

# DATA SCIENCES AND OPERATIONS

SPRING 2024 SEMESTER

## DSO 580 — Project Management

Section – 16264/16265

### Professor

Murat Bayiz

### Email

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### When

16264: Monday, 6:30 PM – 9:20 PM

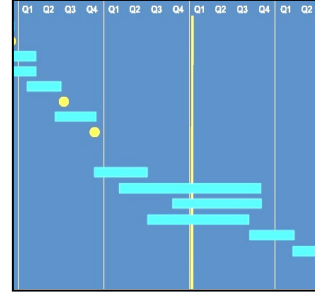
16265: Mon/Wed, 5:00 PM- 6:20 PM

### Office

BRI 307 A

### Units

3.0



## WHY TAKE THIS COURSE?

In any position, our graduates will work in projects either as a project manager or a team member. It is important that they know effective project management methodologies. This course provides them with necessary formal project management skills that can be applied all industries.

## COURSE OBJECTIVES

To provide students with tools and skills needed in planning, managing, monitoring and controlling complex projects with numerous uncertainties. Also, to teach Microsoft Project, Excel and simulation models to make quantitative trade-offs while managing projects

## KEY CONCEPTS

- Project organization structures
- Work Break Down structures
- Project evaluation and selection
- Planning and budgeting
- Project scheduling (CPM/PERT)
- Resources management
- Time and cost trade-offs
- Risk management
- Product management
- Agile project management and Scrum
- Project monitoring with Earned Value analysis
- Microsoft Project applications
- Excel and Monte-Carlo Simulation models

## COURSE DESCRIPTION

This course begins with project definition and organization concepts. Then it moves on to planning and scheduling methodologies. It will also cover risk and resource management, Agile project management, and Earned Value Analysis. Course materials are enriched with guest speakers, games, software tutorials on MS Project, Excel and Crystal Ball, and case discussions