

- FOCUS ON INFORMATICS- PLAN YOUR FUTURE WITH US! - FOCUS



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PÉCSI TUDOMÁNYEGYETEM
UNIVERSITY OF PÉCS





A handwritten signature in white ink, which appears to read "G. Medvegy".

DR. GABRIELLA MEDVEGY

Dean
University of Pécs
Faculty of Engineering
and Information Technology



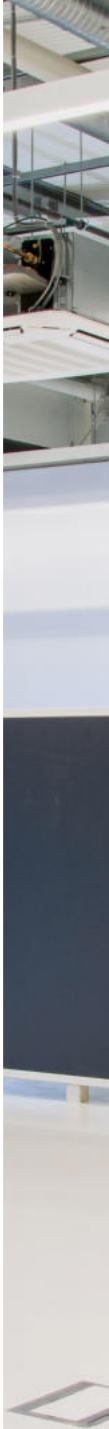
DEAR READER!

The Faculty of Engineering and Information Technology of the University of Pécs (UP) is one of the most dynamically developing engineering training institutions in Hungary. Its training palette presents almost the entire scale of technical sciences. The aim of this publication is to present our educational program focusing on innovative research work and practice-oriented training, our specialist training courses that can actively respond to market expectations, our international cooperation with almost every part of the world and our extensive corporate partner network.

Any creative, young people with technical interest, who want to be part of shaping our future, can benefit from the programs of our faculty. A modern 21st century lab background with continuous development of our institution's infrastructure welcomes the students. Today, the Faculty of Engineering and Information Technology in Pécs is one of the most colorful institutions of the Hungarian technical higher education, with 3000 students, several decades of experience, and a renewed, enlarged university campus. The Mediterranean climate, sparkling university life and multicultural atmosphere of Pécs offers a life-long experience for students living and studying here.

PLAN YOUR FUTURE WITH US! - UP FEIT a conscious choice

DEAN'S GREETING





Civil Engineering BSc
Mechanical Engineering BSc
Environmental Engineering BSc
Computer Science Engineering BSc
Electrical Engineering BSc

DUAL TRAINING



practical knowledge
professional competence
work experience
good job opportunity
business partners
cooperating companies
next generation of professionals
job opportunity

The essence of dual training is that theoretical and practical knowledge can be acquired simultaneously by the participants of the program in a marketable environment. The Faculty of Engineering and Information Technology of the University of Pécs was the first to start a dual training. With more than 5 years of experience, we are looking forward to receiving applications for this form of training in Civil Engineering, Mechanical Engineering, Environmental Engineering, Computer Science Engineering and Electrical Engineering.

Our partners include reliable and internationally renowned companies such as Matro, Viessmann or Hauni Hungaria.

Our partners in Electrical Engineering training include E.ON Dél-dunántúli Áramhálózati Zrt., KONKAT-Elektro Kft. and VIDEOTON Elektro-PLAST Kft.

Our main collaborators in the field of environmental engineering are BLOKOM Nonprofit Kft., Tettye Forrásház Zrt., GEOCHEM Földtani és Környezetvédelmi Kutató, Tanácsadó és Szolgáltató Kft.

In addition to our Computer Science Engineering major, besides several software development companies, IT Services Hungary Kft. and ESRI Hungary Kft provide a great assistance to our work.

We have contracted with over 80 companies, providing places for at least 160 students in the dual training.

In this way, our students have the opportunity to choose the most suitable companies of different sizes and profiles in relation to the given professional field and to gain professional experience and receive regular income in the framework of dual training.

The benefits of the dual training for students:
better labor market potential
financial independence during training
secure job opportunity
getting to know modern technologies and actual industrial processes

Degree

Bachelor of Science (BSc)

Programs

Civil Engineering BSc
Mechanical Engineering BSc
Environmental Engineering BSc
Computer Science Engineering BSc
Electrical Engineering BSc





Technical Engineer Assistant

Mechanical Engineering specialization I.

General Mechanical Engineering

Mechanical Engineering specialization 2

Comfort Engineering

Electrotechnology - Electronics specialization

Environment Protection - Water Management specialization

Light Industry specialization - Orthopedic Technician

Aircraft Pilot specialization

(in English, only in self-financed form)

Television Production

ADVANCED VOCATIONAL TRAINING

We train professionals with a higher education degree who create a bridge between skilled work and engineering work. The aim is to train professionals with a broad range of theoretical and, above all, employer-specific skills, in accordance with the specialization of the training, who can support the engineers and decision-makers at various companies and institutions.

It is the only training with a higher education technical degree in the region. 40-45% of training credits (49-54 credits depending on specialization) can be accredited for the corresponding BSc training.

Advanced vocational training is available to the candidate who has a score of 240 points, including plus points earned on A-level but no additional points. The score is calculated from the two best results in the Baccalaureate, certified by the candidate.

Specializations:

Mechanical Engineering specialization 1.

General Mechanical Engineering

Mechanical Engineering specialization 2.

Comfort Engineering

Electrotechnology-Electronics specialization

Environment Protection - Water Management spec.

Light Industry specialization - orthopedic technician

Aircraft Pilot specialization*

(in English, only in self-financed form)

