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

MSc ENTER
Engineering, Entrepreneurship and Resources

University of Sarajevo, Bosnia-Herzegovina (UNSA)

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 Sarajevo	LUT University	TU Bergakademie Freiberg	University of Sarajevo
Oct. – Jan.	Jan. – May	Oct. – Mar.	Mar. – Aug.
Intelligent Industrial Systems **(5 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 UNSA, one from LUT and one from TUBAF) and carries a total of **30 ECTS Credits.**
Industrial Marketing **(5 ECTS Credits)**	Start-ups and Venture Formation **(6 ECTS Credits)**	Training in Endurance and Design **(6 ECTS Credits)**	
Industrial Logistics **(5 ECTS Credits)**	Knowledge Discovery and Process Data Analysis **(5 ECTS Credits)**	Project – Process Design Mineral Processing/ Recycling **(5 ECTS Credits)**	
Project Management **(5 ECTS Credits)**	Process Intensification **(5 ECTS Credits)**	Sustainable Engineering **(4 ECTS Credits)**	
CAM (Computer Aided Manufacturing) **(5 ECTS Credits)**	Academic Entrepreneurship **(6 ECTS Credits)**	Conception of Process Equipment **(5 ECTS Credits)**	
Finite Element Method in Mechanical Engineering* **(5 ECTS Credits)**	Integration of Product's Design, Sustainable Production and Material Selection* **(5 ECTS Credits)**	Process Development in Mechanical Process Engineering* **(4 ECTS Credits)**	
Expert Systems and Knowledge Bases* **(5 ECTS Credits)**	Simulation, Laboratory Course* **(5 ECTS Credits)**	Recycling - Secondary Raw Materials* **(5 ECTS Credits)**	
Flexible Manufacturing Systems* **(5 ECTS Credits)**	Fluid Dynamics in Chemical Engineering* **(5 ECTS Credits)**	Maintenance Engineering* **(4 ECTS Credits)**	
Ergonomics and Biomechanics* **(5 ECTS Credits)**	Advanced Course in Life Cycle Assessment* **(8 ECTS Credits)**		
	Bioeconomy* **(5 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: • UNSA "Master of Mechanical Engineering - Graduated Mechanical Engineer (magistar mašinstva - diplomirani inžinjer mašinstva)" • LUT University "Master of Science in Technology" • TUBAF "Master of Science" in Mechanical and Process Engineering
Credits	124 ECTS (or more, depends on selected elective modules), 2 years
Language	English
Starts in	October
Application Require-ments	• 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 sub-mit your application directly to the Programme Coordinator at your University
Scholar-ships	For up to 11 months' study-abroad periods respectively in Finland and in Germany, students can apply for the following Erasmus+ funding: • Monthly grant rate: 900€ (+250€ social top up for stud. with viewer opport.) • One-time travel grant: 309€ (+108€ for green travelling by train, bus or carpool) This will be examined by the International Offices of the partner universities.
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 Uni-versity 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 UNSA (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 at UNSA 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	Residence permit is required from non-EU/EEA citizen. Further details can be found here.	Apply for a 6 month student visa at the German diplomatic mission in Bosnia-Herzgovina. Further details can be found here.
Health Insurance	Everyone must have a private health insurance for the stay in Finland. Details you get from your LUT coordinator. Further details about health insurance in Finland can be found here.	As Germany has a social agreement with Bosnia, only the BH6-form from your statutory health insurance is needed. 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.	About 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. Mugdim Pasic

E-Mail: mugdim.pasic@mef.unsa.ba

TU Bergakademie 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