

## List of Courses Taught in English Offered at Aalto University School of Engineering (ENG) in 2022/2023 and 2023/2024 Academic Years

This list is subject to change. Please check the SisU course portal for up-to-date information and course descriptions. The course codes in the left side column are links which take you to SisU. Bachelor students who are in the final stages of their studies can choose master level courses if they have the required background knowledge.

Autumn term: September - December (teaching periods I, II)

Spring term: January - May (teaching periods III, IV and V)

Teaching periods include examinations.

### Bachelor Level Courses

| Course Code               | Course Name                                                | Credits | Autumn/Spring | Teaching Period |
|---------------------------|------------------------------------------------------------|---------|---------------|-----------------|
| <a href="#">AAN-C2006</a> | Product analysis                                           | 5       | Autumn        | I-II            |
| <a href="#">AAN-C2007</a> | Product Sustainability                                     | 5       | Autumn        | I-II            |
| <a href="#">AAN-C2009</a> | Designing an Electronic Device for Business and Production | 5       | Spring        | III-IV          |
| <a href="#">AAN-C2012</a> | ADD Basics - Additive manufacturing: from idea to business | 5       | Spring        | IV-V            |
| <a href="#">COE-C1002</a> | Statics                                                    | 5       | Autumn        | II              |
| <a href="#">COE-C1003</a> | Dynamics                                                   | 5       | Spring        | IV              |
| <a href="#">COE-C2001</a> | Foundations of Solid Mechanics                             | 5       | Autumn        | II              |
| <a href="#">COE-C2002</a> | Foundations of Continuum Mechanics                         | 5       | Spring        | V               |
| <a href="#">COE-C2003</a> | Basic Course on Fluid Mechanics                            | 5       | Autumn        | I               |
| <a href="#">COE-C2004</a> | Materials Science and Engineering                          | 5       | Autumn        | II              |
| <a href="#">COE-C2007</a> | Thermodynamics and Heat Transfer                           | 5       | Spring        | III             |
| <a href="#">COE-C3005</a> | Finite Element and Finite Difference Methods               | 5       | Spring        | V               |
| <a href="#">ENG-A1003</a> | Numerical Methods in Engineering                           | 5       | Spring        | III             |
| <a href="#">ENG-A1009</a> | Practical Work Training with 3D-printers                   | 1       | Autumn/Spring | Any period      |
| <a href="#">ENG-A1015</a> | Computer-Aided Design and Engineering                      | 5       | Spring        | IV              |
| <a href="#">ENG-A2001</a> | Computer-aided tools in engineering                        | 5       | Autumn        | I-II            |
| <a href="#">KIG-C1010</a> | Introduction to geoinformatics                             | 5       | Spring        | III             |
| <a href="#">KIG-C1030</a> | Management of spatial data                                 | 5       | Autumn        | I               |
| <a href="#">KON-C2004</a> | Mechatronics Basics                                        | 5       | Autumn        | II              |

