UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Ingegneria		
ACADEMIC YEAR	2018/2019		
BACHELOR'S DEGREE (BSC)	CIVIL AND BUIDING ENGINEERING		
INTEGRATED COURSE	TOWN PLANNING AND ENVIRONMENTAL EVALUATION - INTEGRATED COURSE		
CODE	15998		
MODULES	Yes		
NUMBER OF MODULES	2		
SCIENTIFIC SECTOR(S)	ICAR/21, BIO/07		
HEAD PROFESSOR(S)	CONTATO ANNALISA	Ricercatore a tempo determinato	Univ. di PALERMO
OTHER PROFESSOR(S)	CONTATO ANNALISA	Ricercatore a tempo determinato	Univ. di PALERMO
	PIDALA' ANDREA MARÇEL	Ricercatore a tempo determinato	Univ. di PALERMO
CREDITS	12		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	3		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Not mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	**CONTATO ANNALISA** Tuesday 15:00 18:00 Si prega di inviare una email al docente (annalisa.contato@unipa.it) per confermare l'appuntamento e/o provvedere ad adattamento dell'orario in base alle specifiche necessita.		

DOCENTE: Prof.ssa ANNALISA CONTATO

PREREQUISITES	Knowledge of the digital representation techniques, geomatics elements, environmental physics
LEARNING OUTCOMES	Knowledge and capacity 'of understanding (knowledge and understanding) The student will acquire 'awareness of major social, economic and institutional changes which affect the evolutionary dynamics of the cities' and territories and consequently urban planning. He in particular will be 'led to acknowledge the role and the operational characteristics of the different planning tools in relation to the use regulation requirements of soils in compliance with the principles of sustainability' environmental. At the end of the course the student will 'provide a wealth of methodological and practical knowledge that will enable them to understand the role of regulation in territorial transformation processes. Knowledge and ability 'to apply understanding (applying knowledge and understanding) Through the illustration of case studies and the holding of a design exercise, the student will be 'called to develop specific capacity' of application of methodologies and techniques gradually acquired. In particular, the laboratory 'designed to put the student in a condition to face with operational issues aimed at developing the capacity' of understanding and selection needed to profitably apply the acquired techniques. Making judgments (Making judgments) At the end of the course students will have 'developed a specific ability' critical in identifying the techniques most 'relevant solutions in relation to the different situations in which the urban planning and environmental assessment planning. Especially through the illustration of case studies and he 'led to understand, by analogy and differentiation, such as the issues covered by the schedule does not lend themselves to standardized solutions, but rather in need of an autonomous capacity' in the interpretation of the phenomena and the choice of the solutions. He at the same time include 'own professional profile with respect to the plurality' of skills that are required to address in an integrated manner the issues of urban planning and environmental assessment. Enable 'communication (communication skills) During the lectures and Activities' seminars and the student 'urged to interact with the teacher to develop his ability' to debate on issues of general and specific. He also 'called to submit, in advance of stages, the experiments conducted in the laboratory. To this end he and 'invited to adopt from time to time communication tools deemed more' effective in a modern interpretation of the profession, including multimedia presentations and GIS technologies. Capacity 'to learn (learning skills) In addition to being provided the basic resources needed to upgrade their cultural, the student will be 'addressed to the information and documentary sources that will be considered more' useful for the knowledge of the discipline, so as to be able to constantly update.
ASSESSMENT METHODS	Learning the content offered during the course it will be evaluated using two tests: one written and one oral. The written exam, which tends to test skills and knowledge relating to the subject areas of the course will consist of questions, numerical and theoretical, with open answers that meet constraints such as to make them comparable with the predetermined correction criteria. The total score of the written test will be out of thirty and will be the sum of the scores given to each question depending on its complete resolution, partial or not performed. The expected duration of the written examination is two hours and pass the written exam is a necessary condition for access to the oral exam. The oral exam will consist of an interview which will be commented upon the written test and evaluate the properties of language and exposure. At the end of the interview the candidate exposes the elaborate conducted in the worshop. The student will address the individual oral examination even in case he has supported a working group and will be evaluated for the results obtained individually. The tests are designed to ensure that you have skills and subject knowledge provided by the course; in particular, it will evaluate the level of: - Knowledge of the course content -the capacity to establish connections between the course content -capacity computing: understanding of the course content applications - Use of appropriate technical language - Display capacity The score, out of thirty, will be awarded on the basis of the levels on the issues set out above from a minimum which implies a knowledge of the issues addressed and sufficient skills to the maximum level of knowledge, competence, autonomy and language. The final score will be the average of the scores obtained in the two tests.

