

CERTIFICATE IN ENGINEERING MANAGEMENT

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Engineering Management Certificate Program aims to help individuals to understand and apply technical management principles to engineering projects by making right decisions at the right time with the associated cost, time and quality considerations. The principles covered in this program would help to gain technical management insight to tackle diverse engineering problems that exist in a dynamic business environment.

Learning Objectives

1. Understand how to complete technical projects that require engineering and/or computing knowledge base.
2. Analyze different financial aspects of projects for determining performance measurements for completion of engineering and/or computing projects.
3. Apply quality principles on systems to successfully complete engineering and/or computing projects.
4. Integrate principles of engineering management to complete a team-based real-life Engineering Management project.

Engineering Management Program of Study

Students pursuing this certificate take a total of three courses (9 credits) as outlined below.

| Code | Title | Credits |
|---------------------------------------|--|---------|
| Required | | |
| IER 401 | Introduction to Engineering Management | 3 |
| IER 402 | Engineering Quality Management & Decision Making | 3 |
| Take 1 course from the following list | | 3 |
| IER 230 | Lean Systems Engineering (MER 235) | |
| IER 280 | Data Analytics I | |
| IER 375 | Statistical Process Control | |
| MG 302 | Managing People, Projects and Change | |
| MG 335 | Project Management | |
| MG 360 | Power and Politics of Leadership | |