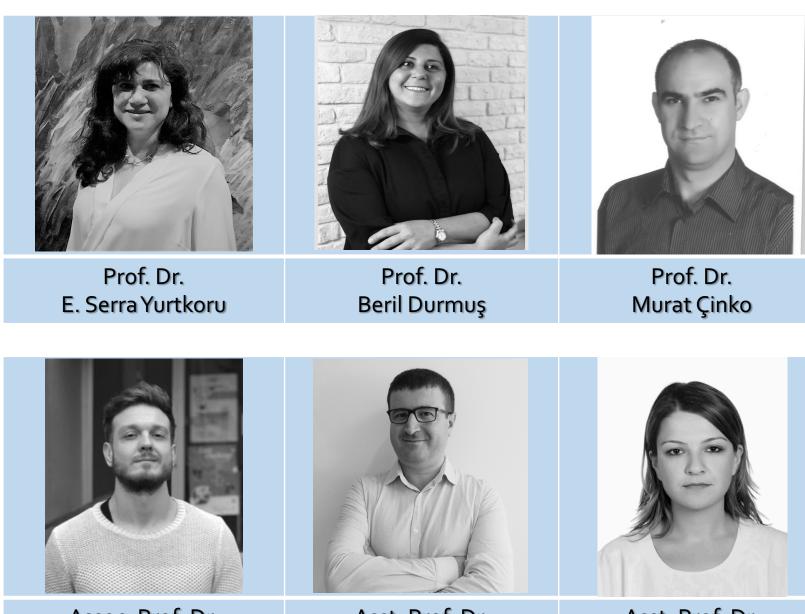
DECISION SCIENCE: A BRIEF OVERVIEW

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WHO ARE WE?



Assoc. Prof. Dr. Hüseyin Ekizler Asst. Prof. Dr. Aydın Erden Asst. Prof. Dr. Tutku Tuncalı Yaman



Businesses are increasingly collecting large amounts of information about their customers and activities.

This **big data** is big news with the businesses and governments as they consider how to use this mass of information in a meaningful way.

Decision Science concentration students use their expertise to

- \checkmark make sense of information,
- ✓ interpret it and uncover hidden patterns and important insights,
- ✓ enable evidence-based and objective business decisions.



Combining theoretical concepts with practical application, **DS major** offers a unique mix of quantitative and behavioral skills relevant to

- ✓ data analyses,
- ✓ effective decision-making,
- ✓ management

Decision Sciences concentration aims to provide the students an insight into business analytics and explores how organizations can exploit the big data revolution.



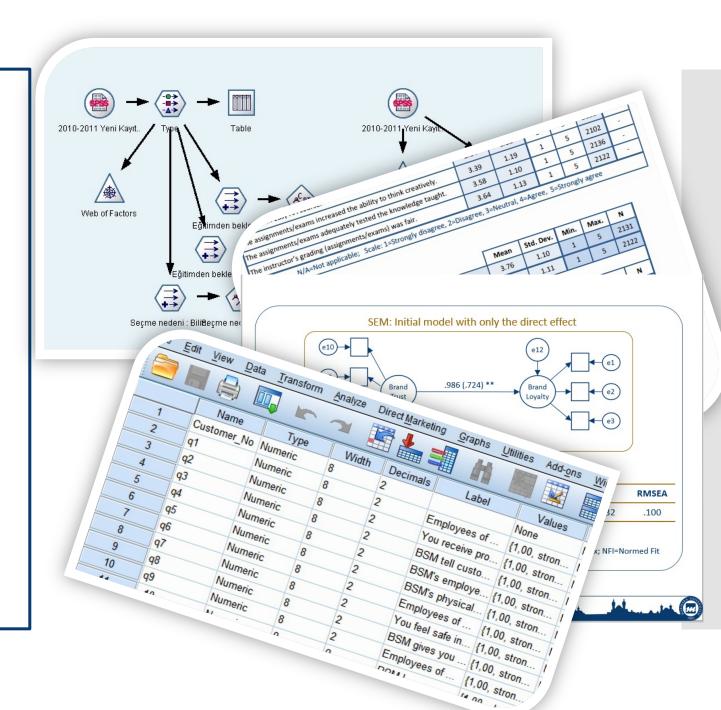
is an interdisciplinary field that draws on business, machine learning, data mining, statistical decision theory,

- operations research,
- forecasting, survey methods, and simulation theory.



LEARNING OBJECTIVES

- ✓ Demonstrating proficiency with statistical data analysis.
- Developing the ability to build and assess data based models.
- √ Demonstrating skill in data management.
- Applying data science concepts and methods to solve problems in real-world contexts
- \checkmark Conducting survey studies and reporting.



CAREER OPPURTUNITIES in DECISION SCIENCE

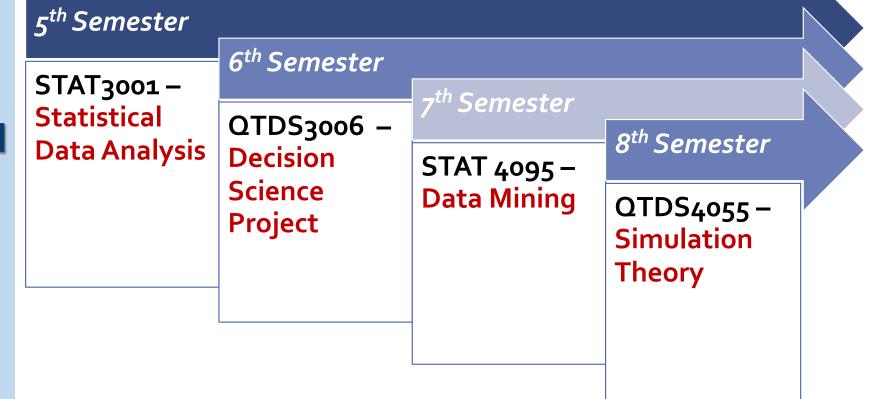
- In addition to career in Finance, Marketing, Human Resources, you can be:
- Data Analyst
- Data Scientist
- Business Analyst
- Operations Manager
- Researcher



SKILLS YOU SHOULD/WILL HAVE

- **1**.Curiosity
- 2.Observer
- **3.**Analytical Thinking
- 4.Communication Skills
- **5**.Fundamentals of Data Science
 - i. Statistics
 - ii. Data Manipulation and Analysis
 - iii. Data Visualization
 - iv. Model Deployment
- 6.Machine Learning
- 7.Big Data
- 8. Precise Decision Making

CONCENTRATION COMPULSORY COURSES



CONCENTRATION ELECTIVE COURSES

7th & 8th Semester

BUS4091 – Electronic Business QTDS4053 – Operations Research Applications QTDS4054 – Python for Data Analysis QTDS4096 – Game Theory STAT4093 – Forecasting STAT4094 – Statistical Process Control MIS3311 – Knowledge Management MIS3313 – Business Intelligence MIS3314 – Human Factors in Computing MIS3315 – Digital Transformation & Industry 4.0 MIS4321 – Financial Information Systems MIS4342 – Cloud Computing MIS4352 – Blockchain Basics MIS4382 – Ethical Issues in Computing

Any Questions?

TNOWK JOU!