Languages

Hungarian/English*

Level of training

advanced vocational training

Form of training

full-time training

Duration of training

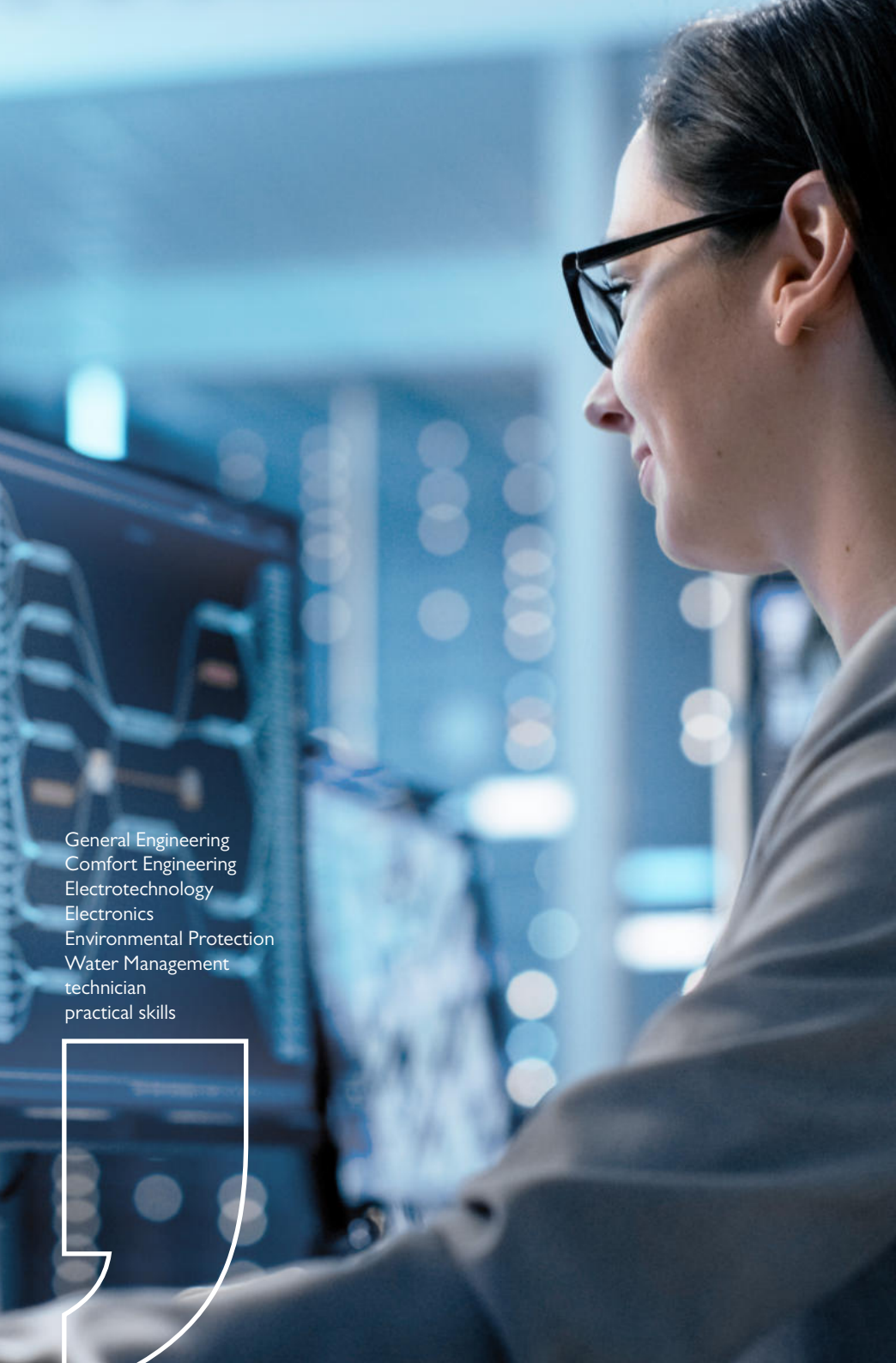
4 semesters

(3 academic semesters + 1 professional practice)

Financing form

state-funded

self-financed

A woman with dark hair and glasses, wearing a grey shirt, is shown in profile, looking at a computer monitor. The background is a server room with blue lighting and blurred server racks. The text is overlaid on the left side of the image.

General Engineering
Comfort Engineering
Electrotechnology
Electronics
Environmental Protection
Water Management
technician
practical skills





visual communication
practical skills
social media
digitization
teamwork
filming opportunities
crew duties
photography
studio work

Television production today is much more than producing video content for television or conducting live television broadcasts.

In addition to preparing our students for both the freeze-frame and the motion picture imaging, we train professionals who are experts in television and on-line media and have a wide range of technical, communication and social science skills.

Today's Internet communication tasks and visual challenges require content creators to be professional, therefore our students will be familiar not only with the technical implementation of the mass media and social media videos, but also with the practice in production. We feel it is important that our students understand the essence of teamwork, the editorial work schedule, so they work in teams from the very beginning.

Our external professional partners in our practice-oriented training are editorial offices, on-line news portals and media companies working in content services. As a result, our students will be able to work independently by the end of the training.

Languages

Hungarian

Level of training

advanced vocational training

Duration of training

4 semesters

(3 academic semesters + 1 professional practice)

Form of training

full-time training

Financing form

state-funded

self-financed





Architectural Art BA
Architectural Engineering BSc
Civil Engineering BSc
Mechanical Engineering BSc
Industrial Design Engineering BSc
Environmental Engineering BSc
Computer Science Engineering BSc
Electrical Engineering BSc

BACHELOR'S PROGRAMS

The uniqueness of the architecture training in Pécs lies in the fact that it covers the architectural sciences as well as architectural art.

The distinctive feature of architecture is that art and engineering science are inextricably linked together in it. The aim of our training is to convey artistic as well as engineering knowledge to our students.

The personal relationship between student and professor is at the heart of the acquisition and transfer of knowledge.

Architectural artists are able to apply the achievements of architecture, interior design and furniture design within one task. They can create their plan on a high professional level with original ideas from the installation plan through building construction to interior design details.

Continuous renovation of existing buildings, alteration of their internal contents and forms entails an increasing demand for interior designers and designers.

Languages

Hungarian

Degree

Bachelor of Science (BA)

Continue in Master's program

Architectural Art MA

Duration of training

6 semesters (BA)

4 semesters (MA)

Form of training

full-time training

Financing form

state-funded

self-financed



drawing
color theory
shape theory
design
descriptive geometry
architectural design
interior design
building construction
art history
creative and theoretical studies



architectural design
building construction
architectural drawing
support structures
construction planning
construction technology
organization
building technology
geodesy
complex design
urban planning
landscape and garden design
interior architecture
mechanics
descriptive geometry



Our goal is to train architects who are capable of performing all the architectural and construction tasks of shaping the built environment. Within this, they also perform the architectural and structural planning tasks of buildings and building complexes. They plan, organize, manage and control their implementation. They carry out building maintenance and renovation tasks and perform monument protection tasks as well. They do theoretical, scientific and educational activities and manage construction and administrative work in their field.

Our approach is influenced by the internationally renowned Bauhaus artists, Marcell Breuer, Alfréd Forbát and Farkas Molnár. The architecture training in Pécs is shaped by openness to contemporary architecture, progressivity and attention to international trends.

„Energy Design”, is a new feature, a specialization, a research area and project work at the same time, and as a result, our students are learning the ecological approaches and methods that are important today.

This training is a ‚workshop-type training’. Due to this, a direct master-disciple relationship is about to develop, that is, students work together with their professors. The most talented students continue their studies at Marcell Breuer Doctoral School.

Languages

Hungarian

Degree

Bachelor of Science (BSc)

Continue in Master's program

Architecture MSc

Architectural Art MA

Urban Systems Engineering MSc

Duration of training

7 semesters (BSc)

4 semesters (MSc / MA)

Form of training

full-time training

correspondence training

Financing form

state-funded

self-financed

With our BSc program, we provide a good basis for getting to know and practicing the profession of civil engineering. The training's quality and up-to-date feature is enhanced by the fact that part of the training takes place in computer labs. There are several units within the Department of Civil Engineering, that, in addition to being active participants in international professional organizations have a broad industrial network. (Research Group of Structure Diagnostics and Analysis, and SMARTDIAG Intelligent Diagnostic Procedures Excellence Center.

Making the built environment sustainable and secure plays a major role in the work of the research team. Their purpose is to develop the necessary procedures and materials for their practical application. Another important area of their work is to reduce the negative environmental impacts of construction and maintenance.

Contact with industrial companies, the dual training, and joint participation at networking events with construction companies help students to gain marketable knowledge.

