DECISION SCIENCE: A BRIEF OVERVIEW

WHO ARE WE?

Prof. Dr. E.Serra Yurtkoru

Prof. Dr. Beril Durmuş

Prof. Dr. Murat Çinko

Assist. Prof. Dr. Ayşe Çınar

Assist. Prof. Dr. Hüseyin Ekizler

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 major students use their expertise to

- ✓ *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*

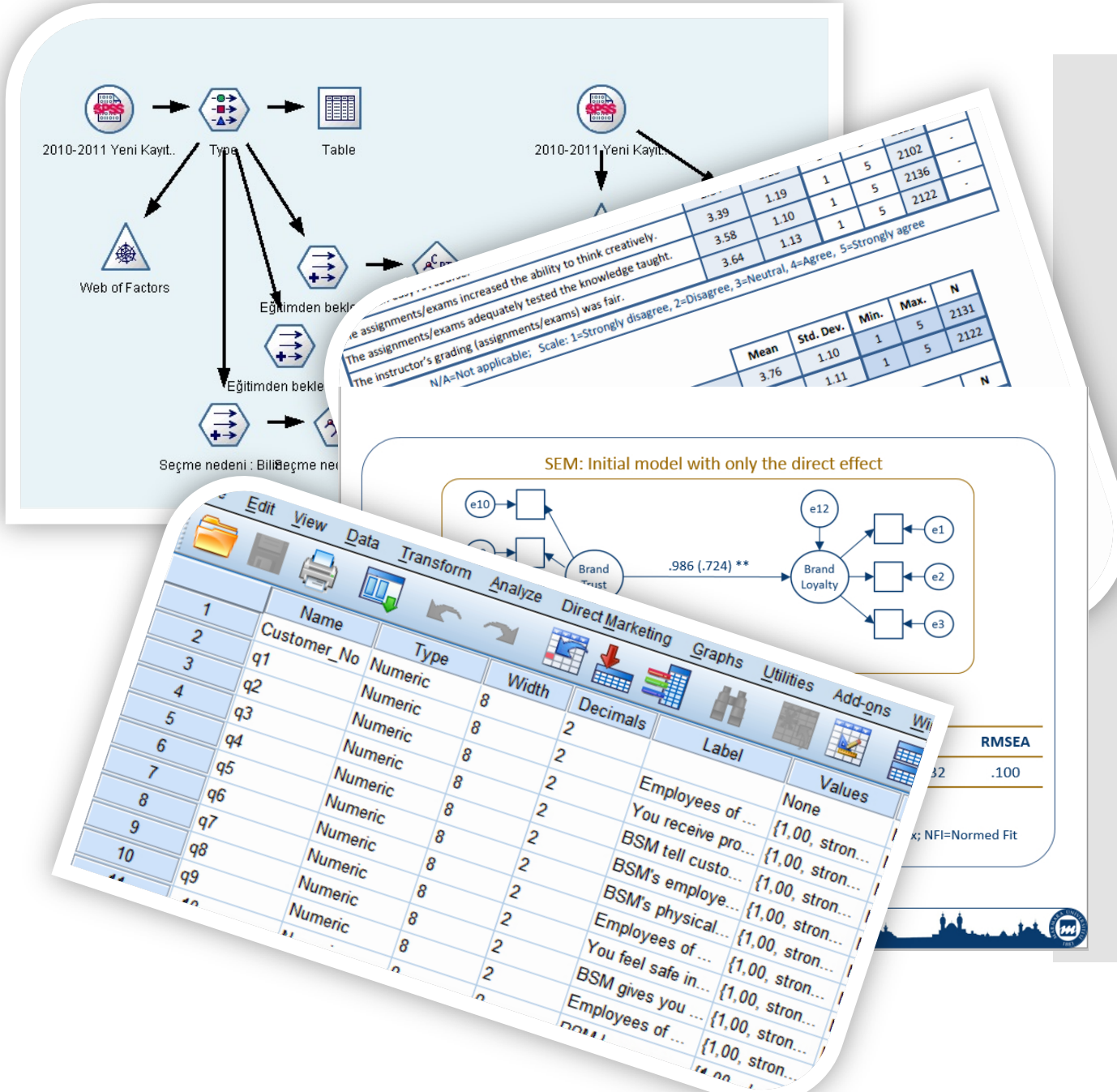
Decision Sciences major aims to provide the students an insight into business analytics and explores how organizations can exploit the big data revolution.

