

Academic Year: ( 2020 / 2021 )

Review date: 11-03-2019

Department assigned to the subject: Electrical Engineering Department

Coordinating teacher: AMARIS DUARTE, HORTENSIA ELENA

Type: Electives ECTS Credits : 6.0

Year : Semester : 2

**REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)**

Fundamentals of electrical engineering

**OBJECTIVES**

- 1.- Ability to explain concepts related with frequency and voltage control of power systems, voltage stability and state estimation.
- 2.- Ability to solve numerical problems related with the previous concepts.

**DESCRIPTION OF CONTENTS: PROGRAMME**

- 1.- Introduction
- 2.- Voltage control
- 3.- Frequency-voltage regulation
- 4.- Voltage stability
- 5.- State Estimation

**LEARNING ACTIVITIES AND METHODOLOGY**

- Master lectures, doubt solving classes in small groups, student presentations, tutorials and personal work, aimed at the acquisition of knowledge.
- Practical sessions aimed at the acquisition of practical skills related to the program of the course.

**ASSESSMENT SYSTEM**

Continuous assessment based on work, class participation and evaluation tests of skills and knowledge (60%)

Final exam (40%)

<b>% end-of-term-examination:</b>	40
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	60

**BASIC BIBLIOGRAPHY**

- Kundur P. Power Systems Stability and Control, McGraw Hill, 1982