

# [DI 501 Section 1] Introduction to Data Informatics

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#### Course Conduct Information

by [TUĞBA TAŞKAYA TEMİZEL](#) - Friday, October 15, 2021, 10:04 AM

#### Course Syllabus

- Week 1: Introduction to Data Science: Basic Concepts
- Week 2: Platforms & Workbenches
- Week 3: Understanding Data: Exploratory Data Analysis
- Week 4: Understanding Data: Descriptive Analytics & Visualization
- Week 5: Data Acquisition and Preprocessing: Part I
- Week 6: Data Acquisition and Preprocessing: Part II
- Week 7: Practical Machine Learning: Part I
- Week 8: Practical Machine Learning (ML): Part II
- Week 9: Model Evaluation and Performance Metrics
- Week 10: Data Storytelling
- Week 11: Current Topics in Data Science: Big Data, ML Advance Topics & Data Mining
- Week 12: Data Driven Organizations, Ethics and Legal Issues in Data Science

**Course instructor:** Assoc.Prof.Dr. Tugba Taskaya Temizel E-mail: [ttemizel@metu.edu.tr](mailto:ttemizel@metu.edu.tr)

**Teaching assistant:** Mert Mecit [mert.mecit@metu.edu.tr](mailto:mert.mecit@metu.edu.tr)

**Background Requirements:** Basic programming skills preferably in Python.

Online tutorials in Python will be provided. All the reading materials and lecture notes will be available in ODTUClass.

**Assessment:** Assignments and Quizzes (40%), Final Exam (30%), Final Project (30%)

The course will be conducted online. Almost in every two weeks, there will be an online quiz during the official lecture hours: Mondays (9:40-12:30). All your quiz grades will be considered as one single assignment.

The course will be conducted online via Microsoft Teams. If you do not have an account, please open a new one ASAP:

<https://www.microsoft.com/en-us/education/products/office> (Enter your school e-mail address)

Then, subscribe to the course team:

[https://teams.microsoft.com/l/team/19%3aGtSAyXtbx3P0gRcs77Fg8JY98lurNPeasA5hZZ1dF\\_41%40thread.tacv2/conversations?groupId=4fc398c5-9fd5-4576-b33c-7506b1d0d462&tenantId=a6d8404c-cd2d-433b-8f4c-c5d18f9693ca](https://teams.microsoft.com/l/team/19%3aGtSAyXtbx3P0gRcs77Fg8JY98lurNPeasA5hZZ1dF_41%40thread.tacv2/conversations?groupId=4fc398c5-9fd5-4576-b33c-7506b1d0d462&tenantId=a6d8404c-cd2d-433b-8f4c-c5d18f9693ca)

**We will have our first meeting on the 18th of October Monday at 9:40 in Teams.**

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DI 501 Section 1

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