



Engineering Undergraduate Curriculum Structure (Cohort AY2020/2021)

University Level Requirements	Programme Requirements		Unrestricted Elective Modules
<p>General Education (GE):</p> <ul style="list-style-type: none"> • 1 Human Cultures (GEH) • 1 Asking Questions (GEQ1000) • 1 Quantitative Reasoning (GER1000) • 1 Thinking and Expression (GET) • 1 Singapore Studies (GES) 	<p>Faculty Requirements:</p> <p>Common Year 1 Modules:</p> <ul style="list-style-type: none"> • ES2531 Critical Thinking & Writing = 4 MCs <p>Common Non-Year 1 Modules:</p> <ul style="list-style-type: none"> • EG2401A Engineering Professionalism = 2 MCs 	<p>Major Requirements:</p> <p>Foundational Requirements (36 MCs):</p> <ul style="list-style-type: none"> • Mathematics I & II - 8 MCs • Programming Methodology - 4 MCs • Engineering Principles & Practice I/II - 8 MCs • Design and Make - 4 MCs • Systems Thinking and Dynamics - 4 MCs • Introduction to Machine Learning - 4 MCs • Materials Engineering Principles & Practice - 4 MCs <p>Internship (10 MCs)</p> <p>ME Discipline Specific Mods (56MCs): (Mechanical Engineering modules):</p> <ul style="list-style-type: none"> • Core modules = 28 MCs • Design Project <i>or</i> FYP = 8 MCs • ME elective modules = 12 MCs • Pathway Requirements = 8 MCs 	<ul style="list-style-type: none"> • 32 MCs of Unrestricted Elective Modules (UEMs)
Sub-Total MCs = 20	Sub-Total MCs = 6	Sub-Total MCs = 102	Sub-Total MCs = 32
Minimum MCs required for graduation = 160			