

BOTANY (TEHNOLOGY OF AGRICULTURAL PRODUCTS PROCESSING ,I-st Year of study, I-st SEMESTER)

Credit value (ECTS) 4

Course category (Optional Courses)

Domain(Food Processing engineering)

Course holder:

Assist. Prof. Dr. Paraschiv Nicoleta Luminita

Discipline objectives (course and practical works)

The course aims to provide students with studying various aspects of plant organs, morphologically and anatomically, point of view. Training of the students of the main taxa in our country. It aims to promote a positive attitude in the field knowledge of this discipline, in the sense of attracting students for a level of study to high standards by applying the newest information and equipment in the field.

Contents (syllabus)

Course (chapters/subchapters)
The object of study, the history and the importance of botany
General notions on the histology of vegetable
The morphology and anatomy of vegetative organs and of multiplication of the plants
Root and stem : morphology and anatomy
Leaf and flower : morphology and anatomy
Fruit and seed : morphology and anatomy
Gymnospermatophyta: Pinaceae Family
Angiospermatophyta
- Dicotyledonatae : Magnoliaceae, Lauraceae, Ranunculaceae, Berberidaceae, Papaveraceae, Ulmaceae, Moraceae, Urticaceae, Betulaceae, Fagaceae, Aceraceae, Hippocastanaceae, Vitaceae, Euphorbiaceae, Loranthaceae, Apiaceae, Amaranthaceae, Chenopodiaceae, Polygonaceae, Hypericaceae, Violaceae, Brassicaceae, Salicaceae, Tiliaceae, Malvaceae, Primulaceae, Rubiaceae, Oleaceae, Convolvulaceae, Cuscutaceae, Boraginaceae, Solanaceae, Scrophulariaceae, Orobanchaceae, Lamiaceae, Campanulaceae, Asteraceae, Poaceae Family
- Monocotyledonatae : Liliaceae, Amaryllidaceae, Iridaceae, Orchidaceae, Gramineae, Araceae Family

Practical works
Presentation of the laboratory of Botany : work safety rules; Laboratory equipment and utensils; good practice working in botany
Optical microscope . Presentation and working practices

Tissues vegetable
Root : morphology and anatomy
Stem : morphology and anatomy
Leaf : morphology and anatomy
Flower : morphology and anatomy
Fruit : morphology and anatomy
Gymnospermatophyta: Pinaceae Family
Angiospermatophyta
1. Dicotyledonatae: Magnoliaceae, Lauraceae, Ranunculaceae, Berberidaceae, Papaveraceae, Ulmaceae, Moraceae, Urticaceae, Betulaceae, Fagaceae, Aceraceae, Hippocastanaceae, Vitaceae, Euphorbiaceae, Loranthaceae, Apiaceae, Amaranthaceae, Chenopodiaceae, Polygonaceae, Hypericaceae, Violaceae, Brassicaceae, Salicaceae, Tiliaceae, Malvaceae, Primulaceae, Rubiaceae, Oleaceae, Convolvulaceae, Cuscutaceae, Boraginaceae, Solanaceae, Scrophulariaceae, Orobanchaceae, Lamiaceae, Campanulaceae, Asteraceae, Poaceae Family
2. Monocotyledonatae: Liliaceae, Amaryllidaceae, Iridaceae, Orchidaceae, Gramineae, Araceae Family
Final colloquium of knowledge evaluation

Bibliography

- Alexiu V., 2000- *Morfologia și anatomia plantelor*, Ed.Culturală Pitești.
- Niță Mihaela, Rodica Rugină, Lăcrămioara Ivănescu, Naela Costică, Toma C., 1997 *Morfologia și anatomia plantelor, editia 1*, Ed. Univ. "Al. I. Cuza" Iași
- Turenschi E., Pascal P., Sirbu C., Paraschiv Luminița-Nicoleta, 1998 -*Botanică.-Lucrări practice*-Univ.Agron. Iași.
- Zanoschi V., Toma M., 1990 - *Curs de Botanică. Partea I -a, Anatomie și Morfologie*. Inst. Agron. Iași

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Colloquium	Oral examination	60%
Appreciation of the activity during the semester	Write assessment during the semester, verification tests and final laboratory verification.	40%

Contact

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