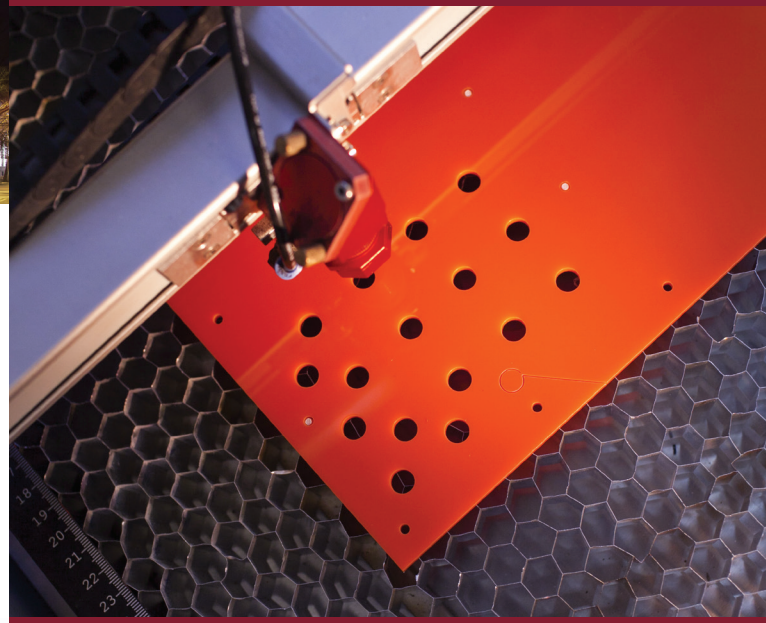
Wrocław University of Technology



"Advanced Applied Electronics" extends knowledge in the field of electronics, optoelectronics, RF technology and telecommunications. It includes practical and theoretical knowledge of advanced analogue and digital electronic systems, lasers and optical fibres, microwave electronics, applications of programmable digital and microprocessor systems in equipment and networks. By choosing studies in English, students significantly improve their language skills and increase mobility potential.

Professor Krzysztof M. Abramski,
program coordinator and lecturer
for the course "Lasers and Applications"

ADVANCED APPLIED ELECTRONICS

STUDIES IN ENGLISH

Program coordinator:
PROFESSOR KRZYSZTOF ABRAMSKI
room 304, building C-5, krzysztof.abramski@pwr.edu.pl

Information: DR JERZY WITKOWSKI
room 132c, building C-4, Jerzy.Witkowski@pwr.edu.pl
phone: +48 71 320 23 09
International Students Recruitment
rooms 306, 307, 308, building K-3,
Plac Teatralny 2
admission@pwr.edu.pl
+48 71 320 37 11

http://ue.pwr.wroc.pl/advanced_electronics.html

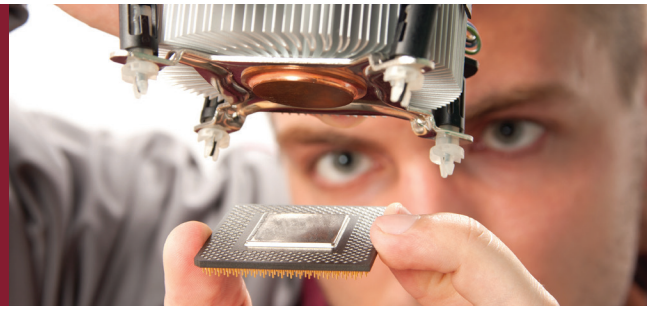
http://ue.pwr.wroc.pl/advanced_electronics.html

GENERAL INTRO

This course will give students multidisciplinary knowledge of electronics, optoelectronics, microwaves and telecommunications. It will enable them to obtain theoretical and practical knowledge in designing applied electronic systems based on analogue and digital techniques, lasers, fibres and microwave electronics as well as gaining expertise in microprocessors, programmable logic applications and signal processing. Additionally students will gain laboratory experience and become familiar with work practices of research laboratories.

JOB PROSPECTS

The graduate will acquire the experience necessary for a professional career in industry, research units and universities, and will be prepared for 3rd level studies (PhD).



COURSE SCHEDULE

1st YEAR, SEMESTER 1

No.	Subject/Module	ECTS
1	Foreign Language	3
2	Mathematics	5
3	Numerical Methods	3
4	Optimization Methods	3
5	Advanced Industrial Electronics	3
6	Advanced Microcontrollers	6
7	Optical Fibres And Optocommunication	6
8	Social communication	1
	TOTAL	30

1st YEAR, SEMESTER 2

No.	Subject/Module	ECTS
1	Diploma Seminar 1	2
2	Noise Reduction In Electronic Systems	2
3	Mathematical Statistics	3
4	Programmable Logic Design	6
5	Digital Signal Processing	6
6	Optimal and Adaptive Filtering Technique	3
7	Computer Network and Systems	3
8	Lasers and Applications	3
9	RF Circuits Design	2
	TOTAL	30

2nd YEAR, SEMESTER 3

Obligatory courses:

No.	Subject/Module	ECTS
1	Master Thesis	20
2	Diploma Seminar 2	1
3	New approaches to Electronics and Telecommunications	1
4	Microwave Applications	2
5	Optional course	6
	TOTAL	30

Optional courses / At least 6 ECTS have to be chosen/:

No.	Subject/Module	ECTS
1	Real Time Operating Systems	4
2	Optoelectronics and Photonics	4
3	Optics And Nonlinear Optics	2
4	Antenna Technique	2
5	Colourimetry and Photometry	2
6a	Applied Wireless Electronics	2
6b	Wireless Data Communication Systems	2
7	Terahertz Technique and Technology	2

ENTRY INFORMATION

Required:

Bachelor Degree in Electrical, Electronic, Computer Engineering or related disciplines.

Each applications is assessed individually on its merits.

If in doubt, please contact the Admission Officer.

Deadline for application:

International students: 30th November 2015
Polish students: check on **www.pwr.edu.pl**

English: Equivalent of minimum TOEFL IBT- 87 points or 6.5 points IELTS . List of accepted language certificates can be checked online: **www.rekrutacja.pwr.edu.pl/en2/**

Tuition fee: Non EU/EFTA students: 4000 EUR per year EU/EFTA students: no tuition fee

Application fee: Non EU/EFTA students: 200 EUR EU/EFTA students: 20 EUR