

**AY2025-26 CURRICULUM FOR BACHELOR OF ENGINEERING (ENVIRONMENTAL ENGINEERING)
(FIRST YEAR ADMISSION)**

Last Updated : 24-Feb-25

| SUMMARY OF ACADEMIC UNIT REQUIREMENT | | | | | | |
|--------------------------------------|-----------|----------|-----------|-----------|-----------|------------|
| Year of Study | Core | MPE | CC | FC | BDE | Total AU |
| 1 | 26 | 0 | 9 | 0 | 0 | 35 |
| 2 | 23 | 0 | 8 | 3 | 3 | 37 |
| 3 | 12 | 0 | 0 | 12 | 6 | 30 |
| 4 | 19 | 3 | 0 | 0 | 12 | 34 |
| Total | 80 | 3 | 17 | 15 | 21 | 136 |

* Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

| YEAR 1 SEMESTER 1 | | | | |
|-------------------|--|------|-----------|---------------|
| Course Code | Course Title | Type | AU | Pre-Requisite |
| MH1810 | Mathematics 1 | C | 3 | |
| PH1011 | Physics* | C | 3 | |
| FE1073 | An Introduction to Engineering & Practices | C | 1 | |
| CV1011 | Mechanics of Materials | C | 4 | |
| CV1012 | Fluid Mechanics | C | 3 | |
| CC0001 | Inquiry and Communication in the Interdisciplinary World | CC | 2 | |
| CC0002 | Navigating the Digital World | CC | 2 | |
| | | | 18 | |

| YEAR 1 SEMESTER 2 | | | | |
|-------------------|---|------|-----------|---------------|
| Course Code | Course Title | Type | AU | Pre-Requisite |
| MH1811 | Mathematics 2 | C | 3 | MH1810 |
| CV1014 | Introduction To Computational Thinking | C | 3 | |
| CV1711 | Engineering Drawing and 3D Building Information Modelling | C | 1 | |
| CV2020 | Water Resources Engineering | C | 3 | CV1012 |
| EG1001 | Engineers In Society | C | 2 | |
| CC0003 | Ethics & Civics in a Multi-Cultural World | CC | 2 | |
| CC0005 | Healthy Living & Wellbeing | CC | 3 | |
| | | | 17 | |

| YEAR 2 SEMESTER 1 | | | | |
|-------------------|---|------|-----------|---------------|
| Course Code | Course Title | Type | AU | Pre-Requisite |
| EN1001 | Environmental Chemistry | C | 3 | |
| EN2004 | Geo-Environment and Soil Mechanics | C | 3 | |
| EN2711 | Environmental Engineering Laboratory A | C | 1 | |
| MH2814 | Probability & Statistics | C | 3 | MH1810 |
| CV0003 | Introduction to Data Science and Artificial Intelligence | FC | 3 | CV1014 |
| CC0006 | Sustainability: Society, Economy & Environment | CC | 3 | |
| ML0004 | Career and Entrepreneurial Development for the Future World | CC | 2 | |
| | | | 18 | |

| YEAR 2 SEMESTER 2 | | | | |
|-------------------|---|------|----|---------------|
| Course Code | Course Title | Type | AU | Pre-Requisite |
| EN2002 | Microbiological Principles of Environmental Engineering | C | 3 | |
| EN2003 | Water Supply Engineering | C | 3 | CV1012 |
| EN2005 | Environmental Health and Safety Management | C | 3 | |
| EN2712 | Environmental Engineering Laboratory B | C | 1 | |
| EN3003 | Environmental Transport Processes | C | 3 | |

| | | | | |
|--------|------------------------------------|-----|-----------|--|
| CC0007 | Science & Technology for Humanity | CC | 3 | |
| | Broadening & Deepening Electives 1 | BDE | 3 | |
| | | | 19 | |

| YEAR 3 SEMESTER 1 | | | | |
|-------------------|------------------------------------|------|-----------|-----------------|
| Course Code | Course Title | Type | AU | Pre-Requisite |
| EN3001 | Solid & Hazardous Waste Management | C | 3 | Year 3 Standing |
| EN3002 | Wastewater Engineering | C | 3 | Year 3 Standing |
| EN3004 | Air Pollution Control Engineering | C | 3 | Year 3 Standing |
| EN3006 | Energy Resource Engineering | C | 3 | |
| HW0288 | Engineering Communication | FC | 2 | CC0001 |
| | Broadening & Deepening Electives 2 | BDE | 3 | |
| | Broadening & Deepening Electives 3 | BDE | 3 | |
| | | | 20 | |

| YEAR 3 SEMESTER 2 | | | | |
|-------------------|-------------------------|------|-----------|---|
| Course Code | Course Title | Type | AU | Pre-Requisite |
| EN3920 | Professional Internship | FC | 10 | Year 3 standing & completed at least 4 semesters of study |
| | | | 10 | |

| YEAR 4 SEMESTER 1 | | | | |
|-------------------|--|------|-----------|-------------------|
| Course Code | Course Title | Type | AU | Pre-Requisite |
| CV4012 | Project Planning & Management | C | 2 | Year 4 Standing |
| EN4001 | Environmental Impact Analysis & Monitoring | C | 3 | |
| EN4711 | Seminars on Built Environment | C | 1 | |
| EN4911 | Final Year Project | C | 4 | Year 4 Standing |
| EN4XXX | Major Prescribed Elective | MPE | 3 | Refer to Syllabus |
| | Broadening & Deepening Electives 4 | BDE | 3 | |
| | Broadening & Deepening Electives 5 | BDE | 3 | |
| | | | 19 | |

| YEAR 4 SEMESTER 2 | | | | |
|-------------------|------------------------------------|------|-----------|-----------------|
| Course Code | Course Title | Type | AU | Pre-Requisite |
| EN4003 | Environmental Systems Analysis | C | 2 | |
| EN4911 | Final Year Project | C | 4 | Year 4 Standing |
| EN4912 | Integrated Design Project | C | 3 | Year 4 Standing |
| | Broadening & Deepening Electives 6 | BDE | 3 | |
| | Broadening & Deepening Electives 7 | BDE | 3 | |
| | | | 15 | |

Total AU for Graduation : **136**