

Programme Document

The following tables give an overview and a summary of the overall curriculum structure for the Degree Programme:

Year-Sem	No.	Module Code	Module Title	QF Level	Credit Points	
Y1-S1	1	GEC4201	English for Academic Studies 1	4	3	18
	2	GEC4301	The Human Spirit	4	3	
	3	SBS4111	Calculus	4	3	
	4	SBS4112	Engineering Physics	4	3	
	5	SBS4113	Architecture & Buildings	4	3	
	6	SBS4125	Engineering Drawing & Construction CAD [‡]	4	3	
Y1-S2	1	GEC4101	Chinese 1	4	3	15
	2	SBS4114	Built Environment	4	3	
	3	SBS4121	Fluid Mechanics	4	3	
	4	SBS4123	Electrical Services Fundamental	4	3	
	5	SBS4124	Engineering Thermodynamics	4	3	
Y1-SS [@]	1	SBS4109	Safety, Health & Industrial Training	4	(3) [#]	(3) [#]
Year-1 Sub-total					33	
Y2-S3	1	GEC4303	Social Dynamics of Organisations	4	3	18
	2	---	Select one GE Elective	5	3	
	3	SBS4211	Heat & Mass Transfer	4	3	
	4	SBS5211	Advanced Engineering Mathematics	5	3	
	5	SBS5212	Advanced Electrical Technology	5	3	
	6	SBS5225	HVACR I	5	3	
Y2-S4	1	GEC4302	Habits of Scientific Thinking	4	3	18
	2	---	Select one GE Elective	5	3	
	3	SBS5221	Piped Services	5	3	
	4	SBS5222	Indoor Environmental Engineering	5	3	
	5	SBS5223	Power Distribution & Machines	5	3	
	6	SBS5224	Engineering Management	5	3	
Year-2 Sub-total					36	

Notes:

The actual delivery of the modules is subject to the arrangement of the respective Faculty/School.

[‡] The module SBS4125 Engineering Drawing & Construction CAD replaces the previous two modules SBS4122 Engineering Drawing (2 credit points) and SBS4212 Construction CAD by AutoCAD (1 credit point).

Year-Sem	No.	Module Code	Module Title	QF Level	Credit Points
Y3-S5	1	GEC5102	Chinese 2	5	3
	2	GEC5202	English for Academic Studies 2	5	3
	3	SBS5311	HVACRII	5	3
	4	SBS5312	Lighting Technology	5	3
	5	SBS5313	Fire Services	5	3
	6	SBS5322	Basics of Building Information Modelling	5	3
Y3-S6	1	GEC5206	English for Professional Purposes	5	3
	2	---	Select one GE Elective	5	3
	3	SBS5314	Commissioning of Facilities	5	3
	4	SBS5321	Numerical Method for Analysis	5	3
	5	SBS5411	Building Information Modelling for BSE	5	3
Y3-SS@	1	SBS4309	Industrial Attachment	4	(3) [#]
Year-3 Sub-total					33
Y4-S7	1	---	Select one GE Elective	5	3
	2	---	Select one Programme Elective	5	3
	3	SBS5412	Design for Operation & Maintenance	5	3
	4	SBS5413	Building Sustainability & Green Building Assessment	5	3
	5	SBS5397	Final Year Project 1 (BSE Conceptual Design)	5	3
Y4-S8	1	---	Select one Programme Elective	5	3
	2	---	Select one Programme Elective	5	3
	3	SBS5421	Building Energy Efficiency cum Carbon Emission	5	3
	4	SBS5498	Final Year Project 2 (Applied Research Project)	5	3
	5	SBS5499	Final Year Project 3 (MEP Design)	5	3
Year-4 Sub-total					30
Total Credit Points for Degree Programme					132

Notes: (Cont'd)

The module SBS4109 Safety, Health & Industrial Training and the module SBS4309 Industrial Attachment are Work-integrated Learning modules which must be completed before graduation. Normally, the module SBS4109 takes place during the summer semester of Year 1 and the module SBS4309 during the summer semester(s) of Year 3 and/or Year 2. These two 3-CP modules will be assessed on a Pass/Fail basis and will not be counted as part of the required minimum number of CPs for graduation or included in the calculation of the Grade Point Average (GPA)

@ Summer Semester