



COURSE LIST FOR EXCHANGE STUDENTS (2025/2026)

VOCATIONAL SCHOOL OF TECHNICAL SCIENCES

COMPUTER PROGRAMMING

CODE	COURSE	ECTS	SEMESTER	PROFESSOR	LEVEL OF EDUCATION	COURSE CONTENT
5035251	Artificial Intelligence	8	Spring	Asst. Prof. Dr. Levent CİVÇİK	Associate Degree	1- Data types and statistical methods used in data evaluation and basic statistical concepts 2- Practical application of Feature Engineering, Missing Value Imputation and Creating Dummy Variables, which form the basis of Data Science 3- Classification algorithms, specifically Logistic Regression algorithms 4- Clustering algorithms, specifically Hierarchical Clustering and Anomaly Detection algorithms. 5- Structuring Data and the Big Data Process. 6- Data structures used in Computer Vision algorithms and their applications. 7- Explaining the Matplotlib library and how to use it for data visualization. 8- Conducting studies on visualizing complex data with Matplotlib. Selecting appropriate graph(s) for the data and providing figure terminology 9- Focusing on Big Data Applications, comparing Hadoop HDFS and MapReduce configurations and explaining them comparatively with Apache Spark and Amazon Web Services (AWS) platforms 10- Comparative evaluation of other areas where data analysis is used