LUT UNIVERSITY: Programme-Specific Studies

Autumn 2024 intake

To be eligible to apply, you must have completed the minimum required number of ECTS credits for the programme-specific studies as follows:

Master of Science in Economics and Business Administration

EARLY ADMISSIONS

- **Business Analytics**
  - a minimum of 40 ECTS credits of studies in Mathematics, Information Technology, Information Processing, Statistics, Operations Research and Management Science relevant to the programme
- **International Business and Entrepreneurship**
  - a minimum of 24 ECTS credits of studies in International Business, International Marketing, Entrepreneurship or Management
- **International Marketing Management**
  - a minimum of 24 ECTS credits of studies in Marketing, International Marketing or International Business
- **Strategic Finance and Analytics**
  - a minimum of 70 ECTS credits of studies in Finance, Accounting or Economics relevant to the programme
  - a minimum of 24 ECTS credits of studies in Research Methods (Analytics, Applied Mathematics, Statistics, Information Processing or Information Technology) relevant to the programme
    - The basic-level courses in Mathematics and Statistics courses are not counted. Priority is given to courses that are related to Applied Business Research (i.e. Data Analytics, Applied Mathematics/Statistics, Operational Research, and Software Programming).
- **Supply Management**
  - a minimum of 24 ECTS credits of studies in Supply Management, Management, Supply Chain Management, Logistics, Marketing or International Business

Master of Science in Economics and Business Administration

REGULAR ADMISSIONS

- **Business Analytics**
    - a minimum of 24 ECTS credits of studies in Mathematics, Information Technology, Information Processing, Statistics, Operations Research and Management Science relevant to the programme
- **International Business and Entrepreneurship**
    - a minimum of 24 ECTS credits of studies in International Business, International Marketing, Entrepreneurship or Management
- **International Marketing Management**
    - a minimum of 24 ECTS credits of studies in Marketing, International Marketing or International Business
- **Strategic Finance and Analytics**
    - a minimum of 40 ECTS credits of studies in Finance, Accounting or Economics related and applicable to this programme*
- **Supply Management**
    - a minimum of 24 ECTS credits of studies in Supply Management, Management, Supply Chain Management, Logistics, Marketing or International Business

Master of Science in Technology

EARLY ADMISSIONS

- **Electric Transportation Systems**
  - a minimum of 40 ECTS credits of studies in Electric Power Systems, Power Electronics and/or Electrical Drives
- **Electrical Engineering**
  - a minimum of 40 ECTS credits of studies in Electrical Engineering
  - Studies in Control Technology, Automation and Embedded Systems can also be included - but studies in Information Technology are not included.
- **Global Management of Innovation and Technology**
  - a minimum of 24 ECTS credits of studies in Industrial Engineering and Management, Information Technology, Mathematics or Statistics
- **Innovation and Logistics**
  - a minimum of 24 ECTS credits of studies in Industrial Engineering and Management, Economics, Logistics, Supply Chain Management, Information Technology, Mathematics or Statistics
- **Digital Systems and Service Development, Software Engineering and Digital Transformation and Software Product Management and Business**
  - a minimum of 24 ECTS credits of studies in Software Engineering, Computer Science, Information Technology, Information Systems, Business Informatics, Computer Science and Engineering, Business Systems and Analytics, Business Systems Design, Programming, Databases or Data Science
- **Chemical Engineering in Energy Transition and Water Technology**
  - a minimum of 24 ECTS credits of studies in Chemistry, Chemical Engineering, Process Engineering and Environmental Technology

PROGRAMMES WITH BACHELOR'S DEGREE REQUIRED TO BE IN MECHANICAL ENGINEERING

Bachelor's Degree must be completed in the field of Mechanical Engineering. The following fields are included in:

- Mechanical Engineering
  - Completed in a university
  - Mechanical Engineering
  - (Mechanical) Automation Engineering
  - Materials Science / Materials Technology
  - Automation and Systems Engineering
- Industrial Design Engineering
  - Design
  - Industrial Design

