|  |  |
| --- | --- |
| Course: | **BALANCING OF ELEMENTS AND MECHANISM OF AGRICULTURAL MACHINES** |
| Course id: ЗМПТ1И09 |
| Number of ECTS:5 |
| Teacher: | Full professor Radojka Gligorić |
| 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/navesti ako ima |
| 1. Educational goal

Acquiring knowledge about role, structure, function, kinematic and dynamic characteristics of mechanic elements and mechanisms in agriculture machinery in order to know how to done machine balancing. |
| 1. Educational outcomes

Students will get enough knowledge to recognize a problems about unbalance working of moving and stationary parts of machines and their mechanisms and to overcome that problems. After passed exam, students will be able to utilize and maintain agriculture machine. |
| 1. Course content

Theory lessons:Importance of parts balancing in agriculture machines. Static and dynamic balancing. Shaft balancing. Balancing of lever mechanisms. The criteria for machine balancing. Accuracy of machine balancing. Methods for balancing in exploatation conditions. Equipment for control and measurement of agriculture machine balance. The methods and procedures for machine balancing.Practical teaching: Working on practical exercise related to subject which were passed on theory lessons. |
| 1. Teaching methods

Combination of oral presentation and interactive conversation supported using graphic simulation and illustration on computer. |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes/No | 6 | *Theoretical part of the exam/Oral part of the exam/Written part of the exam-tasks and theory* | Yes | 60 |
| Exercise attendance | Yes/No |  |  |
| Exercise papers | Yes/No |  |
| *Tests* | Yes/No | 34 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Gligorić Radojka | Mehanizmi poljoprivrednih mašina | Univerzitet u Novom Sadu | 2005 |
|  | Zlokolica M, Kostić M | Mehanika mašina | Fakultet tehničkih nauka Novi Sad | 2004 |

|  |  |  |
| --- | --- | --- |
| Znak univerziteta | UNIVERSITY OF NOVI SADFACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme AccreditationGRADUATE ACADEMIC STUDIES *Agricultural Engineering* |
| Table 5.2 Course specification |