

Academic Vice-Rectorate
Central Curriculum Commission
Central Coordination of Undergraduate Studies



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REGISTRATION OF COURSES		RESPONSIBLE OF REGISTRATION:		
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AREA OF KNOWLEDGE		SUB-AREA	UNDERGRADUATE	POSTGRADUATE
BASIC SCIENCES				
ECONOMICS AND SOCIAL				
SCIENCES				
HEALTH SCIENCES				
ENGINEERING,				
ARCHITECTURE AND		ARCHITECTURE	X	
TECHNOLOGY				
EDUCATION SCIENCES				
HUMANITIES AND ARTS				
AGRICULTURAL AND SEA SCIENCES				
MILITARY ARTS AND				
SCIENCES				
SAFETY AND CIVIL				
PROTECTION				
INTERDISCIPLINARY				
OTHERS				
ADSCRIPTION OR BRANCH (ES):				
FACULTY		ARCHITECTURE AND URBANISM		
SCHOOL		ARCHITECTURE		
INSTITUTE				
DEPARTMENT		Environmental Conditioning		
OTHERS				
COURSE:				
NAME		LANDSCAPING		
CODE		A100		
EXECUTIVE UNIT				
CLASSIFICATION		Optative/ Theoretical		
APPROVAL DATE				
UPDATE DATE				
APPROVAL AUTHORITY		Faculty Council		
CREDIT UNITS		Three (3)		
HOURS/WEEK		Three (3)		
REGIMEN		Semi-Annual		
ACADEMIC PERIODS		Regular and Summer Semester		
REQUIREMENTS		ENVIRONMENT AND BUILDING 97 CODE 4041		
PROFESSOR				

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PURPOSES

Environmental planning combines knowledge and capacities proper of the ecological sciences. Conserves the landscaping, aesthetic and ornamental tradition, complementary of the building and city, but developed with a new sense, oriented towards the preservation and balance of the natural environment with the diverse human facilities of the current era. Environmental planning is one of the tools of technic character which involves multi-disciplinary physical, biotic and socio-cultural aspects, which entails to establish criteria and creative capabilities in the field of design of habitable spaces.

This course comprises the study of physical, biotic and socio-cultural factors which constitute the environment, both in the referring to systematic, morphologic and physiologic aspects of itself, as well as fundamental part of the ecological knowledge, basic for the landscaping planning and design.

LEARNING OBJECTIVES

- To expose in a systematic way, the main principles of the eco-system and its fundamental interactions.
- Identify and recognize on each site the factors which come into play in the comfort and health of people.
- To provide to the student the basic knowledge regarding vegetal ecology.
- To offer a broad vision of the vegetal diversity and its interrelation with the environment.
- To allow the deepness of knowledge regarding environmental variables, in this
 case, the vegetation, as fundamental for the environmental design and
 planning.
- To teach the student the ability to interpret and analyse the concepts and factors of the vegetal ecology that must be taken into account for the landscape design.

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CONTENTS

1. Introduction

- Definition of the purpose and objectives of the course.
- Review of the previous knowledge
- Course methodology

2. The ecosystem structure

- Physical factors: Climate, geology, geomorphology, physiography, hydrology, soils.
- Biotical factors: Producers, consumers, decomposers.
- Relations: Dynamic behaviour of ecosystems. Their interactions.

3. The vegetation and its relation with the environment

- Vegetal taxonomy principles. Classification and identification systems.
- Concepts of limiting factors of vegetation: soil, water, temperature, light, fire, biotic factors (fauna).

4. Environmental control with vegetation

 Utilitarian employment of vegetation: Erosion control of soils with vegetation. Wind control with vegetation. Acoustic control with vegetation. Traffic control with vegetation. Lighting control with vegetation. Air purification.

5. Usage of vegetation for different environments

• Solar radiation control with vegetation. Wind control with vegetation. Precipitation control with vegetation. Temperature control with vegetation.

6. Basic principles of the design with vegetation

 Usage of plants in landscape design. Spaces articulation. Perception and definition of spaces. Screens and barriers of spaces.

7. Aesthetic usage of the plants

Visual effects: Colour, form, texture, others. Perspective controls. Visual controls.
 Attraction, emphasise, unification, delineation and other controls.

8. Work criteria for the landscape design

- The landscaping. In the regional, urban and local scope.
- Relationship between landscaping-ecology and architecture. Design criteria for public, semi-public and private spaces.

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INSTRUCTIONAL STRATEGIES

- Professor lectures
- Textbook consults
- Projects discussion
- Audio-visual technics

INSTRUCTIONAL MEDIA

- Specialized textbooks
- Prepared guides by the professor
- Audio-visual material
- Maps
- Charts and graphics

EVALUATION

- Two partial evaluations of 15% each
- A final work 50%
- Readings control 10%
- Participation 10%

TEXTBOOKS

ARISTIGUIETA, L. (s/f). El parque del este; sus plantas y sus ambientes.

DAUBENMIRE, R. (1959). Plants and Environment. New York.

EWEL, J. y Madriz (1978). Zonas de via en Venezuela. Editorial Mc Graw Hill. Caracas.

ODUM, E. (1972). Ecología. Editorial Interamericana. México.

OLYGAY, V. (1979). Design with climate. Princeton University. New Jersey.

POLER, M. (s/f). Clima y Arquitectura. Publicaciones del Banco Obrero. Caracas.

PUPO, E. (s/f). Acondicionamiento natura y Arquitectura. Boixaireu Editores. Barcelona.

STASBURGEN, E. (1974). Tratado de Botánica. Editorial Marín. Marcelona.

ZION, Robert (1979) Trees for Archiecture and Landscape. New York.

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