

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

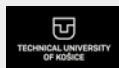
University of Sarajevo,  
Bosnia-Herzegovina (UNSA)

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!



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



## 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. – Feb./Mar.	Feb./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 <b>30 ECTS Credits.</b>
Ergonomics and Biomechanics (5 ECTS Credits)	Process Intensification (5 ECTS Credits)	Training in Endurance and Design (6 ECTS Credits)	
Industrial Logistics (5 ECTS Credits)	Knowledge Discovery and Process Data Analysis (5 ECTS Credits)	Conception of Process Equipment (3 ECTS Credits)	
Project Management (5 ECTS Credits)	Business start-ups and Venture Formation (6 ECTS Credits)	Discrete Element Method (4 ECTS Credits)	
CAM (Computer Aided Manufacturing) (5 ECTS Credits)	Academic Entrepreneurship (6 ECTS Credits)	Maintenance Engineering (3 ECTS Credits)	
Finite Element Method in Mechanical Engineering* (5 ECTS Credits)	Industrial Project Management* (3 ECTS Credits)	Sustainable Engineering (4 ECTS Credits)	
Expert Systems and Knowledge Bases* (5 ECTS Credits)	Manufacturing Processes for Recyclable Products* (5 ECTS Credits)	Project – Process Design Mineral Processing/Recycling (8 ECTS Credits)	
Flexible Manufacturing Systems* (5 ECTS Credits)	Simulation, Laboratory Course* (5 ECTS Credits)		
	Advanced Course in Life Cycle Assessment* (7 ECTS Credits)		

\* Elective modules  
Please visit [www.enter-study.eu](http://www.enter-study.eu) for detailed course descriptions.

# THE INTERNATIONAL JOINT STUDY PROGRAMME

<b>Diploma</b>	<p>Triple degree diploma:</p> <ul style="list-style-type: none"> <li>• UNSA "Master of Mechanical Engineering - Graduated Mechanical Engineer (magistar mašinstva - diplomirani inženjer mašinstva)"</li> <li>• LUT University "Master of Science in Technology"</li> <li>• TUBAF "Master of Science" in Mechanical and Process Engineering</li> </ul>
<b>Credits</b>	122 ECTS, 2 years
<b>Language</b>	English
<b>Starts in</b>	October
<b>Application Requirements</b>	<ul style="list-style-type: none"> <li>• 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</li> <li>• English language certificate (can be submitted after the accepted application, no later than <b>Oct. 15</b>) <ul style="list-style-type: none"> <li>• TOEFL: 90 for internet-based test or 550 for paper-based test;</li> <li>• IELTS: 6.5;</li> <li>• PTE Academic: 54;</li> <li>• Cambridge English Qualifications – C1 Advanced or C2 Proficiency: C</li> <li>• APTIS Advanced: CEFR level B2</li> </ul> </li> <li>• Additional application documents may be required upon request. Please submit your application directly to the Programme Coordinator at your University.</li> </ul>
<b>Scholarships</b>	<ul style="list-style-type: none"> <li>• Upon application: For up to <b>11 months'</b> study-abroad periods respectively in Finland and in Germany, students can apply for the following scholarships:</li> <li>• Erasmus+ scholarship: <b>10,235 €</b> per student (930 per month)</li> <li><b>OR</b></li> <li>• EIT scholarship: <b>4,200 €</b> per student (382 per month)</li> </ul>
<b>Fees</b>	All enrolment fees will be covered by the programme.
<b>Admission Documents at LUT University and TUBAF</b>	<ul style="list-style-type: none"> <li>• "<a href="#">Application for Admission</a>" at TUBAF (Guidance for filling out the application form can be found <a href="#">here</a>);</li> <li>• Certified copies of the Bachelor degree certificate and Transcripts of Records; certified translations of the above certificates into English;</li> <li>• Proof of English language proficiency according to application requirements;</li> <li>• Certificate of enrolment for the Master study programme at University of Sara-jevo (if necessary, certified translation of the certificate into English);</li> <li>• Up-to-date passport photo;</li> <li>• Motivation letter (maximum one page);</li> <li>• If available, proof of professional training or work experience, internships or similar activities relevant to the study programme.</li> </ul> <p><b>Please submit complete documents to the Programme Coordinator at UNSA no later than Oct. 15. Further information can be found at <a href="http://www.enter-study.eu">www.enter-study.eu</a>.</b></p>

## 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 <a href="#">here</a> .	<ul style="list-style-type: none"> <li>• Apply for the student visa at the German diplomatic mission in Bosnia-Herzegovina.</li> <li>• After you enter Germany, apply for a residence permit at the Alien Registration Office in Freiberg within first 3 months.</li> <li>• Further details can be found <a href="#">here</a>.</li> </ul>
Health Insurance	Everyone must have a private health insurance for the complete study duration. The costs will be covered in full. Please contact your TU Freiberg coordinator for details.	
	Further details about health insurance in Finland can be found <a href="#">here</a> .	Further details about health insurance in Germany can be found <a href="#">here</a> .
Housing	Accommodation is arranged by Lappeenranta Student Housing Foundation. Further details can be found <a href="#">here</a> .	<ul style="list-style-type: none"> <li>• Student dormitories provided by the Student Services Office (<a href="#">Studentenwerk Freiberg</a>)</li> <li>• <a href="#">Other possibilities</a></li> </ul>
Cost of Living	About 700 € per month (about 350 € for monthly rent and utilities). Further details can be found <a href="#">here</a> .	450 – 550 € per month, including: Rent and utilities: 170 – 280 € Food and clothing: 170 – 220 € Phone, internet and TV: 35 – 50 €
Services for Students	Additional services for students at LUT University can be found <a href="#">here</a> .	Additional services for students at TU Freiberg can be found <a href="#">here</a> .

## FURTHER CONTACTS

### Programme Coordinator:

prof. dr. Mugdim Pašić  
E-Mail: mugdim.pasic@mef.unsa.ba

### TU Freiberg Coordinator:

Mrs. Juliane Schneider  
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### LUT University Coordinator:

Mrs. Dr. Ritva Tuunila  
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