

Module	Title	Duration : 18 Months			
		Semester 1 (6 months)		Semester 2 (6 months)	Semester 3 (6 months)
		1 <sup>st</sup> Quarter (3 months)	2 <sup>nd</sup> Quarter (3 months)		
1	Mission Design & Systems Engineering	Compulsory for all	Define and design mission and system level specification, project planning, budget and resource allocations	First cycle to develop an Engineering Model (EM) of the proposed satellite and/or related ground infrastructure.  Includes Environmental Qualification Testing (EVT)	Second cycle to develop a Proto-Flight Model (PFM) (including changes/deltas from EM)  Includes Environmental Acceptance Testing (EVT)
2	Program Management (Project, Finances, Quality Assurance)				
3	Business Development				
4	Mechanical Design and Thermal Analysis	Maximum of 2 engineers per functional area	Applicable design work including functional ('design-to') and physical ('build-to') item specifications		
5	Power Systems				
6	Digital and Embedded Systems				
7	RF Communications				
8	Software and Data Handling				
9	Advanced Attitude and Orbit Control Systems				
10	Optical and SAR Payloads				
11	Assembly Integration and Verification				
12	Ground Segment (Groundstation and Ground Support Equipment)				
13	Space Applications				
14	Space Law and Policy	Optional for all			