

**English Language Programme**

	Course Unit	Foundation Year		topics
		sem.1	sem.2	
		h	h	
1	Maths Vocabulary	30	20	numbers; four basic operations; fractions; roots, powers and logarithms; equations and inequalities; matrices; matrix solutions of linear systems; functions; calculus; basic concepts of two-dimensional geometry; constructions and plane geometry; three-dimensional geometric figures; trigonometry; vectors
2	Physics Vocabulary	30	10	measurements; describing motion; forces and motion; turning effects of forces; forces and matter; energy transformations and energy transfers; energy resources; work and power; elements of thermal physics; elements of physics of waves; elements of electricity and magnetism
3	Chemistry Vocabulary		10	the nature of matter; elements and compounds; chemical reactions; acids, bases and salts; patterns and properties of metals
4	Material Science and Engineering Vocabulary		10	fundamentals of Materials Science and Engineering; properties of materials; microstructure; materials processing; mechanical behaviour of materials
5	Academic Skills		10	basic academic vocabulary; note-taking; introduction to academic writing
	Total classes in semester	<b>60</b>	<b>60</b>	