School of Engineering

Study Abroad Module List 2020-21 (Updated November 2020)

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| **Module Code** | **Module Title** | **Credits** | **Level** | **Semester** | **Lead Academic** |
| **IDP** |
| 04 29652 | Integrated Design Project 2 | 20 | LI | 2 | N Cooke |
| 04 29646 | Integrated Design Project 3 (BEng) | 20 | LH | 2 | M Theofanous |
| 04 29658 | Integrated Design Project 3 (MEng) | 20 | LH | 2 | M Theofanous |
| **Year One** |
| 04 27887 | Engineering Mathematics 1 | 20 | LC | 1 | E Tarte |
| 04 28607 | Introduction to Computing for Engineers | 10 | LC | 1 | S Pammu |
| 04 28608 | Mechanics 1 | 20 | LC | 1 | D Espino |
| 04 33283 | Integrated Design Project 1A | 10 | LC | 1 | D Shepherd |
| 04 28604 | Electrical Engineering 1 | 20 | LC | 2 | T Jackson |
| 04 28605 | Engineering Materials | 10 | LC | 2 | S Kaewunruen |
| 04 28606 | Fluid Mechanics and Energy Transfer | 20 | LC | 2 | M Jesson |
| 04 33283 | Integrated Design Project 1B | 10 | LC | 2 | D Shepherd |
| **EESE** |
| 04 26430 | HVDC & FACTS | 20 | LM | 2 | X Zhang |
| 04 26641 | Power System Economics | 20 | LM | 2 | X Zhang |
| 04 27528 | Renewable Energy Systems Integration | 20 | LM | 2 | D Jayaweera |
| 04 29250 | Capability Systems Engineering | 10 | LH | 2 | C Roberts |
| 04 30054 | Advanced Digital Design | 20 | LM | 2 | P Atkins |
| 04 30055 | Sensing and Control for Autonomous Systems | 20 | LM | 2 | R Dixon |
| 04 30060 | Radar and Satellite Navigation | 20 | LM | 2 | M Antoniou |
| 04 30061 | RF and Microwave Engineering | 20 | LM | 2 | A Feresidis |
| 04 30065 | The Internet of Things | 20 | LH | 2 | J Easton |
| 04 32802 | Telerobotics, Telepresence and Augmented Reality | 20 | LH | 2 | S Tang |
| 04 33295 | Comms for Year 3 Aero B | 10 | LH | 2 | As year 2 19505 + extra lab for space |
| 04 34558 | Electrical Energy Systems and Control B | 10 | LI | 2 | R Dixon |
| 04 34566 | Microprocessor and Control Systems | 20 | LI | 2 | P Atkins |
| 04 02279 | Individual Project (BEng) | 40 | LH | Full Year | S Quigley |
| 04 28930 | Electrical Power Systems with Advanced Research Project | 120 | LM | Full Year | E Tarte |
| 04 31729 | Individual Engineering Project (MEng) | 40 | LM | Full Year | S Hillmansen |
| 04 34666 | Advanced Project | 60 | LM | Summer | E Tarte |
| **Mechanical** |
| 04 22961 | CFD and FEA | 10 | LH | 1 | L Soo |
| 04 22964 | Mechanical Design B | 20 | LH | 1 | K Dearn |
| 04 23777 | Mechanics 2 | 20 | LI | 1 | A Mahomed |
| 04 23805 | Control Engineering | 10 | LH | 1 | K Jiang |
| 04 23806 | Sustainable Energy and the Environment | 10 | LH | 1 | R Al-Dadah |
| 04 23808 | Mechanical Design A | 20 | LI | 1 | K Dearn |
| 04 24360 | Turbomachinery and Compressible Flows | 10 | LH | 1 | H Xu |
| 04 29650 | Engineering Mathematics 2 | 20 | LI | 1 | C Anthony |
| 04 33330 | Advanced Manufacturing | 20 | LM | 1 | K Essa |
| 04 33350 | Bio-medical and Micro Engineering | 20 | LM | 1 | D Shepherd |
| 04 33362 | Advanced Vehicle Engineering | 20 | LM | 1 | P Alevras |
| 04 33370 | Industrial Automation and Robotics | 20 | LM | 1 | M Saadat |