TEACHING METHODS	lectures, tutorials and workshop

MODULE
ENVIRONMENTAL EVALUATION

Prof. ANDREA MARÇEL PIDALA'

SUGGESTED BIBLIOGRAPHY

Appunti di Valutazione Ambientale, materiali didattici forniti dal docente
L. Colombo, S. Losco, C. Pacella (a cura di), La valutazione ambientale nei piani e nei progetti, Le Penseur, 2008

AMBIT	10685-Attività formative affini o integrative
INDIVIDUAL STUDY (Hrs)	96
COURSE ACTIVITY (Hrs)	54

EDUCATIONAL OBJECTIVES OF THE MODULE

The course addresses the issue of municipal planning in the light of the regulatory provisions concerning the Strategic Environmental Assessment, providing students with specific skills 'critical in identifying the techniques most' relevant solutions in relation to the different situations in which the environmental assessment.
He at the same time include 'own professional profile with respect to the plurality' of skills that are required to address the issues in an integrated form of environmental assessment in the municipal planning process

SYLLABUS

Hrs	Frontal teaching
14	The legal regulations of the environmental assessment in plans Regulatory developments in the environmental assessment: the Legislative Decree no. 152/2006 and subsequent amendments The evaluation process in urban and spatial plan - Strategic environmental assessment: methodological and procedural aspects - Models, evaluation techniques, territorial / environmental indicators and their development - Definition of scenarios and assessment of their sustainability 'environmental and land - Consistency Analysis internal and external - Comparison of alternatives through multi-criteria techniques - Impacts and cumulative effects - environmental monitoring - the participation of the Competent Subjects in environmental Matter and the public in the consultation phase for the formation of the Plan Analysis of case studies GIS tools environmental analysis.

Hrs	Workshops
40	Design Wizard a schematic diagram of an integrated municipal development plan with the SEA procedure

MODULE
TOWN PLANNING

Prof.ssa ANNALISA CONTATO

SUGGESTED BIBLIOGRAPHY	
Appunti di Tecnica Urbanistica, materiali didattici forniti dal docente A. Monaco, Urbanistica, Ambiente e Territorio, Napoli 2008 P. Avarello, Il piano urbanistico comunale, Roma 2004	
AMBIT	50110-Architettura e urbanistica
INDIVIDUAL STUDY (Hrs)	96
COURSE ACTIVITY (Hrs)	54
EDUCATIONAL OBJECTIVES OF THE MODULE	
To give students a critical awareness of the technical and legal rules of town planning in order to be placed within a frame normatively correct and environmentally sustainable all territorial transformation interventions resulting from the infrastructure and engineering projects.	

SYLLABUS

Hrs	Frontal teaching
20	The origins of modern urbanism. The city 'of capital. The ground rent. Generality 'and effects on the territory The plan as of the urban income adjustment tool. The expropriation for public utility The rationalist plan. The Planning Law of 1942: general approach. Instruments and levels of planning The general urban plan. regulatory framework. The procedural route of the PRG training with particular reference to the Sicilian regional law The cognitive framework of the PRG. Support for industry (geological and forest agriculture) studies of planning.
15	Technical content of the PRG. Determination of requirements and sizing. The past and future residential needs. statistical methods for population projections: deterministic models, correlation analysis and regression; the survival model for age classes. The dimensioning of the areas for activities' productive. The discipline of the attivita 'commercial in the light of regional regulations. The dimensioning of the equipment. The urban standards and homogeneous territorial areas according to D.M. 02/04/1968.
14	executive plans: generalities, establishing laws, legal and technical content, training and approval process, with reference to the following plans: · detailed plans of public action; · Agreement of allotment Plans; contents of the agreement; · Plan of affordable housing and popular areas; actuators; · Plan of production plants; · Building restoration plans; general problems of building restoration; · Recovery Plans squatter agglomerations.
5	The implementation of construction projects: building permit, the DIA: presuppositions and legal nature.