	PROCEDURE						
University of	for the initiation, approval,	CODE:	4			4	
Oradea	monitoring and periodic evaluation of programmes of study	SEAQ PE – U. 01	Approved in the Senate meeting from:03.03.2014				g

Annex 6

DISCIPLINE DESCRIPTION

1. Information on the study programme

1.1 Academic institution	UNIVERSITY OF ORADEA
1.2 Faculty	FACULTY OF ENVIRONMENTAL PROTECTION
1.3 Department	AGRICULTURE-HORTICULTURE
1.4 Field of study	AGRONOMY
1.5 Cycle of study	BACHELOR
1.6 Study programme/Qualification	AGRICULTURE – ENGINEER

2. Information on the discipline

2.1 Name of discip	line		CF	ROPS	CULTIVATION IV	r			
2.2 Course holder			AL	LINA Ş	TEFANIA STANCI	U			
2.3 Seminar/Laboratory/Project		AL	JINA Ş	STEFANIA STANCI	U				
holder									
2.4 Year of	IV	2.5 Semest	er	VIII	2.6 Type of	EX	2.7 Regime of	(С
study					evaluation		discipline		

(C) Compulsory; (O) Optional; (E) Elective

3. Total estimate time (hours per semester of didactic activities)

3.1 Number of hours per week		4	out of which: 3.2	2	out of which 3.3	2	
			course		seminar/laboratory/project		
3.4 Total hours in the curriculum		5	out of which: 3.5	2	out of which 3.6	28	
		6	course	8	seminar/laboratory/project		
Time allotment							
						hours	
Study assisted by manual, course support, bibliography and notes							
Additional documentation in the library/ on specialised electronic platforms and in the field						60	
Preparation of seminars/laboratories/ topics/reports, portfolios and essays						50	
Tutorship						20	
Examinations						14	
Other activities	•					20	
3.7 Total hours of individual 224							
study							
3.9 Total hours per semester 5	56						
3.10 Number of credits 5	;						

University of Oradea Oradea PROCEDURE for the initiation, approval, monitoring and periodic evaluation of programmes of study	CODE: SEAQ PE – U. 01	Sena	oved in ate mee 03.03	eting	g
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4. Prerequisites (where appropriate)

4.1 curriculum	
	Botany, Crops cultivation I, Crops cultivation II, Tillage, Soil and Plant nutrition,
4.2 competences	Knowledge of crop technologies of oil plants, textiles, hops, tobacco, roots, medicinal and aromatic plants

5. Conditions (where appropriate)

et contaitions (mitte a	
5.1. related to course	Lecture, video projector, laptop
5.2. related to seminar/laboratory/ project	Preparation of the report, knowledge of the notions contained in the laboratory work to be carried out (synthesis material); - Performing all laboratory work. Determination of technical, medicinal and aromatic plant
	species, systematic classification and study of cultivated varieties in our country.

6. Spe	cific competences acquired
Professional competences	C 1. Elaboration of sustainable technological solutions for conventional agricultural production systems; the design of alternative production systems (organic farming) and new technologies for particular cases (land in slopes, sandy lands, land with temporary excess of humidity, etc.) C 1.2. Explaining the need to use different technological links, correlated with environmental factors and the requirements of cultivated plants; explaining and interpreting the interrelationships between the adopted agricultural production systems and the environment. C 1.3. Applying appropriate methods, techniques and procedures for customizing and optimizing sustainable agricultural production process technologies C 1.4. Qualitative and quantitative analysis of the effects of the technologies used (physical-chemical analyzes of the obtained productions, physical, chemical and biological analyzes on the environmental components that may be affected by applied agricultural technologies) C 2.3 Application of Community Agricultural Policy measures at the level of agricultural production and sustainable rural development, using the means and funds available under the specific regional conditions in Romania C 2.4 Analysis and evaluation of the effectiveness of the measures applied to increase agricultural production and their impact on the environment and quality of life
Transversal competences	CT1 Elaboration and observance of a work program and accomplishment of its own attributions with professionalism and rigor CT2 Apply effective communication techniques in team-specific activities; assume a role within the team and observe the principles of division of labor CT3 Objective self-evaluation of the need for continuous professional training in order to adapt and constantly meet the demands of economic development; the use of information and communication techniques and, at least, an international language of circulation

