



## The Engineering Undergraduate Curriculum Structure Overview

### Engineering Undergraduate Curriculum Structure (AY2014/2015)

University Level Requirements	Programme Requirements		Unrestricted Elective Modules
<ul style="list-style-type: none"> <li>• 2 General Education Modules (GEMs) = 8 MCs               <ul style="list-style-type: none"> <li>- 1 GEM B</li> <li>- 1 GEK1549 Critical Thinking and Writing</li> </ul> </li> <li>• 1 Singapore Studies (SS) module = 4 MCs</li> <li>• 2 Breadth Modules=8 MCs (outside student's Faculty)</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>

**Minimum MCs required for graduation = 160**