



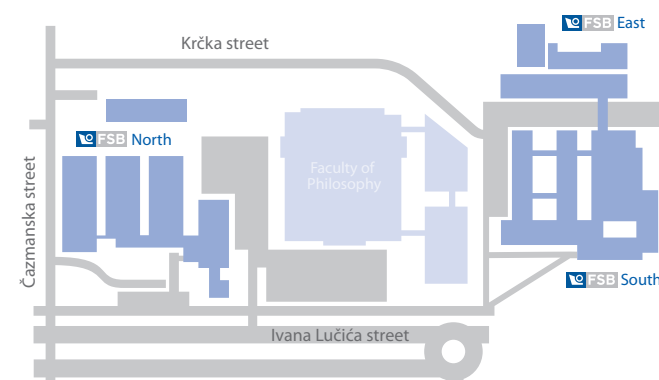
LIFE AT FSB

In addition to their teaching, scientific and professional obligations at  FSB, the teachers together with numerous students' associations are also involved in different sport and social activities, such as:

- The National University Regatta (with the participation of students of Croatian faculties of mechanical engineering, held since 1993)
- Sailing (University Nautical Club at FSB)
- Rafting
- Auto rally
- Karting
- Pivski kup – annual football competition (since 1951)
- FSB – Public Forums
- Student Newsletter I³
- Water bike
- Formula Student
- Unmanned aerial vehicle



 FSB is situated in Ivana Lučića Street. It has two locations: the northern building (Ivana Lučića 1) and the southern building (Ivana Lučića 5). Both locations are within a short walking distance from the Grada Vukovara Street which is easily accessed by tram. There is a modern student restaurant, one of the Student Centre restaurants, in the southern building.



www.fsb.hr

**FACULTY OF MECHANICAL ENGINEERING
AND NAVAL ARCHITECTURE**



University of Zagreb
Faculty of Mechanical Engineering and Naval Architecture

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University of Zagreb
Faculty of Mechanical Engineering
and Naval Architecture



EDUCATION

FSB is the oldest and the biggest faculty of mechanical engineering, naval architecture and aeronautical engineering in Croatia. Since 1919, when the first courses were organized at the Royal Technical College, the studies in mechanical engineering and naval architecture at the University of Zagreb have always been modern due to a successful synthesis of general and basic expert knowledge with expert knowledge in four fields: design, materials, production and organization. This orientation, now a tradition at **FSB**, has been accepted at numerous universities all over the world. The study programs and contents of courses make the curriculum of the Faculty comparable with the curricula of similar faculties of famous European universities, thus enabling **FSB** to be ranked highly among the leading technical faculties of the University of Zagreb and in Croatia.

FSB offers three levels of studies, i.e. undergraduate, graduate and postgraduate studies together with life-long learning programmes.

- **UNDERGRADUATE STUDIES** (7 semesters) offer basic knowledge in engineering and also specialist knowledge in mechanical and aeronautical engineering and in naval architecture. The studies of mechanical engineering include the following fields of specialization: Design, Thermal and Process Engineering, Production Engineering, Marine Engineering, Engineering Modelling and Computer Simulations, Computer Engineering, Industrial Engineering and Management, Materials Engineering, and Mechatronics and Robotics.
- **GRADUATE STUDIES** (3 semesters) are focused on the acquisition of knowledge and skills which enable the development and application of new technologies. Engineers who have graduated from **FSB** know how to work and communicate in a multidisciplinary environment. They use the obtained knowledge and engineering skills to analyse problems and to find optimum solutions both for the society and the environment. The international graduate study "Sustainable Energy Engineering", organized in co-operation with the Royal Institute of Technology – KTH in Stockholm, and the Universities of Padova and Rijeka, speak in favour of the **FSB** teaching staff excellence.
- **POSTGRADUATE STUDIES** (6 semesters) lead to a doctoral degree (PhD/DSc) and the postgraduate studies lasting 3 semesters to a Specialist degree. **FSB** is the only faculty in Croatia that can boast of such a wide choice of postgraduate programmes. Researches carried out at **FSB** cover all aspects of the technology development in mechanical and aeronautical engineering, and in naval architecture. Postgraduate studies at **FSB** connect the basic research and technology transfer.

