



The Engineering Undergraduate Curriculum Structure Overview

Engineering Undergraduate Curriculum Structure (AY2016/2017)

University Level Requirements	Programme Requirements		Unrestricted Elective Modules
<p><u>General Education (GE)</u></p> <ul style="list-style-type: none"> • 1 Human Cultures (GEH) • 1 Asking Questions (GEQ) • 1 Quantitative Reasoning (GER1000) • 1 Thinking and Expression • 1 Singapore Studies (GES) 	<p>Faculty Requirements:</p> <p>Common Year 1 Modules:</p> <ul style="list-style-type: none"> • ES1531 Critical Thinking & Writing = 4 MCs • ES2331 Communicating Engineering = 4 MCs <p>Common Non-Year 1 Modules:</p> <ul style="list-style-type: none"> • EG2401 Engineering Professionalism = 3 MCs 	<p>Major Requirements:</p> <p>Foundational Requirements (28 MCs):</p> <ul style="list-style-type: none"> • Mathematics I & II – 8 MCs • Programming Methodology – 4 MCs • Physics – 4 MCs • Engineering Principles & Practice – 12 MCs <p>Internship (12 MCs)</p> <p>ME Discipline Specific Mods (61MCs): (Mechanical Engineering modules):</p> <ul style="list-style-type: none"> • Core modules = 32 MCs • Design Project = 6 MCs • ME Technical elective modules = 15 MCs • FYP = 8 MCs <p>Pathway Requirements (8 MCs)</p>	<ul style="list-style-type: none"> • 20 MCs of Unrestricted Elective Modules (UEMs)
Sub-Total MCs = 20	Sub-Total MCs = 11	Sub-Total MCs = 109	Sub-Total MCs = 20

Minimum MCs required for graduation = 160