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| Discipline | Grain quality and storage code: 48a winter semester | | |
| Specialty | Agronomy | | |
| ECTS credits: 6 | Form of assessment: Exam | | |
| Lecturer | Prof. Dr. Dragomir Plamenov Room 429 Phone: +359 52 383 670 E-mail: dplamenov@tu-varna.bg dplamenov@abv.bg |  | |
| Department | Plant Production | | |
| Faculty | Faculty of Manufacturing Engineering and Technology | | |
| Learning objectives: The curriculum is intended for students who receive a Bachelor's Degree in Agronomy. Grain quality and storage discipline enables students to broaden their knowledge of the importance of production from the main crops as a raw material and energy source in human life. On the other hand, the focus is on the quality and storage of the production to maximize the different quality characteristics of the grain / seed produced. Successful retention requires a good knowledge of the processes and changes that occur during storage, as well as the conditions affecting storage. The problems of qualification and storage of the produced products are considered in close relation with the peculiarities of the modern technologies for the production of the respective crop (variety / hybrid), genetic traits, the influence of external environmental factors. All this leads to the expansion and consolidation of acquired knowledge in plant physiology and biochemistry, soil science, agrochemistry, genetics and seed production. The course enables students to become familiar with grain materials as a commodity and object of storage and processing, with the physical properties of the grain mass; physical processes occurring in the grain during storage; the main storage regimes for cereals; with the latest legal provisions concerning the qualification and storage of the production. | | | |
| CONTENTS: | | | |
| Training Area | | Hours lectures | Hours seminar exercises |
| Grain quality (chemical composition of the grain, biology of the grain, self-heating of the grain). | | 15 | 15 |
| Storage of grain (grain storage modes, storage of cereal grains, storage of legume grains, storage of oil seeds, grain silos). | | 15 | 15 |
| TOTAL: 60 h | | 30 | 30 |