| 04 33394 | Research and Professional Skills | 20 | LM | 1 | K Essa |
| 04 23778 | Synoptic Mechanical Engineering | 20 | LM | 2 | S Dimov |
| 04 23779 | Engineering Mathematics 3 | 20 | LH | 2 | School of Maths |
| 04 23808 | Powertrain and Vehicle Engineering | 20 | LH | 2 | H Xu |
| 04 23809 | Thermodynamics and Fluids | 20 | LI | 2 | A Tsolakis |
| 04 30082 | Management Information Systems and Simulation | 20 | LM | 2 | M Castellani |
| 04 30083 | Systems Engineering and Systerms Thinking | 20 | LM | 2 | C Roberts |
| 04 31737 | Mechatronics and Control Engineering | 20 | LI | 2 | K Jiang |
| 04 33335 | Advanced Mechanics and Thermal Systems | 20 | LM | 2 | C Anthony |
| 04 33342 | Research and Applications of Machining Processes  | 20 | LM | 2 | L Soo |
| 04 33354 | Intelligent Automation | 20 | LM | 2 | M Castellani |
| 04 33366 | Advanced Fluids and Powertrain Systems | 20 | LM | 2 | M Herreros |
| 04 22983 | Individual Engineering Project (BEng) | 30 | LH | Full Year | J Stafford |
| 04 31729 | Individual Engineering Project (MEng) | 40 | LM | Full Year | J Stafford |
| 04 34666 | Advanced Project (Engineering) | 60 | LM | Full Year | M Saadat |
| **Civil** |
| 04 17840 | Financial Decision-Making in the Business Environment | 10 | LM | 1 | K Hawwash |
| 04 19733 | Soil Mechanics | 20 | LM | 1 | A Faramarzi |
| 04 23633 | Industrial Project 1 (Civil Eng) | 20 | LH | 1 | A Quinn |
| 04 25081 | Sustainable Transport Policy | 20 | LM | 1 | G Ghataora |
| 04 25427 | Advanced Structures and Design | 20 | LM | 1 | C Baniotopoulos |
| 04 26530 | Rural Roads | 10 | LM | 1 | M Burrow |
| 04 26924 | Forensic Engineering | 20 | LM | 1 | K Skalomenos |
| 04 26927 | Synoptic Engineering | 10 | LM | 1 | H Evdorides |
| 04 27094 | Ground Investigation | 20 | LM | 1 | D Chapman |
| 04 28090 | Road Design and Planning | 20 | LM | 1 | M Burrow |
| 04 28468 | Structural Engineering 2 | 20 | LH | 1 | M Theofanous |
| 04 28853 | Earthworks Engineering | 20 | LM | 1 | A Royal |
| 04 29645 | Geotechnical Engineering 2 | 20 | LH | 1 | A Royal |
| 04 29648 | Water Engineering 2 | 10 | LH | 1 | M Jesson |
| 04 29651 | Geotechnical Engineering 1 | 20 | LI | 1 | D Chapman |
| 04 29654 | Structural Engineering 1 | 20 | LI | 1 | P Martinez-Vazquez |
| 04 29657 | Geotechnical Engineering 3 | 20 | LM | 1 | I Jefferson |
| 04 29659 | Materials Engineering 3 | 20 | LM | 1 | S Kaewunruen |
| 04 30588 | Experimental and Numerical Techniques in Structural Engineering | 20 | LM | 1 | S Dirar |
| 04 30590 | Geotechnical Asset Management | 20 | LM | 1 | D Hunt |
| 04 33098 | Civil Engineering Group Management Project A | 10 | LM | 1 | P Martinez-Vazquez |
| 04 34311 | Wind Engineering and Bluff Body Aerodynamics | 20 | LM | 1 | D Soper |
| 04 35386 | Pavement Engineering  | 10 | LM | 1 | G Ghataora |
| 04 16196 | Construction Management | 20 | LM | 2 | K Hawwash |
| 04 17835 | Road Asset Management | 20 | LM | 2 | H Evdorides |
| 04 20474 | Engineering Production and Risk Management in Construction | 20 | LM | 2 | K Hawwash |
| 04 25080 | Road Safety | 20 | LM | 2 | H Evdorides |
