

DATA SCIENCES AND OPERATIONS

FALL 2024

DSO 580 — Project Management

Section(s) – 16286/16287

Professor

Murat Bayiz

Email

bayiz@marshall.usc.edu

When

16286 – Tue/Thu: 5:00 PM – 6:20 PM

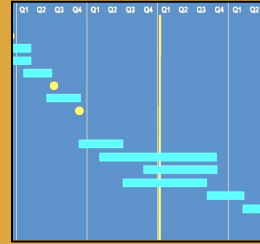
16287 – Tue/Thu: 12:30 PM – 1:50 PM

Office

BRI 307 A

Units

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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, estimation, scheduling methodologies projects. It will also cover risk and resource management and Earned Value Analysis. Course materials are enriched with guest speakers, games, software tutorials in MS Project, Excel and Crystal Ball, and case discussions.