### Master Level Courses

## Advanced Energy Solutions

| Course Code               | Course Name                                   | Credits | Autumn/Spring   | Teaching Period |
|---------------------------|-----------------------------------------------|---------|-----------------|-----------------|
| <a href="#">AAE-E1000</a> | Introduction to Advanced Energy Solutions     | 5       | Autumn          | I-II            |
| <a href="#">AAE-E1040</a> | Measurement and Control of Energy Systems     | 5       | Autumn          | I-II            |
| <a href="#">AAE-E2001</a> | Computational Fluid Dynamics D                | 5       | Spring          | III-IV          |
| <a href="#">AAE-E2004</a> | Mass Transfer D                               | 5       | Spring          | III-IV          |
| <a href="#">AAE-E2005</a> | Thermochemical energy conversion D            | 5       | Spring          | III-IV          |
| <a href="#">AAE-E3000</a> | Advanced Energy Project D                     | 10      | Autumn          | I-II            |
| <a href="#">AAE-E3001</a> | Fundamentals of Industrial Energy Engineering | 5       | Spring          | III-IV          |
| <a href="#">AAE-E3002</a> | Power Process Simulation D                    | 5       | Spring          | IV-V            |
| <a href="#">AAE-E3003</a> | Industrial Drying and Evaporation Processes   | 5       | Spring          | III-IV          |
| <a href="#">AAE-E3004</a> | District Heating and Cooling D                | 5       | Spring          | III             |
| <a href="#">AAE-E3005</a> | Exercises in Energy Technology D              | 5       | Autumn - Spring | I-V             |
| <a href="#">AAE-E3006</a> | Energy Markets                                | 5       | Autumn          | I               |
| <a href="#">AAE-E3007</a> | Process Integration and Energy Optimization D | 5       | Autumn          | II              |
| <a href="#">AAE-E3030</a> | Numerical Modeling of Multiphase Flows D      | 5       | Spring          | IV-V            |
| <a href="#">AAE-E3070</a> | Electrical Energy Storage Systems D           | 5       | Spring          | III             |
| <a href="#">AAE-E3071</a> | Electrical Energy Storage Systems Theory D    | 3       | Spring, Summer  | III, Summer     |
| <a href="#">AAE-E3080</a> | Thermal Energy Storage Systems D              | 5       | Spring          | IV-V            |
| <a href="#">AAE-E3081</a> | Thermal Energy Storage Systems Theory D       | 3       | Spring          | IV-V            |
| <a href="#">AAE-E3090</a> | Renewable Energy Engineering                  | 5       | Spring          | III-IV          |
| <a href="#">AAE-E3100</a> | Energy Carriers D                             | 5       | Autumn          | I               |
| <a href="#">AAE-E3120</a> | Circular Economy for Energy Storage D         | 5       | Autumn          | II              |
| <a href="#">AAE-E3121</a> | Circular Economy for Energy Storage Theory D  | 3       | Autumn, Summer  | II, Summer      |
| <a href="#">AAE-E4001</a> | Comfortable and Healthy Indoor Environments   | 5       | Spring          | III             |
| <a href="#">AAE-E4002</a> | Heating and Cooling Systems                   | 5       | Spring          | III             |
| <a href="#">AAE-E4003</a> | Ventilation and Air Conditioning Systems      | 5       | Spring          | IV              |
| <a href="#">AAE-E4004</a> | Fundamentals of HVAC Design                   | 5       | Spring          | IV-V            |
| <a href="#">AAE-E4005</a> | Sustainable Building Energy Systems           | 5       | Spring          | V               |
| <a href="#">AAE-E4006</a> | Advanced HVAC Design                          | 5       | Autumn          | I-II            |
| <a href="#">AAE-E4007</a> | Building Energy Optimisation                  | 5       | Autumn          | I-II            |
| <a href="#">EEN-E1010</a> | Power Plants and Processes                    | 5       | Autumn          | I-II            |

|                           |                                     |   |        |      |
|---------------------------|-------------------------------------|---|--------|------|
| <a href="#">EEN-E1020</a> | Heat Transfer D                     | 5 | Autumn | II   |
| <a href="#">EEN-E1030</a> | Thermodynamics in Energy Technology | 5 | Autumn | I-II |

