



# The Engineering Undergraduate Curriculum Structure Overview

## Engineering Undergraduate Curriculum Structure (Cohort AY2017/2018)

University Level Requirements	Programme Requirements		Unrestricted Elective Modules
<p><b>General Education (GE)</b></p> <ul style="list-style-type: none"> <li>• 1 Human Cultures (GEH)</li> <li>• 1 Asking Questions (GEQ1000)</li> <li>• 1 Quantitative Reasoning (GER1000)</li> <li>• 1 Thinking and Expression (GET)</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>• ES1531 Critical Thinking &amp; Writing = 4 MCs</li> </ul> <p><b>Common Non-Year 1 Modules:</b></p> <ul style="list-style-type: none"> <li>• EG2401 Engineering Professionalism = 2 MCs</li> </ul>	<p><b>Major Requirements:</b></p> <p><b>Foundational Requirements (28 MCs):</b></p> <ul style="list-style-type: none"> <li>• Mathematics I &amp; II – 8 MCs</li> <li>• Programming Methodology – 4 MCs</li> <li>• Physics – 4 MCs</li> <li>• Engineering Principles/Practice – 12 MCs</li> </ul> <p><b>Internship (10 MCs)</b></p> <p><b>ME Discipline Specific Mods (64MCs):</b> (Mechanical Engineering modules):</p> <ul style="list-style-type: none"> <li>• Core modules = 32 MCs</li> <li>• Design Project = 8 MCs</li> <li>• ME elective modules = 8 MCs</li> <li>• FYP = 8 MCs</li> <li>• Pathway Requirements (8 MCs)</li> </ul>	<ul style="list-style-type: none"> <li>• 32 MCs of Unrestricted Elective Modules (UEMs)</li> </ul>
<p><b>Sub-Total MCs = 20</b></p>	<p><b>Sub-Total MCs = 6</b></p>	<p><b>Sub-Total MCs = 102</b></p>	<p><b>Sub-Total MCs = 32</b></p>
<p><b>Minimum MCs required for graduation = 160</b></p>			