The current training profile of the Faculty of Mechanical Engineering:

**Advanced vocational training** (4 semesters)
(Full time training; the school offers the opportunity to continue these studies as a BSc course)
- **Audiovisual Assistant**

**BSc courses** (7 semesters)
(Full time, correspondence and distance-learning forms; students with BSc degree can continue studies through the school’s Master program)
- **Mechanical Engineering** • **Mechatronical Engineering** • **Mechanical Engineering in Agriculture and Food Industry** • **Engineering Management**

**MSc Courses** (4 Semesters)
(Full time, correspondence and distance-learning forms; for students with BSc degrees issued by our school or issued by other universities in similar scientific fields there is opportunity to continue their studies through our MSc programs)
- **Mechanical Engineering** • **Mechanical Engineering in Agriculture and Food Industry** • **Building Engineering**

**Specialized post-graduate trainings** (3-4 semesters)
(correspondence forms)
- **quality management** • **environment protection** • **energy management** • **maintenance of settlements**

**Doctoral (PhD) course** (3 years)
(For students with MSc degrees issued by our school or issued by other universities in similar scientific fields there is opportunity to continue their studies through our PhD program)
Scientific field:
- **engineering**

The current training profile of the Faculty has been developed from courses adapted to the technical needs of agricultural production and processes. The activities of the school and its predecessors have more than a 200-year-old history.

In 1950 the foundations for the Faculty of Mechanical Engineering were laid in Budapest as an independent college. From 1954 to 1958 it served as a faculty in a
larger university. In 1969 the school moved to its current location in Gödöllő. Until 1993 the main educational and research profile of the Faculty was agricultural machinery. To this were added programs for translation and vehicle technical education in cooperation with other faculties, courses in communication technology at the college level and education of mechanical engineers at university and college levels.

Among the schools within the framework of Szent István University, the Faculty of Mechanical Engineering has increasingly targeted expanding instruction in the area of technical sciences. The faculty's offerings were further extended with engineering manager training in cooperation with other faculties, mechatronical engineering and self-reliant management of the development processes.

A balanced proportion of courses, research and active participation in everyday life has led to a versatile, well-prepared training and research staff, which provides a solid basis for high quality education. During the last few decades, extremely successful co-operation has been developed both within and outside of the school, with regular contacts in the scientific community, partner institutions and foreign universities.

**THE FACULTY IS A KEY INSTITUTION**

Since its founding, more than 7000 specialists have graduated from the school. They have been playing a very important role in the engineering life in Hungary, including the development of agricultural production and the raising of standards of living in the countryside. The faculty became a key institution within agro-engineering and established a doctoral (PhD) school for agro-engineering and engineering sciences.

The school was a pioneer with extramural engineer courses abroad, including training courses in Csíkszereda, Transylvania, and has provided methodological guidelines for other disciplines.

The proactive development of the Faculty of Mechanical Engineering is evidenced by new training projects, which were introduced at the school even before the Bologna process was implemented, such as:
two-step training
• double output training (the student can decide to go either for a college or to a university diploma during his/her studies)
• double training with teacher-engineer, technical translator or engineer-mathematician majors
• modular training within the ECTS [European Credit Transfer System] guidelines; both the training and the diploma issued meet the requirement of international equivalence
• Since 2000, the training has been implemented at five different levels: accredited post-secondary program (2 years), college training (3 years), university training (5 years), specialized postgraduate trainings (formerly specialized engineer training) and PhD training. The school established linear educational system (BSc, MSc and PhD) in 2005.

ACCORDING TO LABOR MARKET NEEDS

All countries with developed economies struggle with a lack of engineers. A degree in engineering and natural sciences can offer students a competitive edge and long term security in the labor market. As a result of the training they will be prepared to successfully solve problems of different technological, planning, manufacturing, constructing and operating tasks.

The program offerings of the Faculty of Mechanical Engineering are all developed to meet the ever changing requirements of the labor markets. Students can select from the following four independent major areas to meet their own goals and ambitions.
• mechanical engineering
• mechanical engineering in agriculture and food industry
• mechatronics engineering
• engineering management

The general mechanical engineering training, both at college and university level, is very popular. However, the Mechanical Engineering in Agriculture and Food Industry program gives graduates more opportunities to successfully find work in today’s dynamic labor markets.

The number and characteristics of activities related to agriculture has significantly changed in the past few decades. Besides agricultural production in a narrow sense, other activities have also gained importance - such as primary food processing and agricultural extension service. The realization of infrastructure in rural areas, the maintenance of settlements, land and water management, sewage treatment and emergency management in the case of a catastrophe all belong to the discipline of engineering in agriculture and food industry.

Mechatronics, as a profession, requires the integration of knowledge in technical engineering, information technology and electronics. With the knowledge obtained in this course, the engineers will be able to harmonize the needs of these...
three special fields to reach a common goal related to the creation and operation of mechatronical systems.

The engineering management training provides students with knowledge of – in addition to basic engineering – the disciplines of economics, finance, law and other social sciences.

**SPECIALIZATIONS**

The specializations within the study programs meet the various technical and intellectual training requirements demanded by everyday life. The direction in which the development of the school is headed is well-reflected by the special training fields such as environmental techniques and information technology engineering, which are offered in addition to the subjects of the traditional mechanical engineering curriculum - product and manufacturing development, machine design, logistics, vehicle techniques, etc.

The modern "Integrated Engineering Information Technology Training Centre" at the school serves the training objectives of all the programs and specializations. It introduces the integrated logistical process of design, manufacturing, distribution and machine use, thus making the mechanical trainings of Gödöllő unique.

The international relations of the school enable the students and teachers to spend shorter or longer periods abroad, and to launch joint research and development programs with foreign partners.

Among the research projects of the school, high priority is given to the questions of quality assurance and labor standards, computer-aided engineering activities, alternative energy, environmental engineering and the fields of traditional agricultural engineering and economics.

**THE VALUE OF THE DIPLOMA**

The training at the Faculty of Mechanical Engineering and the issued diploma are recognized both nationally and internationally. It is highly respected, so that graduates are welcomed in the job market with good career opportunities.