

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



Dnipro University of  
Technology, Ukraine (DUT)

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!

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## AN OVERVIEW OF THE CURRICULUM

Semester 1	Semester 2	Semester 3	Semester 4
Dnipro University of Technology	LUT University	TU Bergakademie Freiberg	Dnipro University of Technology
Sept. - Dec.	Jan. - May	Oct. - Mar.	Mar. - Aug.
Research of the medical engineering product parameters control reliability <b>(6 ECTS Credits)</b>	Current Issues in Enabling Technologies for Circular Economy <b>(5 ECTS Credits)</b>	Training in Particle Technology <b>(4 ECTS Credits)</b>	Master thesis will be jointly supervised by the three partner universities (one supervisor from DUT, one from LUT and one from TUBAF) and carries a total of <b>30 ECTS Credits.</b>
Computer research of details processing on multi-faceted CNC Machines <b>(9 ECTS Credits)</b>	Start-ups and Venture Formation <b>(6 ECTS Credits)</b>	Training in Endurance and Design <b>(6 ECTS Credits)</b>	
Optimization of cutting modes on CNC machines <b>(6 ECTS Credits)</b>	Knowledge Discovery and Process Data Analysis <b>(5 ECTS Credits)</b>	Project - Process Design Mineral Processing/ Recycling <b>(5 ECTS Credits)</b>	
Innovative experimental and theoretical research in the field of applied mechanics <b>(9 ECTS Credits)</b>	Process Intensification <b>(5 ECTS Credits)</b>	Sustainable Engineering <b>(4 ECTS Credits)</b>	
	Academic Entrepreneurship <b>(6 ECTS Credits)</b>	Conception of Process Equipment <b>(5 ECTS Credits)</b>	
	Integration of Product's Design, Sustainable Production and Material Selection* <b>(5 ECTS Credits)</b>	Process Development in Mechanical Process Engineering* <b>(4 ECTS Credits)</b>	
	Simulation, Laboratory Course* <b>(5 ECTS Credits)</b>	Recycling - Secondary Raw Materials* <b>(5 ECTS Credits)</b>	
	Fluid Dynamics in Chemical Engineering* <b>(5 ECTS Credits)</b>	Maintenance Engineering* <b>(4 ECTS Credits)</b>	
Advanced Course in Life Cycle Assessment* <b>(8 ECTS Credits)</b>			
Bioeconomy* <b>(5 ECTS Credits)</b>			
Development of New Sustainable Products and Solutions* <b>(5 ECTS Credits)</b>			
Power-to-X processes* <b>(5 ECTS Credits)</b>			

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

## THE INTERNATIONAL JOINT STUDY PROGRAMME

Diploma	Triple degree diploma: • DUT "Master of Applied Mechanics" • 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	September
Application Requirements	<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: 80 (90) for internet-based test or 550 for paper-based test;</li> <li>IELTS: 6.0 (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>
Scholarships	For up to 12 months' study-abroad periods respectively in Finland and in Germany, students can apply for the following Erasmus+ funding: <ul style="list-style-type: none"> <li>Monthly grant rate: 900€ (+250€ social top up for stud. with viewer opport.)</li> <li>One-time travel grant: 309€ (+108€ for green travelling by train, bus or carpool)</li> </ul> This will be examined by the International Offices of the partner universities.
Fees	<ul style="list-style-type: none"> <li>TUBAF: Semester fee 107€ × 4 semesters, Health insurance 28€ × 24 months</li> <li>LUT: Student healthcare fee 36.80€ (2nd semester), Semester fee 42€ (2nd, 4th&amp; 5th semesters, registration as attending), 3rd semester registration as non-attending required (50€ re-enrollment if not registered)</li> </ul>
Admission Documents at LUT University and TUBAF	<ul style="list-style-type: none"> <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 DUT (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>
	Further information can be found at <a href="http://www.enter-study.eu">www.enter-study.eu</a> .
	Please submit complete documents to the Programme Coordinator at DUT 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 <a href="#">here</a> .	Apply for a 6 month student visa at the German diplomatic mission in Ukraine. Further details can be found <a href="#">here</a> .	
Health Insurance	Everyone must have a private health insurance for the complete study duration. 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> .	Student dormitories provided by the Student Services Office ( <a href="#">Studentenwerk Freiberg</a> ) <u>Other possibilities</u>	
Cost of Living	About 700 € per month (about 350 € for monthly rent and utilities). Further details can be found <a href="#">here</a> .	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 <a href="#">here</a> .	Additional services for students at TU Freiberg can be found <a href="#">here</a> .	

## FURTHER CONTACTS

### Programme Coordinator:

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### TU Bergakademie Freiberg Coordinator:

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### LUT University Coordinator:

Dr. Maria Mamelkina  
E-Mail: [maria.mamelkina@lut.fi](mailto:maria.mamelkina@lut.fi)

