

Información del Plan Docente

Academic Year	2016/17
Academic center	109 - Facultad de Economía y Empresa
Degree	417 - Degree in Economics
ECTS	5.0
Course	4
Period	Second semester
Subject Type	Optional
Module	---

1.Basic info**1.1.Recommendations to take this course****1.2.Activities and key dates for the course****2.Initiation****2.1.Learning outcomes that define the subject****2.2.Introduction****3.Context and competences****3.1.Goals****3.2.Context and meaning of the subject in the degree****3.3.Competences****3.4.Importance of learning outcomes****4.Evaluation****5.Activities and resources****5.1.General methodological presentation****5.2.Learning activities****5.3.Program**

LESSON 1. INTRODUCTION: INTERACTIONS BETWEEN INNOVATION, ECONOMIC GROWTH AND SUSTAINABILITY

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1. ECONOMIC GROWTH: Empirical and theoretical panoramical view. The decrease of the capital productivity. Solow residual. Exogenous and endogenous growth models. A practical case: Spain 1960-2007.
2. THE CONECTION INNOVATION-ECONOMIC GROWTH: Types of technological change.
3. THE CONECTION ECONOMIC GROWTH-SUSTAINABILITY: The límites to the sustainability of the economic growth.
4. THE INTERACCIÓN SUSTAINABILITY- ECONOMIC GROWTH- INNOVATION: The need of closing he circle.
5. OUTLINE OF THE CONTENT AND THE DEVELOPMENT OF THE COURSE.

LESSON 2. MODELS OF ECONOMIC GROWTH WITH ONE SECTOR OF ACCUMULATION

1. RAMSEY MODEL WITHOUT TECHNICAL PROGRESS.
2. RAMSEY MODEL WITH TECHNICAL PROGRESS.
3. AK MODEL.
4. AN AK MODEL AS REDUCED FORM OF GROWTH WITH KNOWLEDGE DIFFUSION.
5. AN AK MODEL AS REDUCED FORM OF GROWTH WITH PUBLIC INFRASTRUCTURES.

LESSON 3. MODELS WITH ECONOMIC GROWTH WITH TWO ACCUMULATION SECTORS

1. A MODEL OF EXPANSIÓN OF THE VARIETY OF INTERMEDIATE GOODS.
2. A MODEL OF EXPANSION OF THE VARIETY OF FINAL GOODS.
3. THE IMPORTANCE OF EDUCATION AND HUMAN CAPITAL IN THE ECONOMIC GROWTH PROCESS.
4. SCHUMPETERIAN MODELS OF ECONOMIC GROWTH
5. GPT: GENERAL PURPOSE TECHNOLOGÍES

TEMA 4. MODELS OF ECONOMIC GROWTH WITH SUSTAINABILITY IMPLICATIONS

1. THE CONCEPTS OF NATURAL CAPITAL AND CIRCULAR ECONOMY.
2. ECONOMIC GROWTH WITH RENEVABLE NATURAL RESOURCES.

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3. ECONOMIC GROWTH WITH NON-RENEVABLE NATURAL RESOURCES.

4. ECONOMIC GROWTH AND THE ENVIRONMENT QUALITY.

LESSON 5. RESEARCH, DEVELOPMENT AND INNOVATION POLICIES

1. COMPETITION AND INNOVATION. INSTRUMENTS OF PUBLIC INTERVENTION.

2. EXTERNALITIES AND INNOVATION. INSTRUMENTS OF PUBLIC INTERVENTION.

3. EDUCATION POLÍCIES.

4. PATENT POLÍCIES.

LESSON 6. SUSTAINABILITY POLICIES

1.- DISCUSSION ON THE CONCEPT OF SUSTAINABILITY.

2.- RENEVABLE RESOURCES. INSTRUMENTS OF PUBLIC INTERVENTION.

3.- NON-RENEVABLE RESOURCES. INSTRUMENTS OF PUBLIC INTERVENTION.

4.- ENVIRONMENT QUALITY. INSTRUMENTS OF PUBLIC INTERVENTION.

5.4.Planning and scheduling

5.5.Bibliography and recomended resources