

# Faculty of Mechanical Engineering, University of Niš





# Throughout History

- **1960 Faculty of Engineering in Niš**
  - Department of Mechanical Engineering
- **1965 University of Niš**
- **1971 Faculty of Mechanical Engineering in Niš began working as an independent faculty**



# University of Niš

1. Faculty of Civil Engineering and Architecture
2. Faculty of Economics
3. Faculty of Electronic Engineering
4. Faculty of Mechanical Engineering
5. Faculty of Medicine
6. Faculty of Law
7. Faculty of Science and Mathematics
8. Faculty of Technology
9. Teacher-Training Faculty
10. Faculty of Occupational Safety
11. Faculty of Physical Culture
12. Faculty of Arts
13. Faculty of Philosophy



# EMPLOYEE STRUCTURE

- **56 TEACHERS AND 35 ASSOCIATES**
  - 27 Full professors
  - 12 Associate professors
  - 15 Assistant professors
  - 34 Teaching assistants
  - 1 Junior teaching assistant
  - 1 Skill lecturer
- Numerous teachers and associates from other faculties and from the industry
- 62 non-teaching workers
  - 15 expert associates



# Work Results of the FMEN

- **5160 students have graduated**
  - 3870 graduate mechanical engineers
  - 1290 mechanical engineers
- **180 Magisters of Mechanical Engineering**
- **107 Doctors of Philosophy**
- **A large number of projects and studies for the industry, research and attestation of various products**





# FACULTY ORGANISATION

- Teaching and scientific units (Departments and teaching laboratories)
- Institute for Mechanical Engineering (projects, centres, accredited laboratories, and other)
- Information system (computer centre, public relations centre, publishing centre, library)
- Innovation Centre for the Development and Application of Information Technologies
- Regional Centre for Energy Efficiency
- Training Centre
- District heating system
- Sector for Human and Material Resources.



# Departments

1. Department of Natural and Mathematical Sciences
2. Department of Mechanics
3. Department of Thermal Engineering, Thermoenergetics, and Process Engineering
4. Department of Hydroenergetics
5. Department of Mechanical Constructions, Development, and Engineering
6. Department of Production Information Technologies and Management
7. Department of Social Sciences
8. Department of Mechatronics and Control
9. Department of Transport Engineering and Logistics



# Teaching Laboratories for

- EXPERIMENTAL MECHANICS
- PHYSICS
- THERMAL ENGINEERING AND THERMOENERGETICS
- POWER MATERIALS
- MOTORS AND MOTOR VEHICLES
- HYDRAULIC MACHINES
- MACHINE TOOLS AND MACHINING
- ENGINEERING MATERIALS
- SYSTEM CONTROL - LUPS
- AUTOMATION
- INTELLIGENT PRODUCTION SYSTEMS - LIPS
- TRANSFER OF NEW TECHNOLOGIES - TTC
- MECHANICAL CONSTRUCTIONS
- WELDING AND WELDED CONSTRUCTIONS
- TRANSPORT ENGINEERING
- MECHANISMS AND MACHINES
- MECHATRONICS
- ELECTRICAL ENGINEERING
- LOGISTICS





# Accredited within the Institute for Mechanical Engineering

- CENTRE FOR MOTORS AND MOTOR VEHICLES AS A CONTROL ORGANISATION
- Laboratory for Examining Pressure Gauges,
- Laboratory for Thermal Engineering, Thermoenergetics, and Process Engineering,
- Laboratory for Testing Materials and Machines,
- Laboratory for Machine Mechanisms,
- Laboratory for Transport Engineering,
- Laboratory for Hydraulic and Pneumatic Tests.



# Partnerships

- **A large number of companies**
- **Faculties in the country and abroad**



# International research and scientific projects in 2012.

- **Inter-sectoral Mobility of Researchers in South-Eastern Europe (I-SEEMob), FP7,**
- **JoRIEW—Improving capacity of Jordanian Research in Integrated Renewable Energy and Water supply, FP7,**
- **Enhancing The Outreach and Effectiveness of the Partners in the EURAXESS Services Network (EURAXESS T.O.P.), FP7,**
- **Bringing Western Balkans closer to Innovation Union: An example of EURAXESS Regional Collaboration, FP7,**
- **Application of workflow management technology in e-learning systems, Serbia – Slovenia bilateral project,**



# International research and scientific projects in 2012.

- **Technical Characteristics Researching of Modern Products in Machine Industry (Machine Design, Fluid Technics and Calculations) with the Purpose of Improvement Their Market Characteristics and Better Placement on the Market, CEEPUS,**
  - **Energy efficiency, renewable energy sources and environmental impacts - master study, TEMPUS,**
  - **Modern Computational Methods for Design of Environmentally Clean Energy Technologies, DAAD,**
  - **Sustainable development and competitiveness through increase of the energy efficiency by use of solar energy and smart systems, IPA,**
  - **Improvement of product development studies in Serbia and Bosnia and Herzegovina, TEMPUS,**
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# International research and scientific projects in 2012.

- **Conversion Courses for Unemployed University Graduates in Serbia (CONCUR), TEMPUS,**
- **National Platform for Knowledge Triangle in Serbia (KNOWTS), TEMPUS,**
- **Increase the competitiveness of enterprises by focusing on technology and know-how transfer between SMEs, research, industry and educational institutions in the sphere of energy efficiency, renewable energy sources and ICT for the Sofia and Nishava districts, IPA Bulgaria – Serbia,**
- **Energy efficiency in households – a long road or just a step away, IPA Bulgaria – Serbia,**
- **A Novel Approach for Human Detection and Tracking in Robotics, DAAD.**



# Domestic research and scientific projects in 2012.

	Number of projects		
	Projects leaders employed at FME Nis	Projects leaders not employed at FME Nis	Total
Basic Researches	<b>2</b>	<b>5</b>	<b>7</b>
Technologic. Develop.	<b>6</b>	<b>4</b>	<b>10</b>
Interdiscipl. Researches	<b>2</b>	<b>4</b>	<b>6</b>
Total	<b>10</b>	<b>13</b>	<b>23</b>