



# *EFE*

*European  
Faculty of  
Engineering*

**Inauguration of 2017/18  
academic year**



# *European Faculty of Engineering*

- The courses are realised by three Faculties of Częstochowa University of Technology
  - Faculty of Mechanical Engineering and Computer Science
    - Computer Modelling and Simulation (**CMS**)
  - Faculty of Infrastructure and Environment
    - Biotechnology for Environmental Protection (**BEP**)
    - Intelligent Energy (**IE**)
  - Faculty of Management
    - Business and Technology (**BT**)
- You will have classes with teachers from all Faculties
- But formally you are a student of **one** Faculty (depending on your specialisation)





# *European Faculty of Engineering*

- all the lectures, practical activities and projects are taught in **English**;
- studies last 3,5 years (**BSc** engineering course);
- lectures are given by academic teachers from our University who cooperate with foreign centres, and by invited lecturers from partner universities
- only fundamental subjects are taught in a traditional way (lecture format);
- education is carried out through **individual programmes** of study with one to one tutor/student supervision
- some classes are attended also by students from foreign exchange program (ERASMUS)



# *European Faculty of Engineering*

## EFE staff



**Director of European Faculty of Engineering**

Dr inż. Maciej Marek



**EFE deputy director**

Dr inż. Elżbieta Moryń-Kucharczyk



**Coordinator for the promotion and development**

Dr inż. Manuela Ingaldi



**Tutor of Computer Modelling and Simulation (CMS)**

Dr inż. Dariusz Asendrych



**Tutor of Biotechnology for Environmental Protection (BI)**

Dr hab. Magdalena Zabochnicka-Świątek



**Tutor of Business and Technology (BT)**

Dr inż. Manuela Ingaldi



**Tutor of Intelligent Energy (IE)**

Dr inż. Michał Turski



# *European Faculty of Engineering*

- **Dr Eng. Maciej Marek – EFE coordinator**

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# *European Faculty of Engineering*

- **Dr Hab. Magdalena Zabochnicka-Świątek – tutor of „Biotechnology for Environmental Protection (BEP)”**

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- **Dr Eng. Manuela Ingaldi – tutor of „Business and Technology (BT)”**

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# *European Faculty of Engineering*

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- **Dr Eng. Michał Turski**– tutor of „Intelligent Energy (IE)”

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### Study programmes



The European Faculty of Engineering offers courses in the following fields of study:

- Biotechnology for Environmental Protection (BEP)
- Business and Technology (BT)
- Computer Modelling and Simulation (CMS)
- Intelligent Energy (IE)

**Biotechnology for Environmental Protection** is organised by the Faculty of Infrastructure and Environment, and gives students an opportunity to study the latest developments in biotechnology in the field of environmental protection.

**Business and Technology** is organised by the Faculty of Management and aims to produce specialists with the technical and economic knowledge and flexibility needed to cope with the rapidly changing technological and organizational needs of today's world.

**Computer Modelling and Simulation** is organised by the Faculty of Mechanical Engineering and Computer Science and aims to produce specialists in the computer modelling of systems and technological processes who can meet the requirements of research and development centres.

**Intelligent Energy** is organised by the Faculty of Infrastructure and Environment, and aims to produce specialists in energy engineering with an up-to-date knowledge of renewable energy sources.

The study programmes are included below. Due to a change in the organization of the EFE courses, there will be a transition period ending with 2017/18 academic year. The most important change is the removal of the mobility semester since 2016/17 academic year.

Academic year	Profile
2017/18	BI/IE   BT   CMS





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### CMS\_14-15



Academic year: 2014/15

Profile: COMPUTER MODELLING AND SIMULATION (CMS)

semester I	I.6. Chemistry	2LE, 2T	
	I.7. Management	2L	
	I.1. Engineering Design I	1L, 3Lab	
	I.2. Engineering Physics-Mechanics I	2LE, 2T	[6 ECTS]
	I.3. Mathematics I	3LE, 2T	[6 ECTS]
	I.4. Computer science	1L, 1T	[2 ECTS]
	I.5. Communication skills	4T	[2 ECTS]
semester II	II.1. Biology, Ecology and Environmental Protection I	1L, 1T, 2Lab	[5 ECTS]
	II.2. Engineering Design II - CAD	1LE, 3Lab	[6 ECTS]
	II.3. Engineering Physics-Electromagnetism	2L, 1T	[4 ECTS]
	II.5. Engineering Physics-Mechanics II	2LE, 2T	[6 ECTS]
	II.6. Mathematics II	3L, 2T	[6 ECTS]
	II.7. Sports	2T	[1 ECTS]
	II.8. Communication skills	4T	[2 ECTS]
	III.7. Project	2P	[2 ECTS]
semester III	III.8. Earth Science and Hydrology	2L	[2 ECTS]
	III.9. Civil Engineering	1L, 1P	[2 ECTS]
	III.10. Micro- and Macro Economics I	2L, 1T	[2 ECTS]
	III.1. Biology, Ecology and Environmental Protection II	1L, 2T	[3 ECTS]

