Despite changes in its organizational framework, GAMF has retained its core values for more than 50 years, namely: honouring a commitment to high-level training of engineering and computer science professionals; facilitating broad cooperation with economic actors, while drawing from the latest knowledge and trends in innovation; and cultivating an environment for students that enhances learning, inspires the gifted, and helps those who are falling behind.

Why choose the Faculty of Engineering and Computer Science (GAMF)?

“Wherever we look in Hungary — whether at big companies or, just as often, at small and medium-sized enterprises — we see mechanical engineers, technical managers, IT engineers and vehicle engineers who are GAMF graduates, and who are often employed in top positions or manage their own companies or businesses. Over the past five decades, GAMF has become a trademark that provides not only great credentials for its graduates, but represents state-of-the-art expertise and competencies to develop and self-educate. Based on the German example, the Faculty – as a torch-bearer in Hungary – introduced in 2012 the dual-training system, developed in close cooperation with its business partners. This system is able to meet shifting economic expectations in a more flexible way than other training systems used previously. Since then, the 'Kecskemét model' has emerged as an example to follow on a countrywide basis. Our achievements reflect a wide-ranging partnership: SMEs, big companies, professional organisations and local municipalities form the 'tissue' that guarantees a common and successful future."

— Lóránt Kovács, PhD, dean and college professor

Faculty location and environs

In addition to educational buildings, workshops and laboratories, the Faculty campus, located near the city centre, hosts a library, a sports hall and various sporting grounds. The main hall of the central educational building, the IT space of the library, and a landscaped and shaded courtyard all provide community-friendly areas for socialising. In recent years, the Faculty has benefited from several billions of Hungarian forints' worth of EU funding: workshops and laboratories have been upgraded to modern standards, and new tools and equipment have been procured.

BSc course

Bachelor's programme in mechanical engineering

The aims of this programme are to familiarise students with the applications of technical sciences insofar as they relate to mechanical engineering tasks and the practical achievements of a selected professional field, and to assist students in developing the skills necessary to put these applications to use. Our graduates will be qualified to find employment with SMEs or big companies involved in manufacturing and assembling, engineering firms engaged in technical development and research, and organisations
specialising in technical consultancy.

“Our goal is to continuously adapt our training to current industry demands. This can be achieved only if our students are provided a most-thorough knowledge and hands-on training from the best possible teaching faculty, and while using the most modern equipment. Thanks to this approach, almost 90 per cent of our students are actively employed by the time of their final examinations.”

— János Líska, PhD, associate college professor, head of programme

“Theoretical education prepares us to look at and understand the surrounding world through the eyes of an engineer. This is completed through pragmatic training and use of the Faculty’s supply of unique and modern machinery.”

— Zoltán Dankó, mechanical engineering student

Bachelor’s programme in vehicle engineering

Our goal is to train vehicle engineers who will be able to solve basic engineering tasks related to the design, manufacturing, systemic operation and repair of road-vehicle systems and mobile machines, taking into consideration aspects of safety, environmental protection, and energy management. It is important for our students to possess an interest in natural sciences, to be diligent, and to have a “team player” attitude, as well as a positive approach to acquiring new knowledge.

“Our graduates are professionals who are much sought after by automotive manufacturers, parts suppliers, public transport companies and fleet operators, where they fulfil middle- and top-level managerial positions in the fields of manufacturing and operation.”

— Pál Lukács, PhD, college professor, head of department, head of programme

“I always like to think back on my university years, which provided a familial atmosphere and harmonious relationships with the industrial operators. There are many opportunities to take part in projects and gain experience, which gives us a head-start in real life as marketable engineers.”

— Attila Tímári, vehicle engineering programme graduate

Bachelor’s programme in logistics engineering

Our goal is to train engineers who, equipped with professionally relevant knowledge in natural sciences — in addition to technical, economic, management, IT, industrial and transport technologies — will be able to reasonably analyse, organise and manage logistics processes and systems that can ensure reliable material and information flows within and between companies. Graduates can also contribute in the fields of manufacturing and quality assurance of logistics machinery, tools and equipment, and manage their related operations. The programme also offers specialised training in production logistics — training that is unavailable elsewhere in Hungary.
“A trained logistics engineer can find a job at various points of the supply chain. What is paramount, however, is that future logisticians should be passionate about addressing complex challenges and finding solutions to complex problems.”

— Zoltán Lelkes PhD, senior research fellow, head of programme

“I’m glad to be able to learn this profession here. While the skills are much sought after, the work is extremely versatile, so things will never become dull.”

