



The Engineering Undergraduate Curriculum Structure Overview

Engineering Undergraduate Curriculum Structure (Cohort AY2018/2019)

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"> • ES1531 Critical Thinking & Writing = 4 MCs <p>Common Non-Year 1 Modules:</p> <ul style="list-style-type: none"> • EG2401 Engineering Professionalism = 2 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 (10 MCs)</p> <p>ME Discipline Specific Mods (64MCs): (Mechanical Engineering modules):</p> <ul style="list-style-type: none"> • Core modules = 32 MCs • Design Project = 8 MCs • ME elective modules = 8 MCs • FYP = 8 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			