

Title High frequency technique (Techniki wysokiej częstotliwości)	Code 1010401261010430720
Field TECHNICAL PHYSICS	Year / Semester 3 / 6
Specialty -	Course core
Hours Lectures: 2 Classes: - Laboratory: 1 Projects / seminars: -	Number of credits 4
	Language polish

Lecturer:

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Status of the course in the study program:

Core course of the study for Technical Physics, Faculty of Technical Physics

Assumptions and objectives of the course:

Acquaintance of the students with the generation, amplification and transmission of high frequency signals and their practical applications.

Contents of the course (course description):

The program of the course contains following topics:
Generation and amplification of high frequency (h.f.) signals. H.f. resonators. Transmission of the h.f. signals. Waveguide technique. Emission and detection of the h.f. signals. Antenna technique. Passive and active h.f. systems. Conversion and filtering of the h.f. signals. Measurement of the h.f. signals. Electromagnetic compatibility. H.f. systems in science and technology.

Introductory courses and the required pre-knowledge:

Basic knowledge of electronics and electrotechnics.

Courses form and teaching methods:

Lecture, laboratory exercises.

Form and terms of complete the course - requirements and assessment methods:

Credit of the course

Basic Bibliography:

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Additional Bibliography:

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