Languages

Hungarian/English

Degree

Bachelor of Science (BSc)

Continue in Master's program

Structural Engineering MSc

Duration of training

8 semesters (BSc)

3 semesters (MSc)

Form of training

full-time training

correspondence training

Financing form

state-funded

self-financed

Specialization

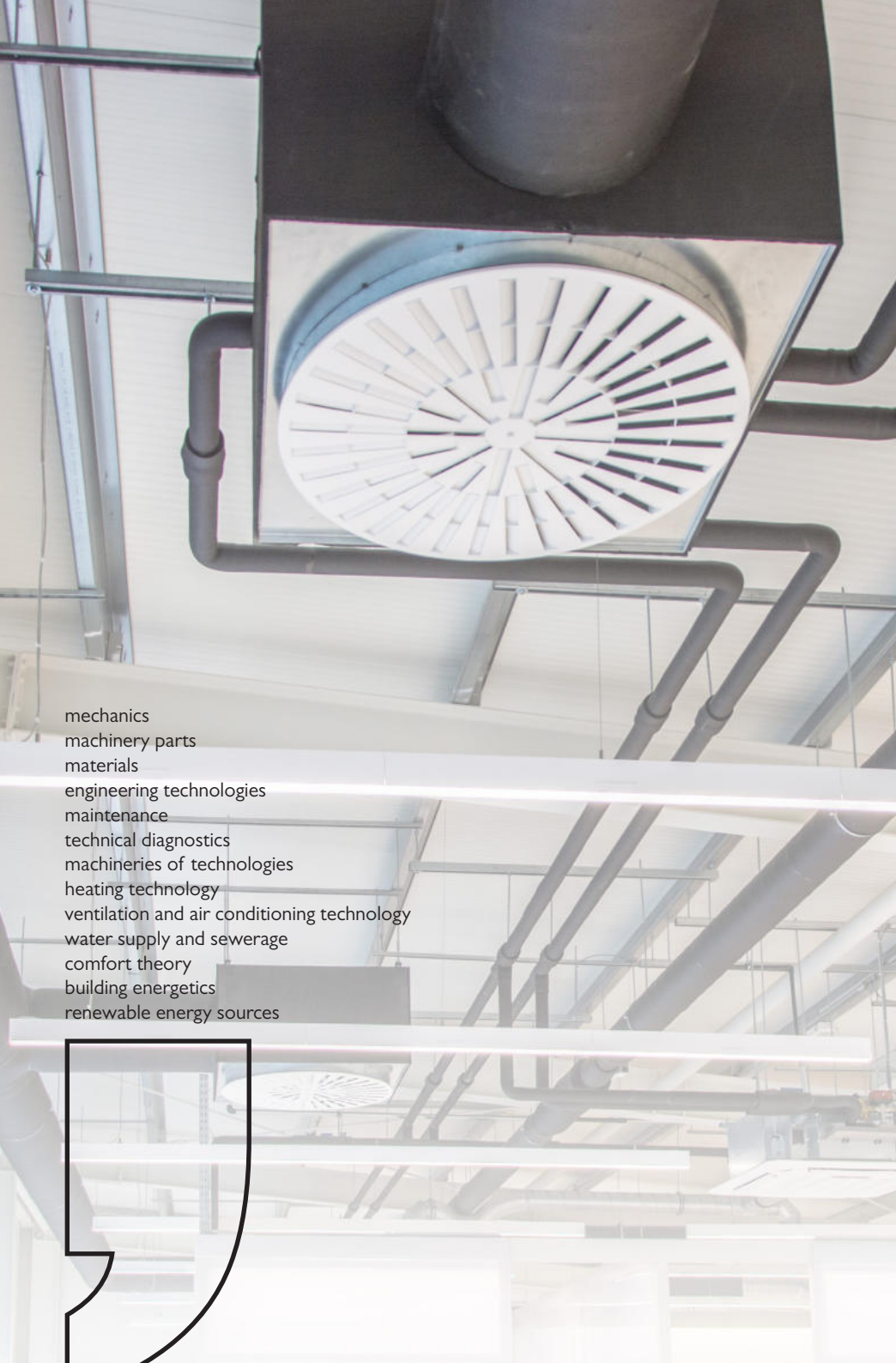
engineering structures

Also a dual course in full-time training.

Examples include Pollack EXPO, MIK Presentation Day, and presentations and conferences organized within the MIK Partners' Day.



mathematics
mechanics
descriptive geometry
geodesy
geoinformatics
soil mechanics
hydrology
hydraulic engineering
water management
public utilities
road construction
railway construction
steel structures
reinforced concrete structures
geoinformatics surveying practice
structural diagnostic lab practice
hydraulic engineering lab practice



mechanics
machinery parts
materials
engineering technologies
maintenance
technical diagnostics
machineries of technologies
heating technology
ventilation and air conditioning technology
water supply and sewerage
comfort theory
building energetics
renewable energy sources



The training of mechanical engineering in Pécs offers learning opportunities in three specialties. The mechanical engineers of mechanical design and process planning learn the tricks of designing and manufacturing a variety of mechanical components. After graduation, they can find a job at the engineering, operation, maintenance and sales areas of any industrial company.

Students in the field of building service engineering can acquire advanced knowledge for sustainable, energy and resource efficient design, construction and operation of building engineering systems that provide comfort or assist technology. Graduates will find a job at companies of building service engineering-planning as well as companies manufacturing and distributing building service engineering systems.

Practice orientation is a unique feature of our training. Our students find the latest novelties in the field in the most up-to-date laboratories in the country. They can be involved in the professors' research projects, and can get an insight into cooperative developments between engineering disciplines. By choosing the dual training, students can gain additional special practical knowledge at industrial companies. Our prospective mechanical engineer students can enter into study contracts with more than 20 regional dual partner companies. Mechanical engineers graduated in Pécs are very much in demand in Hungary as well as abroad. They are characterized by precision and independent problem solving, the love and respect of the profession.

Languages

Hungarian

Degree

Bachelor of Science (BSc)

Duration of training

7 semesters

Form of training

full-time training

correspondence training

Financing form

state-funded

self-financed

Specializations

building service engineer

mechanical design and process planning

Also a dual course in full-time training.

In our industrial design engineer program, classical engineering knowledge and designer skills are combined. This training belongs to mechanical engineering training and the Department of Mechanical Engineering. The Department of Interior, Applied and Creative Design also participates in the training.

Industrial design engineers design, manufacture and market industrial products. With their technical, aesthetic, human and economic knowledge, they can do independent creative work in all phases of product development. They comprehend the product development processes, the material and human resources they need, and they can manage the given product.

