Material and Energy Flow Management
Is a tool to effectively use natural resources, to achieve energy independence and to build an environmentally friendly society

Serbian MEM Programme

The aim of the study programme is to train professionals to solve practical problems and to organize original and relevant scientific research in respect to technological, economical and social demands with the aim of increased energy efficiency and reduced waste flows, considering environmental protection and the zero-emission concept.

German MEM/IMAT Programme

The practical approach of the study programme challenges the students to develop projects and eco-entrepreneurial business ideas and to collect relevant, practical experience through close cooperation with small and medium sized enterprises.

Advantages of graduate students

Educated experts on master level, based on great German experience, will be able to enhance energy, water, and resource efficiency and to build environmentally friendly environment.
The acquired knowledge from practical examples in Germany will help them to create innovative solutions for industry and municipalities in Serbia.

www.memflows.com

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European Commission
TEMPUS

INTERNATIONAL
DUAL DEGREE PROGRAMME
German-Serbian Dual Master Degree

MATERIAL AND ENERGY FLOW MANAGEMENT

Education of young professionals in "green business opportunities"
Innovative profession for efficient industry, municipality and society

www.memflows.com

International dual degree master programme

with two Serbian universities,
University of Novi Sad/Faculty of Technology Novi Sad and University of Niš/Faculty of Technology Leskovac
and
Trier University of Applied Sciences, Institute for Applied Material Flow Management (IfaS) in Birkenfeld, Germany

The 1st year will be held at Serbian universities (Novi Sad or Niš) and the 2nd year at IfaS, Germany.
After completing the entire study programme, the students will receive a dual M.Sc./M.Eng. degree.
However, after completing the 1 year programme in Serbia, a M.Sc. degree of University of Novi Sad or University of Niš can be obtained.

1st year

ECOSYSTEM MANAGEMENT
INDUSTRIAL MATERIAL FLOW MANAGEMENT
INDUSTRIAL ECOLOGY & ZERO EMISSION
ENGINEERING PRINCIPLES OF SUSTAINABLE
WATER AND ENERGY MANAGEMENT

ELECTIVE COURSE 1
BUSINESS PLAN DEVELOPMENT
PROJECT PLANNING AND DEVELOPMENT

ELECTIVE COURSE 2
SYSTEM CHANGE MANAGEMENT
BUSINESS COMMUNICATION

ELECTIVE COURSE 3
Faculty of Technology Novi Sad
OPTIMIZATION OF INDUSTRIAL SYSTEMS
ENVIRONMENTAL IMPACT ASSESSMENT

Faculty of Technology Leskovac
PRINCIPLES OF SUSTAINABLE DEVELOPMENT
ENVIRONMENTAL IMPACT ASSESSMENT

ELECTIVE COURSE 4
Faculty of Technology Novi Sad
ENERGY MONITORING
RISK ASSESSMENT OF INDUSTRIAL SYSTEMS

Faculty of Technology Leskovac
ENVIRONMENTAL MONITORING
HAZARDOUS WASTE MANAGEMENT

INTERNSHIP

MASTER THESIS

2nd year

Session course
Regional Material flow management
Regional Development Strategies
Regional Material Flow Management:
Conceptional approach and
international case studies

SUSTAINABLE WATER MANAGEMENT
SUSTAINABLE WATER MANAGEMENT: FUTURE CHALLENGES AND BEST PRACTICES

ENERGY SYSTEM MANAGEMENT
ENERGY SYSTEM DESIGN:
FUTURE CHALLENGES AND STRATEGIES

RENEWABLE ENERGY
AND ENERGY EFFICIENCY

SUSTAINABLE WASTE AND
RESOURCE MANAGEMENT

TECHNICAL ASPECTS
OF DE-CARBONISING STRATEGIES
GREENHOUSE GAS ABATEMENT STRATEGIES
AND CARBON TRADING
MODELLING CARBON FOOTPRINTS

SELECTIVES

INTERNSHIP

MASTER THESIS