New study program Master of Academic Studies Artificial Intelligence and Machine Learning at the Faculty of Science, University of Nis

The study program of master studies, Artificial Intelligence and Machine Learning, at the Department of Computer Science, Faculty of Natural Sciences and Mathematics, is one of four programs, according to the competition announced by the Minister of Education, Science and Technological Development (http://www.mpn.gov.rs /wp-content/uploads/2020/06/Tekst-konkursa.pdf), selected as proposals for new study programs in the field of artificial intelligence and machine learning (http://www.mpn.gov.rs/wp-content/uploads/ 2020/11 / Decision-on-selection-of-master-study-programs-of-artificial-intelligence_.pdf)

At the session held on October 28, 2021. year, the Commission for Accreditation and Quality Assurance has made a decision on the accreditation of the study program Master of Academic Studies in Artificial Intelligence and Machine Learning at the Faculty of Science in Nis. This school year, the faculty will announce a competition for the admission of 20 (twenty) students from the budget and 20 (twenty) self-financing students.

The importance of this study program is evidenced by the fact that the world famous NVIDIA Corporation, one of the world's largest manufacturers of graphics chips for personal computers and professional markets, decided to support the program by donating EDGE computers from its production program for course on Machine Learning and Artificial Intelligence in Robotics. We take this opportunity to thank NVIDIA for this donation.

The study program belongs to the field of computer science, within the field of natural and mathematical sciences, and lasts 4 semesters, i.e. 2 school years. To complete the studies at this level, it is necessary to achieve 120 ECTS, which gives the professional title of Master of Informatics - Artificial Intelligence and Machine Learning.

Within the program, students have 7 (seven) compulsory and 5 (five) elective courses to choose from a list of a total of 34 courses offered.
(http://operator.pmf.ni.ac.rs/akreditacijaPMF2021/dokumentacija/racunarske_nauke/mas- you / home.html)

In the third semester, it is planned to perform professional / pedagogical practice and study research work which is in the function of realization of professional practice. In the last semester, within the master's thesis, students need to complete the research work, necessary for the preparation of the master's thesis, as well as the preparation and defense of the master's thesis itself.

The role of this study program is to contribute to increasing the number and quality of domestic experts in the field of artificial intelligence and machine learning and thus contribute to creating conditions for further development of this very important and promising industry in Serbia.

The aim of this study program is to enable students to acquire theoretical and practical knowledge in the field of artificial intelligence and machine learning. This knowledge includes:

- problem identification and analysis, implementation and application of machine learning algorithms and models and artificial intelligence in solving certain problems and tasks;
- discovering new algorithms and models and new ways of applying existing algorithms and models in solving practical problems and tasks in science, industry, economics, banking and finance, health care and education;
- managing the development and application of artificial intelligence and machine learning with the overriding goal of ensuring the development of the human species.