

Degree planner – BE(Hons) in Mechanical Engineering

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

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|--------|---|---|---|---|--|---|------------------------------------|---|
| 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 | ENGEN110 Engineering Mechanics | ENGEN111 Electricity and Electronics |
| Year 2 | ENGEN270 Engineering Professional Practice 1 | ENGME280 Design and Manufacturing 1 | ENGEN201 Engineering Maths 2 | ENGMP211 Materials 1 | ENGME221 Engineering Thermodynamics | ENGMP213 Mechanics of Materials 1 | ENGME251 Dynamics and Vibration | One of COMPX203 or ENGCB224 |
| Year 3 | ENGEV342 Sustainable Engineering | ENGME380 Design and Manufacturing 2 | ENGEN301 Engineering Maths 3 | ENGME353 Electricity and Mechanical Machines | ENGME352 Machine Control and Apps | ENGMP313 Mechanics of Materials 2 | Two from List A or List B | Programme Elective |
| Year 4 | ENGEN570 Engineering Professional Practice 2 | ENGEN592 Research and Development Project* | ENGEN592 Research and Development Project* | ENGME580 Product Development** | ENGME580 Product Development** | Programme Elective | 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.

**ENGEN592 Research and Development Project* is worth 30 points.

***ENGME580 Product Development* is worth 30 points.

Year 2 Electives

Choose 15 points from:

[COMPX203 Computer Systems](#)
[ENGCB224 Heat and Mass Transfer](#)

Year 3 Electives

Choose 30 points from List A or List B:

List A

[ENGCB223 Fluid Mechanics](#)
[ENGCB321 Thermal Engineering](#)
[ENGMP311 Materials 2](#)

List B

[ENGME357 Mechatronics](#)
[ENGME323 Thermofluids](#)

Year 4 Electives

Choose 45 points with at least 30 points at 500 Level from the following:

[ENGME557 Robotics](#)
[ENGCB523 Advanced Energy Engineering](#)
[ENGMP511 Advanced Materials Engineering](#)
[ENGME540 Finite Element Analysis](#)
[ENGCB521 Advanced Process Control](#)
[ENGMP512 Materials Performance in Service](#)
[ENGEN590 Special Topics in Engineering](#)
[ENGXX3XX 300 Level Engineering Or](#) [ENGXX5XX 500 Level Engineering](#)