Engineering Project Management & Planning - Course Syllabus

Engr. 5312

Professor Raymond H. Williams

January 18, 2017
Welcome

- Engineering Project Planning and Management-ENGR 5312
- Your own company’s project management processes and tools
TEXTS


Texts available at Avery Point book store or Amazon(new and used)
Case Studies

• Multiple Sources including:
  ➢ Project Management Case Studies by Harold R. Kerzner 4th Edition
  ➢ University of Connecticut Construction Projects
  ➢ Harvard Business Review Press
Team Projects

• Simulated real life Engineering and Construction Projects utilizing weekly and cumulative Earned Value Management System data for the duration of the project.

• Projects are focused on developing and applying Project Management and Leadership skills.
Course Objectives

- To guide your understanding of recognized fundamental methods and approaches for successful engineering project planning and management.

- To develop your understanding and knowledge of the project and program management processes and tools used including those used by your company.
Course Structure

- **Classes/Lectures (15 Weeks)**
  
  Wednesdays: 5-8PM  
  Dates: Jan 18 – May 3 = 15 classes  
  Schedule Exception: No class March 15 - Spring Break  
  Classes – Lectures, Case Studies, Class Projects, Discussions, Project Management Problem Solving & Team Projects

- **Quizzes/Project Review Presentations**

  Quiz Chapters 1-4 – February 15  
  Mid-Term-Team Project Presentations – March 8  
  Quiz Chapters 5-9 – April 15  
  Final Team Project Presentations – May 3
Course Grading

- Team Project 50%
  - Mid-Term Project Reviews 20% made up of 10% team and 10% individual
  - Final Project Reviews 30% made up of 15% team and 15% individual

- Quizzes 25%

- Homework/ Case Studies/Class Participation 25%
## Class Schedule and Topics

### Project Initiation

<table>
<thead>
<tr>
<th>Topic</th>
<th>Chapter/Weeks</th>
<th>Dates</th>
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</thead>
<tbody>
<tr>
<td>1. Projects Contemporary Organizations</td>
<td>Chapter 1: The Project Plan</td>
<td>January 18 - AP</td>
</tr>
<tr>
<td>2. Strategic Management /Project Selection</td>
<td>Chapter 2: Project/Team Member Selections</td>
<td>January 25 - CCAT</td>
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<tr>
<td>3. Project Manager</td>
<td>Chapter 3: Risk Management Plan</td>
<td>February 1 - AP</td>
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<tr>
<td>4. Negotiation/Conflict</td>
<td>Chapter 4: Risk Management</td>
<td>February 8 - AP</td>
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<tr>
<td>5. Organization Structure</td>
<td>Chapter 5: Quiz 1- Chapters 1-4</td>
<td>February 15 - CCAT</td>
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## Class Schedule and Topics

### Project Planning

<table>
<thead>
<tr>
<th>Topic</th>
<th>Chapter/Section</th>
<th>Date</th>
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<tbody>
<tr>
<td>6. Activity Planning</td>
<td>Chapter 6</td>
<td>February 22- AP</td>
</tr>
<tr>
<td>7. Estimating</td>
<td>Chapter 7</td>
<td>March 1- AP</td>
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<tr>
<td></td>
<td>Earned Value Management System</td>
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<tr>
<td>8. Mid-Term Project Presentations</td>
<td>Oral Team Presentations</td>
<td>March 8- CCAT</td>
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<tr>
<td>Spring Break</td>
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<td>March 15</td>
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<td>9. Scheduling</td>
<td>Chapter 8</td>
<td>March 22-AP</td>
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<tr>
<td>10. Resource Allocation</td>
<td>Chapter 9</td>
<td>March 29-AP</td>
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## Class Schedule and Topics

### Project Execution

<table>
<thead>
<tr>
<th></th>
<th>Chapter</th>
<th>Date</th>
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<tbody>
<tr>
<td>11. Monitoring and Information Systems</td>
<td>Chapter10 Quiz 2- Chapters 5-9</td>
<td>April 5- CCAT</td>
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<tr>
<td>12. Project Control</td>
<td>Chapter 11</td>
<td>April 12- AP</td>
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<tr>
<td>13. Project Audit</td>
<td>Chapter12</td>
<td>April 19-AP</td>
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<tr>
<td>14. Project Termination</td>
<td>Chapter 13</td>
<td>April 26 -CCAT</td>
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<tr>
<td>15. Project Final Presentations</td>
<td>Oral Final Team Presentations</td>
<td>May 3-AP</td>
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Professor Ray Williams

- Office – North Wing Second floor – Building 19 Room 203B
- Office Hours – Wednesdays 4:00-5:00 PM & By Appointment
- Contact Information
  - E-mail: raymond.williams@uconn.edu
  - AP Office Phone: 860-405-9288
  - Home Phone: 860-691-2216
  - Cell Phone- urgent only: 860-961-8916
Course Streaming Media Site

To Be Determined
Husky ct site

- All Lecture notes and material reference

- huskyct.com.edu
Meng Web Site

cdee@engr.uconn.edu

or

meng.uconn.edu