		Percentage (%)	
	Midterm Exams					X		30	
	Quizzes					X		6	
	Homeworks					-		-	
	Projects					-		-	
	Term Paper					-		-	
	Laboratory Work					X		24	
	Other					-		-	
Final Exam					X		40		
Instructors									
Week	Subject								
1	Introduction to C/C++ programming								
2	Introduction to classes and objects								
3	Control structures								
4	Loop structures								
5	Functions								
6	Arrays								
7	Pointers								
8	Classes and properties								
9	Introduction to object oriented programming								
10	Object oriented programming: inheritance								
11	Object oriented programming: polymorphism								
12	Object oriented programming: abstract classes and interfaces								
13	Exceptions and exception handling								
14	Files and stream structures								