



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Leading in Engineering Organizations

ENGR 5680

Credit Hours:

1.50 - 1.50

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture

Course Description:

Understanding and utilizing keys to leading in engineering. Exposure to the underpinning of leadership in engineering environments including tenets, theories, debates, strategies, and innovation techniques.

Course Goals / Objectives:

- Have definitional understanding of leadership and its application in engineering organizations
 - Recognize the difference between management and leadership in engineering
 - Be able to apply the six leadership tenets
 - Distinguish among leadership styles in engineering organizations
 - Have a working knowledge of collaborative leadership in an engineering organizations
 - Appreciate the leadership implications of a multi-generational workforce
 - Be exposed to leaders in engineering organizations
 - Become more proficient leaders in engineering organizations
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Course Topics:

- Why Study Leadership in Engineering Organizations? Are Leaders Born or Made? Leading in Technical/Engineering Organizations Behavior Realities of Technical/Engineering Organizations
 - Leadership Tenets for Engineers* -Start with the Heart -Create Trust -Equip People to Excel -Use the Word Why -Have Fun! -Cast a Splendid Shadow
 - Essence of Engineering Leaders* -Self-Awareness -Self-Management -Self-Motivation -Interpersonal Expertise -Relationship Building
 - Life Balance
 - Engineering Leaders vs Managers
 - Multi-Generational Workforce Implications
 - Networking
 - Mentoring Engineering Professionals
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Designation:

Elective