



**NATIONAL UNIVERSITY OF ENGINEERING**  
**COLLEGE OF ELECTRICAL AND ELECTRONICS**  
**ENGINEERING**  
**ELECTRICAL ENGINEERING PROGRAM**

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**SYLLABUS - EP111 GENERAL ECONOMY**

**I. GENERAL INFORMATION**

<b>CODE</b>	: EP111
<b>SEMESTER</b>	: 2
<b>CREDITS</b>	: 4
<b>HOURS PER WEEK</b>	: 5 (Theory – Practice)
<b>PREREQUISITES</b>	: MA113 Mathematics I
<b>CONDITION</b>	: Compulsory
<b>INSTRUCTOR</b>	: Rodolfo Rojas

**II. COURSE DESCRIPTION**

The aim of this course is to train students for understanding microeconomic and macroeconomic concepts and theories used for analyzing and interpreting market conditions, companies behavior, as well as national and global socio-economic reality.

**III. COURSE OUTCOMES**

1. Understand the market behavior, components and types.
2. Analyze the relationship between demand and supply and market equilibrium.
3. Analyze the factors affecting demand and supply levels and elasticity.
4. Understand the principles of classic and Keynesian macroeconomic theories.
5. Understand the theories explaining economic grow and development.

**IV. LEARNING UNITS**

**1. KNOWLEDGE AND ECONOMIC SCIENCE**

Objectives and methods of economy / Schools of economic thinking and theories / Economy as a social science.

**2. CONSUMER NEOCLASSIC THEORY**

Human needs and expectations / Economic goods / Consumer problem / Demand / Demand behavior and representations / Factors affecting the demand / Demand elasticity.

**3. PRODUCER NEOCLASSIC THEORY**

Production factors / Technology / Production function / Producer problem / Minimum cost function / Supply behavior and representation / Factor affecting the supply / Supply elasticity.

**4. MARKET TYPES**

Market behaviour / Market types / Market behaviour models / Perfect competency market / Determination of price and equilibrium quantity / Monopoly market.

#### **5. CLASSIC MACROECONOMIC THEORY**

Say Law / Money quantitative theory / Production function/ Labour market / Capital market / Full employment with flexible prices / GNP / Inflation and devaluation / Monetary mass / Monetary and fiscal policies / World Bank / International Monetary Fund..

#### **6. KEYNESIAN MACROECONOMIC THEORY**

Consumer function / Money speculative demand / Labour market / Capital market / Simple Keynesian model / Complete Keynesian model.

#### **7. ECONOMIC GROWING AND DEVELOPMENT**

Growing theories / Structural theory (CEPAL) / Center-periphery theory / Impact of technology on economic development./ GNP per-capita / Human development

### **V. PRACTICAL EXPERIENCES**

Quizzes applied to real cases are carried out in class.

### **VI. METHODOLOGY**

The course is carried out in theory and practice sessions. In theory sessions, the instructor introduces concepts, theorems and applications. Several problems are solved and their solutions are analyzed in seminars. After practice sessions, students complete and hand in the part unseen in the quiz they have taken. In all sessions student's active participation is encouraged.

### **VII. EVALUATION FORMULA**

The average grade PF is calculated as follows:

$$PF = ((P1 + P2 + P3)/3 + EP + EF)/3$$

EP: Mid-Term Exam

EF: Final Exam

P#: Quizzes

### **VIII. BIBLIOGRAPHY**

#### **1. HAL VARIAN**

Microeconomic Analysis (Spanish)  
McGraw Hill Editorial, 2005

#### **2. FISHER AND ROWBUSH**

Microeconomy (Spanish)  
McGraw Hill Editorial, 2008

#### **3. GARDNER ACKLEY**

Macroeconomic Theory (Spanish)  
Prentice Hall Editorial, 2008