UNIVERSITÀ DEGLI STUDI DI PALERMO

Department: Agricultural, Food and Forestry Science

A.Y. 2021/2022

DEGREE COURSE IN PROPAGATION AND NURSERY MANAGEMENT IN THE MEDITERRANEAN ENVIRONMENT

Characteristics





Educational objectives

SPECIFIC OBJECTIVES
Specific objectives:
During the course, the technicians in Propagation and Nursery Management in the Mediterranean environment will acquire knowledge in the fields of plant production, defence, biotechnologies applied to agriculture, economics and marketing in the nursery chain. Furthermore, they will acquire knowledge on the certification of nursery productions, on the constitution and protection of new plant varieties and their subsequent registration.
At the end of the Degree Course, graduates in Propagation and Nursery Management in the Mediterranean environment will be able to face and solve the problems related to:
- Propagation and management techniques for plants in nurseries;
- Nutrition and irrigation of plants, phytopathies, harmful insects;
- Economics, marketing and management of nurseries.

Professional opportunities:
Freelance activity in nurseries, professional firms, public administration. The studies in 2nd cycle degrees are not a natural continuation for the courses of this class.

Professional opportunities

Profile:
Agricultural technician
Functions:
The Agricultural Technician with a degree in Propagation and nursery management deals with:
- The preparation of substrates for plant growth;
- The preparation of nutrient solutions;
- The intervention on plants through pruning, grafts, transplants, potting;
- The management of nursery irrigation and air conditioning systems;
- The inventory of warehouse stocks;
- The treatments necessary for the defence of plants (pesticides, phytosanitary ...);
- The sale of nursery products, wholesale or retail;
- The routine maintenance on the nursery machinery and equipment.

Skills:
The Agricultural Technician with a degree in Propagation and nursery management must possess:
- knowledge of botanical species and varieties (ornamental and fruit plants, garden plants, etc.);
-knowledge of techniques for plant production;
- ability to recognize plants and symptoms of plant diseases (phytopathology);
- knowledge of the physical, chemical and biological properties of the substrate;
- skills in horticulture;
- knowledge of irrigation and fertilization techniques;
- ability in the use of facilities, equipment and machinery for nurseries;
- competence in company organization.

Professional opportunities

The Agricultural Technician with a degree in Propagation and nursery management will be able to operate:
- as a freelancer, providing consulting services to companies in the sector;
- in private nursery companies;
- in public bodies (eg government nurseries);
- in nursery trade associations.

The studies in 2nd cycle degrees are not a natural continuation for the courses of this class.

Final examination features

The final examination consists in the written presentation of the solution of a problem tackled during the internship, aiming at demonstrating students' ability to apply the knowledge acquired during the Course, under the guidance of one or more supervisors (professors of the Degree Course) and possible external professionals. The topics for the final examination will be proposed by the professors of the Degree Course at the beginning of each Academic Year. The paper will be evaluated by a Board of here Professors of the Degree Course.

Subjects 1 ° year	CFU	Sem.	Val.	SSD	TAF
21712 - APPLIED BOTANY AND MYCOLOGY FOR NURSERY	8	1	V		
- MYCOLOGY LABORATORY *Venturella(PO)*	*4*	*1*			*F*
- PLANT BIOLOGY *Domina(PA)*	*4*	*1*		*BIO/03*	*A*
21710 - NURSERY SECTOR ECONOMICS AND POLICY	6	1	V		
- BUDGET ANALYSIS OF PLANT NURSERY COMPANIES *Borsellino(PA)*	*3*	*1*		*AGR/01*	*B*
- NURSERY SECTOR ECONOMICS AND POLICY *Bacarella(PA)*	*3*	*1*		*AGR/01*	*B*
21716 - PRINCIPLES OF GENETICS AND GENETIC IMPROVEMENT *Marchese(PA)*	4	1	V	AGR/07	A
04677 - ENGLISH LANGUAGE	3	1	G		E
21717 - ELEMENTS OF GENERAL AND INORGANIC CHEMISTRY WITH LABORATORY	8	2	V		
- CHEMISTRY LABORATORY *Barone(PO)*	*4*	*2*			*F*
- ELEMENTS OF GENERAL AND INORGANIC CHEMISTRY *Barone(PO)*	*4*	*2*		*CHIM/03*	*A*
04872 - MATHEMATICS *Di Ruzza(RD)*	3	2	V	MAT/07	A
21701 - FOREST NURSERY WITH LABORATORY	10	2	V		
- FOREST NURSERY *Badalamenti(RD)*	*6*	*2*		*AGR/05*	*B*
- FOREST NURSERY LABORATORY *Badalamenti(RD)*	*4*	*2*			*F*
21693 - HORTI-FLOWER NURSERY WITH LABORATORY	8	2	V		
- HORTI-FLOWER NURSERY *Vetrano(PA)*	*4*	*2*		*AGR/04*	*B*
- LABORATORY FOR THE PROPAGATION OF HORTICULTURAL AND FLORICULTURAL SPECIES *Sabatino(PA)*	*4*	*2*			*F*
21713 - PROPAGATION, NURSERY TECHNIQUES AND NURSERY ORGANISATION FOR WOODY PLANTS WITH LABORATORY	7	2	V		
- PROPAGATION LABORATORY, NURSERY TECHNIQUE AND ORGANISATION *Caruso(PO)*	*4*	*2*			*F*
- PROPAGATION, NURSERY TECHNIQUES AND NURSERY ORGANISATION FOR WOODY PLANTS *Caruso(PO)*	*3*	*2*		*AGR/03*	*B*