DS

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
- √ Conducting survey studies and reporting.



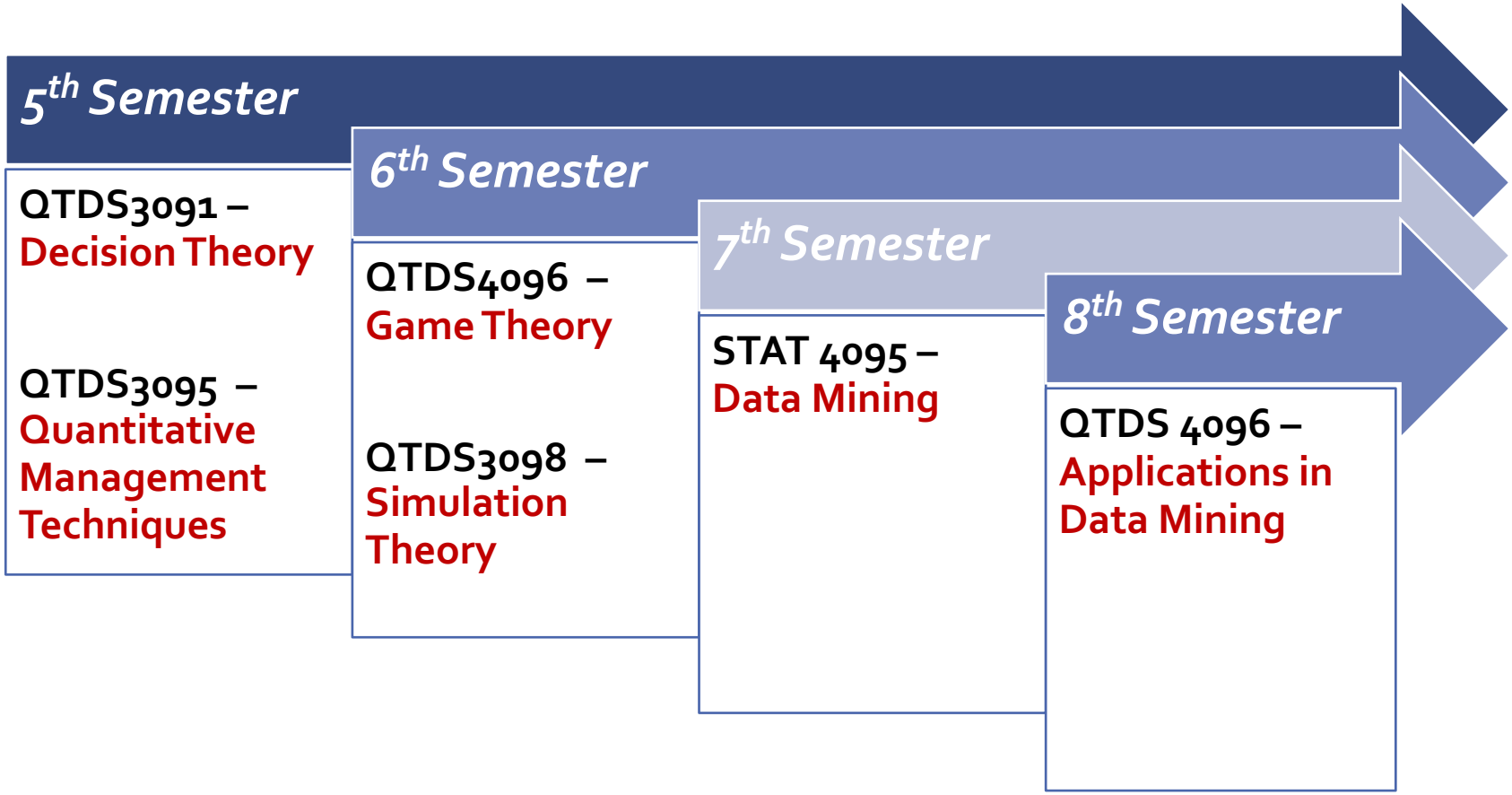
CAREER OPPURTUNITIES in DECISION SCIENCE

- ✓ 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

MAJOR COMPULSORY COURSES



MAJOR ELECTIVE COURSES

7th Semester

BUS4091 – Electronic Business

STAT4093 – Forecasting

8th Semester

STAT4094 – Statistical Process Control

QTDS4094 – Computer Applications in Operations Research

Any Questions?