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Department of Informatics Faculty of Natural Sciences Matej Bel University

Department of Informatics



Matej Bel University is a large national university of international meaning. The study of informatics at the Faculty of Natural Sciences has more than 20-year tradition. The department started to educate students in the branch of Informatics on the 1st September 1989 with the name the Department of Computers. Today, The Department of Informatics is primarily focused on teaching, research and application of knowledge in the field of Applied Informatics, and it is also traditionally aimed at educating in the field of Teaching Academic Subjects. The department workplace is the guarantee of the development of IT at the Faculty of Natural Sciences and a carrier of significant informatics activities in terms of Matej Bel University and also in terms of the whole Slovakia.

Research

The specialization of research activities at the Informatics Department is evolving from the main research line of the Faculty, Department profile, and from the interests of the Department members who work on various research activities and projects. The effort of the members is concentrated on four branches:

- applied informatics, information systems, grids and HPC technologies with the implementation of the latest experiences into practice,
- the theory of teaching informatics, preparation of future teachers and further education of teachers of informatics,
- theoretical informatics with creating qualitative conditions for young science researchers,
- geographic information systems, their scientific and research use and massive application in education and practice.

The Graduates

The graduates of the 1st stage of the study program Applied Informatics are able to handle the demands of scientific, technical, and economic development of the present time. They will be useful in all kinds of companies that are based on information technologies and apply the methods and tools of informatics in various branches. The graduates of 2nd stage of the study program Applied Informatics are able to analyze, design, realize, and maintain software systems of information technologies and carry on research in this branch with high degree of creativity and independence. The graduates can scientifically work in all kinds of software application of information technologies, in which they apply advanced methods and techniques of programming. The graduates of the 1st stage in the field of Teaching Academic Subjects – Teaching of Informatics are prepared for further

continuation in the 2nd stage of study. They are able to work in the fields aimed at the support of institutional education – for example an assistant of a teacher of Informatics or other science subjects. They can recognize the basic structure and content of their specialization, they have experience of present conditions of facilities of ICT and they are able to utilize them. The graduates of the 2nd stage in the field of Teaching Academic Subjects are able to be teachers of Informatics at the level of primary and secondary education. They know the basic content of informatics disciplines, principles of its structure, methodology of the branch, cultural and social coherence. Besides the teaching capability, they are able to participate in the preparation of methodological materials, research and development in the didactics of this branch.

Education

The Department of Informatics has the right to grant the Bachelor's (Bc.) and Master's (Mgr.) degrees to the graduates of full-time form of study and distance form of study in the study program Applied Informatics, and also to the graduates of full-time form of study in the study program Teaching of Informatics in combinations at the Faculty of Natural Sciences of Matej Bel University. The Department of Informatics has the right to grant the academic degrees "Doctor of Pedagogy" (PaedDr.) and "Doctor of Science" (RNDr.) after accomplishing rigorous exams, part of which is a defence of rigorous thesis. The Department of Informatics is responsible for tuition of various faculty subjects which are compulsory or optional compulsory or just optional. The Department uses four informatics schoolrooms for its education, which are connected to local network with access to the internet, and are equipped with presentation technology.

