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| Course: | *THE TESTING OF POWER MACHINES AND TRACTORS* |
| Course id: |
| Number of ECTS: 5 |
| Teacher: | Lazar Đ Savin |
| Course status | Elective |
| Number of active teaching classes (weekly) |
| Lectures: 2 | Practical classes: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. Educational goal

The aim of the course is to familiarize students with the types of testing, procedures and manner of writing the test reports about power machines and tractors according to different standards and procedures, which can equally be used in the world. Testing of power machines and tractors should include testing engine performance and tractors, ergonomic features and especially the security of tractor. |
| 1. Educational outcomes

After taking the course the student acquire knowledge and skills that enable him for:* implementation of national and international standards which describe test procedures and writing reports of the test performance of power machines and tractors,
* implementation of national and international standards which describe test procedures and writing reports on the examination of ergonomic tractors,
* implementation of national and international standards which describe test procedures and writing reports of test operator safety.
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| 1. Course content

Theory lessonsLectures include basic test methods and equipment, tests according to OECD rules, tests according to the directives of the European Union, tests according to the standards of the European Union, the tests according to international and national standards, ISO, JUS and others. Also included lectures and tests according to technical regulations.Practical teaching: Exercise, Other modes of teaching, Study research workExercises include an introduction to methods and equipment for testing, laboratory tests, field tests and report writing |
| 1. Teaching methods

The method of oral presentations and discussions. Methods of presentations, demonstrations, simulations, drawing and illustration. Consultations and seminar papers. The method of practical work in laboratories and institutes. |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam  | Mandatory | Points |
| Lecture attendance | Yes | 5 | *Theoretical part of the exam/Oral part of the exam/Written part of the exam-tasks and theory* | Yes | 60 |
| Test | No |  |  |
| Exercise attendance | Yes | 5 |
| *Term paper* | Yes | 30 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | OECD | OECD STANDARD CODEFOR THE OFFICIAL TESTING OF AGRICULTURALAND FORESTRY TRACTOR PERFORMANCE-CODE 2 | Organization for Economic Cooperation and Development | 2012. |
|  | Nebraska and OECD | Tractor Test Data | University of Nebraska-Linkoln | 2006 |

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| Znak univerziteta | UNIVERSITY OF NOVI SADFACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme AccreditationMASTER ACADEMIC STUDIES *AGRICULTURAL ENGINEERING* |
| Table 5.2 Course specification |