Assessment Notification

Faculty: Industrial Arts  Course: Engineering Studies  Year: 12
Assessment Task: Trial HSC Examination
Assessment Weighting: 30%  Due: Term 2 Week 10  Date:
Task Type: Hand in Task ☐  In Class Task ☒  Practical Task ☐

Outcomes assessed (NESA)
H1.2 differentiates between the properties and structure of materials and justifies the selection of materials in engineering applications.
H3.1 demonstrates proficiency in the use of mathematical, scientific and graphical methods to analyse and solve problems of engineering practice.
H3.3 develops and uses specialised techniques in the application of graphics as a communication tool.
H4.2 applies knowledge of history and technological change to engineering-based problems.
H4.3 applies understanding of social, environmental and cultural implications of technological change in engineering to the analysis of specific engineering problems.

Task Description/Overview
Engineering Trial HSC (3hrs + 5mins reading)

Detailed Assessment Task Description
Trial Examination- Modules covered:
- Civil Structures
- Personal & Public Transport
- Aeronautical Engineering

Aspects examined in each module include:
- Historical developments
- Engineering mechanics
- Engineering materials
- Electrical/electronics
- Communication

Written Exam - Multiple Choice section – 20 marks
- Short answer section – 80 marks  Total = 100 marks

Assessment Criteria

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Mark Range</th>
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<tbody>
<tr>
<td>Outstanding (O)</td>
<td>Demonstrates outstanding skills in analysis and problem solving in engineering. Outstanding ability in determining suitable properties, uses and applications of materials, components and processes in engineering.</td>
<td>90-100</td>
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<tr>
<td>Grade</td>
<td>Description</td>
<td>Score Range</td>
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<tr>
<td>High (H)</td>
<td>Demonstrates high ability in analysing and problem solving in engineering. A high ability in determining suitable properties, uses and applications of materials, components and processes in engineering.</td>
<td>80-89</td>
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<td>Sound (S)</td>
<td>Demonstrates a sound ability in analysing and problem solving in engineering. Has reasonable ability in determining suitable properties, uses and applications of materials, components and processes in engineering.</td>
<td>60-79</td>
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<tr>
<td>Basic (B)</td>
<td>Demonstrates a basic ability in analysing and problem solving in engineering. A basic ability in determining suitable properties, uses and applications of materials, components and processes in engineering.</td>
<td>30-59</td>
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<tr>
<td>Limited (L)</td>
<td>Demonstrates a limited ability in analysing and problem solving in engineering. Struggles to determine suitable properties, uses and applications of materials, components and processes in engineering.</td>
<td>0-29</td>
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**Satisfactory completion of courses**
A course has been satisfactorily completed, when the student has:
- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all of the course outcomes