## Building Technology

| Course Code               | Course Name                                    | Credits | Autumn/Spring | Teaching Period |
|---------------------------|------------------------------------------------|---------|---------------|-----------------|
| <a href="#">CIV-E1010</a> | Building Materials Technology                  | 5       | Autumn        | I               |
| <a href="#">CIV-E1020</a> | Mechanics of Beam and Frame Structures         | 5       | Autumn        | I               |
| <a href="#">CIV-E1030</a> | Fundamentals of Structural Design              | 5       | Autumn        | II              |
| <a href="#">CIV-E1040</a> | Construction Management                        | 5       | Spring        | III             |
| <a href="#">CIV-E1050</a> | Heat and Mass Transfer in Buildings            | 5       | Autumn        | I               |
| <a href="#">CIV-E1060</a> | Engineering Computation and Simulation         | 5       | Autumn        | II              |
| <a href="#">CIV-E2020</a> | Concrete Technology D                          | 5       | Spring        | III             |
| <a href="#">CIV-E2030</a> | Experimental Methods in Building Materials D   | 5       | Spring        | V               |
| <a href="#">CIV-E2040</a> | Maintenance and Repair of Structures D         | 5       | Autumn        | II              |
| <a href="#">CIV-E2050</a> | Operations Management in Construction D        | 5       | Spring        | IV              |
| <a href="#">CIV-E2060</a> | Production Technology of Concrete Structures D | 5       | Spring        | IV              |
| <a href="#">CIV-E2070</a> | Strategic Management of Construction D         | 5       | Spring        | V               |
| <a href="#">CIV-E2080</a> | Design Process Management D                    | 5       | Autumn        | II              |
| <a href="#">CIV-E3010</a> | Applied Building Physics and Design D          | 5       | Spring        | V               |
| <a href="#">CIV-E3020</a> | Design of Energy Efficient Buildings D         | 5       | Autumn        | II              |
| <a href="#">CIV-E3030</a> | Indoor Air Quality D                           | 5       | Spring        | IV              |
| <a href="#">CIV-E3040</a> | Indoor Environment Technology D                | 5       | Autumn        | I               |
| <a href="#">CIV-E3050</a> | Fire Dynamics and Simulation D                 | 5       | Spring        | III             |
| <a href="#">CIV-E3060</a> | Fire Risk and Evacuation Analysis D            | 5       | Autumn        | I-II            |
| <a href="#">CIV-E4010</a> | Finite Element Methods in Civil Engineering D  | 5       | Spring        | IV              |
| <a href="#">CIV-E4020</a> | Design of Bridges D                            | 5       | Autumn        | II              |
| <a href="#">CIV-E4030</a> | Engineering Design Exercises D                 | 5       | Autumn        | II              |
| <a href="#">CIV-E4040</a> | Reinforced Concrete Structures D               | 5       | Spring        | III             |
| <a href="#">CIV-E4050</a> | Prestressed and Precast Concrete Structures D  | 5       | Autumn        | I               |
| <a href="#">CIV-E4060</a> | Steel Structures D                             | 5       | Spring        | V               |
| <a href="#">CIV-E4070</a> | Composite Steel Structures D                   | 5       | Autumn        | I               |
| <a href="#">CIV-E4080</a> | Material Modelling in Civil Engineering D      | 5       | Spring        | V               |

|                           |                                                          |   |        |     |
|---------------------------|----------------------------------------------------------|---|--------|-----|
| <a href="#">CIV-E4090</a> | Mechanics of Plate and Shell Structures D                | 5 | Spring | III |
| <a href="#">CIV-E4100</a> | Stability of Structures D                                | 5 | Spring | IV  |
| <a href="#">CIV-E4110</a> | Timber Engineering D                                     | 5 | Spring | IV  |
| <a href="#">CIV-E4120</a> | Timber Structures D                                      | 5 | Autumn | I   |
| <a href="#">CIV-E6010</a> | Sustainability and Circular Economy in Civil Engineering | 5 | Spring | III |

