

Model Study Path for BEng Total Quality Engineering 2014/2015 Entry (Advanced Standing I) (non-CES mode)

Yr	Sem	Major/College Requirements						University Requirements		CUs
1	A	SEEM2039 Introduction to Total Quality Engineering (3)	MBE2016 Engineering Graphics (3)	MBE2034 Engineering Materials & Processing (3)	MA2172 Applied Statistics for Science and Engineering (3)	MA1200 Calculus and Basic Linear Algebra I / MA1300 Enhanced Calculus and Linear Algebra I (3)	MBE2020 Engineering Workshop Practice (0)			15
	B	SEEM3062 Quality Engineering I (3)	MBE2029 Electrical and Electronic Principles I (3)	MBE2040 Basic Mechanical Engineering Principles (3)	BCH2801 Characterization and Analysis of Chemical Hazards I (3)	CS1102 Introduction to Computer Studies (3) / CS1302# Introduction to Computer Programming (3)	MBE2020 Engineering Workshop Practice (0)			15
	S						MBE2020 Engineering Workshop Practice (0)	English (3)	CCIV (3)	6
2	A	SEEM3053 Quality Improvement Methodologies (3)	MBE3061 Instrumentation and Testing Technologies (3)	MBE3063 Material Analysis for Product Quality (3)	BCH3802 Characterization and Analysis of Chemical Hazards II (3)	Major Elective 1 (3)		English (3)		18
	B	SEEM4025 Quality Systems and Management (3)	SEEM4062 Quality Engineering II (3)	JC4031 Management of Technological Innovation (3)	JC4058 Product Health, Safety, Environmental Standards and Compliance (3)	JC4059 Advanced Monitoring and Inspection Techniques (3)			GE 1 (3)	18
	S								GE 2 (3)	3
3	A	SEEM4064 Reliability Engineering (3)	JC4068* Project (Individual) (3)	Major Elective 2 (3)	Free Elective 1 (3)					12
	B	JC4066 Professional Engineering Practice (3)	JC4068* Project (Individual) (3)	Major Elective 3 (3)	Free Elective 2 (3)					12
() indicates number of credits							Total credits required =		99	

Students may be required to take CS placement test to register for CS1302.

* SEEM4068 Project (Individual) / SEEM4116 Capstone Project II / FS4004 Overseas Research Internship Scheme.

Note 1: MBE2020 should be taken in Year 1 during Semester A, Semester B, or Summer term depending on the allocation and availability of workshop training places.

Note 2: Students can alter the study path and courses can be taken in any order or in any year of study provided pre-requisite and pre-cursor requirements are satisfied.

Note 3: Students can take Major electives from Year 2 depending on their overall study plan, and some elective courses may be available for study in the evenings only.

Model Study Path for BEng Total Quality Engineering 2014/2015 Entry (Advanced Standing I) (Optional CES mode)

Yr	Sem	Major/College Requirements						University Requirements		CU
1	A	SEEM2039 Introduction to Total Quality Engineering (3)	MBE2016 Engineering Graphics (3)	MBE2034 Engineering Materials & Processing (3)	MA2172 Applied Statistics for Science and Engineering (3)	MA1200 Calculus and Basic Linear Algebra I / MA1300 Enhanced Calculus and Linear Algebra I (3)	MBE2020 Engineering Workshop Practice (0)		GE 1 (3)	18
	B	SEEM3062 Quality Engineering I (3)	MBE2029 Electrical and Electronic Principles I (3)	MBE2040 Basic Mechanical Engineering Principles (3)	BCH2801 Characterization and Analysis of Chemical Hazards I (3)	CS1102 Introduction to Computer Studies (3) / CS1302 [#] Introduction to Computer Programming (3)	MBE2020 Engineering Workshop Practice (0)	English (3)		18
	S						MBE2020 Engineering Workshop Practice (0)	English (3)	CCIV (3)	6
2	A	SEEM3053 Quality Improvement Methodologies (3)	MBE3061 Instrumentation and Testing Technologies (3)	MBE3063 Material Analysis for Product Quality (3)	BCH3802 Characterization and Analysis of Chemical Hazards II (3)	Major Elective 1 (3)			GE 2 (3)	18
	B	SEEM4025 Quality Systems and Management (3)	SEEM4062 Quality Engineering II (3)	JC4031 Management of Technological Innovation (3)	JC4058 Product Health, Safety, Environmental Standards and Compliance (3)	JC4059 Advanced Monitoring and Inspection Techniques (3)	Free Elective 1 (3)			18
	S					Major Elective 2 (3)	Free Elective 2 (3)			6
3	A	SEEM4064 Reliability Engineering (3)	JC4068* Project (Individual) (3)	Major Elective 3 (3)	CES FS4001 (4)					13
	B	JC4066 Professional Engineering Practice (3)	JC4068* Project (Individual) (3)		CES FS4001 (4)					10
								Total credits required = 107		

() indicates number of credits

Students may be required to take CS placement test to register for CS1302.

* SEEM4068 Project (Individual) / SEEM4116 Capstone Project II / FS4004 Overseas Research Internship Scheme.

Note 1: MBE2020 should be taken in Year 1 during Semester A, Semester B, or Summer term depending on the allocation and availability of workshop training places.

Note 2: Students can alter the study path and courses can be taken in any order or in any year of study provided pre-requisite and pre-cursor requirements are satisfied.

Note 3: Students can take Major electives from Year 2 depending on their overall study plan, and some elective courses may be available for study in the evenings only.