7. Objectives of discipline (coming from the specific competences acquired)

, il contra cojecu i	Training of students in the field of agriculture on the study of all plants cultivated from the large and medicinal - aromatic plants in Romania, cultivation technologies
	based on the latest achievements of science. Crops Cultivation has an

University of	PROCEDURE for the initiation, approval,	CODE:	4			4	
Oradea	monitoring and periodic evaluation of programmes of study	SEAQ PE – U. 01		orove nate i:03	mee	ting	g

	interdisciplinary applicative character, through the deep knowledge of the relationships between plants and the environment and the establishment of harmonization measures in order to obtain high and high quality productions.
7.2 Specific objectives	The contents of the presented laboratory works are based on the need to deepen the problems presented in the course. The students have the opportunity to study the morphological and biological particularities of the cultivated technical, medicinal and aromatic plants, as well as the systematic, chemical composition of the main product and the varieties cultivated in our country. Knowledge is useful in forming skills to address the specific problems faced by a specialist in "big culture."

8.1 Course	Methods of teaching	No. of hours/Remarks
Tobacco. Importance, requirements to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Tobacco. Cultural technology.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Hop. Importance, requirements to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Medicinal Plants - Angelica. Lemon balm .Sage. Importance, requirements to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Clary sage. Hyssop. Importance, requirements to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Moldavian balm (Moldavian dragonhead).Chamomile. The tail of the queen. Negril. Importance, requirements to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Valerian, Flag. Calamus. Importance, requirements	Theoretical lectures related to the course	2

	PROCEDURE					
University of	for the initiation, approval,	CODE: SEAQ	4		4	
Oradea	monitoring and periodic evaluation of programmes of study	9E – U. 01	Approved in the Senate meeting			g
	Study		from	:03.	03.20	14

to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology.	subject. Intercalated student contributions are requested on subject- specific subjects	
Hadhay. Laurels Importance, requirements to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Periwinkle. Autumn Crocus. Importance, requirements to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Poppy. Mandrake (Belladona).Henbane. Importance, requirements to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Aromatic plants .Coriander. Cumin. Importance, requirements to climate and soil, chemical composition of the main product, fertilization, systematic and cultural technology.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Fennel. Anise. Importance, climate and soil requirements, chemical composition of the main product, fertilization, systematics and culture technology	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Mint. Lavender. Importance, climate and soil requirements, chemical composition of the main product, fertilization, systematics and culture technology	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2
Garden Tern. Bassil. Tarragon. Importance, climate and soil requirements, chemical composition of the main product, fertilization, systematics and culture technology	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject- specific subjects	2

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1.Borcean I., Gh. David, A. Borcean, 2006, *Tehnici de cultura si protectie a plantelor tehnice*, Ed. de Vest ,Timisoara.

2. Borza Ioana, Alina Stanciu, 2010, Fitotehnie, Ed. Universitatii din Oradea.

3. Munteanu L.S. si colab.,2007, *Tratat de plante medicinale cultivate si spontane*, Ed. Risoprint Cluj-Napoca.

4. Tabara Valeriu, 2005, Fitotehnie. Plante oleaginoase si textile, vol.I, Ed. Brumar, Timisoara

5. Tabara Valeriu, 2005, Fitotehnie. Plante tuberculifere si radacinoase, vol.II, Ed. Brumar,

	PROCEDURE						
University of	for the initiation, approval, monitoring and periodic	CODE: SEAQ	4			4	
Oradea	evaluation of programmes of study	PE – U. 01	Approved in the Senate meeting from:03.03.2014			ng	