Course descriptions



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### CMS\_14-15

Academic year: 2014/15  
Profile: COMPUTER MODELLING AND SIMULATION

semester I	I.6. Chemistry
	I.7. Management
	I.1. Engineering Design
	I.2. Engineering Physics
	I.3. Mathematics I
semester II	I.4. Computer science
	I.5. Communication s
	II.1. Biology, Ecology a
	II.2. Engineering Des
	II.3. Engineering Phys
	II.5. Engineering Phys
	II.6. Mathematics II
	II.7. Sports
semester III	II.8. Communication s
	III.7. Project
	III.8. Earth Science an
	III.9. Civil Engineering
	III.10. Micro- and Mac
	III.1. Biology, Ecology and Environmental Protection II
	III.2. 1L, 2T
	III.3. [3 ECTS]
	III.4.
	III.5.
III.6.	

Code	I.2.
Course Title (English)	. Engineering Physics-Mechanics I
Course Title (Polish)	Fizyka techniczna – Mech. tech. z wytrż. materiałów I
Credits	6 ECTS

Language of instruction **English**

Programme Computer Modelling and Simulation, Intelligent Energy, Biotechnology for Environmental Protection, Business and Technology

Type of studies BSc studies

Unit running the programme Institute of Mechanics and Machine Design Fundamentals

Course coordinator and academic teachers **Jacek Przybylski, Assoc. Prof.**, Jacek Przybylski, Assoc. Prof., (Lec.), Krzysztof Sokół, Ph.D. (Tut.)

Form of classes and number of hours

Semester	Lec.	Tut.	Lab.	Proj.	Sem.	Credit points
1	30	30	-	-	-	6

Learning outcomes

The objectives of this course are designed to instruct engineering students in the principles of mechanics. Students will learn to describe forces as vector quantities; to analyse the equilibrium of concurrent force systems; to manipulate and simplify systems of forces and moments; to analyze the equilibrium of nonconcurrent force systems; to analyse simple structures; to apply the principles of dry friction to statics problems; to calculate centers of gravity and centroids and moments of inertia for simple shapes. The objective of kinematics is to teach students how to calculate velocity, acceleration, position of particles and objects and especially to apply concepts of kinematics to particles and rigid bodies in two dimensions, specify the position, velocity and acceleration of a particle in 2-D motion using graphical, algebraic and vector methods; to differentiate a rotating vector; to apply concepts of relative velocity, angular velocity and instantaneous centre of velocity of rigid bodies.



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## Download



### Materials for downloading

[Campus map](#)

[EFE Wallpaper](#) (1024 x 768)

[EFE\\_Workplan\\_plan zajęć\\_I\\_sem\\_2017\\_2018](#)

[EFE\\_Workplan\\_plan zajęć\\_III\\_sem\\_2017\\_2018](#)

[EFE\\_Workplan\\_plan zajęć\\_V\\_sem\\_2017\\_2018\\_BI+IE](#)

[EFE\\_Workplan\\_plan zajęć\\_V\\_sem\\_2017\\_2018\\_CMS+BT](#)

[EFE\\_Workplan\\_plan zajęć\\_VII\\_sem\\_2017\\_2018\\_CMS](#)



**EFE - Plan zajęć**  
semestr I, rok akademicki 2017/2018

**EFE - Lecture Timetable**  
1<sup>st</sup> semester, academic year 2017/2018

<i>Hour godzina</i>	<i>Monday poniedziałek</i>	<i>Tuesday wtorek</i>	<i>Wednesday środa</i>	<i>Thursday czwartek</i>	<i>Friday piątek</i>
8-9	Mathematics I (Lecture) <i>prof. Z.Domański</i> (WIMiI) <b>room 310 /IM/ (Armii Krajowej 21)</b>	Engineering Design I (Lecture) <i>prof. B.Posiadała</i> (WIMiI) <b>room 41 /IMiPKM/ (Dąbrowskiego 73)</b>	Engineering Physics- Mechanics I (Tutorials) <i>prof. J.Przybylski</i> (WIMiI) <b>room A12 (Dąbrowskiego 73)</b>	Management (Lecture) <i>prof. P.Pachura</i> (WZ) <b>room S-22 /DS4/ (Armii Krajowej 36B)</b>	X
9-10		Chemistry (Lecture) <i>dr B.Karwowska</i> (WiŚ) <b>room A22 (Dąbrowskiego 69)</b>			
10-11				Mathematics I (Tutorials) <i>dr J.Pozorska</i> (WIMiI) <b>room 114 /ITM/ (Armii Krajowej 21)</b>	Communication Skills (Tutorials) <i>mgr M.Gałkowski</i> <b>SJO (Dąbrowskiego 69)</b>
11-12		Chemistry (Tutorials) <i>dr B.Karwowska</i> (WiŚ) <b>room A22 (Dąbrowskiego 69)</b>			X
12-13	Communication Skills		Computer Science (Lecture) <i>prof. R.Scherer</i> (WIMiI) <b>room 114 /ITM/</b>		X

