Mechanical Engineering

AY2021 cohort

E-Scholars 3-years schedule (ME)			
Semester 0 (APT)			
EG1311 Design and Make			4
MA1505 Mathematics I			4
CS1010E Programming Methodology			4
Sub-total			12
Semester 1		**Semester 2**	
ME2102 Engineering Innovation and Modelling	4	GEA1000 Quantitative Reasoning	4
ME1102 Engineering Principles and Practice I	4	DTK1234 Design Thinking	4
MA1512 Differential Equations for Engineering	2	EE2211 Introduction to Machine Learning	4
MA1513 Linear Algebra with Differential Equations	2	PF1101 Fundamentals of Project Management	4
UTCP #1	4	ME2104 Engineering Principles and Practice II	4
UE	4	ME2162 Manufacturing Processes	4
UE	4	UTCP #2	4
Sub-total	24	**Sub-total**	28
Semester 3		**Semester 4**	
ME2134 Fluid Mechanics I	4	Three options: 1. NOC experience (20 MC) mappable to EG3611A (10 MC) + 10 MCs UE 2. EG3611A (10 MCs) + EG3611B (2 MCs) + 8 MCs UE 3. EG3612 (Vacation Industrial Attachment) + EG2605 (Undergraduate Research Opportunity, UROP) + 10 MC UE Note that option 2 can be done in Semester 3 as well Note that, for option 3, UROP can be done in Semester 3 as well.	20
ME2121 Engineering Thermodynamics and Heat Transfer	4		
ME2142 Feedback Control System	4		
ME2112 Strength of Materials	4		
EG2101 Pathways to engineering Leadership	2		
UTCP #3	4		
UE (or IE2141 if not staying at RC4)	4		
Sub-total	26	**Sub-total**	20
Semester 5		**Semester 6**	
ME4101A B.Eng Dissertation OR ME4101B Mechanical Systems Design	4	ME4101A B.Eng Dissertation OR ME4101B Mechanical Systems Design	4
ME2115 Mechanics of Machines	4	Technical Elective	4
UTCP #4	4	Xxxx Creating Narratives	4
UE	4	EG2501 Liveable Cities	4
UE	4	UE	4
UE	4	UE	4
		UE	2
Sub-total	24	**Sub-total**	26
		Grand total	160

Notes:

1. If APT modules are not cleared, those modules must be cleared during the normal semesters
2. Improtant rules for NOC:

- You MUST be on campus the semester BEFORE going to NOC.
- You MUST have cleared at least 70 MC before applying to NOC