Course Title: General Mathematics A

**Course Description**
The purpose of the General Mathematics A course is to introduce you to the mathematical skills required for further study leading to tertiary levels in the fields of engineering, applied science and computing. It is a skill-based course that through development of an understanding of algebra, trigonometry, basic curve sketching and aims to provide you with a firm foundation in analysis, problem solving and use of technology in the form of graphic calculators.

**Objectives/Learning Outcomes/ Capability Development**

1. Simplify, factorise and manipulate linear and quadratic algebraic expressions to aid in solving equations, simultaneous equations and transposing formulae
2. Sketch straight line graphs and quadratics showing axial intercepts and turning points
3. Apply appropriate laws to simplify and solve indicial and logarithmic equations
4. Apply trigonometric formulae for right angled and non-right angled triangles to solve practical problems involving bearings and angles of elevation and depression.
5. Interpret language based problems into
mathematical symbols and then apply all of the above techniques

<table>
<thead>
<tr>
<th>Overview of Learning Activities</th>
<th>The learning activities for this course include contact hours in lecture cum tutorial mode and an equivalent amount of time spent in self-study in completing exercises and assessment tasks.</th>
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</thead>
<tbody>
<tr>
<td>Overview of Learning Resources</td>
<td>You will be supported in your studies with online resources via myRMITStudies. This portal gives you access to important announcements, staff contact details, the teaching schedule, assessment timelines and a variety of important teaching and learning materials. You can access online learning tools and content for your program and associated courses at myRMIT <a href="http://www.rmit.edu.au/myrmit">www.rmit.edu.au/myrmit</a>. You are required to purchase a Graphic Calculator.</td>
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<tr>
<td>Overview of Assessment</td>
<td>Assessment tasks are directly linked to the stated learning outcomes. Your assessments may include topic tests, open book supervised project work and final semester exam.</td>
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