



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Agrarie, Alimentari e Forestali		
ACADEMIC YEAR	2022/2023		
MASTER'S DEGREE (MSC)	AGROENGINEERING AND FORESTRY SCIENCES AND TECHNOLOGIES		
SUBJECT	FOREST PLANNING AND FIRE PREVENTION PLANNING		
TYPE OF EDUCATIONAL ACTIVITY	B		
AMBIT	50564-Discipline forestali ed ambientali		
CODE	15425		
SCIENTIFIC SECTOR(S)	AGR/05		
HEAD PROFESSOR(S)	BADALAMENTI EMILIO	Ricercatore a tempo determinato	Univ. di PALERMO
OTHER PROFESSOR(S)			
CREDITS	6		
INDIVIDUAL STUDY (Hrs)	88		
COURSE ACTIVITY (Hrs)	62		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	2		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Not mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	BADALAMENTI EMILIO Tuesday 10:00 13:00 Studio del docente, Dip. SAAF, Edificio, 4, Ingresso H, stanza 26 Thursday 10:00 13:00 Studio del docente, Dip. SAAF, Edificio, 4, Ingresso H, stanza 26		

DOCENTE: Prof. EMILIO BADALAMENTI

PREREQUISITES	Forest mensuration methods knowledge, Forest Management fundamentals. basis of GIS use and remote sensing concepts.
LEARNING OUTCOMES	An indeep knowledge of forest planning at different levels and wildfire management planning should be achieved. Use of specific language of planning at different levels. Pupils should acquire the hability interpreting existing plans and of targeting plan draft individuating the real problems of a territory, using the main techniques of wildfire managing, as fas as drafting plans and programs for parks and natural reserves.
ASSESSMENT METHODS	Final oral exam: based on 3-4 technical questions related to forest planning, wildfire planning, and discussion of the paper drafted as class exercise . The evaluation (minimum grade is 18 and maximum is 30 cum laude) is stated using the following scheme: 1) Knowledge of the topics, capability to apply the learned knowledge, capability to analize the studied problem, ability to present the topic is judged sufficient (18-21) 2) Knowledge of the topics, capability to apply the learned knowledge, capability to analize the studied problem, ability to present the topic is judged fair (22-25) 3) Knowledge of the topics, capability to apply the learned knowledge, capability to analize the studied problem, ability to present the topic is judged good-high (26-28) 4) Knowledge of the topics, capability to apply the learned knowledge, capability to analize the studied problem, ability to present the topic is judged highadvanced (29-30 cum laude).
EDUCATIONAL OBJECTIVES	The main target of the course is to give the pupils the fundamentals of forest planning, wildfire planning and management, parks and reserve planning, in order to make them able to interpreter existing plans and draft new planning. They will be trained with both examining existing example and drafting their own proof plan draft. With regards to wildfires, the course will give the students the main field tools for risk evaluation.
TEACHING METHODS	Frontal lessons and lectures, class and laboratory exercises, field excursion.
SUGGESTED BIBLIOGRAPHY	Corona P., Barbati A., Ferrari B., Portoghesi L. 2011 Pianificazione ecologica dei sistemi forestali. Compagnia delle Foreste. Ecoalleco ISBN=978-88-98850-36-5 Regione Siciliana, 2015 – Piano Regionale per la difesa della vegetazione dagli incendi. Ufficio Speciale Servizio Antincendi Boschivi, Assessorato Agricoltura e Foreste (senza isbn) Articoli di approfondimento AA.VV. (2004) – Standard di buona gestione forestale per i boschi Appenninici e Mediterranei (SAM). AISF (Accademia Italiana Scienze Forestali) (Firenze, 2004), 23 pp. [online] URL: http://www.aisf.it/sam/index.htm Ciancio O., Corona P., Marchetti M., Nocentini S. (2002) – Linee guida per la gestione delle risorse forestali e pastorali nei Parchi Nazionali. A.I.S.F. (Accademia Italiana di Scienze Forestali) (Firenze 2002), 300 pp. Bovio G., 1996 – Come proteggerci dagli incendi boschivi. Regione Piemonte. Torino. Blasi C., Bovio G., Corona P., Marchetti M., Maturani A. (a cura di), 2004 – Incendi e complessita' ecosistemica. Dalla pianificazione forestale al recupero ambientale. Ministero dell'Ambiente e della Tutela del Territorio – Societa' Botanica Italiana. Regione Siciliana, 2007 – Studio sullo sviluppo di un Sistema Comune di Supporto alle Decisioni". Obiettivo: riduzione delle superfici bruciate. Ufficio Speciale Servizio Antincendi Boschivi, Assessorato Agricoltura e Foreste. pp. 45.

SYLLABUS

Hrs	Frontal teaching
3	Fundamental of forest planning, different levels of forest planning, relationships of forest planning and other sectors planning
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2	National forest plan: purposes, structure and contents, some case studies.
3	Regional forest plans: purposes, structure and contents. Case studies (Sicily and Sardinia regions forest plans). relations between RFP and European funded development programs.
3	Intermediate level plans: territorial plans (Piemonte Sardinia plans analisys)
3	Local management plans, structure, contents and case studies
3	Protected areas planning: structure of the plans, contents and case studies
3	Legislazione regionale e nazionale in materia di pianificazione antincendio.
2	Regional and national fire planning legislation.
2	Guidelines for drafting AIB plans in protected areas. Methods for goal setting in fire planning.

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Hrs	Frontal teaching
8	Management plans for some formations (cork oaks, eucalyptus groves
4	Wildfire risk evaluation, fuel model, statistical risk, geographical and meteorological risk analysis
3	Wildfire managing plan drafting: structure, organisation, local and regional plans
6	Drafting a forest type map of a forested area. Comparison of interpreted themes and Forestry maps of the Sicilian Region.
Hrs	Workshops
5	Aerial photo interpretation of land use and forest categories, GIS use and map building. Aerial photointerpretation and transcription on cartography in the GIS environment of classified forest roads and Wild fires fighting facilities of a study area in the regional territory.
Hrs	Others
15	field excursion