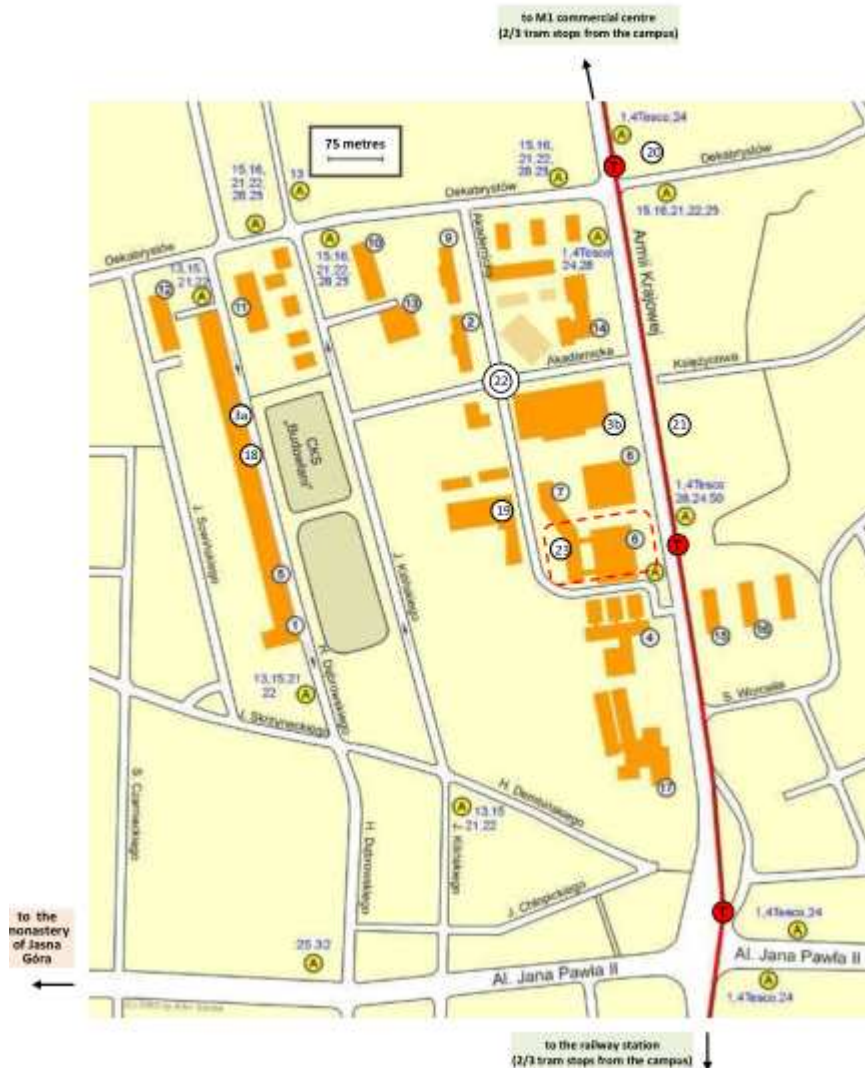


# European Faculty of Engineering

## CzUT university campus

University buildings, except very few ones, are located at the university campus. Its details are shown at the map below. All the buildings are available within max. 10-minute walk.

Campus map





# *European Faculty of Engineering*

- Academic quarter
  - Classes start always 15 minutes after assigned time
  - ...unless the teacher decides otherwise
- For instance

<i>Hour godzina</i>	<i>Monday poniedziałek</i>	<i>Tuesday wtorek</i>
8-9	Mathematics I (Lecture) <i>prof.</i> <i>Z.Domanski</i> (WIMiI) room 310 /IM/	Engineering Design I (Lecture) <i>prof.</i> <i>B.Posiadala</i> (WIMiI) room 10 /IMiPKM/
9-10		Chemistry (Lecture) <i>dr</i> <i>B.Karwowska</i> (WiSiB) room D3
10-11		

Starts at 8.15 am,  
ends on 9.00 am

Starts at 9.15 am,  
to 10.00 am,  
15 min. break,  
ends on 11.00 am



# *European Faculty of Engineering*

# Any questions?

The presentation will be available at  
EFE website (Download section)