

Programming 2

Basic Course Information			
Course Number	21050983	Subject Category	Compulsory (C)
Class Format	Lecture	Credit Type and Number of Credits	0.5
Department	Mechatronics	Student Category	Year 1
Period of Study	Semester 2	Classes per Week	1
Required Materials	Materials will be uploaded on Google Classroom		
Instructor	Leanne's O'Brien Thompson Kestermann		

Course Objective
 This course intends to introduce and help students to understand how to write program by using Python. This course will be introduced as simple as possible in order to give more general understanding about Functions, File Input/Output, Modules, Exceptions, and User Interface.

Evaluation/Rubric	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)
Understanding the Functions, modules, exceptions, and User Interface of Python environments.	Demonstrates very good knowledge and understanding of the functions, modules, exceptions and User Interface of Python programming.	Demonstrates good knowledge and understanding of the functions, modules, exceptions and User Interface of Python programming.	Lacks the appropriate knowledge and understanding of the functions, modules, exceptions and User Interface of Python programming.
Understanding how to solve the drift-problem at the exercise task.	Demonstrates very good knowledge and understanding of how to solve the drift-problem at the exercise task.	Demonstrates good knowledge and understanding of how to solve the drift-problem at the exercise task.	Lacks the appropriate knowledge and understanding of how to solve the drift-problem at the exercise task.
Understanding how to summarize basic knowledge and apply to make simple application by using Python.	Demonstrates very good knowledge and understanding of how to summarize basic knowledge and apply to make simple application by using Python.	Demonstrates good knowledge and understanding of how to summarize basic knowledge and apply to make simple application by using Python.	Lacks the appropriate knowledge and understanding of how to summarize basic knowledge and apply to make simple application by using Python.

Relationship with Learning Outcomes	
C(1) Ability to operate and administer the computer software and hardware	
C(2) Ability to understand the operating system and to develop software to solve specific problems.	
Please change	
Teaching Method	
Outline:	Lecture, Practice and group work.
Class Format:	Lecture
Please Note :	

Semester 2	Contents and Method of Course	Goals	Related MCC
1st week	Review of Programming 1 Functions (Online)	Review of topics from last semester that related to this subject.	V-D 1 1 V-D 1 6
2nd week	Functions (Online)	Can explain Functions	V-D 1 6
3rd week	Functions	Can explain Functions	V-D 1 6
4th week	Modules	Can explain Modules	V-D 1 1
5th week	Modules	Can explain Modules	V-D 1 1 V-D 1 3
6th week	Exception	Can explain Exception	
7th week	Prepare for MidtermExam	Prepare for MidtermExam	
8th week	MidtermExam	MidtermExam	
9th week	MidtermExam	MidtermExam	
10th week	Return Exam Papers and Feedback	Return Exam Papers and Feedback	V-D 1 4
11th week	Exception	Can explain Exception	V-D 1 4
12th week	File Input/Output	Can explain File Input/Output	
13th week	File Input/Output	Can explain File Input/Output	
14th week	No class (School Event)	No class (School Event)	
15th week	GUI	Can explain GUI	
16th week	GUI	Can explain GUI	
17th week	GUI	Can explain GUI	
18th week	Prepare for FinalExam	Prepare for FinalExam	
19th week	FinalExam	FinalExam	
20th week	Return Exam Papers and Feedback	Return Exam Papers and Feedback	

	Examination	Quiz	Midst Evaluation between students	Report	Portfolio	Other
Basic Ability	20			20		
Technical Ability	20			20		
Disciplinary Ability	10			10		