

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Pedagogies and Teaching Methods		Code 1010401111010410479
Field of study EDUCATION IN TECHNOLOGY AND	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 1
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 2 Classes: 2 Laboratory: - Project/seminars: -		No. of credits 4
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 2 50% 2 50%
Responsible for subject / lecturer: dr hab. Maria Kozielska prof. PP email: Maria.Kozielska@put.poznan.pl tel. 665 31 99 Faculty of Technical Physics ul. Nieszawska 13A 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	basic knowledge of the humanities and social subject (core curriculum for secondary schools, basic level)
2	Skills	ability to solve basic problems of learning methods, based on their knowledge, ability to obtain information from the identified sources
3	Social competencies	understanding of the need to expand their competences, willingness to work together as a team
Assumptions and objectives of the course: 1. Students introduction to the issues and concepts of pedagogy and didactic including informatics science and techniques, on the matter of program content of the relevant field of study 2. Inspiring students to critical reflections on modern education 3. Methodological preparation the students to teach classes		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. Students skills: define the basic concepts of pedagogy and didactics, concluded in the curriculum, appropriate for field of study, give simple examples of their use in the world around [K_W04] - [K_W04] 2. formulate and explain the basic problems and dilemmas of teaching techniques, information, upbringing and education informatics - [K_W04] 3. explain the methods of teaching and learning resulting from the modern theories - [K_W04]		
Skills: 1. Students skills: apply its knowledge outcomes for designing didactic - [K_U01] 2. to teach in the field of techniques and informatics in line with the modern didactics - [K_U02] 3. benefit from an understanding of the identified sources of knowledge in both Polish and English and acquire its knowledge from other sources - [K_U01]		
Social competencies: 1. Students skills: active engagement in problem solving of upbringing, technical and informatics education and human behavior engineering, development and improvement their skills - [K_K01, K_K03, K_K06] 2. follow compliance with fundamental ethical principles - [K_K02, K_K09]		

Assessment methods of study outcomes	
<p>a written exam / oral [W01, W02, W03, colloquium [U01, U02, U03]</p> <ol style="list-style-type: none"> 1. 50.1%-70.0% 2. 70.1%-90.0% 3. 90.1%-100% <p>- evaluate the activity of the auditorium and seminar exercises [KO1]</p> <ol style="list-style-type: none"> 1. student had a modest involvement in solving the problems of technical education and information, encouraged to find a solution based on the knowledge gained 2. student has a involvement in solving the problems of technical education and information, looking for solutions based on the knowledge gained 3. student demonstrates a strong commitment to solving technical education and information, alone looking for solutions on the basis of the knowledge gained, looking for additional sources of knowledge useful to solve the problem, looking for solutions in situations of non-standard <p>- talk about the rules exam and reckoning colloquy [K02] student understands the aim of exams and colloquiums passing</p>	
Course description	
<ol style="list-style-type: none"> 1. Human being in the world of technique 2. Technique versus upbringing 3. How educate in modern world? 4. Education for modern society 5. Information and technical education in the knowledge society 6. Training attitudes humanities 7. Language and concepts of pedagogy 8. The modern concept of technical education and informatics 9. Selected problems of technical education and informatics science 10. Designing didactic 11/12. Contemporary theories of learning 13. Sensory preferences and learning styles of human 14. Styles of learning in modern education 15. Computer-aided engineering education and information - media didactics 	
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Dryden G., Vos J., Rewolucja w uczeniu się, Zysk i S-ka, Poznań 2003. 2. Gagne R.M. i inni, Zasady projektowania dydaktycznego, WSIP Warszawa 1992. 3. Furmanek W., Podstawy edukacji zawodowej, Rzeszów 2000. 4. Konarzewski K., Sztuka nauczania, PWN, Warszawa 1992. 5. Kozielska M., Komputerowe wspomaganie edukacji, Pedagogium, Szczecin 2003. 6. Kozielska M., Edukacja techniczna w kontekście współczesnych teorii uczenia się i technologii informacyjnych, A. Marszałek, Toruń 2011. 7. Śliwerski B. (red.) Pedagogika, tom 2, GWP, Gdańsk 2006. 	
<p>Additional bibliography:</p> <ol style="list-style-type: none"> 1. Kozielska M., (red.) Edukacja dla społeczeństwa wiedzy, A. Marszałek, Toruń 2007. 2. Kozielska M., (red.), Technologie informacyjne w poznawaniu wiedzy matematyczno-przyrodniczej, A. Marszałek, Toruń 2010. 	
Result of average student's workload	
Activity	Time (working hours)

1. participation in lectures	30	
2. reminder the content of the last lecture, analysis of other lectures	10	
3. participation in auditorium exercises	30	
4. preparation for exercise	10	
5. preparation for the colloquium first completion	5	
6. participation in consultations associated with education process	2	
7. exam preparation	10	
8. the presence of the exam	3	
Student's workload		
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	65	2
Practical activities	35	2