



Graduate Certificate in Engineering Science

Cognate discipline list:

| Specialisation | Cognate Discipline |
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| Biomedical Engineering | Any Engineering |
| Chemical Engineering | Any Engineering |
| Civil Engineering | Building Environment and Energy Engineering, Civil, Civil Engineering, Civil with Architecture, Geotechnical, Industrial, Industrial Eng, Manufacturing, Materials, Materials Eng, Mechanical, Mechatronic, Mining, Naval, Petroleum, Structural, Structure Engineering, Traffic, Traffic Engineering, Water Conservancy & Hydropower Eng. |
| Electrical Engineering | Automation and Control, Biomedical Engineering, Computer Engineering, Mechanical Engineering, Mechatronics, Renewable Engineering, Systems and Control. |
| Energy Systems | Automation and Control, Biomedical Engineering, Mechatronics, Renewable Engineering, Systems and Control. |
| Environmental Engineering | Any Engineering |
| Food Process Engineering | Any Engineering |
| Geotechnical Engineering and Engineering Geology | Any Engineering |
| Mechanical and Advanced Manufacturing Engineering | Any Engineering |
| Nuclear Engineering | Any Engineering |
| Photovoltaics and Solar Energy | Any Engineering, Any Science |
| Project Management | Any Engineering, Any Science |
| Renewable Energy | Any Engineering, Any Science |
| Robotics | Any Engineering |
| Space Systems Engineering | Any Engineering |
| Structural Engineering | Any Engineering |
| Sustainable Systems | Any Engineering |
| Systems and Control | Automation and Control, Biomedical Engineering, Computer Engineering, Mechatronics, Renewable Engineering, Systems and Control. |

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| Telecommunications | Automation and Control, Biomedical Engineering, Computer Engineering, Mechatronics, Systems and Control. |
| Transport Engineering | Any Engineering |
| Water Engineering- Catchments to Coasts | Any Engineering |
| Water, Wastewater and Water Engineering | Any Engineering |

Recognition of Prior Learning

| Specialisation | Recognition of Prior Learning? |
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| Biomedical Engineering | Yes – for students with a Biomedical Engineering qualification |
| Chemical Process Engineering | Yes – for students with a qualification in Biochemical Engineering, Biopharmaceutical Engineering, Bioprocess Engineering, Chemical and Biomolecular Engineering, Chemical and Materials Engineering, Chemical Engineering, Chemical Engineering and Nanotechnology, Chemical Engineering and Technology, Chemical Process Engineering, Food Engineering, Food Process Engineering, Food Science and Engineering, Mineral Process Engineering, Mineral Processing and Extractive Metallurgy, Petrochemical Engineering, Pharmaceutical and Chemical Engineering, Pharmaceutical Engineering, Polymer Engineering, Polymer Materials Engineering, Process Engineering, Pulp and Paper Engineering |
| Civil Engineering | Yes – for students with a qualification in Civil Engineering, Civil Engineering with Architecture, Geotechnical Engineering |
| Electrical Engineering | No |
| Energy Systems | No |
| Environmental Engineering | Yes – for students with a qualification in Chemical Engineering, Civil Engineering, Civil with Architecture, Environmental Engineering, Geoinformation Systems, Industrial Chemistry, Industrial Engineering, Petroleum, Port Channel and Coastal Engineering, Spatial Information, Surveying, Water Supply and Drainage Science and Engineering. |
| Food Process Engineering | Yes – for students with a qualification in Biochemical Engineering, Bioengineering, Biomolecular Engineering, Bioprocessing, Biotechnology, Chemical Engineering, Food Engineering, Food Process Engineering, Food Processing, Food Science and Engineering, Food Science and Technology, Food technology. |
| Geotechnical Engineering and Engineering Geology | Yes – for students with a qualification in Civil Engineering, Civil with Architecture, Engineering Geology, Environmental Engineering, Geological Engineering, Geotechnical, Mining Engineering, Petroleum Engineering. |

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| Mechanical and Advanced Manufacturing Engineering | Yes, for students with a qualification in Aerospace Engineering, Manufacturing Engineering, Mechanical Design, Manufacturing and Automation, Mechanical Engineering, Mechatronic Engineering |
| Nuclear Engineering | Yes – for students with a qualification in Aeronautical Engineering, Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Energy Engineering, Industrial Chemistry, Manufacturing Engineering, Material Engineering, Mechanical Engineering, Mechatronic Engineering, Mining Engineering, Naval Engineering, Nuclear Engineering, Nuclear Science/Technology, Photovoltaic Engineering, Renewable Energy, Telecommunications Engineering. |
| Photovoltaics and Solar Energy | Yes, for students with a qualification in Any Engineering, Computer Engineering, Computer Systems Engineering, Electrical and Telecommunication Engineering, Electrical Engineering, Electronics Engineering, Photovoltaic and Solar Energy Engineering, Power Electronics, Power Engineering, Renewable Energy, Solar Engineering, Telecommunication Engineering. |
| Project Management | Yes, for students with a qualification in Any Engineering discipline. |
| Renewable Energy | Yes, for students with a qualification in Any Engineering, Computer Engineering, Computer Systems Engineering, Electrical and Telecommunication Engineering, Electrical Engineering, Electronics Engineering, Photovoltaic and Solar Energy Engineering, Power Electronics, Power Engineering, Renewable Energy, Solar Engineering, Telecommunication Engineering. |
| Robotics | Yes – for students with a qualification in Control Systems Engineering, Mechanical Design, Manufacturing and Automation, Mechatronic Engineering, Robotic and Automation, Software Engineering. |
| Space Systems Engineering | Yes – for students with a qualification in Communications Engineering, Mechatronic Engineering, Power Systems Engineering, Telecommunications. |
| Structural Engineering | Yes – for students with a qualification in Aerospace Engineering, Civil Engineering, Civil with Architecture, Industrial Engineering, Manufacturing, Mechanical Engineering, Mechatronic Engineering, Mining Engineering, Naval Engineering, Structural Engineering |
| Sustainable Systems | No |
| Systems and Control | No |
| Telecommunications | No |
| Transport Engineering | Yes, for students with a qualification in Civil Engineering. |

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| Water Engineering- Catchments to Coasts | Yes – for students with a qualification in Chemical Engineering, Civil Engineering, Civil with Architecture, Environmental Engineering, Geoinformation Systems, Industrial Chemistry, Industrial Engineering, Petroleum, Port Channel and Coastal Engineering, Spatial Information, Surveying, Water Supply and Drainage Science and Engineering. |
| Water, Wastewater and Water Engineering | Yes – for students with a qualification in Chemical Engineering, Civil Engineering, Civil with Architecture, Environmental Engineering, Geoinformation Systems, Industrial Chemistry, Industrial Engineering, Petroleum, Port Channel and Coastal Engineering, Spatial Information, Surveying, Water Supply and Drainage Science and Engineering. |