An overview of students who have graduated from **FSB** and have obtained degrees since 1924:

	Engineers	Graduated engineers	Master's degree	Doctor's degree
Mechanical engineering	2774	10090	798	325
Naval architecture	26	1343	68	58
Aeronautical engineering		56		

FSB has a history of almost 90 years:

- 1919.** The **Royal Technical College** was founded in Zagreb.
- 1926.** The Royal Technical College became the **Technical Faculty**.
- 1956.** The Technical Faculty was divided into independent technical faculties, and one of them was the **Faculty of Mechanical Engineering and Naval Architecture**.
- 1967.** The Faculty of Mechanical Engineering and Naval Architecture and the Post-Secondary Technical School merged into one institution, i.e. the **Faculty of Mechanical Engineering and Naval Architecture (FSB)** of the University of Zagreb.
- 1995.** The first generation of students enrolled in the study of **Aeronautical Engineering**
- 2003.** The first generation of students enrolled in the studies of mechanical engineering, naval architecture and aeronautical engineering according to the Bologna Convention. **FSB** was among the first faculties to adopt the new scheme of studying at the undergraduate and graduate levels according to the modern trends accepted by most European countries.

SCIENTIFIC RESEARCH

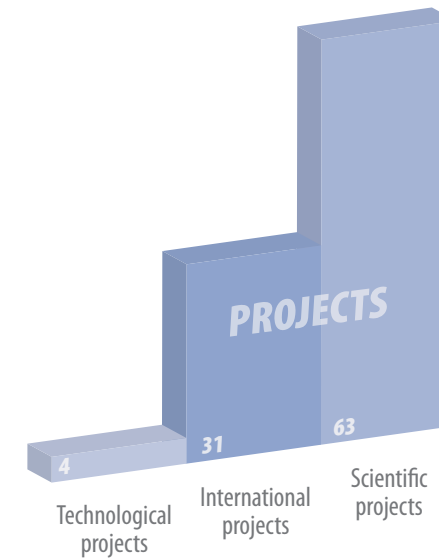
Scientific research carried out at universities gives a significant contribution to the social and economic development of the country. In view of that vital role of the university, the **FSB** scientists have to give their continuous contribution to the creativity and innovativeness of the society.

FSB can take pride in a number of firms which are competitive on the world market owing to the synergy between the scientific research and the application of results. Research work at **FSB** is supported by the Croatian Ministry of Science, Education and Sports, by the National Science Foundation, and also by industry through technological projects. The excellence of **FSB** is confirmed by an ever-growing number of international projects.

Research results obtained at **FSB** are published in scientific and professional journals and in conference proceedings, and the **FSB** publishing activities have resulted in a great number of university textbooks.

FSB library (with the area of 640 m²) with its 80 000 volumes and subscriptions to a great number of world journals provides good access to the latest world achievements.

FSB takes great pride in having four members of the Croatian Academy of Science and Arts among the employed scientists.



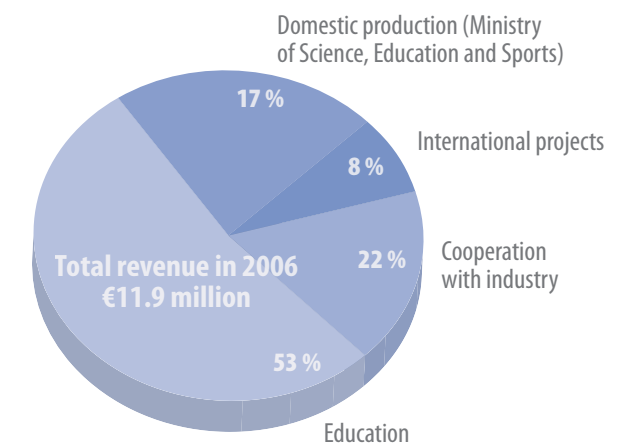
FSB SCIENTIFIC PUBLICATIONS

	2005	2006
In journals	78	101
At international conferences	314	256
Books	19	15

COOPERATION WITH INDUSTRY

The application of new technologies requires a continuous acquisition of knowledge. Lifelong learning is a guideline of engineering professions. **FSB** organizes a top quality specialist training for engineers and technicians through seminars adapted to the lifelong learning concept.

The research and educational potential of **FSB** is in 13 departments, 3 independent chairs and 41 laboratories. At the same time, this potential is the basis of cooperation between **FSB** and industry, which amounts to one fourth of the industrial activity **FSB** is involved in.



At **FSB** there are four national calibration laboratories (length, pressure, temperature and force) with European accreditation. In addition, **FSB** is the only institution in the continental part of Croatia with a laboratory of sustainable energy sources.

EMPLOYEES (total number of employees: 412)