Languages

Hungarian

Degree

Bachelor of Science (BSc)

Duration of training

7 semesters

Form of training

full-time training

Financing form

state-funded
self-financed



graphic design
design
woodworking knowledge
ergonomics
machinery parts
consumer protection
integrated product design
technology of structural materials
packaging design
safety technology
descriptive geometry
computer design
engineering technologies
special technologies





metrology
energetics
public utilities
water management
air quality protection
waste management
noise and vibration abatement
renewable energies
water and wastewater treatment
environmental and landscape protection
environmental geology and soil conservation
environmental and technical fluid mechanics
settlement management
nuclear environmental protection



The aim of our training is to train environmental engineers with up-to-date technical, scientific and management knowledge, who are able to prevent, reduce, eliminate environmental damages and to implement low-waste and resource-efficient technologies independently, to use professional databases, designer and simulation softwares, to manage the implementation of social shift for resources of renewable energies and emission reduction. Our environmental engineers are able to find links between the technological processes and the given industries. Therefore, they can manage the development of the production units so that they can improve the state of the environment without losing their competitiveness.

The acquisition of knowledge is assisted by dual training, internship programs, high-quality lab background and a research base.

Our students can be involved in the work of our research groups, with the following topics being highlighted: Smart City Technologies (waste management, alternative raw material management, settlement management, non-destructive material testing); modern ecological water management and green space systems (water management on building and settlement level, green roofs, conventional and semi-natural wastewater treatment).

Our engineers most often find jobs at engineering firms, lab testing companies, general government, public administration and government agencies, municipal governments, construction companies, and operating specialist companies.

Languages

Hungarian

Degree

Bachelor of Science (BSc)

Duration of training

7 semesters

Form of training

full-time training

correspondence training

Financing form

state-funded

self-financed

Specializations

intelligent environmental technologies

renewable energies

nuclear environmental protection

Also a dual course in full-time training.

Everyday life is profoundly intertwined with information technology, we can see its increasingly prominent appearance and importance in almost every field of life and science.

Within the framework of the training, our students get acquainted with the installation and operation of the technical IT, information and infrastructure systems and services, as well as the design and development of their data and program systems. They acquire theoretical knowledge and practical skills in the technologies and tools used in information technology. With our computer science engineer training portfolio, we make every effort to meet the challenges of the rapidly changing, evolving IT market. In the specialization of Information technology of intelligent systems we are focusing on areas related to image processing, 3D technologies, simulation and artificial intelligence, autonomous systems and automation. In the System engineer specialization the emphasis is on subjects related to IT systems management, information security and data center development and design. Our master's program focuses on intelligent and multiprocessor systems. Many of our business partners support our education in the acquisition of practical skills, including the dual training, student scholarship schemes, and operation of external departments.

Languages

Hungarian/English

Degree

Bachelor of Science (BSc)

Continue in Master's program

Computer Science Engineering MSc

Duration of training

7 semesters (BSc)

4 semesters (MSc)

Form of training

full-time training

correspondence training

Financing form

state-funded

self-financed

Specializations

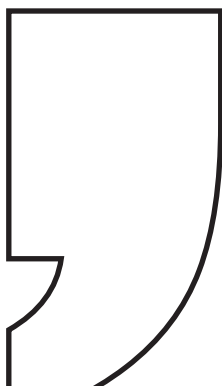
application development

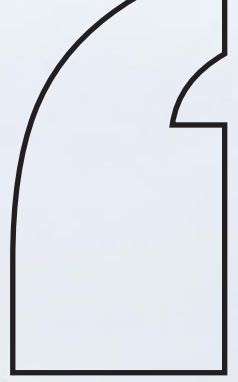
systems engineer

information technology of intelligent systems

Also a dual course in full-time training.

robotics
databases
IT security
programming
image processing
web programming
cloud technologies
software technology
autonomous systems
internet technologies
industrial informatics
network technologies
computer architectures





computer networks
microelectronic systems
power converters
operation of electrical equipment
building informatics
embedded programming
autonomous intelligent systems
microcomputers
metrology
electronics
digital technology
control engineering

The results of the extensive, innovative activity of electrical engineers have become an integral part of our everyday life. Various equipment, machines in our home, in transport and in industrial areas, and even some of the vehicles are already powered by electricity.

The design, programming and operation of smart buildings, vending machines, electric machines, robots, devices and telecommunication equipment are also carried out by electrical engineers. The diverse engineering challenges ensure that everyone can find their interest here from the embedded systems to electricity generation.

In our training, students can obtain a degree recognized by industrial partners that enables them to design electrical and electronic devices, equipment and facilities in the fields of electronics, metrology and instrument technics, automation, electrical energy and building informatics. They can participate in the production, operation and performance of metrology, qualification, control and product management tasks.

In the specialization of Electrification and automation of facilities, students will learn about electrical engineering, metrology, automation, electrical machines and drives, electronics, electricity supply, electromagnetic compatibility, electrical installation of facilities and equipment and their design and operation.

In the Embedded microcomputer systems specialization, the aim of the training is to provide students with the skills to design, program and operate embedded systems. In practical and lab trainings, besides the existence of Windows-based systems, we mainly use Linux operating systems according to the needs of industrial trends and embedded systems.

Languages

Hungarian/English

Degree

Bachelor of Science (BSc)

Duration of training

7 semesters

Form of training

full-time training
correspondence training

Financing form

state-funded
self-financed

Specializations

embedded microcomputer systems
electrification and automation of facilities

ALSO A DUAL COURSE IN FULL-TIME TRAINING.





Architectural Engineering MSc
Architectural Art MA
Computer Science Engineering MSc
Structural Engineering MSc
Urban Systems Engineering MSc

MASTER'S PROGRAMS

Our aim is to train architects who are able to perform all the architectural and construction tasks of settlement and spatial planning, that is, the built environment in general, to carry out architectural and structural design tasks for buildings and building complexes, to plan, organize, manage and control their construction, maintenance and renovation, to perform monument protection tasks, to carry out theoretical, scientific and educational activities in accordance with their qualifications, and to manage construction and official work in their field.

They are committed to carry out these activities by being aware of the social and environmental impact of architecture, with responsibility and commitment, and to be able to continue their studies in PhD or DLA courses.

Languages

Hungarian

Degree

Master of Science (MSc)

Duration of training

4 semesters

Form of training

full-time training

correspondence training

Financing form

state-funded

self-financed

Specializations:

architectural design and interior design

urban planning and head architect

structural design

monument protection and reconstruction

architectural ecology

real estate development and property management

architectural informatics

architectural design
 building construction
 interior design
 architectural drawing
 construction management
 construction technology
 complex design
 urban planning
 landscape and garden design
 heritage preservation
 mechanics
 descriptive geometry
 drawing
 art history
 geodesy
 color theory
 shape theory
 design
 workshops



drawing
color theory
design
architectural design
interior design
building construction
art history
history of architecture
workshops

The goal of the Architectural Art MA is to train professional intellectuals who undertake, value and mediate the cultural mission of the creative man. Graduates, with their acquired artistic and scientific knowledge, are capable of solving quality artistic tasks in the process of designing the built environment. They have the ability to continue their studies in doctoral programs.

The multi-faceted nature of architecture is characterized by the fact that in addition to the classical engineering concept, architectural art and design are also defined in it. Based on European trends, the artistic approach that will lead to a change of attitude in the construction and interpretation of the built environment is increasingly emphasized in the profession. Our training starts in a full-time program. Because of small group sessions, workshop-type training, complex task-solving processes take place in the consultations.

