

Title <b>Elective Course (Wykł. monograficzny I)</b>	Code <b>1010401261010410718</b>
Field <b>TECHNICAL PHYSICS</b>	Year / Semester <b>3 / 6</b>
Specjalty -	Course <b>elective</b>
Hours Lectures: <b>2</b> Classes: -    Laboratory: -    Projects / seminars: -	Number of credits <b>4</b>
	Language <b>polish</b>

**Lecturer:**

prof. dr hab. Alina Dudkowiak  
dr inż. Marek Nowicki  
Instytut Fizyki  
ul.Nieszawska 13A, Poznań  
Tel.:61 6653177  
Alina.Dudkowiak@put.poznan.pl  
Marek.Nowicki@put.poznan.pl

**Faculty:**

Faculty of Technical Physics  
ul. Nieszawska 13A  
60-965 Poznań  
tel. (061) 665-3160, fax. (061) 665-3201  
e-mail: office\_dtpf@put.poznan.pl

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

Elective course of the study for Technical Physics, Faculty of Technical Physics.

**Assumptions and objectives of the course:**

Knowledge about physical methods used in modern medicine.

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

Optical and electron microscopy. X-rays. X-rays diagnostics. Computer tomography. Natural and artificial radiation. Cancer radiotherapy. Scintigraphy. PET. MNR, EPR, Laser in medical sciences. Thermovision. Optical spectroscopy.

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

Basic knowledge in physics

**Courses form and teaching methods:**

Lectures

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

Writing exam.

**Basic Bibliography:**

-

**Additional Bibliography:**

-