Master of Science in Technology

REGULAR ADMISSIONS

- **M.Sc. (Tech.) in Biorefineries**
  - a minimum of 24 ECTS credits of previous studies related to Chemistry, Development of Chemical Processes or Processing of Biomass
- **M.Sc. (Tech.) in Chemical Engineering for Energy Transition**
  - a minimum of 24 ECTS credits of previous studies in the field of Chemistry, Chemical Engineering, Process Engineering and Environmental Technology
- **M.Sc. (Tech.) in Water Technology**
  - a minimum of 24 ECTS credits of previous studies in the field of Chemistry, Chemical Engineering, Process Engineering and Environmental Technology
- **M.Sc. (Tech.) in Data-Centric engineering**
  - a minimum of 60 ECTS credits of studies in Mathematics or Statistics if applying to the specialisation 'Applied Mathematics'
  - a minimum of 60 ECTS credits of studies in Information Technology or Computer Science if applying to the specialisation 'Computer Vision and Pattern Recognition'
- **M.Sc. (Tech.) in Electrical Engineering**
  - a minimum of 40 ECTS credits of studies in Electrical Engineering
    - Studies in Control Technology, Automation and Embedded Systems included
    - Studies in Information Technology excluded
- **M.Sc. (Tech.) in Electric Transportation Systems**
  - a minimum of 40 ECTS credits of studies in Electric Power Systems, Power Electronics and/or Electrical Drives
- **M.Sc. (Tech.) in Energy Conversion**
  - a minimum of 24 ECTS credits of studies supportive to Energy Technology
    - Studies in Thermodynamics, Fluid Dynamics, Nuclear Engineering and Energy Conversion that considerably provide the applicant with an advantage for studying courses in Energy Technology.
    - In addition, courses related to planning, measuring and manufacturing of pumps, blowers and fans, compressors, turbines and heat transformers used in power plants and in energy conversion are also considered to be included in studies supportive to Energy Technology, as well as studies in calculation of the related processes.
  - a minimum of 20 ECTS credits of studies in Mathematics or Physics
    - Some basic courses in Electrical Engineering can be counted towards studies in Physics as well as some studies in Mechanical Engineering, such as Statics and Mechanics.
- **M.Sc. (Tech.) in Nuclear Engineering**
  - a minimum of 24 ECTS credits of studies supportive to Energy Technology
    - Studies in Thermodynamics, Fluid Dynamics, Nuclear Engineering and Energy Conversion that considerably provide the applicant with an advantage for studying courses in Energy Technology.

        - In addition, courses related to planning, measuring and manufacturing of pumps, blowers and fans, compressors, turbines and heat transformers used in power plants and in energy conversion are also considered to be included in studies supportive to Energy Technology, as well as studies in calculation of the related processes.
    - a minimum of 20 ECTS credits of studies in Mathematics or Physics
        - Some basic courses in Electrical Engineering can be counted towards studies in Physics as well as some studies in Mechanical Engineering, such as Statics and Mechanics.
- **M.Sc. (Tech.) in Sustainability Science and Solutions**
    - There is no minimum number of ECTS credits for programme-related courses required.
- **M.Sc. (Tech.) in Circular Economy**
    - There is no minimum number of ECTS credits for programme-related courses required.
- **M.Sc. (Tech.) in Global Management of Innovation and Technology**
    - a minimum of 24 ECTS credits in Industrial Engineering and Management, Information Technology, Mathematics or Statistics
- **M.Sc. (Tech.) in Innovation and Logistics**
    - a minimum of 24 ECTS credits in Industrial Engineering and Management, Economics, Logistics, Supply Chain Management, Information Technology, Mathematics or Statistics
- **M.Sc. (Tech.) in Industrial Design Engineering**
    - To be eligible to apply, the Bachelor's Degree must be completed in the field of
        - Mechanical Engineering
        - Design or Industrial Design
- **M.Sc. (Tech.) in Mechanical Engineering**
    - To be eligible to apply, the Bachelor's Degree must be completed in the field of Mechanical Engineering.
- **M.Sc. (Tech.) in Software Engineering and Digital Transformation**
    - To be eligible to apply, the Bachelor's Degree must be completed in the field of Mechanical Engineering.
- **M.Sc. (Tech.) in Software Product Management and Business**
    - a minimum of 24 ECTS credits of programme-specific studies Software Engineering, Computer Science, Information Technology, Information Systems, Business Informatics, Computer Science and Engineering, Business Systems and Analytics, Business Systems Design, Programming, Databases or Data Science