Languages

Hungarian

Degree

Master of Science (MA)

Duration of training

4 semesters

Form of training

full-time training

Financing form

state-funded
self-financed

Dynamically developing informatics is a science that closely interacts with our everyday life. If you are interested in how to design and operate IT systems, you can acquire this knowledge at our department. You can learn the basics of special fields such as large-scale systems, and intelligent and robotic systems. Many IT companies support the training of our students with up-to-date knowledge, which can be a good basis for a successful job search.

The purpose of the Computer Science Engineer MSc is to train professionals who are capable of understanding the correlations and applying and using the acquired knowledge at a high standard. It is important for students to acquire high level of independent design, development of complex IT systems, design of databases and application and development of multiprocessor digital systems. The additional aim of the training is to prepare students for a doctoral degree and encourage them to carry out independent research.

The Intelligent systems specialization has a long tradition in Pécs, and our professors have many years of experience in teaching. Our students can participate in our research programs: image processing, computer vision topics, e.g.: image-based identification of ragweed with autonomous drones; object recognition and tracking; autonomous vehicle programming; intelligent sensors, map making, positioning, driver monitoring, and collision avoidance. Camera-based space sensing, optical 3D depth sensing. Biomedical developments: motion analysis for prevention and rehabilitation purposes, control of upper limb prosthesis with EMG signals and neural network, support of the production of unique medical equipment with 3D technology. Parallel calculations, GPU programming. Multi-Frequency Electrical Impedance Tomography (mfEIT) research on image reconstruction and Electrical Impedance Spectroscopy (EIS) measurement-evaluating algorithms.

Languages

Hungarian/English

Degree

Master of Science (MSc)

Duration of training

4 semesters

Form of training

full-time training

correspondence training

Financing form

state-funded

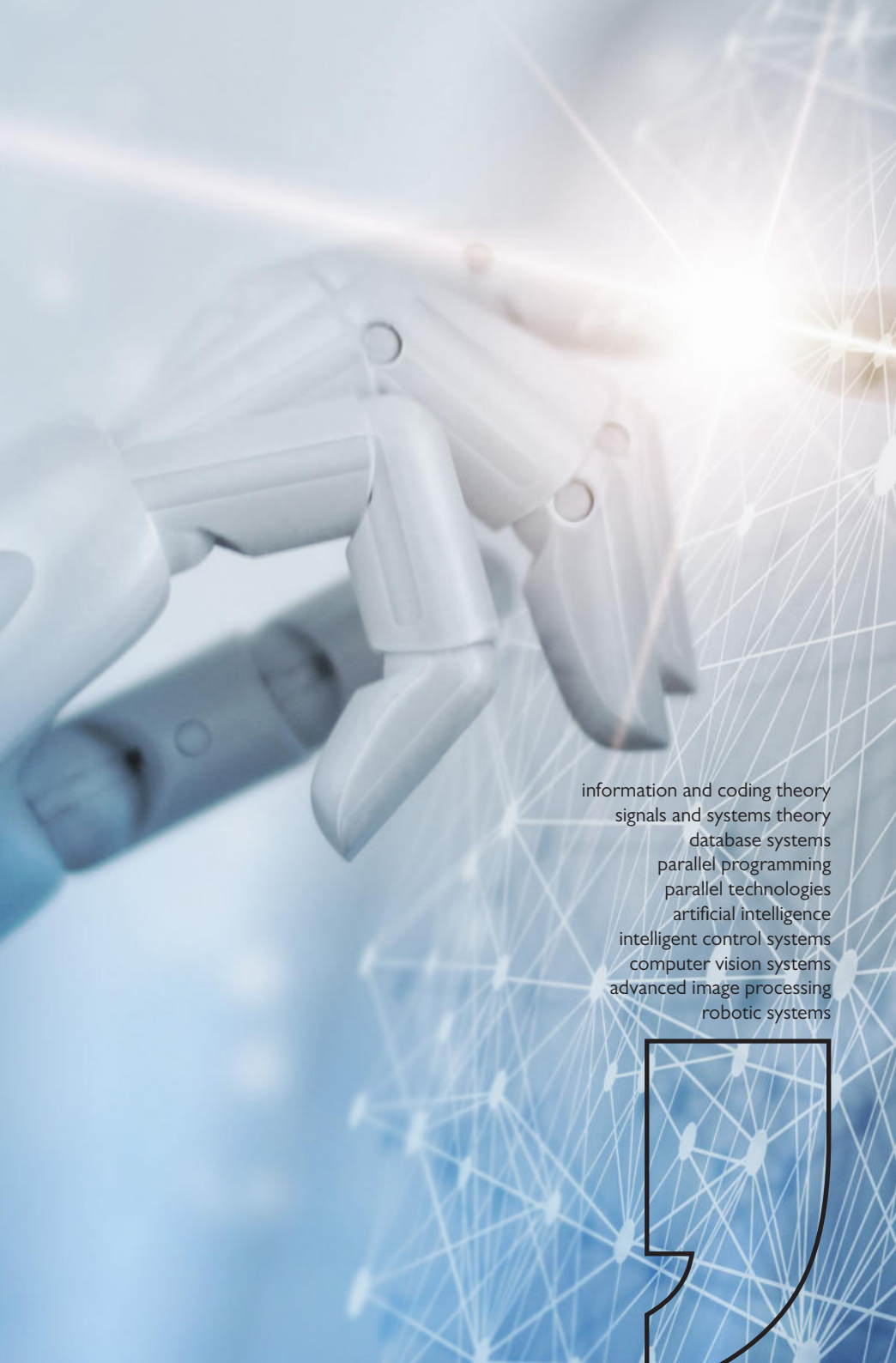
self-financed

Specializations

intelligent systems

(You can gain knowledge about robotic, intelligent and autonomous systems and technologies.)

Also a dual course in full-time training.



information and coding theory
signals and systems theory
database systems
parallel programming
parallel technologies
artificial intelligence
intelligent control systems
computer vision systems
advanced image processing
robotic systems





mathematics
mechanics
geoinformatics
soil mechanics
structural support analysis
public utilities
practical training
steel structures
reinforced concrete structures
building audit
real estate management
property management

Graduates of the Master's program are trained to design complex and specialized engineering facilities; they perform the tasks of technical development, research, management and project management independently in the field of structural engineering. The Master's program provides students with fundamental knowledge on information and communication, leadership, engineering ethics and on the European Union in the entire field of structural engineering. Part of the professional training is the transfer of knowledge necessary for the coordination of construction, maintenance and operation, entrepreneurial and administrative as well as management tasks, covering the whole range of structural construction tasks.

According to their specialization, structural engineers can perform tasks such as the reconstruction of building structures and buildings or the analysis of structural supports. They can also specialize in carrying out and professionally assisting related geotechnical, civil engineering or engineering geological activities. The range of employment opportunities includes the real estate industry; professionals can find jobs in valuation, 3D real estate registration, building auditing, real estate development, property management and market.

