

University of Miskolc
Faculty of Mechanical Engineering and Informatics

PhD Programme in Computer Science and Engineering

Admission requirements:

MSc level degree in Computer / Software /Electrical Engineering

Applicants must fill out and save all requested information on the online application form in English. A recent photo of the applicant taken not later than six months ago must also be uploaded.

Research Plan: List of the previous research activities and publications. Description of the proposed research work. A minimum of one page typed in Times New Roman with a font

Motivation Letter: A minimum of one page.

A copy of proof of language proficiency minimum B2 level IELTS, or other internationally accepted certificates. If the instruction language at home country is English, there is no need for any certification. Scanned clearly.

The original copy of the BSc transcripts of Records and their translation in English. The translation should also be sealed and stamped by the Ministry of High Education and confirmed by the Ministry of Foreign affairs. All the documents must be scanned clearly.

Scanned original copy of a medical certificate of satisfactory health condition

Copy of passport : The original copy of two first pages plus the **VISA PAGE** of the applicants' passport, scanned clearly. Having a picture and all the other data stamped sealed officially by the authorities.

Entrance exam

The entrance examination process is supervised by the corresponding Examination Board of the Faculty. The examination process consists of four phases:

- verification of the documents
- evaluation the results achieved in BSc level study
- oral examination / motivation interview with the candidate via Skype
- final rating

The final decision is made by the Examination Board.

Graduation requirements

The doctoral program consists of two periods both having a length of two years. The first two year phase (study-research phase) is a course-based period, the students must take courses to acquire the professional knowledge in Information Science and Mathematics. At the end of the study-research phase, there is a mandatory Complex/Comprehensive Exam. During the 4 study-research semesters, students should acquire 95 credits in order to be able to take the complex exam. The exam relates to two selected courses passed by the student, to the research activity of the first period and to the proposed research plan of the second period. The second period of the program is devoted to the research activity. In the second phase, the research - dissertation period, the main goal is to publish high quality papers on the selected research work.

Students are required to take an elective course-unit consisting of four major subjects. Passing the exams they acquire the professional knowledge in information science and Mathematics. In accordance with the research field of applied information engineering, students can choose either mathematics or information science (in the ratio 2:1) depending on their interests and the chosen topic.

If the chosen course requires it, further theoretical foundation subjects can be taken within or in addition to the block called Optional Subjects. The main fields of mathematics foundation are as follows: Modern Analysis, Discrete Mathematics and Mathematical Logic. The main fields of the theoretical information science foundation are as follows: Information Theory, Theory of Programming and Programming Paradigms.

Students are required to take optional fundamental subjects from the offered list for their interested topic, and to pass exams. This may give the chance to the potential students to acquire the theoretical knowledge of the chosen (research) area in the application.

The other complementary sub-task, which is so important, is to publish and develop the research work which the candidate has achieved during academic period.

In the doctoral training 240 credits have to be obtained as follows.

- a.) 40 credits – acquiring mandatory studies (5 credits for one subject),
- b.) Minimum 50 credits for publications
- c.) Minimum 20 credits for scientific research projects
- d.) Maximum 20 credits for teaching activities, lecturing
- e.) Minimum 20 credits for conference presentations
- f.) 25 credits for passing the Complex exam

All publications must be registered in the Hungarian MTMT information system (url: www.mtmt.hu). Important: the publication activity is accepted only if it is registered in the MTMT.

The quality requirements on the publications for the doctoral degree:

- Minimum 2 scientific journal papers where the PhD candidate is the first author

- Minimum one journal paper having a Q3 ranking (SCImago ranking)

Application/Tuition fee: Please visit: <http://englishstudyprogrammes.uni-miskolc.hu>

Available Scholarship: Please visit: <http://stipendium.uni-miskolc.hu>

Contact: : kovacs@iit.uni-miskolc.hu