



Universitat de Lleida

DEGREE CURRICULUM

INTEGRATED PRACTICES III

Coordination: NADAL GARCIA, JESUS

Academic year 2020-21

Subject's general information

Subject name	INTEGRATED PRACTICES III				
Code	102436				
Semester	2nd Q(SEMESTER) CONTINUED EVALUATION				
Typology	Degree	Course	Character	Modality	
	Double degree: Bachelor's degree in Forest Engineering and Bachelor's degree in Nature Conservation	3	COMPULSORY	Attendance-based	
	Bachelor's Degree in Forest Engineering	3	COMPULSORY	Attendance-based	
Course number of credits (ECTS)	6				
Type of activity, credits, and groups	Activity type	PRACAMP	PRALAB	PRAULA	TEORIA
	Number of credits	1	2	2	1
	Number of groups	5	4	2	1
Coordination	NADAL GARCIA, JESUS				
Department	ANIMAL HUSBANDRY				
Important information on data processing	Consult this link for more information.				

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
AUNOS GOMEZ, ALVARO IGNACIO	alvaro.aunos@udl.cat	6	
CARDIL FORRADELLAS, ADRIÁN	adrian.cardil@udl.cat	1	
CHOCARRO GOMEZ, CRISTINA	cristina.chocarro@udl.cat	1	
COLL MIR, LLUIS	lluis.coll@udl.cat	2,6	
EIZAGUIRRE ALTUNA, MATILDE	matilde.eizaguirre@udl.cat	0	
NADAL GARCIA, JESUS	jesus.nadal@udl.cat	3	
OLIVA PALAU, JONÀS	jonas.oliva@udl.cat	2	
VILLASANTE PLAGARO, ANTONIO M.	antonio.villasante@udl.cat	2,4	

Subject's extra information

Course / subject in the whole curriculum

Practical group work that integrates forest management, exploitation and management matters considering the defense of the forest and the use of natural resources

Executed progressively in the phases:

1. Study of historical documentation
2. Field work
3. Data analysis to produce results
4. Presentation of management proposal

Requirements to take it

Prerequisites: Integrated Practices I and II, Second Year

Corequisites: Third course

Recommendations

Internship material

Technical documents

Measuring instruments

Aerial photography

Field Chips

Learning objectives

Resolution of a practical case through the development of a project or technical plan for the management, improvement, prevention and use of a mountain under study. The case will be studied both in the field and in the cabinet.

- Quantify natural resources and their legal, economic, ecological status ...
- Evaluate current uses
- Plan forest management: forestry, management and exploitation
- Anticipate, prevent and solve health problems
- Develop strategies for fire prevention and extinction
- Diagnose, obtain yields and conserve non-timber resources
- Design economic balances for sustainable mountain management

Competences

General competences

CB1. Possess knowledge and understand forest systems.

CB2 Competent professional application to elaborate and defend the valid arguments for the correct resolution of management, management and forestry problems

CB3 Ability to collect and interpret relevant data to issue technical judgments

CB4 Ability to transmit information, ideas, problems and solutions to both a specialized and non-specialized public

CB5 High degree of autonomy.

CG1-4. Identification, quantification, planning and management of the different forest, biotic and physical elements, considering the renewable natural resources susceptible to protection, conservation and exploitation in the forestry field.

CG2. Analysis of the ecological structure and function of forest systems and resources, including landscapes.

CG3 Identification of the processes of degradation of forest systems and resources (pollution, pests and ailments, fires, etc.). And Capacity for the use of forest protection techniques, forest hydrological restoration and biodiversity conservation.

CG7 Resolution of technical problems derived from the management of natural spaces. CG8. Management and conservation of wildlife populations, especially hunting and fish farming.

CG10. Application of sustainable forest management techniques (certification) and territory planning.

CG13. Design, development and implementation of projects and technical plans.

CG18. Regarding the fundamental rights of equality between men and women, the promotion of human rights and the values of a culture of peace and democratic values

Specific competences

- CEMC11. Forestry: identification of forest structures
- CEMC12. Dasonomy and Forest Inventory: quantification of forest stands
- CEMC13. Forest use: timber extraction and marketing
- CEEF3. Forest Management: strategies for the cure and exploitation
- CEEF4. Forest Improvement: alternatives to the current condition
- CEEF6. Forest ailments and pests: identification and prevention
- CEEF7. Hunting and Fishing Management. Aquaculture Systems: populations and habitats
- CEEF12. Forest fire prevention and control: strategies and planning

Subject contents

Agenda of the practical activity

- 1 - Quantify natural resources and their legal, economic and ecological status: Review and synthesis of historical documentation on natural resources inventory plots. Counting itineraries.