— Zsaklin Kovács, logistics engineering student

Bachelor’s programme in IT engineering

“Students can learn about the structure and operation of computers and computer systems; software development and operation; the design, structure and operation of computer networks; modern industrial IT applications, such as the programming of industrial robots, the development of industrial information systems and the application of artificial intelligence; professional mobile and web development, and use of the latest technologies both at the individual and the corporate level.”

— Zsolt Csaba Johanyák, PhD, academic vice-dean, college professor, head of programme

This training is not geared for those whose intrigue is limited to the theoretical beauties of information science, but for those who wish also to acquire hands-on expertise that is readily applicable in the private sector.

“The knowledge to be obtained in this programme can be readily applied in practice. Besides my academic commitments, I am working on several developments of my own — for example, a Rubik’s Cube application that can assist those who are visually impaired in solving the puzzle.”

— Kristóf Muhi, IT engineering student

Bachelor’s programme in technical management

The aim of this programme is to equip professionals with appropriate knowledge in the domains of natural science, technology, business and management science in order to provide integrated solutions for tasks to be tackled within material, IT, financial, and HR processes related to products and services.

“Our graduates can find jobs within a broad spectrum: with industrial manufacturers or service providers, as well as in the public sector, public administration, public institutions and local municipalities.

— Tibor Ferenczy, PhD, college professor, head of department, head of programme

“I am glad to have chosen this programme. I would heartily recommend it anyone who would like to enter the labour market with an attractive degree.”
DEPARTEMENTS

Department of Materials Technology

The Faculty’s educational and research activities cover the most state-of-the-art materials in use today, while also examining their properties and related technologies. It is of paramount importance that our students acquire not only theoretical knowledge, but obtain pragmatic know-how as well through easy access to materials, machines and equipment.

Department of Vehicle Technologies

We place a major emphasis on practice-oriented teaching. This objective is supported by our modern and extensive pool of equipment, and by faculty members with close ties to the industry. Continuous renewal, the providing of up-to-date solutions, and the assurance of lifelong learning for our Faculty members are paramount for us. We work in continuous cooperation both with our dual partners and the automotive manufacturer and supplier that honours us with its confidence.

Department of Management Science and Logistics

This department participates in the education of all students attending any of the GAMF study programmes. Our students prepare their thesis work on topical and pragmatic issues at leading industrial firms. Of the four postgraduate specialist trainings that our Faculty offers, we supervise three: for manager specialist engineers, quality-systems specialist engineers, and logistics specialist engineers.

Department of Information Technology

Our core activities are education, research, and development. In the domain of education, our primary goal is to provide students with up-to-date and readily applicable knowledge so that they are able to solve IT assignments in the fields of software development, safe system operation, and management of industrial processes.

Department of Natural Sciences and Engineering

This department is in charge of teaching the core subjects in natural sciences and engineering. The main subjects taught are: Technical Representation, Machine Elements, Mechanics, CAD, Physics, Thermodynamics, Fluid Mechanics, Electrical Engineering, Analysis, Mathematical Foundations of Computer Science, Probability Theory, and Statistics.
Higher vocational training programmes

Information engineering (system administration)

“Our graduates will be able, among others, to design and set up computer systems, to implement server-side administration in a corporate environment, to install and configure various operating systems, to use basic web-programming and web-design competencies, and to design, monitor and administrate project tasks.”

— Attila Pásztor, PhD, college professor, head of programme

“Since students attending higher vocational training programmes receive the same quality of training as BSc students, these training programmes develop excellent professionals in as little as two years’ time, thus strengthening the labour market.”

— István Panyik, information engineering student now attending a higher vocational training programme

Software engineering (development)

Our goal is to train professionals who will be able to take part in the design, development, operation and maintenance of hardware and software systems, and to have the cooperative, communicative and presentation skills necessary for team work.

“Through the use of modern technologies, developer software engineering assistants can contribute to the design and development processes of complex software, web applications, mobile applications and database systems.”

Rafael Pedro Alvarez Gil, PhD, college professor, head of programme

“During my studies I acquired a sound knowledge base that I can build upon. I met highly knowledgeable teachers and made some new friends.”

— Viktor Széll, software engineering student now attending a higher vocational training programme

Students of any major can take part in dual training system with large, medium or small companies and banks. The faculty has got popular accredited vocational training courses and postgraduate training programmes in the field of mechanical engineering.

Unique features

The vehicle constructing teams of the Faculty are famous world-wide due to their achievements in different categories of energy-saving vehicles.