Course specification of

Report M 598

University: Benha
Faculty: Higher Institute of Technology

Programme on which the course is given: All Mechanical Engineering Programmes
Major or minor element of programme: N.A
Department offering the programme: Mechanical Engineering Department
Department offering the course: Mechanical Engineering Department
Academic year / level: Fifth year/first semester

A- Basic Information

Title: Report
Code: M 598
Credit Hours: 2
Lecture: 0
Tutorial: 2
Practical: 0
Total: 2

B- Professional Information

1- Overall aims of course

By the end of the course the students will be able to:
- Study an engineering or industrial related problem
- Search for data and organize field visits
- Analyze a problem and draw some conclusions
- Develop or propose substantial solutions
- Write a technical report outlining the problem
- present and discuss the technical report

2- Intended Learning outcomes of course (ILOs)

a- Knowledge and understanding

a1- Know how to handle problems facing engineering activities
a2- Know how to collect data and information related to certain engineering field
a3- Know and understand how to analyze certain engineering problem
a4- Know how to discuss and to draw conclusions concerning certain case study
a5- Know how to write and present a technical report

b- Intellectual skills

b1- Assign proper means for gathering and analyzing data about certain problem
b2- Suggest alternative solutions according to different constrains
b3- Assign a proper solution to a certain engineering or industrial related problem
c- Professional and practical skills

   c1- Identify engineering and industrial related problems
   c2- Select the proper procedure to solve certain problem
   c3- Capability of writing and presenting technical reports
   c4- Deal with engineering problems under different circumstances
   c5- Analyze methods and tools used in engineering and industrial related subjects

d- General and transferable skills

   d1- Present the technical report in oral seminar
   d2- Present the engineering problems in a written reports
   d3- Work as a part of a team in discussion group for a real case study

3- Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. Of Hours</th>
<th>Lecture Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory meetings with the report group</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Assigning or selecting the fields of the study for each member</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Arranging and scheduling related field visits and data gathering</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Discussing problems and proposals to overcoming them</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Discussing proposals and data presentation methods</td>
<td>6</td>
<td>6</td>
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<tr>
<td>Preliminary oral presentations (Seminar) emphasizing the progress of the work</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Discussing the preliminary report forms</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Presenting of the semi final report with last recommendations</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Final review meeting for assessing final report form</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Total</td>
<td>30</td>
<td>30</td>
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</tbody>
</table>

4- Teaching and learning methods

   41- Class meetings
   42- Internet search
   43- Computer facilities
   44- Field visits
   45- Seminar

5- Student assessment methods

   51- Participation in meetings
   52- Participation in seminar
   53- Participation in report preparation
   53- Written final Report
   55- Oral final Discussion
Assessment schedule

Assessment 1  Participation in meetings  Weekly
Assessment 2  Participation in seminar  Week 12
Assessment 3  Participation in report preparation  Week 10 – 14
Written final Report  Week 15
Oral final Discussion  Week 15

Weighting of assessments

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Participation in meetings</td>
<td>20 %</td>
</tr>
<tr>
<td>Participation in seminar</td>
<td>20 %</td>
</tr>
<tr>
<td>Participation in report preparation</td>
<td>20 %</td>
</tr>
<tr>
<td>Written final Report</td>
<td>10 %</td>
</tr>
<tr>
<td>Oral final Discussion</td>
<td>30 %</td>
</tr>
<tr>
<td>Total</td>
<td>100 %</td>
</tr>
</tbody>
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6- List of references

6.1 Course Notes  Meetings

6.2 Essential books (Text books)  Institute Bibliotheca

6.3 Recommended books  Institute Bibliotheca

6.4 Periodicals, Web sites,…etc  Computer facilities

7- Facilities required for teaching and learning

- Computer facilities
- Field visits
- Class meetings and Siminars

Course Coordinator:  Prof. Dr. Abdelmoty M. Elhakeem

Head of Department:  Dr. Sameh A. Nada

Date: