Introduction to Machine Learning									
Course code CIF62017		student workload 120 hours	credits (according to ECTS)	semeste Sem.4	r	frequency even. semester	duration 16 meetings		
1	Types of	courses	conta	ct hours	inc	dependent study	class size		
	Compuls	ory	84	hours		36 hours	40 students		
	(Study Pr	rogramme level)							
2	Prerequi	Prerequisites for participation							
	Have completed Artificial intelligence with D as the minimum grade.								
3	Learning outcomes								
	quality a	Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. (IF-ILO-3)							
	Graduates have the ability to think computationally, design-based thinking, conduct and scientific writing, and are able to apply the values of Technopreneurship in creating innovations in the Systems or Information Technology domain. (IF-ILO-4) Mastering the theoretical concept and principles of computer science, especially in the algorithms, programming, intelligent systems, information management, parallel and computing, information security, human-computer interaction, software engineer fundamentals of computer systems and networks. (IF-ILO-7)						•		
							rallel and distributed		
	Graduates are able to analyze, design, build and evaluate an intelligent system that has the able to learn from the environment. (IF-ILO-10)								
4	Subject aims								
	1. Students are able to explain the concepts of machine learning.								
	2. 8	Students are able to explain the data representations.							
	3.	Students are able	idents are able to implement the data preprocessing.						
	4. 8	Students are able	lents are able to apply classification algorithm.						
	5. 8	Students are able	to apply a clu	ıstering algor	ithm	l.			
		Students are able and clustering alo		ne appropria	te e	evaluation methods	for a classification		
5	Teaching methods								
	lectures, case study, class discussion, presentation								
6	Assessment methods								
	assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment								

7	This module is used in the following degree programmes as well					
	Information Engineering					
8	Responsibility for module					
9	Other information					
	1. Dietterich, Thomas et al 2010, . Introduction to Machine Learning Second Edition Adaptive					
	Computation and Machine Learning.					
	2. Shai Shalev-Shwartz and Shai Ben-David, 2014, Understanding MachineLearning Theory					
	Algorithms, Cambridge University Press.					
	3. Alpaydin, E., 2004. Introduction to machine learning. Adaptive computation and machine					
	learning. Cambridge, Mass: MIT Press.					