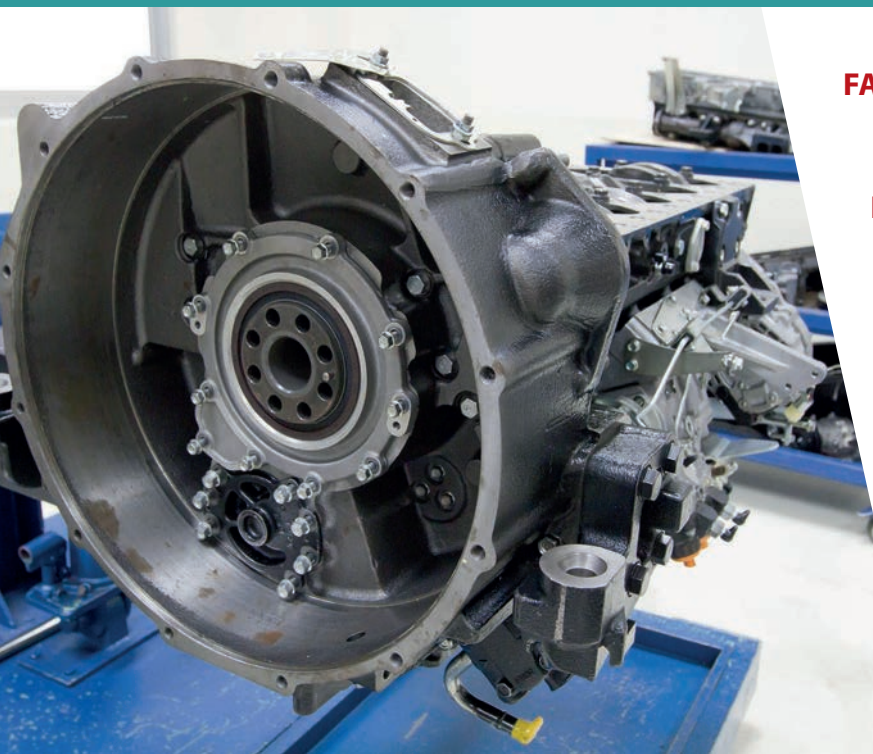




## Manufacturing Engineering



<b>FACULTY</b>	<i>Faculty of Machine Building</i>
<b>FIELD OF STUDY</b>	<i>Industrial Engineering</i>
<b>LANGUAGE</b>	<i>English</i>
<b>DEGREE AWARDED</b>	<i>Bachelor of Science (BSc)</i>
<b>DURATION</b>	<i>8 semesters/4 years</i>
<b>CREDIT POINTS</b>	<i>240 ECTS</i>

### OBJECTIVES

The mission of the Manufacturing Engineering program is to foster the development of different branches of industrial manufacturing in connection with the trends of the national and world wide economy.

The main objective is to train highly qualified specialists in the field of manufacturing technologies.

Considering the curricula of the program, the training of the students in many branches of manufacturing is ensured and this is a strong necessity in a globalised market.

The lectures and applications are in English and this is a great advantage for working in multinational companies.

## GRADUATES

- Making calculations, demonstrations and applications to fulfill tasks specific to industrial engineering on the basis of the fundamental disciplines.
- Combination of knowledge, principles and methods of technical sciences field with graphics, for solving specific tasks.
- Using software applications and digital technologies for solving specific tasks of industrial engineering in general, and particularly, in aided design products.
- Develop manufacturing processes.
- Design and maintenance of the manufacturing equipment.
- Planning, management and quality assurance of the manufacturing processes.

## MAIN TEACHING AREAS

Mathematics, Physics, Chemistry, Technical Drawing, Computer Programming, Language and Linguistics Literature, Sports, Materials Science, Mechanics, Manufacturing Basics, Electrotechnics and Electrical Machine, Mechanism, Strength of Materials, Machine Elements, Tolerances and Dimensional Control, Heat Treatment, Thermotechnics, Fluid Mechanics, Fundamentals of Cutting and Surface Generation, Computer Aided Graphics, Product Design, Machine Tools, Statistics, Cutting Processing Technologies, Rapid Prototyping, CAD, CAM, Nonconventional Technologies, Finite Element Analysis, Ecology of Manufacturing Systems, Machine for Plastic Deformation, Fundamentals of Metal Forming, Metal Forming Technologies, Welding, Plastic Materials, Composite Materials, Cold Technique, Design of Devices, CNC Technologies, Logistics, Quality Control, Management, Quality Management, Marketing, Reliability and Maintenance.

## ADMISSION REQUIREMENTS AND PROCESS, TUITION FEES

Check the information posted on the International Relations Office:  
[http://bri.utcluj.ro/RI2\\_en/admitere\\_eu\\_neu.php](http://bri.utcluj.ro/RI2_en/admitere_eu_neu.php)

## INDUSTRIAL / ACADEMIC PARTNERS

Academic partners: University in Loughborough – England, Aachen University – Germany, University of Stuttgart – Germany, Poznan University of Technology – Poland, University of Rijeka – Croatia, University of Calabria – Italy, University of Osijek – Croatia

Industrial partners: Sinterom SA, Transimont SRL, Porsche Engineering Romania SRL, Emerson SRL, Gemil Grup SRL, Napomar SA, Fibrex Co SRL, Bielomatik SA, Guhring SRL, NIDEC, Continental, Silcotub SA, Siemens SRL, Comelf SA, Eckerle Automotive SRL, Armatura SA, Auto Nova SRL

## JOB OPENINGS

Manufacturing engineer, Production engineer, Mechanical engineer, Manufacturing process manager, Company manager, Designer for equipment, devices, moulds and technologies, Equipment programmer, CAD engineer, CAM engineer, Supply assurance engineer, Quality engineer, Teacher in industrial high schools.

## CONTACT

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