

ROBOTICS AND INTELLIGENT SYSTEMS MASTER PROGRAM
COURSE SYLLABUS

Course Details				
Code	Academic Year			Semester
RIS509	1			1
Title	T	A	L	ECTS
Advanced Computer Programing	2	2	0	7
Language	English			
Level	Undergraduate		Graduate x	Postgraduate
Department / Program	Robotics and Intelligent Systems			
Forms of Teaching and Learning				
Course Type	Compulsory		Elective x	
Objectives	To train engineering students in advanced computer programing			
Content	Advanced Computer Programing in Engineering using Python			
Prerequisites	None			
Coordinator	Doç. Dr. Orkide Coşkuner Weber			
Lecturer(s)	Doç. Dr. Orkide Coşkuner Weber			
Assistant(s)	Semih Alpsoy			
Work Placement	None			
Recommended or Required Reading				
Books / Lecture Notes	Pyhton für Ingenieure und Naturwissenschaftler			
Other Sources				
Additional Course Material				
Documents	Pyhton für Ingenieure und Naturwissenschaftler			
Assignments				
Exams				
Course Composition				
Mathematics und Basic Sciences				%60
Engineering				%10
Engineering Design				
Social Sciences				%
Educational Sciences				%
Natural Sciences				%10

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Health Sciences			%10
Expert Knowledge			%10
Assessment			
Activity	Count		Percentage (%)
Midterm Exam	0		0
Quiz			
Assignments	10		50
Attendance			
Recitations			
Projects			
Final Exam	1		50
Total			100
ECTS Points and Work Load			
Activity	Count	Duration	Work Load (Hours)
Lectures	14	2	28
Self-Study	14	10	140
Assignments	10	5	50
Presentation / Seminar Preparation			
Midterm Exam	0	0	0
Recitations	14	2	28
Laboratory			
Projects			
Final Exam	1	2	2
Total Work Load			225
ECTS Points (Total Work Load / Hour)			7
Learning Outcomes			
1	what is python		
2	Python programming		
3	Python environments and distributions		
4	Python editors		
5	Python for mathematics applications		
6	Using python for simulations		
7	DAQ		
8	Database		
9	Applications		

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10	Database
11	Python in sciences and engineering
12	Python in sciences and engineering

Weekly Content

1	what is python
2	Python programming
3	Python environments and distributions
4	Python editors
5	Python for mathematics applications
6	Using python for simulations
7	DAQ
8	Database
9	Applications
10	Database
11	Python in sciences and engineering
12	Python in sciences and engineering
13	Python in sciences and engineering
14	Python in sciences and engineering
15	Python in sciences and engineering

Contribution of Learning Outcomes to Program Objectives (1-5)

	P1	P2	P3	P4	P5	P6	P7
1	2						
2	5						
3	5						
4	5						
5	5						
6	5						
7	5						
8	5						
9	5						
10	5						
11	5						
12	5						

Contribution Level

1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High



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Compiled by:	Orkide Coşkuner Weber
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