International Master of Science in Engineering, Entrepreneurship and Resources (MSc ENTER)

MSc ENTER
Engineering, Entrepreneurship and Resources

University of Miskolc, Hungary (ME)

Lappeenranta-Lahti University of Technology, Finland (LUT University)

TU Bergakademie Freiberg, Germany (TUBAF)

Study at three universities in the heart of Europe with esteemed technical profiles and become a highly qualified professional in the field of industrial, mechanical and process engineering!

TU Bergakademie Freiberg · LUT University · Universitas Miskolcensis · Dnipro Polytechnic 1899 · Miskolci Egyetem University of Miskolc · Technical University of Košice

AN OVERVIEW OF THE CURRICULUM

Semester 1	Semester 2	Semester 3	Semester 4
University of Miskolc	LUT University	TU Bergakademie Freiberg	University of Miskolc
Oct. – Jan.	Jan. – May	Oct. – Mar.	Mar. – Aug.
Environmental geology **(4 ECTS Credits)**	Current Issues in Enabling Technologies for Circular Economy **(5 ECTS Credits)**	Training in Particle Technology **(4 ECTS Credits)**	Master thesis will be jointly supervised by the three partner universities (one supervisor from ME, one from LUT and one from TUBAF) and carries a total of **30 ECTS Credits.**
Basics of environmental processing **(2 ECTS Credits)**	Start-ups and Venture Formation **(6 ECTS Credits)**	Training in Endurance and Design **(6 ECTS Credits)**	
Ecology and nature protection **(3 ECTS Credits)**	Knowledge Discovery and Process Data Analysis **(5 ECTS Credits)**	Project – Process Design Mineral Processing/ Recycling **(5 ECTS Credits)**	
Soil and water chemistry **(4 ECTS Credits)**	Process Intensification **(5 ECTS Credits)**	Sustainable Engineering **(4 ECTS Credits)**	
Waste processing machines and their option **(5 ECTS Credits)**	Academic Entrepreneurship **(6 ECTS Credits)**	Conception of Process Equipment **(5 ECTS Credits)**	
Environmental and Waste Management Law **(2 ECTS Credits)**	Integration of Product's Design, Sustainable Production and Material Selection* **(5 ECTS Credits)**	Process Development in Mechanical Process Engineering* **(4 ECTS Credits)**	
Methods of environmental assessment **(2 ECTS Credits)**	Simulation, Laboratory Course* **(5 ECTS Credits)**	Recycling - Secondary Raw Materials* **(5 ECTS Credits)**	
Basics of waste management **(3 ECTS Credits)**	Fluid Dynamics in Chemical Engineering* **(5 ECTS Credits)**	Maintenance Engineering* **(4 ECTS Credits)**	
Waste incineration, air quality control **(4 ECTS Credits)**	Advanced Course in Life Cycle Assessment* **(8 ECTS Credits)**		
Water and waste water treatment **(2 ECTS Credits)**	Bioeconomy* **(5 ECTS Credits)**		
Handling and processing of Biodegradable Wastes **(3 ECTS Credits)**	Development of New Sustainable Products and Solutions* **(5 ECTS Credits)**		
	Power-to-X processes* **(5 ECTS Credits)**		

* Elective modules
Please visit www.enter-study.eu for detailed course descriptions.

THE INTERNATIONAL JOINT STUDY PROGRAMME

Diploma	Triple degree diploma: • ME "Master of Science" (Környezetmérnöki mesterképzési szak) • LUT University "Master of Science in Technology" • TUBAF "Master of Science" in Mechanical and Process Engineering
Credits	128 ECTS (or more, depends on selected elective modules), 2 years
Language	English
Starts in	September
Application Requirements	• First cycle higher education degree (e.g. a Bachelor degree) in mechanical engineering, process engineering, environmental engineering, chemical engineering or other relevant fields of study • English language certificate (can be submitted after the accepted application, no later than **Oct. 15**) o TOEFL: 80 (90) for internet-based test or 550 for paper-based test; o IELTS: 6.0 (6.5); o PTE Academic: 54; o Cambridge English Qualifications – C1 Advanced or C2 Proficiency: C o APTIS Advanced: CEFR level B2 • Additional application documents may be required upon request. Please submit your application directly to the Programme Coordinator at your University.
Scholarships	Upon application: For up to 12 months' study-abroad periods respectively in Finland and in Germany, students can apply for the following scholarships: Pannónia scholarship in consultation with your home university: approx. 400.000 HUF = 1.026€ grant rate per month
Fees	• TUBAF: Semester fee 107€ × 4 semesters • LUT: Student healthcare fee 36.80€ (2nd semester), Semester fee 42€ (2nd, 4th& 5th semesters, registration as attending), 3rd semester registration as non-attending required (50€ re-enrollment if not registered)
Admission Documents at LUT University and TUBAF	• Certified copies of the Bachelor degree certificate and Transcripts of Records; certified translations of the above certificates into English; • Proof of English language proficiency according to application requirements; • Certificate of enrolment for the Master study programme at TUKE (if necessary, certified translation of the certificate into English); • Up-to-date passport photo; • Motivation letter (maximum one page); • If available, proof of professional training or work experience, internships or similar activities relevant to the study programme . Further information can be found at www.enter-study.eu. **Please submit complete documents to the Programme Coordinator of ME no later than Oct. 15. Then you will receive the informations for the enrolment from TUBAF and LUT.**

ADDITIONAL INFORMATION FOR YOUR STUDY-ABROAD PERIODS

	Lappeenranta, Finland	Freiberg, Germany
Visa and Residence Permit	As a citizen of an EU Member State, you need to register your right of residence at the Finnish Immigration Service as you will stay in Finland for more than three months. Further details about the registration process can be found here.	For EU citizens, no residence permit is required. Upon arrival, you only need to register with the local residents' registration office. Documents required are: a passport or personal identification card; a housing confirmation and proof of financial resources. Further details can be found here.
Health Insurance	Everyone who studies in Finland and Germany must have health insurance. If you are insured by or covered by a state social security system (a public health insurance provider) in Hungary, you can apply for the European Health Insurance Card (EHIC), which is also recognised in Finland and Germany. Otherwise you should take out a private insurance.	
	Further details about health insurance in Finland can be found here.	Further details about health insurance in Germany can be found here.
Housing	Accommodation is arranged by Lappeenranta Student Housing Foundation. Further details can be found here.	Student dormitories provided by the Student Services Office (Studentenwerk Freiberg) Other possibilities
Cost of Living	About 700 € per month (about 350 € for monthly rent and utilities). Further details can be found here.	700€ per month, including: Rent and utilities: 200 – 320€ Food and clothing: 200 – 300€ Phone, internet and TV: 35 – 50€
Services for Students	Additional services for students at LUT University can be found here.	Additional services for students at TU Freiberg can be found here.

FURTHER CONTACTS

Programme Coordinator:
Prof. Dr. Ferenc Madai
E-Mail: askmf@uni-miskolc.hu

TU Freiberg Coordinator:
Mrs. Sophia Kohl
E-Mail: sophia.kohl@eit.tu-freiberg.de

LUT University Coordinator:
Dr. Maria Mamelkina
E-Mail: maria.mamelkina@lut.fi