

Global Learning Semesters

Course Syllabus

Course: BENG-290 Broadcast Technology I

Department: Engineering

Host Institution: University of Nicosia, Nicosia, Cyprus



| Course Summary | | |
|------------------|------------------------|---|
| Course Code | Course Title | Recommended Credit Hours |
| BENG-290 | Broadcast Technology I | 1.5 |
| Semester Offered | Contact Hours | Prerequisites |
| Spring | 42 | BENG-280 Television. Overall understanding of television. |
| Department | Level of Course | Language of Instruction |
| Engineering | Lower Division | English |

Course Description

The students carry out selected experiments examining video and audio signals. Specific topics covered include: introduction to monitoring and measurement tools, waveform, vector scope, video signal generator, audio generator and analyzer, spectrum analyzer, signal strength meter, video/audio signals and measurements, gamma, color bars, ramp with sub carrier, 2T pulse and window, multiburst, video signal-to-noise test, horizontal blanking interval, vertical blanking interval, component signals, vector display, audio measurements, phase, frequency response, spectrum measurements, and project.

Instructor

Ms. Panayiota Kyriacou

Course Aims and Objectives

To enable the students to understand the various instruments a Broadcast Engineer needs for monitoring and evaluating the quality of video and audio signals.

Teaching Methods

The course is delivered through a mixture of lectures and laboratory experiments.

Course Teaching Hours

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

Evaluation and Grading

Lab Reports: 30%
Lab Performance: 30%
Final Exam: 40%

Readings and Resources

Required Textbook

None

Recommended Readings

- Eugene Trundle, Newnes TV and Video Engineer's Pocket Book, Third Edition, Newnes, 1999
- Instructor's handouts