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## Development of the Intelligent System for the use of University Information System

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### Abstract

As one of the essential steps towards the inevitable integration process University of Mostar decided to introduce a unified information system for all members of the University of Mostar. Difficulties and some kind of resistance from the side of some employees appear in the application of this information system. To facilitate learning process, and at the same time to reduce administrative costs and save time on the training, the idea of developing an intelligent system for training the work of teachers on University Information System came up. Intelligent tutoring system provides an advanced student learning environment, tailored to its current level of knowledge. As a platform on which our system will be based, we chose an application for the creation and maintenance of online courses via the Internet, Moodle. Moodle provides teachers with full IT support in the organization and implementation of online courses. A plan is to develop a teaching system for the use of University information system, which will be fully automated and adaptable to the needs and current knowledge of each teacher who is trained on it and that gives this system the principal characteristics of intelligent system.

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*Keywords:* intelligent system; information system; learning process

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### 1. Introduction

University of Mostar is not integrated university; each faculty is a legal entity. According to the new Law on Higher Education, University of Mostar 2012th adopted a new Statute of the University of Mostar, which defines the organizational changes in the direction of the future integration process. As one of the essential steps towards the inevitable integration process University decided to introduce a unified information system for all members of the

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University of Mostar. Difficulties and some kind of resistance from the side of individual employees (especially the elderly) appear in the application of information system. To facilitate their learning process, and at the same time to reduce administrative costs and save time on the training, the idea of developing an intelligent system for training the work of teachers on University Information System came up.

## 2. University of Mostar

### 2.1. Facts

University of Mostar is one of the leading higher education institutions in Bosnia and Herzegovina. It is the only university in Bosnia and Herzegovina where the Croatian language is official language. Besides that University is a full member of the most important European and regional associations of universities and academic networks with highly developed international cooperation. It is located in the capital of Herzegovina - Mostar. University of Mostar was founded in 1977, although the history of higher education and educational institutions dates back to 1895th when the Franciscan theological study is established, the first university-level school. [3]

Within this higher education institution 10 faculties, one academy and 9 institutes, university library and student center exist. Classes are held at the undergraduate, graduate, postgraduate and professional programs through 50 different studies, 46 directions and 70 study groups.

Table 1. List of Faculties.

No.	Name of the faculty
1.	Faculty of Agriculture and Food Technology
2.	Faculty of Economics
3.	Faculty of Science and Education
4.	Faculty of Mechanical Engineering and Computing
5.	Faculty of Health Studies
6.	Faculty of Pharmacy
7.	Faculty of Philosophy
8.	Faculty of Civil Engineering
9.	Medical faculty
10.	Law faculty
11.	Academy of Fine Arts

More than 16.000 students of all groups (full-time students who study with the support of the ministry, students who pay for their studies, part-time students, students in professional studies and postgraduate students) is enrolled at the University. The performance of the teaching process involves more than 1.000 teachers and associates and over 160 employees who perform administrative and technical tasks.

University buildings which are located in Mostar are situated in two separate campuses, while the Medical faculty and Faculty of Health Studies are placed within the University Clinical Hospital in Mostar. Dislocated classes are organized in Vitez, Kiseljak, Orasje, Livno and Zepce.

From the academic 2005/2006 the University is integrated into the European system of higher education in accordance with the principles and requirements of the Bologna Declaration. ECTS credits (European credit transfer system) were introduced and studying is carried out through three cycles:

- First cycle – lasts 3 years (180 ECTS ) or 4 years (240 ECTS), and acquired a Bachelor degree;
- Second cycle – lasts 1 year (60 ECTS) or 2 years (120 ESTS), and acquired a Master degree;
- Third cycle – lasts 3 years and carries 180 ECTS. Upon completion acquired Doctor of Science degree.

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