LIFE AT FSB

In addition to their teaching, scientific and professional obligations, 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 I
- 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.
EDUCATION

The Technical Faculty of the University of Zagreb 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 the Technical Faculty, has been accepted at numerous universities all over the world. The study programs and courses make the curriculum of the Faculty comparable with the curricula of similar faculties of famous European universities, thus enabling the students to be ranked highly among the leading technical faculties of the University of Zagreb and in Croatia. The Faculty offers three levels of studies, i.e. undergraduate, graduate and postgraduate studies together with lifelong 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, 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 the Faculty know how to work and communicate in a multidisciplinary environment. They use the obtained knowledge and engineering skills to solve 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 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. The Faculty is the only faculty in Croatia that can boast of such a wide choice of postgraduate programmes. Researches carried out at the Faculty cover all aspects of the technology development in mechanical and aeronautical engineering, and in naval architecture. Postgraduate studies at the Faculty connect the basic research and technology transfer.

An overview of students who have graduated from the Faculty and have obtained degrees since 1924:

<table>
<thead>
<tr>
<th>Branch</th>
<th>Graduates</th>
<th>Masters' degree</th>
<th>Doctor's degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical engineering</td>
<td>274</td>
<td>10090</td>
<td>798</td>
</tr>
<tr>
<td>Naval architecture</td>
<td>26</td>
<td>1343</td>
<td>68</td>
</tr>
<tr>
<td>Aeronautical engineering</td>
<td>96</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Faculty of Mechanical Engineering and Naval Architecture (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.
2002. The first generation of students enrolled in the studies of mechanical engineering, naval architecture and aeronautical engineering according to the Bologna Convention.

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 Faculty of Mechanical Engineering and Naval Architecture (FSB) scientists have to give their continuous contribution to the creativity and innovativeness of the society. Engineers who have graduated from 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 the Faculty 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 the Faculty is confirmed by an ever-growing number of international projects.

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 the Faculty and industry, which amounts to one fourth of the industrial activity.

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 international projects.