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Subjects 1 ° year	CFU	Sem.	Val.	SSD	TAF
Subjects 2 ° year	**CFU**	**Sem.**	**Val.**	**SSD**	**TAF**
21698 - MANAGEMENT OF HORTI-FLOWER NURSING FIRM *Vetrano(PA)*	4	1	V	AGR/04	B
21686 - BIOLOGY AND CONSERVATION OF PLANTS AND MEDITERRANEAN ECOSYSTEMS	9	1	V		
- MANAGEMENT OF PHYTOPHAGOUS INSECTS AND PHYTOSANITARY CERTIFICATION *Cusumano(PA)*	*3*	*1*			*F*
- VERTEBRATE BIOLOGY AND CONSERVATION *Colazza(PO)*	*6*	*1*		*AGR/11*	*C*
21690 - PLANT PATHOLOGY AND SANITARY CERTIFICATION FOR NURSERY	9	1	V		
- MANAGEMENT OF PHYTOPATHOGENS AND PHYTOSANITARY CERTIFICATION *Davino(PO)*	*5*	*1*			*F*
- PLANT PATHOLOGY *Bella(PA)*	*4*	*1*		*AGR/12*	*B*
21688 - SUBSTRATE FERTILITY AND MINERAL NUTRITION OF PLANTS IN THE NURSERY	8	1	V		
- MINERAL NUTRITION OF PLANTS *Laudicina(PO)*	*4*	*1*			*F*
- SUBSTRATE FERTILITY *Conte(PO)*	*4*	*1*		*AGR/13*	*B*
21708 - APPLIED BIOTECHNOLOGIES IN TREE FARMING WITH LABORATORY	8	2	V		
- APPLIED BIOTECHNOLOGIES IN TREE FARMING *Marra(PO)*	*4*	*2*		*AGR/03*	*B*
- BIOTECNOLOGIES LABORATORY *Sala(RD)*	*4*	*2*			*F*
21695 - APPLIED MECHATRONICS FOR PLANT NURSERY	8	2	V		
- APPLIED MECHATRONICS *Catania(PO)*	*4*	*2*		*AGR/09*	*B*
- MECHATRONICS LABORATORY *Catania(PO)*	*4*	*2*			*F*
21696 - DESIGN OF NURSERY IRRIGATION PLANTS	8	2	V		
- HYDROLOGY AND IRRIGATION DESIGN LABORATORY *Iovino(PO)*	*4*	*2*			*F*
- IRRIGATION PLANTS FOR NURSERY *Iovino(PO)*	*4*	*2*		*AGR/08*	*B*
21715 - SEED PRODUCTION AND HARVESTING AND PROPAGATION OF SPONTANEOUS SPECIES	8	2	V		
- HARVESTING AND PROPAGATION TECHNIQUES FOR SPONTANEOUS OFFICINAL SPECIES *Carrubba(PA)*	*4*	*2*			*F*
- SEED PRODUCTION *Ingraffia(RD)*	*4*	*2*		*AGR/02*	*B*
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Subjects 3 ° year	CFU	Sem.	Val.	SSD	TAF
05917 - FINAL EXAMINATION	3	1	V		E
07553 - PROFESSIONAL PRACTICE	49	1	G		S
Free subjects	9				D
	61				

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