

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM									
Course Code and Name: IM5076 PROGRAMMING WITH PYTHON				Department of: CIVIL ENGINEERING / MASTER PROGRAMME					
Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective		
Atumn/Spring	3	0	3	3	5	Turkish	Optional		
Prerequisite (s)									
Instructor		Mail : Web :							
Course Assistant						Mail : Web :			
Groups / Classes									
Course Aim		To provide students with the ability to code machine learning models using the Python programming language. To provide theoretical background for acquiring basic knowledge and skills in the field of machine learning. To provide skills for solving and analyzing real-world problems using machine learning methods.							
Course Goals		Introduction to Python Programming Problem-Solving and Algorithm Development Object-Oriented Programming (OOP) Data Structures and Manipulation Handling Files and Input/Output Error Handling and Debugging Introduction to Libraries and Frameworks							
 Students learn the Python programm basic problems. They know the concept and techniques They can code machine learning mode environment. They can create machine learning mode environment. 				niques of maching models in the	ne learning. Python programming				
Course Basic a Cont	•	 Aurelien Geron, Hands-On Machine Learning with Scikit-Learn & TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems 							
Methods of Give a Lecture Face t		Face to Face	2						



T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

Assessment Criteria			If Available, to Sign (x)	General Average Percentage (%) Rate				
		Midterm Exam	X	50				
		1. Quiz						
		2. Quiz						
		3. Quiz						
		4. Quiz						
		Oral Examination						
		Practice Examination						
		(Laboratory, Project etc.)	T 7	50				
		Final Exam	X	50				
		Semester Course	Plan					
Week		Subjects						
1	Introduction; Programming Languages concepts							
2	Python Programming Language and Environments							
3	Basic operations in Python							
4	Basic operations in Python							
5	Machine learning concepts and concepts							
6	Basic machine learning approaches							
7	Introduction of various machine learning libraries in Python environment							
8	Implementation of basic machine learning algorithms with Python							
9	Performing basic analysis on datasets with Python							
10	Modeling complex problems							
11	Obtaining and analyzing results on datasets							
12	Obtaining and analyzing results on datasets							
13	Student project presentations							
14	Student project presentations							