



## The Engineering Undergraduate Curriculum Structure Overview

### Engineering Undergraduate Curriculum Structure (AY2015/2016)

University Level Requirements	Programme Requirements		Unrestricted Elective Modules
<p><b><u>General Education (GE)</u></b></p> <ul style="list-style-type: none"> <li>• 1 Human Cultures (GEH)</li> <li>• 1 Asking Questions (GEQ)</li> <li>• 1 Quantitative Reasoning (GER1000)</li> <li>• 1 Thinking and Expression (GET1021 Critical Thinking and Writing)</li> <li>• 1 Singapore Studies (GES)</li> </ul>	<p><b>Faculty Requirements:</b></p> <p><b>Common Year 1 Modules:</b></p> <ul style="list-style-type: none"> <li>• ES2331 Communicating Engineering = 4 MCs</li> </ul> <p><b>Common Non-Year 1 Modules:</b></p> <ul style="list-style-type: none"> <li>• HR2002 Human Resource Management = 3 MCs</li> <li>• EG2401 Engineering Professionalism = 3MCs</li> </ul>	<p><b>Major Requirements:</b></p> <p><b>Foundational Requirements (23 MCs):</b></p> <ul style="list-style-type: none"> <li>• Physics I, Mathematics I &amp; II</li> <li>• Programming Methodology</li> <li>• Statics &amp; Mechanics of Materials</li> <li>• Electrical Engineering</li> </ul> <p><b>Discipline Specific Modules (87 MCs) (Mechanical Engineering modules):</b></p> <ul style="list-style-type: none"> <li>• Core modules = 42 MCs</li> <li>• Design, Project &amp; Internship modules = 33 MCs</li> <li>• ME elective modules = 12 MCs</li> </ul>	<ul style="list-style-type: none"> <li>• 20 MCs of Unrestricted Elective Modules (UEMs)</li> </ul>
<b>Sub-Total MCs = 20</b>	<b>Sub-Total MCs = 10</b>	<b>Sub-Total MCs = 110</b>	<b>Sub-Total MCs = 20</b>
<b>Minimum MCs required for graduation = 160</b>			