Languages

Hungarian/English

Degree

Master of Science (MSc)

Duration of training

3 semesters

Form of training

full-time training
correspondence training

Financing form

state-funded
self-financed

Also a dual course in full-time training.

Similarly to people a city has a soul. It can be nice, ugly, boring, interesting, cheerful and sad. The great challenge of the 21st century is to shape our complex environment consciously together. We design and then implement the plans. You need to have faith, fun, fantasy, skills and diligence. You can acquire all this knowledge in our MSc in Urban Systems Engineering.

An urban system engineer has to combine a wide range of knowledge with a multi-player team. For this role you must consciously prepare.

In the Master's program, students with different bachelor's degrees are prepared for solving complex tasks within urbanism (i.e. in all roles related to the planning, development, preservation, modernization and viability of settlements) depending on their interest. The training in Pécs primarily prepares students for the role of urban system engineer, but during the 4 semesters it is also possible to get acquainted with the main architectural, construction authority, construction supervision and settlement management fields.

Languages

Hungarian

Degree

Master of Science (MSc)

Duration of training

4 semesters (MSc)

Form of training

full-time training

correspondence training

Financing form

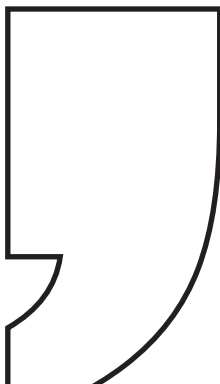
state-funded

self-financed

Also a dual course in full-time training.



urbanism
smart city
geoinformatics
urban planning
landscape planning
townscape
urban regeneration
heritage protection
construction law
workshops
teamwork
community planning
settlement management





high level visual communication skills
master – student relationship
contemporary design
craftwork
contemporary arts
exhibitions
interior design
workshops
design contests
model workshop
interior design studio
computer-aided
furniture design
design thinking
conceptual design
conceptual thinking
craftsmanship
lighting design
materials



The programme trains interior design artists how to implement aesthetic, functional, and psychological aspects of a given space or spaces. Graduates will possess essential technical knowledge, artistic skills, have an understanding and thorough knowledge about the design thought-process and their importance during the planning procedure. They also acquire primary manufacturing-, production processes and their conditions. Students gain both practical and professional experiences throughout the course of their studies and are prepared to pursue their education in the doctoral programme if they wish. Qualified interior design artists are expected to perceive complex professional issues, develop an individual design and creative programme, conduct their autonomous work accordingly, as well as to employ the correct tools, methods, procedures and technologies proficiently in the creation of their own concepts and designs.

Degree

Architect (MA)

Duration of training

4 semesters (full-time training)

Language of instruction

English

Head of the programme

Dr. Agnes Borsos DLA

Application Fee for the programme

150 USD (non-refundable)

Tuition Fee for the programme

3,800 USD/semester

BUILDING SERVICE ENGINEER SPECIALIZATION MECHANICAL ENGINEER,

This programme contains higher credited, lifelike and project-orientated subjects. The education of heating technology, water supply – canalization, air conditioning, modelling, BIM etc. are planned according to these ideas, based on the BSc knowledge on Mechanical Engineering. The focus is on the practical viewpoints of the economical and ecological sustainability. This is achieved by subjects like renewable energy utilisation, life cycle analysis, environmental impact assessment and environmental regulation. Some of the planned didacticisms are computer modelling, project-based lectures, common thinking, gamification, analyses of case studies etc.

Degree

Engineer (MSc)

Duration of training

4 semesters

Language of instruction

Hungarian (English)

Head of the programme

Dr. Miklós Mária



Heating technology
Air conditioning
Sustainable water supply - canalization
Renewable energies in building engineering
Building Physics
Building energetics
Building diagnostics
Building supervision, building informatics
Computer modelling
BIM







Nuclear power plant operation engineer
Nuclear environmental engineer / professional
Waste management engineer / professional
Noise and vibration engineer / professional
Building energetics engineer
Quality management systems manager

VOCATIONAL TRAININGS



nuclear and reactor physics
nuclear power plants
operation
reactor operation
maintenance
nuclear accident response
radiation protection
dosimetry
official regulations
nuclear safety

There is a growing demand for professionals seeking employment in the nuclear industry. The aim of the Paks II Academy is to enhance the general and nuclear energy-related knowledge of students with high-quality training programmes. Professionals, having completed the training, can apply for jobs in nuclear power plants with a high level of knowledge. During the two semesters of the vocational training they will gain practical knowledge about this segment of the energy industry: they will gain basic knowledge about the technological processes of the nuclear power plant, the operation process, the basics of nuclear safety and the safe operation of the nuclear power plant. This will pave the way for their future in an industry that is going to play a key role in both the domestic sector and internationally for decades to come.

Degree

vocational training

Duration of training

2 semesters

Form of training

correspondence training

Financing form

self-financed

NUCLEAR ENVIRONMENTAL ENGINEER / PROFESSIONAL

The general objective of our training is to train engineers and professionals with advanced radio-ecological, earth science, technical, environmental management skills who are able to identify, assess, prevent, reduce or mitigate existing and potential environmental problems and hazards related to the nuclear industry, as well as initiate, plan and manage projects and developments related to this field.

Linking the nuclear field and environmental protection provides graduates with unique employment opportunities in companies dealing with the nuclear industry, energy production, radioactive waste management, disposal and recultivation, environmental protection and their regulatory authorities.

Degree

vocational training

Duration of training

3 semesters

Form of training

correspondence training

Financing form

self-financed



nuclear physics and radiochemistry
geophysics
nuclear power plants
radiation protection and dosimetry
radioecology
monitoring
nuclear safety
environmental impact assessment
nuclear waste management
nuclear recultivation





environmental protection
municipal solid and liquid waste
technical and IT tools
procedures, technologies
organization of waste collection and
removal
waste disposal
waste recycling
reuse
metrology, monitoring
environmental economics

The purpose of our training is to train engineers and specialists in fields of waste management who can perform a variety of technical jobs in waste management companies; fulfil the roles necessary for the selection, design, testing, commissioning and operation of waste management procedures (technologies, operations, equipment, apparatus); selection, rational use, development and maintenance of waste management infrastructure resources; performing, managing and advising on environmental management, in particular waste management, carrying out administrative tasks in the field of operation of municipalities, large and small agricultural enterprises and private enterprises.

Degree

vocational training

Duration of training

2 semesters

Form of training

correspondence training

Financing form

self-financed

The environmental noise and vibration state is an increasingly important element of the quality of our environment. The general public is increasingly sensitive to the disturbing effects on the environment that change the way they live. The purpose of protection against environmental noise and vibration is the protection of human health, the continuous improvement of the living conditions of the present and future generations, and the prevention of harmful effects; its task is to protect the human environment and to promote its purposeful design.

The general objective of our training is to train qualified engineers and technicians in the fields of noise and vibration control who have the appropriate technical knowledge to identify, assess, prevent and reduce existing and potential environmental noise and vibration effects.

