

DATA SCIENCE BY PYTHON

1	Course Title:	DATA SCIENCE BY PYTHON
2	Course Code:	IYZ4218
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	8
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. MELİH ENGİN
15	Course Lecturers:	Doç.Dr. Melih ENGİN
16	Contact information of the Course Coordinator:	Doç.Dr. Melih ENGİN melihengin@uludag.edu.tr Uludağ Üniversitesi İnegöl İşletme Fakültesi İnegöl Yerleşkesi Cerrah Yolu 16400 İnegöl /BURSA TÜRKİYE 0224 294 26 95
17	Website:	
18	Objective of the Course:	Getting to know different platforms with Python, doing basic coding with Python and developing data science applications
19	Contribution of the Course to Professional Development:	Python Programming Language; Python data types; Python data entry; Regression applications with Python; Python discrete variables and tests; Logit with Python; Bayesian statistics with Python; Applications
20	Learning Outcomes:	
	1	Makes Python installation
	2	Recognize platform running Python
	3	Python uses the basic commands
	4	Create projects Python
	5	Develops Data Science Applications with Python
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Python Introduction	
2	Python Installation	
3	Python variables	
4	Python print command strings	

5	Save and Run Project	
6	security	
7	Series	
8	Decision Tree	
9	Logistic Regression	
10	Support Vector Machines	
11	K-Nearlest Neighbor	
12	Hierarchical Clustering	
13	Hidden Markov Model	
14	The project implementation	

22	Textbooks, References and/or Other Materials:	“An Introduction to Statistics with Python”, Thomas Hallsater, Springer-Verlag, 2016. Think Stats 2e Allen B. Downey Ders Notları
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14		
Contribution of Final Exam to Success Grade	60.00	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preparation	0	0.00	0.00
Measurement and Evaluation Techniques Used in the Relative Evaluation			
Homeworks	0	0.00	0.00

Projects / WORK LOAD TABLE	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	0	0.00	0.00
Final Exams	1	35.00	35.00
Total Work Load			97.00
Total work load/ 30 hr			3.23
ECTS Credit of the Course			3.00

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ÖK5	0	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							