## Geoengineering

| Course Code               | Course Name                                   | Credits | Autumn/Spring   | Teaching Period |
|---------------------------|-----------------------------------------------|---------|-----------------|-----------------|
| <a href="#">GEO-E1010</a> | Engineering Geology                           | 5       | Spring          | IV              |
| <a href="#">GEO-E1020</a> | Geotechnics                                   | 5       | Autumn          | I               |
| <a href="#">GEO-E1030</a> | Structural Design of Roads                    | 5       | Autumn          | II              |
| <a href="#">GEO-E1040</a> | Rock Excavation                               | 5       | Spring          | III             |
| <a href="#">GEO-E1050</a> | Finite Element Method in Geoengineering       | 5       | Autumn          | II              |
| <a href="#">GEO-E2010</a> | Advanced Soil Mechanics D                     | 5       | Spring          | IV              |
| <a href="#">GEO-E2020</a> | Numerical Methods in Geotechnics D            | 5       | Spring          | V               |
| <a href="#">GEO-E2030</a> | Rock Mechanics D                              | 5       | Autumn          | I               |
| <a href="#">GEO-E2040</a> | Rock Construction D                           | 5       | Spring          | V               |
| <a href="#">GEO-E2050</a> | Bituminous Materials and Mixtures D           | 5       | Spring          | IV (even years) |
| <a href="#">GEO-E2060</a> | Seminar in Geoengineering V D                 | 5       | Autumn          | I-II            |
| <a href="#">GEO-E2070</a> | Special Assignment in Geoengineering V D      | 5       | Autumn - Spring | I-V             |
| <a href="#">GEO-E2071</a> | Special Assignment in Geoengineering D        | 1-10    | Autumn - Summer | I - Summer      |
| <a href="#">GEO-E2080</a> | Foundation Engineering and Ground Improvement | 5       | Autumn          | II              |
| <a href="#">GEO-E3010</a> | Economic Geology and Mineral Economics D      | 5       | Autumn          | II              |
| <a href="#">GEO-E3030</a> | Road Maintenance and Rehabilitation D         | 5       | Spring          | IV (odd years)  |
| <a href="#">GEO-E3040</a> | Geometric Design of Roads                     | 5       | Spring          | III             |

## Geoinformatics

| Course Code               | Course Name                                         | Credits | Autumn/Spring | Teaching Period |
|---------------------------|-----------------------------------------------------|---------|---------------|-----------------|
| <a href="#">GIS-E1010</a> | Geodesy and Positioning D                           | 5       | Autumn        | I               |
| <a href="#">GIS-E1020</a> | From Measurements to Maps D                         | 5       | Autumn        | I               |
| <a href="#">GIS-E1030</a> | Introduction to Spatial Methods D                   | 5       | Autumn        | I               |
| <a href="#">GIS-E1040</a> | Photogrammetry, Laser Scanning and Remote Sensing D | 5       | Autumn        | II              |

|                           |                                                   |       |                 |      |
|---------------------------|---------------------------------------------------|-------|-----------------|------|
| <a href="#">GIS-E1060</a> | Spatial Analytics D                               | 5     | Autumn          | II   |
| <a href="#">GIS-E1070</a> | Theories and Techniques in GIS D                  | 5     | Autumn          | II   |
| <a href="#">GIS-E3020</a> | Digital Image Processing and Feature Extraction D | 5     | Spring          | III  |
| <a href="#">GIS-E3030</a> | Advanced Laser Scanning D                         | 5     | Spring          | IV   |
| <a href="#">GIS-E3040</a> | Advanced Photogrammetry D                         | 5     | Spring          | IV   |
| <a href="#">GIS-E3050</a> | Advanced Remote Sensing D                         | 5     | Spring          | V    |
| <a href="#">GIS-E4030</a> | GIS Development D                                 | 5     | Spring          | IV-V |
| <a href="#">GIS-E4040</a> | Spatial Data Science for Sustainable Development  | 5     | Spring          | III  |
| <a href="#">GIS-E5050</a> | Advanced Geodesy D                                | 5     | Spring          | IV   |
| <a href="#">GIS-E6010</a> | Project Course V D                                | 10    | Autumn          | I-II |
| <a href="#">GIS-E6020</a> | Special Course in Geoinformatics V D              | 1 - 5 | Autumn - Spring | I-V  |

