



COURSE DESCRIPTION

Course code	full-time studies	
	part-time-studies	
Course name	HES 1 Historia techniki	
Course name in English	HES 1 History of technology	
Valid from academic year	2022/23	

PLACEMENT IN THE TEACHING PROGRAM

Field of study	Computer Science
Level of education	1st degree
Studies profile	General
Form and method of teaching classes	Full-time and part-time studies
Specialization	All specializations / Information systems / Computer graphics / Information and communica- tion technology
Organizational unit responsible for the course	Katedra Informatyki Stosowanej
Course coordinator	Dr inż. Ludomir Tuszyński
Approved by	Dean of the Faculty of Electrical Engineering, Automatic Control and Computer Science Roman Denziak, KUT prof., DSc, PhD

GENERAL CHARACTERISTIC OF THE COURSE

Course affiliation	Subject of general education	
Course status	Selectable	
Language	Polish	
Semester	full-time studies	Semester IV
	part-time-studies	Semester II / Semester III
Requirements		
Exam (YES/NO)	NO	
ECTS	1	

Course form		lecture	classes	laboratory	project	other
Hours per semester	full-time studies	15				
	part-time-studies	9				

LEARNING RESULTS

Category	Result Symbol	Learning Results	References to the field of study results
Knowledge	W01	Student has basic knowledge of the history of the development of civilization and the history of the development of technology.	INF_W24
	W02	Student knows basic inventions and scientific discoveries.	INF_W24
	W03	Student has knowledge of the history of the most significant devices, objects and technical systems for humanity.	INF_W24
	W04	Student knows the historical and contemporary trends of technological development.	INF_W24
Skills Social competence	U01	Student is able to acquire knowledge and information about the surrounding technical objects and communicate them in a clear and understandable way.	INF_U24
	U02	Student can assess the negative and positive effects of implementing discoveries and inventions.	INF_U24
	K01	Student is aware of and understands the effects of technical and engineering activities.	INF_K3, INF_K4, INF_K5

COURSE CONTENT

Course Form	Content
lecture	<ol style="list-style-type: none"> 1. Technology in ancient countries. 2. Technical thought of the Middle Ages. 3. Technology during the Industrial Revolution. 4. The development of world technology in the twentieth century and today. 5. Outstanding creators of technology. 6. The most important inventions of humanity. 7. The role of Polish technical thought in the global development of technology.

LEARNING RESULTS VERIFICATION METHODS

Result Symbol	Learning results verification methods					
	Oral Exam	Written Exam	Midterm	Project	Report	Other
W01			X			
W02			X			
W03			X			
W04			X			
U01			X			
U02			X			
K01			X			

ASSESSMENT FORMS AND CRITERIA

Course Form	Assessment Form	Assessment Criteria
lecture	passing with a grade	Obtaining at least 50% of the points from the colloquium

STUDENT'S VOLUME OF WORK

ECTS Balance														
No.	Activity Type	Student Involvement										Unit		
		full-time studies					part-time-studies							
		Lec	C	Lab	P	S	Lec	C	Lab	P	S			
1.	Participation in classes according to the schedule	15					9							h
2.	Other (consultations, exams)	2					1							h
3.	Total with the direct assist of an academic teacher	17					10					h		
4.	Number of ECTS, that students obtains with the direct assist of an academic teacher	0,68					0,4					ECTS		
5.	Hours of unassisted student work	8					15					h		
6.	Number of ECTS that student obtains working unassisted	0,32					0,6					ECTS		
7.	Practical classes volume of work	0					0					h		
8.	Number of ECTS obtained by student at practical classes	0,0					0,0					ECTS		
9.	Total student's volume of work expressed in hours	25					25					h		
10.	ECTS	1										ECTS		

BIBLIOGRAPHY

1. Craughwell T. J., Wielka księga wynalazków, Wyd. Bellona, Warszawa 2010.
2. Dylewski A., Niezwykły świat techniki. Najciekawsze zabytki w Polsce, Świat Książki, Warszawa 2005.
3. Liebfeld A., Ojcowie postępu technicznego, PW „Wiedza powszechna”, Warszawa 1970.
4. Łotysz S., Wielkie wynalazki, Wyd. Dragon, Bielsko-Biała 2014.
5. Machalski A., Od młota kamiennego do rakiety kosmicznej, WNT, Warszawa 1963.
6. Orłowski B., Powszechna historia techniki, Warszawa 2010.
7. Parry D., Niezwykła technika starożytności, Wyd. Amber, Warszawa 2006.
8. Pater Z., Wybrane zagadnienia z historii techniki, Wyd. Politechniki Lubelskiej, Lublin 2011.
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10. Rychter W., Dzieje samochodu. WKiŁ, Warszawa 1979.