

# The list of courses offered to Erasmus students in the academic year 2013/2014 at Poznan University of Technology, Faculty of Electronics and Telecommunications

## Legend:

**Type of education:** Lec - lecture, Ex - exercises (problem sessions), Lab - laboratory, Proj - project

Numbers found in front of Lec, Ex, Lab or Proj denotes the number of academic hours taught per week

**Attention:** Erasmus students visiting the Faculty of Electronics and Telecommunications at Poznan University of Technology are allowed to select the courses exclusively from the list shown below.

### Spring semester (Semester No. 4, 6 - B.Sc. in E&T) ECTS Desc

Analog Electronic Circuits (E)	2Lec	0Ex	2Lab	0Proj	4	
Elective Course in Signal Processors	1Lec	0Ex	2Lab	0Proj	3	
» Programming of Digital Signal Processors						
Microprocessors (Lec+Ex only, E)	2Lec	1Ex	0Lab	0Proj	3	
Waves and Antennas	1Lec	0Ex	1Lab	0Proj	3	
Elective Course in Computer Aided Systems	1Lec	0Ex	2Lab	0Proj	3	
» Computer Aided Design						
Elective Course in Computer Measurement Systems (E)	2Lec	0Ex	2Lab	0Proj	4	
» Computer Measurement Systems						
Elective Course in Database Operation Systems	2Lec	1Ex	0Lab	0Proj	2	
» Databases						
» Operating Systems						
Elective Course II	2Lec	1Ex	0Lab	0Proj	3	
» Routing protocols						

### Autumn semester (No. 5, 7 - B.Sc. in E&T) ECTS Desc

Microprocessors (Lab only)	0Lec	0Ex	2Lab	0Proj	2	
Waves and Antennas (E)	2Lec	0Ex	2Lab	0Proj	4	
Elective Course in Computer Networks (E)	2Lec	0Ex	2Lab	0Proj	4	
» Switched network technologies						
Elective Course in Optoelectronics and Photonics	1Lec	1Ex	1Lab	0Proj	2	
» Optoelectronics and Photonics						

Elective Course in Digital Transmission Systems (E)	2Lec	1Ex	0Lab	0Proj	3	
» Digital communication systems						

### Semester 0 (Autumn semester) - can be selected by both B.Sc. and M.Sc. students ECTS Desc



Elective Course 0.1 (E)	2Lec	2Ex	2Lab	0Proj	5	
» Foundations of Wireless Communications						
Elective Course 0.2 (E)	2Lec	2Ex	0Lab	0Proj	5	
» Introduction to Programming in Matlab						
Elective Course 0.3 (E)	2Lec	0Ex	2Lab	0Proj	5	
» Introduction to Multimedia						
Elective Course 0.4 (E)	2Lec	2Ex	0Lab	0Proj	5	
» Communication Networks						
Telecommunications Systems (E)	2Lec	2Ex	0Lab	0Proj	5	
Digital Signal Processing (E)	2Lec	0Ex	2Lab	0Proj	5	

### Semester 1 (Spring semester - M.Sc. courses) ECTS Desc







Selected Topics in Mathematics (E)	3Lec	3c	0Lab	0Proj	6	
Numerical Methods	1Lec	1Ex	0Lab	0Proj	2	
Foreign/Polish language	0Lec	2Ex	0Lab	0Proj	1	
Information and Coding Theory (E)	2Lec	2Ex	0Lab	0Proj	5	
Mobile Systems (E)	2Lec	1Ex	0Lab	0Proj	3	
Multimedia Systems	1Lec	0Ex	1Lab	0Proj	2	
Satellite Navigation Systems	2Lec	0Ex	0Lab	0Proj	2	
Optical Fiber Communication Systems (E)	2Lec	0Ex	1Lab	0Proj	4	
Safety and Work Hazard	4Lec	0Ex	0Lab	0Proj	-	
Network Management (E)	1Lec	1Ex	1Lab	0Proj	3	
Practical Placement	0Lec	0Ex	0Lab	0Proj	2	

### Semester 2 (Autumn semester - M.Sc. courses) ECTS Desc


Advanced Signal Processing Algorithm (E)	2Lec	2Ex	0Lab	0Proj	5	
(-)Optimization Methods	1Lec	0Ex	1Lab	0Proj	2	
Telecommunication Network Design (E)	2Lec	1Ex	0Lab	0Proj	4	
Programmable Digital Systems (E)	1Lec	0Ex	2Lab	0Proj	4	
Workshop	0Lec	0Ex	0Lab	2Proj	1	
Elective Course 2.1 (E)	2Lec	0Ex	2Lab	0Proj	5	
» Security in Communication Networks						

Elective Course 2.2 (E) » <b>Wireless System Design</b>	2Lec	0Ex	2Lab	0Proj	5	
Elective Course 2.3 » <b>Programming of Mobile Devices</b>	2Lec	1Ex	1Lab	0Proj	4	

Semester 3 (Spring semester - M.Sc. courses)						ECTS	Desc
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Diploma Seminar	0Lec	0Ex	0Lab	1Proj	20	
Elective Course 3.0 » Broadband Networks	1Lec	0Ex	1Lab	0Proj	2	
» Advanced Transmission Tech.in Wireless and Satellite Systems						
Elective Course 3.1 (E) » <b>Software Defined and Cognitive Radio</b>	2Lec	0Ex	0Lab	1Proj	3	
Elective Course 3.2 (E) » <b>4G Wireless Networks (2 ECTS points in place of Elective Course 3.0)</b> » <b>Advanced Programming of Mobile Devices</b>	2Lec	0Ex	1Lab	0Proj	3	 
Elective Course 3.3 » <b>Design of Systems with FPGA</b>	1Lec	0Ex	2Lab	0Proj	2	 

Autumn semester - Additional M.Sc. Courses						ECTS	Desc.
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Elective course 2.1 (E) » <b>Distributed Measurement Systems</b>	2Lec	0Ex	2Lab	0Proj	5	
Elective course 2.3 » <b>Synchronous Digital Hierarchy</b>	2Lec	0Ex	0Lab	2Proj	4	
Elective course 2.3 » <b>Security in computer networks</b>	2Lec	1Ex	1Lab	0Proj	4	
Elective course 2.1 (E) » <b>Network Operating Systems</b>	2Lec	1Ex	1Lab	0Proj	5	

### Attention:

Elective course names shown in red have been selected by the students and they can be attended by Erasmus students as well