Proj_Mgt 451

Information Technology in Construction

Objective:
This course is a thorough review of information systems and technology that are being used in the construction industry. Included are elements of preconstruction, construction, accounting, and other support functions. Also reviewed are both technical and organizational aspects involved in the use of new systems.

The course employs a combination of lecture and outside reading, and it depends heavily on demonstrations of various software products in each category. The demonstrations are used to help students differentiate products and understand the application of technology in the day-to-day processes in which they are involved.

Week 1 - Industry Overview and Technology Trends
Week 2 - Role of Project Manager, Vendors, and System Integration
Week 3 - Project Management and Prolog
Week 4 - Subcontract Management
Week 5 - Scheduling, Estimating, and OpenPlan
Week 6 - Managing Technology
Week 7 - Technology at the Job Site, including Wireless
Week 8 - Integration with Design, Report Writing, and Custom Programming
Week 9 - Financial Management
Week 10 - Job Cost

Grading:

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<th>Component</th>
<th>Weight</th>
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<tr>
<td>Papers</td>
<td>20%</td>
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<td>Mid-term</td>
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<tr>
<td>Participation</td>
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