## Mechanical Engineering

| Course Code               | Course Name                         | Credits | Autumn/Spring   | Teaching Period |
|---------------------------|-------------------------------------|---------|-----------------|-----------------|
| <a href="#">MEC-E1003</a> | Machine Design Project              | 5       | Autumn          | I-II            |
| <a href="#">MEC-E1004</a> | Principles of Naval Architecture D  | 5       | Autumn          | I-II            |
| <a href="#">MEC-E1005</a> | Modelling in Applied Mechanics      | 5       | Spring          | V               |
| <a href="#">MEC-E1010</a> | Dynamics of Rigid Body              | 5       | Autumn          | I               |
| <a href="#">MEC-E1020</a> | Fluid Dynamics                      | 5       | Autumn          | I               |
| <a href="#">MEC-E1030</a> | Random Loads and Processes D        | 5       | Autumn          | I-II            |
| <a href="#">MEC-E1040</a> | Dynamics of Structures D            | 5       | Autumn          | II              |
| <a href="#">MEC-E1050</a> | Finite Element Method in Solids     | 5       | Autumn          | II              |
| <a href="#">MEC-E1060</a> | Machine Design                      | 5       | Autumn          | I               |
| <a href="#">MEC-E1070</a> | Selection of Engineering Materials  | 5       | Autumn          | I               |
| <a href="#">MEC-E1080</a> | Production Engineering              | 5       | Autumn          | I-II            |
| <a href="#">MEC-E1090</a> | Quality Management and Metrology    | 5       | Autumn          | II              |
| <a href="#">MEC-E2000</a> | Marine and Ship Systems Engineering | 5       | Autumn - Spring | II-III          |
| <a href="#">MEC-E2001</a> | Ship Hydrodynamics D                | 5       | Autumn - Spring | II-III          |
| <a href="#">MEC-E2002</a> | Ship Buoyancy and Stability         | 5       | Autumn - Spring | II-III          |
| <a href="#">MEC-E2003</a> | Passenger Ships D                   | 5       | Autumn - Spring | II-III          |
| <a href="#">MEC-E2004</a> | Ship Dynamics D                     | 5       | Spring          | IV-V            |
| <a href="#">MEC-E2007</a> | Ship Structures and Construction D  | 5       | Spring          | IV-V            |

|                           |                                                       |       |                 |                 |
|---------------------------|-------------------------------------------------------|-------|-----------------|-----------------|
| <a href="#">MEC-E2009</a> | Marine Risks and Safety D                             | 5     | Autumn          | I               |
| <a href="#">MEC-E2010</a> | Computational Fluid Modelling D                       | 5     | Autumn          | I-II            |
| <a href="#">MEC-E2011</a> | Ship Design Portfolio                                 | 5     | Spring          | III-V           |
| <a href="#">MEC-E2012</a> | Computational Marine Hydrodynamics D                  | 5     | Autumn          | I-II            |
| <a href="#">MEC-E3001</a> | Product Development Project V D                       | 10-15 | Autumn - Spring | I-V             |
| <a href="#">MEC-E3002</a> | Methods in Early Product Development D                | 5     | Autumn          | I               |
| <a href="#">MEC-E3004</a> | Safety Management in Complex Sociotechnical Systems D | 5     | Spring          | IV-V            |
| <a href="#">MEC-E3005</a> | Prototyping for Innovation                            | 5     | Spring          | III             |
| <a href="#">MEC-E3006</a> | Design thinking and creativity for innovation         | 1-3   | Autumn-Summer   | I - Summer      |
| <a href="#">MEC-E4002</a> | Ice Loads on Structures D                             | 5     | Spring          | IV              |
| <a href="#">MEC-E4003</a> | Ice Mechanics D                                       | 5     | Autumn          | I               |
| <a href="#">MEC-E4004</a> | Model Scale Testing in Ice D                          | 5     | Autumn          | II              |
| <a href="#">MEC-E4006</a> | Ship Operations in Ice D                              | 5     | Spring          | III-IV          |
| <a href="#">MEC-E5001</a> | Mechatronic Machine Design                            | 5     | Spring          | III             |
| <a href="#">MEC-E5002</a> | Mechatronics Project                                  | 10    | Spring          | III-IV          |
| <a href="#">MEC-E5003</a> | Fluid Power Basics                                    | 5     | Spring          | III-IV          |
| <a href="#">MEC-E5004</a> | Fluid Power Systems                                   | 5     | Autumn          | I-II            |
| <a href="#">MEC-E5005</a> | Fluid Power Dynamics D                                | 5     | Autumn          | I-II            |
| <a href="#">MEC-E5010</a> | Advanced Project on Mechatronics V D                  | 5     | Autumn - Spring | I-V             |
| <a href="#">MEC-E5011</a> | Vehicle Mechatronics: Powertrain D                    | 5     | Autumn          | II (odd years)  |
| <a href="#">MEC-E5012</a> | Vehicle Mechatronics: Control D                       | 5     | Autumn          | II (even years) |
| <a href="#">MEC-E6001</a> | Engineering Metals and Alloys D                       | 5     | Spring          | V               |
| <a href="#">MEC-E6002</a> | Welding Technology and Design D                       | 5     | Spring          | V               |
| <a href="#">MEC-E6003</a> | Materials Safety D                                    | 5     | Autumn          | I               |
| <a href="#">MEC-E6004</a> | Non-destructive Testing D                             | 5     | Autumn          | II              |
| <a href="#">MEC-E6005</a> | Engineering Materials Seminar D                       | 5     | Spring          | V               |
| <a href="#">MEC-E6006</a> | Engineering Materials Laboratory D                    | 5     | Autumn          | I-II            |
| <a href="#">MEC-E6007</a> | Mechanical Testing of Materials D                     | 5     | Spring          | IV-V            |
| <a href="#">MEC-E7001</a> | Production Systems Modelling D                        | 5     | Spring          | III             |
| <a href="#">MEC-E7002</a> | Manufacturing Methods I                               | 5     | Spring          | III             |
| <a href="#">MEC-E7003</a> | Manufacturing Methods II                              | 5     | Spring          | IV-V            |
| <a href="#">MEC-E7005</a> | Advanced Casting Technology D                         | 5     | Spring          | IV              |

