

Programming 1

Basic Course Information			
Course Number	03005080	Subject Category	Computer 03
Class Format	Lecture	Credit Type and Number of Credits	03
Department	Electrical and Electronic	Student Category	Year 1
Period of Study	Semester 1	Classes per Week	1
Required Materials	Lecture Content program (Python, Google, Google Colab (Optional). Materials will be uploaded in Google Classroom.		
Instructor	Tarason Keshabam	Teaching Location	

Course Objective
 Students can understand and explain introduction to computer programming by using Python language. Students can understand and explain the basic computer programming of python language such as, "Variables, expressions and statements", "Conditional execution", "Iteration", "Strings", "List", "Tuples", "Set", "Dictionaries", "File" and "Functions" including its applications.

Evaluation/Hubrid	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fair)
Can explain how to write basic programs by using Python.	Can explain how to write basic programs by using Python (detailedly and precisely).	Can explain how to write basic programs by using Python.	Can't explain how to write basic programs by using Python.
Can implement basic programs by using Python.	Can implement basic programs by using Python (detailedly and precisely).	Can implement basic programs by using Python.	Can't implement basic programs by using Python.
Can solve problems by using computer programs of Python.	Can solve problems by using computer programs of Python (detailedly and precisely).	Can solve problems by using computer programs of Python.	Can't solve problems by using computer programs of Python.

Relationship with Learning Outcomes
C1) Ability to operate and administer the computer software and hardware
C2) Ability to understand the operating system and to develop software to solve specific problems.

Please changes

Teaching Method	
Outline:	Lecture and practice the basic computer programming such as, "Variables, expressions and statements", "Conditional execution", "Iteration", "String", "List", "Tuples", "Set", "Dictionaries", "File", and "Functions".
Class Format:	Lecture, Practice and Homework Assignments
Please Note:	The Midterm report, lab report and final examination are provided.

Course Plan	Semester 1	Contents and Method of Course	Goals	Related MOO
1st week		Guidance: Basic statements of Python	Guidance: Basic statements of Python	
		05/07/2023		
2nd week		Variables, expressions, operations and statements	Understanding Variables, expressions, operations and statements	
3rd week		Variables, expressions, operations and statements	Understanding Variables, expressions, operations and statements	
4th week		Conditional Execution and Flowchart	Understanding Conditional Execution and Flowchart	
5th week		Conditional Execution and Flowchart / loop with while and for	Understanding Conditional Execution and Flowchart / loop with while and for	
6th week		loop with while and for	Understanding loop with while and for	
7th week		Review week 1st-6th class and assign Midterm report	Review week 1st-6th and assign Midterm report	
		Midterm Examination	No exam	
8th week		Midterm report feedback	Understanding mid-term report	
9th week		Text Strings	Understanding Text Strings	
10th week		List and Tuples	Understanding List and Tuples	
		Holiday 08/02/2023		
11th week		Dictionary	Understanding Dictionary	
12th week		Functions	Understanding Functions	
		SE 7/08/27/2023		
13th week		Functions	Understanding Functions	
14th week		Functions	Understanding Functions	
15th week		Preparing for final Examination	Preparing for final Examination	
		Final Examination	Final Examination	
16th week		Review and feedback final exam	Review and feedback final exam	

	Examination	Quiz	Midst Evaluation between students	Report	Particip	Other
Basic Ability	0	0		20		
Technical Ability	0	0		0		
Interdisciplinary Ability	0	0		0		

Do not