A. Basic Information

Course Title: Subjective Research  
Code: MDP323  
Lecture: 3  
Tutorial: 2  
Practical: -  
Total: 5

Program on which the course is given: B.Sc. Mechanical Engineering (Productions)  
Major or minor element of program: Major  
Department offering the course: Mechanical Engineering Department

B. Professional Information

1. Overall aims of course  
   By the end of the course the students will be able to understand the concepts and basics of industrial project management

2. Intended Learning outcomes of Course (ILOs)

   a. Knowledge and Understanding:  
      a.5 , a.6) a.7) , a.9), a.20)

   b. Intellectual Skills  
      b.1) , b.2) , b.3) , b.5), b.7), b.9) , b.10) , b.11) , b.12) , b.13) b.17)

   c. Professional and Practical Skills
c.1) , c.2) , c.5) , c.6) , c.7) , c.8) , c.9) , c.10) , c.11) , c.15) , c.19)

d. General and Transferable Skills
  d.1) , d.2) , d.3) , d.4) , d.5) , d.6) , d.7) , d.8) , d.9)

3. Contents

<table>
<thead>
<tr>
<th>No</th>
<th>Topic</th>
<th>No. of hours</th>
<th>ILOs</th>
<th>Teaching / learning methods and strategies</th>
<th>Assessment method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Process Management</td>
<td>3</td>
<td>a.5 , a.6) a.7) , a.9), a.20), b.1) , b.2) , b.3) , b.5), b.7), b.9) , b.10), b.11) , b.12) , b.13) b.17)</td>
<td>Lecture, Assignment, Site Visits</td>
<td>Assignment, Quiz, Oral exam</td>
</tr>
<tr>
<td>2</td>
<td>Production Engineering</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Problems &amp; Constraints</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Select a Production Engineering Problem</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Problem Solving Approach</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mid term exam

| 9  | Computer Applications         | 6            | c.1) , c.2) , c.5) , c.6) , c.7) , c.8) , c.9) , c.10) , c.11) , c.15) , c.19), d.1) , d.2) , d.3) , d.4) , d.5) , d.6) , d.7) , d.8) , d.9) | Lecture, Assignment, Site Visits | Assignment, Quiz, Oral exam |
| 10 |                              |              |                       |                                          |                   |
| 11 | Report Outline                | 6            |                       |                                          |                   |
| 12 |                              |              |                       |                                          |                   |
| 13 | Case Studies                  | 6            |                       |                                          |                   |
| 14 |                              |              |                       |                                          |                   |

Final exam

4. Teaching and Learning Methods
5. **Student Assessment Methods**
   - X Assignments to assess the training skills
   - X Quiz to assess the sheet solving
   - X Mid-term exam to assess the course understanding
   - X Oral exam to assess the Presentation skills
   - X Final exam to assess the course understanding
   Other: site visit to assess the best practice

6. **Assessment schedule**
   - Assessment 1 on weeks
   - Assessment 2 Quizzes on weeks
   - Assessment 3 Mid-term exam on week 8
   - Assessment 4 Oral Exam on week
   - Assessment 5 Final exam on week 15

7. **Weighting of Assessments**
   - Mid-Term Examination 20%
   - Final-Term Examination 60%
   - Oral Examination 5%
   - Practical Examination 5%
   - Semester Work 5%
8. List of References

8.1 Course Notes
Course notes prepared by instructor (Power Point & Case Studies)

8.2 Essential Books (Text Books)
- B. Kumar, "Industrial Engineering & Management", Khana Pub., 2004

8.3 Recommended Books

8.4 Periodicals Web sites, etc

"MohandesKhana" Mohandeskhana@yahoogroups.com

9. Facilities Required for Teaching and learning
Lecture room equipped with overhead projector, Presentation board, computer and data show

Course coordinator: Prof. Dr. Attia Gomaa  
Course instructor: Prof. Dr. Attia Gomaa  
Head of department: Prof. Dr. Maher Hegazy  

Date: 12 / 12 / 2011