Degree planner — BE(Hons) in Materials and Process Engineering

If no point value is listed, papers are worth 15 points.

Year 1	ENGEN170 Engineering and Society	ENGEN180 Foundation of Engineering	ENGEN183 Linear Algebra and Stats	ENGEN184 Calculus for Engineers	ENGEN103 Engineering Computing	ENGEN112 Materials Science and Engineering	CHEMY102 Chemical Reactivity	**ENGEN110 Engineering Mechanics**
Year 2	ENGEN270 Engineering Professional Practice 1	ENGCB280 Process Engineering Design 1	ENGEN201 Engineering Maths 2	**ENGMP211 Materials 1**	**ENGMP213 Mechanics of Materials 1**	**ENGME221 Engineering Thermodynamics**	**ENGCB224 Heat and Mass Transfer**	**ENGCB223 Fluid Mechanics**
Year 3	ENGEV342 Sustainable Engineering	ENGCB380 Process Engineering Design 1	ENGEN301 Engineering Maths 3	**ENGMP311 Materials 2**	**ENGMP313 Mechanics of Materials 2**	**ENGCB321 Thermal Engineering**	**ENGCB324 Mass Transfer Operations**	**Programme Elective**
Year 4	ENGEN570 Engineering Professional Practice 2	ENGEN591 Research Project*	ENGEN591 Research Project*	ENGCB580 Process Engineering Design Project**	ENGCB580 Process Engineering Design Project**	**ENGMP511 Advanced Materials Engineering**	**Programme Elective**	**Programme Elective**

Compulsory Stream Elective Placement

Note: *Second Year includes ENGEN271: Work Placement 1, and Third Year includes ENGEN371: Work Placement 2, which are compulsory but are 0-point papers. Placements are usually taken over the Summer period from November to February.*

*ENGEN591 Research Project is worth 30 points.
**ENGCB580 Process Engineering Design Project is worth 30 points.

Year 3 Electives

Choose 15 points from the following:

ENGEV341 Environmental Engineering 2
ENGME282 Design and Manufacturing 1
ENGCB323 Reaction Engineering
ENGCB322 Chemical and Biological Operations
ENGEN390 Special Topics in Engineering
CHEMY2XX 200 Level Chemistry Or CHEMY3XX 300 Level Chemistry

Year 4 Electives

Choose 30 points with 15 points at 500 Level from the following:

ENGCB521 Advanced Access Control
ENGCB523 Advanced Energy Engineering
ENGEV541 Advanced Water and Waste Engineering
ENGEV542 Waste Minimisation Engineering
ENGME513 Materials Performance in Service
ENGME580 Product Innovation and Development
ENGEN590 Special Topics in Engineering
ENGXX3XX 300 Level Engineering Or ENGXX5XX 500 Level Engineering