| 04 25970 | Road Economics and Financing | 20 | LM | 2 | H Evdorides |
| 04 26246 | Foundation Engineering | 20 | LM | 2 | A Faramarzi |
| 04 26247 | Slopes and Retaining Structures | 20 | LM | 2 | A Royal |
| 04 26640 | Seismic Engineering | 20 | LM | 2 | P Martinez-Vazquez |
| 04 26925 | Structural Engineering Practice | 20 | LM | 2 | C Baniotopoulos |
| 04 28465 | Structural Engineering 3 | 20 | LM | 2 | S Dirar |
| 04 29647 | Materials Engineering 2 | 20 | LH | 2 | P Martinez-Vazquez |
| 04 29649 | Construction Practice and Management | 10 | LI | 2 | K Hawwash |
| 04 29653 | Materials Engineering 1 | 20 | LI | 2 | D Hunt |
| 04 32678 | Underground Construction  | 20 | LM | 2 | N Metje |
| 04 33099 | Civil Engineering Group Management Project B | 10 | LM | 2 | P Martinez-Vazquez |
| 04 34279 | Open Channel Flow Hydraulics | 10 | LI | 2 | B Fraga |
| 04 34300 | Surface and Groundwater Hydrology | 10 | LH | 2 | S Sharifi |
| 04 27091 | BEng Research Project | 20 | LH | Full Year | A Quinn |
| 04 31729 | Individual Engineering Project (MEng) | 40 | LM | Full Year | A Quinn |
| 04 32655 | Industrial Research Project and End Point Assessment | 60 | LM | Full Year |  |
| 04 34666 | Advanced Project | 60 | LM | Full Year | B Fraga |
| **Railways** |
| 04 26931 | Railway Infrastructure Engineering | 20 | LI | 1 | S Kaewunruen |
| 04 26933 | Railway Traction | 20 | LI | 2 | S Hillmansen |
| 04 31380 | Railway Management and Control | 20 | LH | 1 | A Jack |
| 04 31378 | Railway Design Project (BEng) | 20 | LH | 2 | L Chen |
| 04 31379 | Railway Design Project (MEng) | 20 | LH | 2 | L Chen |
| 04 34507 | Advanced Topics in Railway Engineering | 20 | LM | 1 | H Foss |
| 04 34508 | Railway Synoptic Project | 20 | LM | 2 | S Kent |
| 04 34513 | Railway Operations, Management and Planning | 20 | LM | 1 | H Foss |
| 04 34514 | Infrastructure and Rolling Stock Systems | 20 | LM | 1 | C Watson |
| 04 34517 | Railway Control and Digital Systems | 20 | LM | 1 | H Kim |
| 04 34515 | Electrification and Traction Systems | 20 | LM | 2 | S Hillmansen |
| 04 34516 | Systems Engineering and Ergonomics | 20 | LM | 2 | C Roberts |
| 04 34518 | Business and People Management | 20 | LM | 2 | S Kent |
| 04 21500 | Railway Systems Synthesis C | 20 | LM | 2 | H Foss |
| 04 34740 | Railway Strategy, Safety and Control Systems | 20 | LM | 1 | A Jack |
| 04 26310 | Rolling Stock and Infrastructure Systems | 10 | LM | 2 | Z Green |
| 04 31216 | Principles of Railway Control Systems | 20 | LM | 1 | H Kim |
| 04 31215 | Applications of Railway Control Systems | 20 | LM | 2 | H Kim |
| 04 34594 | Railway Technology: Command, Control and Communications | 20 | LM | 1 | H Kim |
| 04 34597 | Railway Technology: Infrastructure and Permanent Way | 20 | LM | 1 | C Watson |
| 04 34602 | Railway Technology: Rolling Stock Systems | 20 | LM | 1 | *External* |
| 04 34692 | Railway Technology: Traction and Power Systems | 20 | LM | 1 | P Tricoli |
| 04 34605 | Systems Engineering and Railway Management | 20 | LM | 2 | C Roberts |
| 04 34591 | Railway Landscapes | 20 | LM | Full Year | Z Green |