|                           |                                     |   |                 |        |
|---------------------------|-------------------------------------|---|-----------------|--------|
| <a href="#">MEC-E7006</a> | Advanced Manufacturing D            | 5 | Spring          | IV     |
| <a href="#">MEC-E7007</a> | Factory Project                     | 5 | Autumn          | I-II   |
| <a href="#">MEC-E7009</a> | Design for Additive Manufacturing L | 5 | Spring          | V      |
| <a href="#">MEC-E8001</a> | Finite Element Analysis D           | 5 | Spring          | III    |
| <a href="#">MEC-E8003</a> | Beam, Plate and Shell Models D      | 5 | Spring          | IV     |
| <a href="#">MEC-E8005</a> | Thin-walled Structures D            | 5 | Autumn          | I-II   |
| <a href="#">MEC-E8006</a> | Fatigue of Structures D             | 5 | Autumn - Spring | II-III |
| <a href="#">MEC-E8007</a> | Fracture Mechanics D                | 5 | Spring          | V      |

## Real Estate Economics

| Course Code               | Course Name                               | Credits | Autumn/Spring | Teaching Period |
|---------------------------|-------------------------------------------|---------|---------------|-----------------|
| <a href="#">REC-E3100</a> | Real Estate Economics D                   | 6       | Autumn        | I               |
| <a href="#">REC-E3200</a> | Institutions in Real Estate Economics D   | 6       | Autumn        | I               |
| <a href="#">REC-E3300</a> | Facility and Property Management D        | 6       | Autumn        | II              |
| <a href="#">REC-E3400</a> | Housing Economics D                       | 6       | Autumn        | II              |
| <a href="#">REC-E3500</a> | Urban Economics D                         | 6       | Spring        | III             |
| <a href="#">REC-E3600</a> | Real Estate Market Analysis D             | 6       | Spring        | III             |
| <a href="#">REC-E3800</a> | Futures Studies for Real Estate Economics | 6       | Spring        | IV              |
| <a href="#">REC-E4100</a> | Real Estate Finance D                     | 6       | Spring        | IV              |
| <a href="#">REC-E4300</a> | Real Estate Valuation D                   | 6       | Spring        | V               |
| <a href="#">REC-E4500</a> | Land Management D                         | 6       | Spring        | V               |

