

Title <b>Analog circuits</b>	Code <b>1018051210108430300</b>
Field <b>Electronics and Telecommunications</b>	Year / Semester <b>1 / 2</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>2</b> Classes: <b>10</b> Laboratory: -    Projects / seminars: -	Number of credits <b>0</b>
	Language <b>polish</b>

**Lecturer:**

dr inż. Andrzej Woźniak  
Katedra Telekomunikacji Multimedialnej i Mikroelektroniki  
tel. 061 6653896  
e-mail: awozniak@et.put.poznan.pl

**Faculty:**

Faculty of Electronics and Telecommunications  
ul. Piotrowo 3A  
60-965 Poznań  
tel. (061) 665-2293, fax. (061) 665-2572  
e-mail: office\_det@put.poznan.pl

**Status of the course in the study program:**

-Obligatory course in the study program of Faculty of Electronics and Telecommunication.

**Assumptions and objectives of the course:**

-Students should well understand the electromagnetic phenomena occurring in network elements and circuits transmitting signals and energy. Obtain knowledge of circuits analysis methods in steady and transient states useful in investigation and projecting electronic and telecommunication systems.

**Contents of the course (course description):**

-Basic laws in circuit theory especially used for analysis electronic circuits and telecommunication (wider aspect). Linear circuits analysis with nonsinusoidal periodic signals. Fourier analysis techniques. Transients analysis in the time and frequency domain (Laplace transform). Two-port parameters . Transfer function.

**Introductory courses and the required pre-knowledge:**

-Mathematics - fundamentals of differential and integral calculus of real and complex variables, algebra of matrices, complex algebra. Physics - basics of electromagnetic field.

**Courses form and teaching methods:**

-Lectures supported by transparencies, seminars.

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

-Written and oral examination, problem solving sessions.

**Basic Bibliography:**

-

**Additional Bibliography:**

-