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| Course: | **MACHINES TESTING** |
| Course id: |
| Number of ECTS: |
| Teacher: |  |
| Course status | Elective |
| Number of active teaching classes (weekly) |
| Lectures: 2 | Practical classes: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | Passed exams in agricultural machinery |
| 1. Educational goal

To familiarize students with the procedures, standards and equipment for the testing of agricultural machinery. |
| 1. Educational outcomes

Knowledge of standards, methods and procedures for testing machines in the field and - vegetable production. |
| 1. Course content

*Theory lessons*Strategy and organization of tests of agricultural machines. Display test results. Methods for testing the machine in tillage, fertilization, sowing and planting, crop protection, harvesting and processing of basic field crops and vegetables. The structure and the characteristics of the basic equipment for testing machine. Errors of measurement and analysis of measured values. Electronic communications - data on agricultural machines - Standards: ISO and LBS 11783.*Practical teaching*: Exercise, Other modes of teaching, Study research workStructure and properties of the test equipment of machines. The sensitivity and measurement error. Getting to know the equipment for testing at accredited laboratories. Analysis and presentation of laboratory and field measurements. |
| 1. Teaching methods

Consultations, study, research work |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes/No |  | *Theoretical part of the exam/Oral part of the exam/Written part of the exam-tasks and theory* | Yes |  |
| Test | Yes/No |  |  |
| Exercise attendance | Yes/No |  |
| *Ovde se mogu pojaviti i kolokvijumi i seminarski rad (npr. Test, Term paper)* | Yes/No |  |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Meši M | Criteria for assessing the quality of machines for harvesting sugar beet (International - IIRB methodology),  | Contemporary Agricultural Engineering | 1993 |
|  | Nikolić R., Savin L., Furman, T., M. Tomic, Radojka Gligorić, Simikić M | Investigations of the tractor according to the rules of the OECD, Faculty of Agriculture, | Institute for Standardization of Serbia: International Classification of standards, publications  | 2009 |
|  | Stankovic D | Physical - technical measurements,  | Scientific Bbooks, Belgrade,  | 1987. |
|  | Anonim | Test method planter, spreader and universal harvester according to standard  | ISO Publications |  |

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