Timisoara		
8.2 Seminar	Methods of teaching	No. of hours/ Remarks
8.3 Laboratory		
1.Tobacco.Biological and morphological characteristics, systematic and cultivated varieties	Lecture, practical applications, use of the determinant for the identification of the studied plant species	4
2. Hops. Biological and morphological features, systematic and cultivated varieties	Lecture, practical applications, use of the determinant for the identification of the studied plant species	2
3. Angelica. Lemon balm. Sage. Clary sage. .Hyssop. Biological and morphological features, systematic species and cultivated varieties	Lecture, practical applications, use of the determinant for the identification of the studied plant species	4
4. The Matter. The tail of the mouse. Fennel flower. Biological and morphological features, systematic species and cultivated varieties	Lecture, practical applications, use of the determinant for the identification of the studied plant species	4
5 . Valerian .Flag (Iris). Sweet flag .Tutsan. Laurels Biological and morphological features, systematic of species and cultivated varieties.	Lecture, practical applications, use of the determinant for the identification of the studied plant species	4
6. Periwinkel. Autumn Crocus. Poppy. Banewort. Biological and morphological features, species systematic and cultivated varieties	Lecture, practical applications, use of the determinant for the identification of the studied plant species	2
7. Coriander. Caraway . Biological and morphological features, systematic species and cultivated varieties	Lecture, practical applications, use of the determinant for the identification of the studied plant species	2
8. Fennel. Anise. Biological and morphological features, systematic species and cultivated varieties	Lecture, practical applications, use of the determinant for the identification of the studied plant species	2
9. Mint. Lavender. Biological and morphological features, systematic species and cultivated varieties	Lecture, practical applications, use of the determinant for the identification of the studied plant species	2
10. Garden Timbers. Basil. Tarragon.	Lecture, practical applications, use of the	2

University of Oradea	PROCEDURE for the initiation, approval, monitoring and periodic evaluation of programmes of study	CODE: SEAQ PE – U. 01	Senate	ed in the meeting 03.03.2014
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Biological and morphological features, systematic species and cultivated varieties	determinant for the identification of the studied plant species	
8.4 Project		
Bibliography		

1 Cernea S., Morar G., Duda M., 1995, *Lucrari practice de Fitotehnie* partea I, Tipo Agronomia, Cluj-Napoca

2. Dumitru M. Si col., 2002, Cod de bune practici agricole, Ed. Expert Bucuresti

3. Pop Georgeta, Simona Saveti, 1998, Lucrari practice de fitotehnie, Ed. Mirton, Timisoara

* The content, respectively the number of hours allocated to each course / seminar / laboratory / project will be detailed during the 14 weeks of each semester of the academic year.

9. Corroboration of discipline content with the expectations of the epistemic community, professional associations and representative employers from the field corresponding to the study programme

• The analysis and evaluation of the effectiveness of the measures applied for the increase of the agricultural production and the rural development and their impact on the environment and the quality of life presented in this course makes it acceptable to the epistemic communities, social partners, professional associations and employers in the field of Agriculture . The content of the discipline is found in the curriculum of Agriculture and other academic centers in Romania that have accredited this specialization, so that knowledge of basic notions is an important requirement for all employers in the field.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	For Note 5: All subjects must be treated to the minimum standards; For notes >5 all subjects should be treated to the highest standards;	Written exam - duration 2 hours.	60%
10.5 Seminar			
10.6 Laboratory	During the last laboratory session the students will present the laboratory works, respectively the results obtained.	All laboratory work must be carried out, subject to examination. - Laboratory weight is 40% of the value of the exam note. - Recovering only an outstanding laboratory (in the last week of the semester)	40%
10.7 Project			
	andard of performance	·	

Undertaking coordinated work to solve specific problems in the field, with the correct assessment of the workload, the available resources, the time required to complete and the risks, under the conditions of the application of the safety and health rules at work.

Date of completion

Signature of course holder**

Signature of seminar laboratory/project holder **

Oradea evaluation of programmes of study SEAQ Approved in the Senate meeting from:03.03.2014	University of Oradea	PROCEDURE for the initiation, approval,	CODE: 4	4	
			SEAQ PE – U. 01	Sen	ate meeting

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Date of approval in the department

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Signature of the Head of Department

Prof.Phd.eng. Bandici Gheorge Emil gbandici@yahoo.com

Dean signature

Prof. Phd. eng. CHEREJI Ioan ichereji@uoradea.ro

** - Name, first name, academic degree and contact details (e-mail, web page, etc.) will be specified.