Description: Mechanical Drafting

Subject  Cat-Nbr  Class  Term  Mode  Units  Campus
MEC  2304  25165  2, 2003  ONC  1.00  TW MBA

Academic Group: FOENS
Academic Org: FOES02
HECS Band: 2
ASCED Code: 030701

STAFFING
Examiner: Peter Penfold
Moderator: Harold Greer

PRE-REQUISITES
Pre-requisite: ENG1100

OTHER-REQUISITES
Prerequisites E0006

RATIONALE
A common employment area for graduates of the Bachelor of Engineering Technology or the Associate Degree programs is drafting. Therefore the student must be instructed in all areas appropriate to the mechanical drafter.

SYNOPSIS
This course develops students' skills and confidence in those techniques and considerations deemed to be essential for mechanical engineering drafting and develops their awareness of the importance of drafting as a form of communication.

OBJECTIVES
On completion of this course, students should be able to:

- construct any given geometrical shape, conic section or loci;
- develop any surface;
- present a schematic drawing of an engineering process or system;
- propose a solution to a given engineering problem, in which the student: (a) produces an assembly drawing of the proposed solution; (b) produces detail drawings or manufacturers' specifications as appropriate for the components.
TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Geometric constructions</td>
<td>15.00</td>
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<tr>
<td>2. Developments</td>
<td>15.00</td>
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<tr>
<td>3. Assembly drawings</td>
<td>20.00</td>
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<td>4. Detail drawings</td>
<td>20.00</td>
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<tr>
<td>5. Manufacturer's reference materials</td>
<td>15.00</td>
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<tr>
<td>6. Schematic drawing</td>
<td>15.00</td>
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</tbody>
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TEXT and MATERIALS required to be PURCHASED or ACCESSED:

Books can be ordered by fax or telephone. For costs and further details use the 'Book Search' facility at http://bookshop.usq.edu.au by entering the author or title of the text.

Drawing equipment.


REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

SAA HB3 Electrical and Electronic Drawing Practice for Students.

Engineering Drawing Handbook SAA-HB7 Standards Australia.

STUDENT WORKLOAD REQUIREMENTS

<table>
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<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Assessment</td>
<td>50</td>
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<tr>
<td>Directed Study</td>
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<tr>
<td>Lectures</td>
<td>14</td>
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<tr>
<td>Tutorial</td>
<td>28</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks Out of</th>
<th>Wtg(%)</th>
<th>Required</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>ASSIGNMENT 1</td>
<td>200.00</td>
<td>20.00</td>
<td>Y</td>
<td>22 Aug 2003</td>
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<tr>
<td>ASSIGNMENT 2</td>
<td>800.00</td>
<td>80.00</td>
<td>Y</td>
<td>31 Oct 2003</td>
</tr>
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</table>
IMPORTANT ASSESSMENT INFORMATION

1 Attendance requirements:
   It is the students' responsibility to attend and participate appropriately in all activities
   (such as lectures, tutorials, laboratories and practical work) scheduled for them,
   and to study all material provided to them or required to be accessed by them to
   maximise their chance of meeting the objectives of the course and to be informed
   of course-related activities and administration.

2 Requirements for students to complete each assessment item satisfactorily:
   To complete each of the assessment items satisfactorily, students must obtain at
   least 50% of the marks available (or at least a grade of C-) for each assessment
   item.

3 Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval then a
   penalty of 20% of the total marks available for the assignment will apply for each
   working day late.

4 Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade a student must submit all of the
   summative assessment items and achieve at least 50% of the available weighted
   marks for those items. Students who do not qualify for a Passing grade may, at the
   discretion of the Examiner, be assigned additional work to demonstrate to the
   Examiner that they have achieved the required standard. It is expected that such
   students will have gained at least 45% of the total marks available for all summative
   assessment items.

5 Method used to combine assessment results to attain final grade:
   The final grades for students will be assigned on the basis of the weighted aggregate
   of the marks (or grades) obtained for each of the summative assessment items in
   the course.

6 Examination information:
   There is no examination in this course.

7 Examination period when Deferred/Supplementary examinations will be held:
   Not applicable.

8 University Regulations:
   Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10
   Academic Misconduct for further information and to avoid actions which might
   contravene University Regulations. These regulations can be found at the URL
   http://www.usq.edu.au/SECARIAT/calendar/Part5/ or in the printed version of the
   current USQ Handbook.

ASSESSMENT NOTES

1 The due date for an assignment is the date by which a student must despatch the
   assignment to the USQ. The onus is on the student to provide proof of the despatch
   date, if requested by the Examiner.

2 Students must retain a copy of each item submitted for assessment. This must be
   despatched to USQ within 24 hours if required by the Examiner.
3 In accordance with University's Assignment Extension Policy (Regulation 5.6.1), the examiner of a course may grant an extension of the due date of an assignment in extenuating circumstances.

4 The Faculty will normally only accept assessments that have been written, typed or printed on paper-based media.

5 The Faculty will NOT accept submission of assignments by facsimile.

6 Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the examiner of the course to negotiate such special arrangements.

7 In the event that a due date for an assignment falls on a local public holiday in their area, such as a Show holiday, the due date for the assignment will be the next day. Students are to note on the assignment cover the date of the public holiday for the Examiner's convenience.

8 Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non-directed personal study.

9 Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete - Deferred Examination; IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).