



Faculty	Engineering and Applied Technologies
Department	III Genetic Engineering
The position in the state of functions	11/III
Function	Associate Professor
The subjects in the education plan	Regulations in the field of seed and planting material production; Management and conservation of genetic resources; The use of biotechnologies in the development and multiplication of cultivars.
Scientific field	Biotechnologies
The theme of the competition tests	1. The legislation regarding the introduction of varieties and hybrids into cultivation. 2. The legislation regarding the accreditation of economic agents specialized in the production of seeds and planting material. 3. General characteristics of gene banks. 4. The value of plant genetic resources for agriculture and food. 5. The collection missions. 6. In situ conservation. 7. Ex situ conservation. 8. The flow of operations for seed conservation. 9. The characterization and assessment of plant genetic resources. 10. Obtaining of haploid plants and their use in plant breeding. 11. Somaclonal variability and its importance in plant breeding. 12. In vitro sexual and parasexual hybridization. 13. Propagation of virus-free genetic stocks. 14. Artificial seed production. References: Badea Elena-Marcela, Săndulescu Daniela, 2001. <i>Biotehnologii vegetale</i>, Fundația Biotech; Ciulca Adriana, 2024. <i>Gestionarea și conservarea resurselor genetice</i>, Ed. Eurobit, Timișoara; Ciulca A, Velicevici G. 2018. <i>Utilizarea biotehnologiilor în crearea și înmulțirea cultivarelor</i>, Ed. Agroprint, Timișoara; Madoșă E., 2019, <i>Producere de sămânță și material săditor</i>, Ed. Eurobit, Timișoara; Danela Murariu, Cristea D. Mihai, 2019. <i>Diversitatea genetică și eroziunea genetică a resurselor genetice vegetale</i>, Edit. PIM Iași; Nedelea G., Madoșă E. 2004. <i>Evoluție și ameliorare la plante</i>, Ed. Marineasa, Timișoara; Savatti M., Nedelea G, Ardelean M., 2004. <i>Tratat de ameliorarea plantelor</i>, Ed. Marineasa. Timișoara; Străjeru Silvia, Murariu Danela, Mirela Nimigean, Domnica Placinta, 2001. <i>Conservarea și utilizarea resurselor genetice vegetale</i>, Ed. Universității Suceava.
The address where the competition file is sent	The Secretariat of Engineering and Applied Technologies Faculty, Calea Aradului no. 119, CP 300645, Timisoara, Timis County.