## Spatial Planning and Transportation Engineering

| Course Code               | Course Name                       | Credits | Autumn/Spring | Teaching Period |
|---------------------------|-----------------------------------|---------|---------------|-----------------|
| <a href="#">SPT-E1010</a> | Land Use Planning Systems D       | 5       | Autumn        | I               |
| <a href="#">SPT-E1021</a> | Foundations of Mobility Systems D | 5       | Autumn        | I               |
| <a href="#">SPT-E1030</a> | Planning Theory D                 | 5       | Autumn        | I-II            |
| <a href="#">SPT-E1070</a> | Planning Studio V D               | 10      | Autumn        | I-II            |
| <a href="#">SPT-E1090</a> | Land-use and Transport Policy D   | 5       | Autumn        | II              |
| <a href="#">SPT-E3010</a> | Participatory Planning D          | 5       | Spring        | IV              |
| <a href="#">SPT-E4010</a> | Transport Modelling D             | 5       | Spring        | III             |
| <a href="#">SPT-E4020</a> | Traffic Flow Theory D             | 5       | Spring        | IV              |

|                           |                                    |    |        |      |
|---------------------------|------------------------------------|----|--------|------|
| <a href="#">SPT-E4030</a> | Traffic Management D               | 5  | Spring | V    |
| <a href="#">SPT-E4040</a> | Integrated Urban Transport D       | 5  | Spring | III  |
| <a href="#">SPT-E4050</a> | Transport Economics                | 5  | Spring | III  |
| <a href="#">SPT-E5010</a> | Urban and Regional Development D   | 5  | Spring | V    |
| <a href="#">SPT-E5020</a> | Urban Experience D                 | 5  | Spring | III  |
| <a href="#">SPT-E8010</a> | Smart and Liveable City Studio V D | 10 | Spring | IV-V |

## Water and Environmental Engineering

| Course Code               | Course Name                                                         | Credits | Autumn/Spring | Teaching Period |
|---------------------------|---------------------------------------------------------------------|---------|---------------|-----------------|
| <a href="#">WAT-E1100</a> | Water and Environmental Engineering                                 | 15      | Autumn        | I               |
| <a href="#">WAT-E2010</a> | Groundwater Hydrology D                                             | 5       | Spring        | V               |
| <a href="#">WAT-E2020</a> | Environmental Hydraulics D                                          | 5       | Spring        | IV              |
| <a href="#">WAT-E2030</a> | Hydrological Modelling D                                            | 5       | Spring        | III             |
| <a href="#">WAT-E2040</a> | Surface Water Resources D                                           | 5       | Autumn        | II              |
| <a href="#">WAT-E2060</a> | Sustainable Built Environment D                                     | 5       | Autumn        | II              |
| <a href="#">WAT-E2070</a> | Sustainable Global Technologies (SGT) Studio D                      | 10      | Spring        | III-V           |
| <a href="#">WAT-E2080</a> | Water and Governance D                                              | 5       | Spring        | III             |
| <a href="#">WAT-E2090</a> | Water and People in a Changing World D                              | 5       | Autumn        | II              |
| <a href="#">WAT-E2100</a> | Urban Water Systems D                                               | 5       | Autumn        | II              |
| <a href="#">WAT-E2110</a> | Design and Management of Water and Wastewater Networks D            | 5       | Spring        | IV              |
| <a href="#">WAT-E2120</a> | Physical and Chemical Treatment of Water and Waste D                | 5       | Spring        | III             |
| <a href="#">WAT-E2130</a> | Modelling and Control of Water and Wastewater Treatment Processes D | 5       | Spring        | V               |
| <a href="#">WAT-E2180</a> | Biological Treatment of Water and Waste D                           | 5       | Spring        | IV              |
| <a href="#">WAT-E3020</a> | State of the World and Development D                                | 2       | Autumn        | I               |