

# Global Learning Semesters

## Course Syllabus

Course: EENG-130 Network Analysis II

Department: Engineering

Host Institution: Intercollege, Nicosia, Cyprus



Course Summary		
Course Code	Course Title	Recommended Credit Hours
EENG-130	Network Analysis II	3
Semester Offered	Contact Hours	Prerequisites
Fall, Spring	42	EENG-120 Network Analysis I. Introduction to basic electrical concepts.
Department	Level of Course	Language of Instruction
Engineering	Lower Division	English

### Course Description

In general the course seeks to develop an understanding of the analysis techniques used in ac networks. In particular the student will be introduced to concepts like frequency response of basic R, L and C elements, resonance, filters and Bode plots as well as power (ac), transformers and operational amplifier circuit model. Furthermore the usefulness of Laplace transform in circuit analysis is illustrated. In addition computer simulation and methods are introduced for the student to become familiar with the application of computer techniques to the analysis of electrical/electronic systems.

### Instructor

Mr. Andreas Serghiou

### Course Aims and Objectives

Being a continuation of Network Analysis I (EENG-120) this course aims to further develop the understanding of the analysis techniques used in electric networks.

### Teaching Methods

The course is delivered through lectures.

### Course Teaching Hours

The course is 42 hours long and is delivered in 14 weeks (3 hours/week).

### Evaluation and Grading

Participation: 5%  
Homework: 10%  
Test I: 20%  
Test II: 25%

Final Exam: 40%

## Readings and Resources

### Required Textbooks

- James W. Nilson, Susan A. Riedel, Electric Circuits, Sixth Edition, Prentice Hall, 2001
- Robert L. Boylestad, Introductory Circuit Analysis, Prentice Hall, Tenth Edition, 2003