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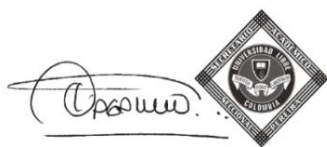
Personería Jurídica No. 192 de 1946 de Mingobierno  
Nit.: 860.013.798-5



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**FREE UNIVERSITY PEREIRA SECTION**

**UNDERGRADUATE PROGRAM IN ENVIRONMENTAL ENGINEERING**



**SUBJECT: PROJECT FORMULATION AND EVALUATION**

**CODE: -----**

**SEMESTER: NINTH**

**HOURS | WEEKLY: 6**

**THEORETICAL: 4**

**PRACTICES: 2**

**REQUIREMENTS: CONSTRUCTION**

**GOALS.**

- That the student is able to identify, prepare and evaluate a project.

**METHODOLOGY.**

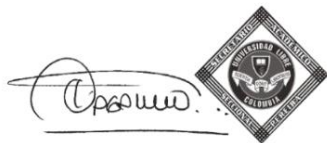
The teacher will give a presentation on the basic topic; then the students will carry out the workshops in groups. Additionally, the students will carry out in the During the semester, they will carry out the identification, preparation and evaluation of a Specific PROJECT.





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## WORK PROGRAM.

### 1. THE NOTION OF DEVELOPMENT IN THE CONTEXT OF PLANNING

- Planning in the light of sustainable development: Development planning, Urban planning of the territory, Environmental planning
- Formulation of an environmental plan: The Geoecological or Biogeophysical environment, Conditions Socioeconomic, Diagnostic synthesis, Environmental zoning
- Foresight: Trend analysis, forecast analysis, scenarios
- Development planning
- The formulation or design of intervention actions: Image and target situation, objectives, strategies, programming actions

### 2. PROJECT IDENTIFICATION, PREPARATION AND EVALUATION

- The project life cycle: pre-investment, operation, results evaluation
- Identification
- Determination of needs and target population
- Size, location and technology
- Cost and benefit flows





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- Cost and benefit update
- Evaluation indicators. Cost-efficiency analysis
- Cost-benefit analysis
- Economic and social evaluation of projects
- Evaluation of alternatives
- Project financing
- Project presentation



#### LITERATURE.

MENDEZ V. ELIAS, Environmental Planning and Sustainable Development, University of Los Andes, Mérida, Venezuela, 1996

NATIONAL PLANNING DEPARTMENT, Methodological Manual for the Identification, Preparation and Evaluation of Drinking Water and Sanitation Projects Basic, Ministry of Economic Development, Co-financing Fund for the Urban Infrastructure, FINDETER, DRI, DNP, OAS, 1994

DNP, OAS, Methodological Manual for the Identification, Preparation and Evaluation of Minor Projects, DNP, 1994





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SANIN A. HECTOR, General Methodological Guide for the Preparation and Evaluation of  
Social Investment Projects, ILPES, Project Management and Programming  
Investments

SANIN A. HECTOR, Methodology for Problem Analysis/Solving and Formulation of  
Alternatives, National Investment Project Bank, Training and AT Program,  
Investment Projects Course

