

## Varsity College Year 11 Engineering 2024

### Term 1

Week	Date	Topics	Assessment
1	22-26 January O-Week Australia Day PH Fri	O-Week Activities  <b>UNIT 1</b> <ul style="list-style-type: none"> <li>• Introduction to Engineering</li> <li>• Study habits</li> <li>• Engineering History and Society</li> </ul>	
2	29 Jan-2 Feb	<ul style="list-style-type: none"> <li>• Ethics and Planned Obsolescence</li> </ul>	
3	5-9 February Swimming Carnival - Thurs	<ul style="list-style-type: none"> <li>• Introduction to Engineering Communication</li> <li>• The Engineering Problem Solving Process</li> </ul>	
4	12-16 February	<ul style="list-style-type: none"> <li>• Introduction to Engineering Mechanics</li> </ul>	
5	19-23 February	<ul style="list-style-type: none"> <li>• Linear Motion</li> </ul>	
6	26 Feb-1 Mar GC24 - Wednesday	<ul style="list-style-type: none"> <li>• Introduction to Engineering Materials</li> </ul>	
7	4-8 March	<ul style="list-style-type: none"> <li>• Stress and Strain</li> </ul>	
8	11-15 March	<ul style="list-style-type: none"> <li>• Flowcharts and Logic Gates</li> </ul>	
9	18-22 March GC24 - Thursday	<ul style="list-style-type: none"> <li>• Revision</li> </ul>	
10	25-29 March Good Friday PH	<b>EXAM BLOCK</b>	<b>Exam</b>
<b>School holidays: Friday March 29 - Sunday April 14</b>			

### Term 2

Week	Date	Topics	Assessment
1	15-19 April Cross Country - Wed	<ul style="list-style-type: none"> <li>• Project Work – Success Criteria and Related Theory</li> <li>• Project Work – Project Management</li> </ul>	
2	22-26 April GC24 - Tuesday Anzac Day PH - Thurs	<ul style="list-style-type: none"> <li>• Project Work – Material Investigation</li> </ul>	
3	29 Apr-3 May	<ul style="list-style-type: none"> <li>• Project Work – Material Investigation</li> </ul>	
4	6-10 May Labour Day PH - Mon	<ul style="list-style-type: none"> <li>• Engineering Communication</li> </ul>	
5	13-17 May	<ul style="list-style-type: none"> <li>• Project Work – Ideation</li> </ul>	
6	20-24 May	<ul style="list-style-type: none"> <li>• Project Work – Generate Working Drawings</li> </ul>	
7	27-31 May	<ul style="list-style-type: none"> <li>• Project Work – Generate Prototypes</li> </ul>	
8	3-7 June	<ul style="list-style-type: none"> <li>• Project Work – Generate Prototypes</li> </ul>	
9	10-14 June GC24 - Wednesday	<ul style="list-style-type: none"> <li>• Project Work – Evaluation and Recommendations</li> </ul>	
10	17-21 June Athletics Carnival - Thurs	<ul style="list-style-type: none"> <li>• Project Work – Evaluation and Recommendations</li> </ul>	<b>Folio Lesson 1</b>
<b>School holidays: Saturday June 22 - Sunday July 7</b>			

### Term 3

Week	Date	Topics	Assessment
1	8-12 July	<b>UNIT 2</b> <ul style="list-style-type: none"> <li>Revision of Engineering Mechanics</li> <li>Moments</li> </ul>	
2	15-19 July	<ul style="list-style-type: none"> <li>Couples</li> </ul>	
3	22-26 July GC24 - Thursday	<ul style="list-style-type: none"> <li>Project Work – Success Criteria and Related Theory</li> <li>Project Work – Project Management</li> </ul>	
4	29 Jul- 2 Aug	<ul style="list-style-type: none"> <li>Project Work – Material Investigation</li> </ul>	
5	5-9 August	<ul style="list-style-type: none"> <li>Project Work – Ideation</li> </ul>	
6	12-16 August GC24 Finals – Wed.	<ul style="list-style-type: none"> <li>Project Work – Generate Working Drawings</li> </ul>	
7	19-23 August	<ul style="list-style-type: none"> <li>Project Work – Generate Prototypes</li> </ul>	
8	26-30 August	<ul style="list-style-type: none"> <li>Project Work – Generate Prototypes</li> </ul>	
9	2-6 September	<ul style="list-style-type: none"> <li>Project Work – Evaluation and Recommendations</li> </ul>	<b>Folio Lesson 3</b>
10	9-13 September	<b>EXAM BLOCK</b>	
<b>School holidays: Saturday September 14 – Sunday September 29</b>			

### Term 4

Week	Date	Topics	Assessment
1	30 Sept – 4 Oct	<b>UNIT 3</b> <ul style="list-style-type: none"> <li>Revision of Unit 1 and 2 – Forces and Moments</li> <li>Civil Engineering</li> <li>Introduction to Structures</li> </ul>	
2	7-11 October King's B'day PH - Monday	<ul style="list-style-type: none"> <li>Shear Force and Bending Moment Diagrams</li> </ul>	
3	14-18 October	<ul style="list-style-type: none"> <li>Truss Analysis</li> <li>Method of Joints</li> </ul>	
4	21 - 25 October	<ul style="list-style-type: none"> <li>Method of Joints</li> </ul>	
5	28 Oct – 1 Nov	<ul style="list-style-type: none"> <li>Factor of Safety and Performance Index</li> <li>Material Properties and Stress/Strain</li> </ul>	
6	4-8 November	<ul style="list-style-type: none"> <li>Corrosion</li> <li>Life Cycle Assessments</li> <li>Reinforced Concrete</li> </ul>	
7	11-15 November	<ul style="list-style-type: none"> <li>Revision</li> </ul>	
8	18-22 November	<b>EXAM BLOCK</b>	<b>IA2 - Exam</b>
<b>School holidays: Saturday November 23 – Monday January 27</b>			