- 2 - Evaluate current uses: Review and synthesis of historical documentation on current uses.

- 3 - Plan forest management: forestry, management and exploitation: Analysis and interpretation of different mass structures and proposal of applicable silvicultural treatments. Management possibilities with assessment of the characteristics of the mountain, timber exploitation and associated industries

- 4 - Prevent and solve health problems: Identification of present health problems and evaluate future risks, incorporate health in forest management and management

- 5 - Fire fighting plan. Fire risk assessment, prevention measures and action strategies

- 6 - Non-timber resources and uses. Quantification and sustainable use of mycological, fauna and hunting resources

- 7 - Economic budgets. Economic valuation of the proposed actions

Methodology

Activity Type	Description	Face-to-face student activity	Hours	Non-face-to-face student activity	Total		
		Objectives		Student work	Hours	Hours	ECTS
Program Exhibition	Problem statement, integration and organization	Explanation of the objectives, materials, procedures and organization	2	Study, know, understand and synthesize the theoretical foundations to solve the problem	2	4	0.4
Quantify forest resources	Participatory and tutored sessions	Review and synthesis of historical documentation	4	Learn to select and synthesize	10	14	1.4

Seminari de aprofitament s	Participatory and tutored sessions	Evaluate current uses	4	Study the benefits and their sustainability	10	14	1.4
Planificació del treball de camp	Participatory and tutored sessions	Plan and build data collection sheets	4	Prepare data collection sheets	10	14	1.4
Execució del treball de camp	Pràctica de camp	Execution of the practice in the field: inventory	26	Study and analyze the data	20	46	4.6
Seminar on uses	Participatory and tutored sessions	Analyze, interpret, decide and elaborate proposal	10	Prepare technical document	20	30	3.0
Field practice	Field Work Planning	Rethink the proposal in the field	8	Study the feasibility	20	28	2.8
Total			60		90	150	15

Observations

Exhibition of the Integrated Practices program III: objectives, procedure and organization

Quantify forest resources in the area of study, review and synthesis of historical documentation

Seminar on the use of natural resources in the study area. Field work planning, development of measuring instruments. Execution of the field work, taken from data in the field Resolution of the case study: data analysis, elaboration and proposal ..

Rethinking the proposal in the study area

The different kinds of exposure, case resolution, computer practices, laboratory practices and field practices, are developed in large group, medium group (24 students) and small group (3 students). Students have to support, both with their individual work and with their group work, the achievement of the objectives. Both the individual work and the student group work are counted for each student in the face-to-face and non-face-to-face activities.

Evaluation

Activitats

Activity tipe	Evaluation		Weight
	Procedures	Number	qualification
			(%)

Syntesis report	Delivery of technical document	1	20
Analyze report	Delivery of technical document	1	20
Proposal report	Delivery of technical document	1	20
Exposition	Oral presentation	1	40
Total			100

Observations

The oral presentation is in a group of two students, each student has to present a part of the work, the students have to respond individually to the questions posed by the court, to demonstrate their understanding and ability in solving the proposed case. To be evaluated, it is essential to attend field trips.

Bibliography

Bibliografia bàsica

DURANTEL, P. 1993. Nuevo manual de caza. Planeta. Barcelona.

SERRADA R., MONTERO G., REQUE J. (eds), 2008. Compendio de Selvicultura Aplicada en España. INIA, Madrid. 1.178 pp.

CPF, 2004. Manual de redacció de plans tècnics de gestió i millora forestal (PTGMF) i plans simples de gestió forestal (PSGF). Instruccions de redacció i l'inventari forestal. CPF. 316 p.

Bibliografia complementària

BEGON, M.; HARPER, J.L. & TOW NSEND, C.R. 1988. Ecología, individuos, poblaciones y comunidades. Omega. Barcelona.

Tarifas de Cubicación e Inventario por Ordenador. Escuela Técnica Superior de Ingenieros de Montes. Fundación Conde del Valle de Salazar.