|  |  |
| --- | --- |
|  | **King Saud University**  **College of Engineering**  **Department of Civil Engineering** |

**GE 404: ENGINEERING MANAGEMENT**

**2nd Semester 1435/1436H**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Topic** | **Reading Assignment** | **Duration “Weeks”** |
| **INTRODUCTION & PROJECT ORGANIZING** | | | |
| 1a | Introduction for Engineering Management | Ch. 1 & Class Notes | 1 |
| 1b | Project Participants and Project Life Cycle | Class Notes | 0.5 |
| **PROJECT PLANNING** | | | |
| 2 | Project Time Planning:   * Processes, and * Bar (Gantt) Chart | Ch. 1 | 1 |
| 3 | Network Model:   * Activity-On-Node (AON), * Precedence Diagramming, and * Time\_scaled network | Ch. 2 (pp. 37-43)  Ch. 4 (pp. 93-107) | 2 |
| 4a | Resource Leveling and Allocation | Ch. 7 (pp. 191-210) | 1.5 |
| 4b | Resource Leveling & Allocation using MS project software | Class Note | 1 |
| 5 | Time-Cost Trade-Offs | Ch. 8 (pp. 237-249) | 1.5 |
| **PROJECT FINANCING AND CONTROL** | | | |
| 6 | Contractual and Organizational Approaches | Ch. 1 & Class Notes | 0.5 |
| 7 | Financial Management: Cashflow Forecasting | Class Notes | 1.5 |
| 8a | Time Control | Ch. 5 (pp. 133-163) & Class Notes | 1 |
| 8b | Cost Control | Ch. 5 (pp. 133-163) & Class Notes | 1 |
| 9 | Analysis of Scheduling Delay | Class Notes | 1.5 |

|  |
| --- |
| **First Mid-Term Exam: Sunday** **10/05/1436H (01/03/2015G) from 6:30 to 8:00 PM**  **Second Mid-Term Exam: Sunday 07/07/1436H (26/04/2015G) from 7:00 to 8:30 PM** |

**Textbook:** Project Management with CPM, PERT, and Precedence Diagramming,

3rd Edition, by Moder J., Phillips, C., and Davis, E.

**Grading:** Mid-term Exams 48%

Assignments and Quizzes 8%

MS project software lab test 4%

Final Examination 40%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week#** | **Week Start** | | | **Toipc** |
| **Day** | **Date (Geo.)** | **Date (Hijri)** |
| **1** | **Sunday** | **25/1/2015** | **5/4/1436** | Intrduction |
| **2** | **Sunday** | **1/2/2015** | **12/4/1436** | Bar Chart |
| **3** | **Sunday** | **8/2/2015** | **19/4/1436** | AON |
| **4** | **Sunday** | **15/2/2015** | **26/4/1436** | Precedence & Time-scaled network |
| **5** | **Sunday** | **22/2/2015** | **3/5/1436** | Resource Leveling |
| **6** | **Sunday** | **1/3/2015** | **10/5/1436** | Resource Allocation |
| **7** | **Sunday** | **8/3/2015** | **17/5/1436** | MS project for Resource leveling & Allocation |
| **8** | **Sunday** | **15/3/2015** | **24/5/1436** | Time-Cost Trade-Offs |
| **Spring Break** | **Sunday** | **22/3/2015** | **2/6/1436** | **Spring Break** |
| **9** | **Sunday** | **29/3/2015** | **9/6/1436** | Contractual and Organizational Approaches |
| **10** | **Sunday** | **5/4/2015** | **16/6/1436** | Financial Management |
| **11** | **Sunday** | **12/4/2015** | **23/6/1436** | Financial Management |
| **12** | **Sunday** | **19/4/2015** | **30/6/1436** | Time Control |
| **13** | **Sunday** | **26/4/2015** | **7/7/1436** | Cost Control |
| **14** | **Sunday** | **3/5/2015** | **14/7/1436** | Analysis of Scheduling Delay |
| **15** | **Sunday** | **10/5/2015** | **21/7/1436** | Analysis of Scheduling Delay |
| **Final Exam** | **Sunday** | **17/5/2015** | **28/7/1436** | **To Be annoced by Colleage** |