Degree

vocational training

Duration of training

2 semesters (MSc)

Form of training

correspondence training

Financing form

self-financed



technical acoustics
seismology
seismoacoustic
vibration abatement
environmental noise control
noise control engineering
noise and vibration control act
architectural acoustics and room
acoustics
noise control in building services
metrology



building physics
comfort theory
heating technology
ventilation and air conditioning
technology
lightings
building management
building structure
improving energy efficiency
renewable energies
sustainable water supply

In the field of building energetics, design firms and companies operating building service engineering systems require their engineers to be familiar with optimised solutions. In addition to architectural and structural solutions, the training also provides an insight into the field of mechanical and automation systems for energy saving. The use of renewable energy sources requires complex management of buildings, thus the training covers both professional knowledge in architecture, building service engineering and building automation.

With the knowledge and competences acquired in the postgraduate training, engineers are able to develop solutions that minimize the energy consumption of buildings, and will also be able to perform the tasks of a building energetics engineer and a general contractor of major investments.

Degree

vocational training

Duration of training

2 semesters

Form of training

correspondence training

Financing form

self-financed

The aim of our training is to train quality management professionals with solid theoretical and practical knowledge. Their expertise will be useful mainly in the fields of product manufacturing and their related services and also in connection with quality planning, quality development, quality control and quality inspection; creating, operating, developing and maintaining systems for implementing the above; establishing integrated quality-oriented management systems, strategic and operational plans; and developing integrated management systems.

Degree

vocational training

Duration of training

3 semesters

Form of training

correspondence training

Financing form

self-financed



auditor practice
human management
integrated management systems
quality management, techniques
project management
organization management
statistical quality control
technology management
product design and development
corporate logistics







Architecture (10 semesters)

UNDIVIDED STUDY PROGRAM

The purpose of the training is to train architects who are able to perform all the architectural and construction tasks of settlement and spatial planning, the built environment in general, including the architectural and structural design tasks of buildings and complexes, to plan, organize, manage and control their construction, to carry out building maintenance and renovation tasks, to perform monument conservation tasks, carry out theoretical, scientific and educational activities appropriate to their qualifications, to perform construction management and official work in their field of expertise, and be able to continue their studies in PhD or DLA programs.

„Only those who can turn to the future can justify the existence and strength of tradition ... today it is our vital task to create a work that captures the past and the future at the same time.”

Kenzo Tange

“Architecture is the will of the epoch translated into space.”

Mies van der Rohe

Languages

Hungarian/English

Degree

undivided master's program

Duration of training

10 semesters

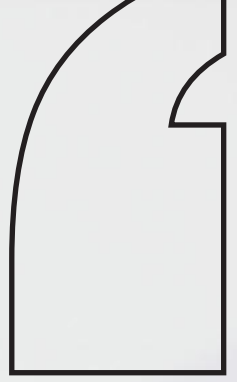
Form of training

full-time training

Financing form

state-funded

self-financed



descriptive geometry
architectural design
interior design
creative and theoretical studies
drawing
building construction
art history
workshops
colour theory
design
statics
shape theory







Architecture DLA
Architectural Engineering PhD

DOCTORAL PROGRAMS



international PhD & DLA symposium
domestic and international conferences
contemporary architecture
protection of monuments
solidary architecture
architecture and related arts
heritage management
value creation
urban planning

The architect DLA program of the Doctoral School combines architectural and urban design programs in different areas of design. (Community architecture, architecture and design, production technology based environmental management, residential planning, urban environment architecture.)

However, the programs, the creative fields do not relate strictly to topics or building types, but to the architectural creator and teaching character of the professors and consultants of the Doctoral School. In this program, we intend to emphasize the historical-monumental approach, the environmental responsibility and the complete set of requirements and unity of the modern architectural approach. Therefore, within the framework of the School's program, the individual work program of doctoral students, based on the synthesis of artistic-technical creativity and scientific research in the chosen subject area, in accordance with the distinctive features of art, the artistic and the scientific duality, is of particular importance.

Languages

Hungarian/English

Degree

postgraduate program

Duration of training

8 semesters

Form of training

full-time training
correspondent training

Financing form

state-funded
self-financed

The Doctoral School's Architectural Engineering PhD program is based on the experience of other Hungarian doctoral schools and of the Architecture DLA School. The PhD in Architectural Engineering program covers the questions of historical and modern building materials as well as the supporting and building structures.

The program includes the disciplines of environmental planning, settlement planning, energy planning, etc., that are closely related to the subject. Taking into account the specificities of the discipline and the diverse themes of each research area – its possible interdisciplinary feature - the curriculum places great emphasis on providing a basis for acquiring the necessary knowledge, tailored to the individual themes of the PhD students. The aim of the training program is to help our doctoral students to prepare their dissertation at a high standard and to fulfil all the requirements for graduation.

Languages

Hungarian/English

Degree

postgraduate program

Duration of training

8 semesters

Form of training

full-time training
correspondence training

Financing form

state-funded
self-financed



energy management
energy design
building information modelling
membrane structures
sustainability
transportation planning
monument protection
history of architecture
alternative building materials





The background of the page is a photograph of a modern building with a large glass facade. In the foreground, there is a prominent grid-like metal structure, possibly a railing or part of a staircase, which creates a complex geometric pattern over the building. The building itself has multiple stories with many windows. The overall color palette is cool, with blues, greys, and whites.

Student Union
B2 College for Advanced Studies
Juhász Jenő College for Advanced Studies
Students' Research and Art Association
Scholarships
Erasmus+ mobility
Professional Language Courses

STUDENT LIFE

Our faculty's Student Union, along with the interest representation of the students, places great emphasis on experiences during the years spent at university that the participants will be happy to remember later, alongside with the studies.

The Freshmen Camp is the first bubble in the sparkling student life, which is closely followed by a sightseeing tour to the main sights and locations of Pécs. The newly arrived students are completely immersed in the bloodstream of university life at the freshman ball, and then, as full members of the community, they participate in the colorful programs and parties together.

In addition to the many colorful and diverse faculty and dormitory events, sports enthusiasts can follow their passions regularly in many fields, including various championships, and the fans of gastronomy can show their perceived or real talent at cooking competitions organized every six months.



There are plenty of opportunities to explore and get to know the wines and world renowned spas in the vicinity of Pécs, but professional excursions are also regular to many of the country's remarkable facilities, or even beyond our borders.

Students who are more interested in professional programs and projects, but prefer approaching things in a creative and playful way, are very welcome at B2 and Juhász Jenő Colleges for Advanced Studies.

In the field of entertainment, the most popular event every year is the Pécs University Days (PEN), which has grown into a festival of the highest standard where the best performers of the Hungarian music industry are represented alongside with many prominent foreign performers. Here you can really taste what it is like to be a university student in Pécs. If you want to be part of this great family and experience student life, come and join us!

STUDENT UNION

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The aim of the B2 College for Advanced Studies is to contribute to the vision of the university, the city and the region with the help of ingenious, enthusiastic and helpful partners, but most importantly with the creativity, curiosity, enthusiastic interest, knowledge and desire of our young students. In our college for advanced studies, we attach great importance to organizing events for our students, in addition to professional programs, tenders and lectures, that explore cultural and social issues and show that it is not enough to be excellent in our profession, we need to know and deal with all aspects of life, we need to reinforce the transdisciplinary approach, which we believe is essential today. We place great emphasis on participation in the events of the alma mater, the Faculty of Engineering and Information Technology, and we try to help coordinate and organize events and prepare installations. Of course, the prerequisite for the success of the professional programs is that our group should operate as a unit, so we organize team-building events in addition to the internal professional programs.



Juhász Jenő College for Advanced Studies is the main site for enthusiastic, active young students with a keen interest in research. Why are we so enthusiastic and active? Because at last we can be in a place where our ideas are being cared for: we can boldly develop our technical, IT or engineering talent, and in most cases not alone, but in a team we can meet all the challenges of the area. We build an electric racing car, deliver a paper at a conference or even make Floppy Chestra have a concert... well, no doubt, great ideas, conscientious work, joint LAN parties and paintballing all lead to a great result. Who knows, we might find a new Bill Gates or Elon Musk among us.

COLLEGE FOR ADVANCED STUDIES





S

The Students' Research Association movement, based on the venerable traditions of self-education, deeply rooted in higher education, started as an initiative of professors and students at several universities in the early fifties. Its basic task and essence from the very start: beyond the acquisition of the required knowledge, it is a 'bottom-up movement' and joint work of aspiring students taking part in university research and conducting individual research as well, and enthusiastic professors helping them.

Today, scientific and artistic student association activity is the most important form of talent management in Hungarian higher education. It is the highest level of preparation for the scientific and artistic career in the training period before the doctoral school, and as such, it is one of the best pre-schools of doctoral training (PhD and DLA). The continuous mentor type student-professor workshop and professional relationship in the initial period of university or college studies or in the first years is a very important area of quality intellectual training.

The National Students' Research Associations Conference (OTDK), taking place in every other year, is an opportunity to present the scientific achievements of the best students, an evaluation forum certified by recognized jury members, professors and academics. The national conference is the second round, the final, which can only be accessed based on institutional nomination, professional jury and public presentation and positive evaluation proposal.

Participation the OTDK is in itself a good indicator of student performance, and the achievements are recognized by both the academic and the industrial side.



The purpose of the **Scholarship for Graduate/ Undergraduate Tutors** is to encourage students to work as tutors and to support applicants who are ready to help other students to catch up.

The **Public Life Scholarship** supports students in their work for the community and in their marketing tasks.

The **Excellence Scholarship** awards students with documented achievements in various fields (study, professional, college for advanced studies, publication, sports, etc.), encouraging them to present and publish their work at various university events.

With the announcement of the **Scholarship for Undergraduate Teaching Assistants**, the aim of the Faculty is to encourage students who are open to professional development and scientific activity by recognizing their supportive role in education, to strengthen cooperation between professors and students and to call students' attention to the career of teachers. The supported demonstrator activity includes participation in scientific research work, engagement in educational and research organizational tasks and in Students' Research Association activities, and supporting the work of the professors.

Together with IT Services Hungary Kft, the E-LIT internship program provides BSc students with outstanding academic performance in information technology with an opportunity to gain marketable, practical knowledge of the IT service sector. In addition to the four-semester scholarship, the company provides competitive hourly rates, German language training and mentoring, as well as the opportunity to complete the compulsory professional practice. After completing the BSc degree, the company can offer a full-time position to successful trainees.



Excellence Scholarship

The programme aims to reward students' documented outstanding achievements in a wide range of fields and to encourage students to publish their work(s) or give account of their achievements at various university events.

Faculty Ambassador Scholarship

Tasks of Faculty Ambassador: Using their own abilities, skills, qualities, ambitions and connections promote the programmes, students' scientific work of the Faculty and a career in engineering and informatics. Recruiting more female students to engineering and IT programmes, retaining them in the trainings and reducing early school leaving is a headline target.

Female Engineers MOL Programme

Our aim is to inspire and support young women to face the challenges in gaining expertise in the Oil&Gas industry and become future leaders.

International Scholarship for Undergraduate Teaching Assistants

The scope of tasks may include the following:

Participation in education under the supervision of the lecturer in English / Preparation of visuals or illustrative materials / Assistance in keeping contact with the students / Preparation of a written report about the completed tasks.

Public Life Scholarship

The programme aims to reward students' public life activities and encourage applicants who contribute to marketing or other events and to the promotion of enrolment activities.

Scholarship for Graduate / Undergraduate Tutors

The objective of the scholarship programme is to motivate students tutoring work and support them in their roles helping their fellow students catch up with their studies.

Scholarship for Undergraduate Teaching Assistants

Doctoral School





Erasmus is one of the most successful and well-known programs of the European Commission, which started in 1987 and has promoted the mobility of more than 2.7 million university students in Europe. According to former Erasmus students, the Erasmus experience has made it easier for them to find a job after graduation.

According to the rules of the Erasmus+ program, each student can receive Erasmus status for up to 12 months per level of training (part-time training and internship all together).

The minimum duration of study abroad is 3 months, and at least 2 months for internships. The amount of the scholarship depends on the length of the mobility period and the country of destination. The scholarship is a partial support designed to finance the differences in living conditions between countries, so students must always contribute to the cost of living in the given country.

The acquired language skills, professional experience and the new relationships have a great impact on the lives of the participants, as most of them are enrolled in the Erasmus program at a young age. The months spent with studying and language learning widen their horizons, students can familiarize themselves with the customs of other countries, and build new networks.

Erasmus is a lifetime experience.

ERASMUS+ MOBILITY

6



Nowadays having a language certificate is absolutely necessary - not only for graduation. Language proficiency is particularly important for professional achievement, especially in the technical field. Many employers are already testing the language skills of applicants in a job interview.

The faculty's Centre for Foreign Languages for Technical Purposes offers a wide range of English and German language courses for students. The aim of the lessons is to prepare prospective engineers, IT specialists and architects for workplace situations where they need to communicate in a foreign language in writing or in person. Everyone can find the most appropriate language courses for their professional and linguistic level for IT, architect, construction or mechanical engineering major. Our courses are based on up-to-date, authentic curriculum, assisted by a native speaker. More and more students are completing one or two semesters of partial trainings with scholarships abroad. Our language classes prepare them to integrate into foreign language education programs as quickly as possible, but they are also useful for those who want to participate in higher education projects or conferences in a foreign language.

Our high-level English language courses help to create lifelike situations open to foreign students studying at the faculty and Erasmus scholarship students as well. At the Centre for Foreign Languages for Technical Purposes, we also provide the opportunity to obtain an accredited BME and "Zöld Út" language certificate.



Made with the support of the Institutional Scholarship for Excellence,
in the program "I7886-4/2018/FEKUTSTRAT"
in 2019, at the Faculty of Engineering and Information Technology, University of Pécs.

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