## COURSE DESCRIPTION CARD

Bialystok University of Technology Faculty of Engineering Management										
Field of study	Management						Degree level and programme type	first degree/ second degree		
Specialisation/ diploma path	-						Study profile	-		
Course name		Technology Innovation				ion	Course code	IS-FM-00093W		
	,							Course type	elective	
Forms and number of	L	C	LC	Ρ	SW	FW	S	Semester	winter	
hours of educational activities		30						No. of ECTS credits	5	
Entry requirements							-			
Course objectives	<ul> <li>Knowledge: Students acquire modern knowledge of the methods used in the process of technological innovation management.</li> <li>Skills: Ability to use selected methods of technology management.</li> <li>Social competences: Competence in presentation and discussion of prepared projects.</li> </ul>									
Course content	of te fram innov meth ident level asse techt techt stude the imple	The thematic blocks to be covered by the classes include: the basics of the concepts of technology, innovation, technology management, technology management framework; discussion of selected creative methods related to the search for innovation; implementation of selected creative methods; discussion of selected methods of analysis of the current state of technology development enabling identification and selection of technologies, discussion of technology readiness level scale; preparation by students technology card as part of the technology assessment process for a selected technological solution; discussion of technological development and search for technological innovations; preparation by students a technological roadmap for a selected technological solution; discussing the communication aspect of innovative ideas/solutions with stakeholders; implementation by students of an exercise in the field of stakeholder communication (stakeholder mapping).								
Teaching methods		case study, presentation, discussion, project								
Assessment method	pro	projects implementation, presentation and discussion of the projects, discussion during classes								
Symbol of learning outcome				Lea	rning				Reference to the learning outcomes for the field of study	

	Knowledge: the graduate knows and understands					
L01	the graduate understands and explains basic concept					
201	related to technology innovation management					
LO2	the graduate knows and understands selected methods of					
LUZ	technology innovation management					
	Skills: the graduate is able to					
LO3	the graduate is able to use selected creative methods in					
LOJ	the process of searching for technological innovations					
	the graduate is able to make a diagnosis of the current					
LO4	state of technology and determine the directions of its	-				
	development using selected methods					
	Social competence: the graduate is ready to					
LO5	the graduate is ready to prepare presentations concerning		_			
LUG	technological innovations	•				
LO6	the graduate is ready to work out a strategy of	-				
LUU	communication with stakeholders					
Symbol of		Type of tuition during which the				
learning	Methods of assessing the learning outcomes					
outcome		outcome is assessed				
1.04		asse	ssea			
L01	evaluation of discussions during classes					
L02	evaluation of discussions during classes					
LO3	evaluation of discussions during classes, evaluation of					
	project implementation and presentation					
LO4	evaluation of discussions during classes, evaluation of					
-	project implementation and presentation					
LO5	evaluation of discussions during classes, evaluation of					
	project implementation and presentation					
LO6	evaluation of discussions during classes, evaluation of					
	project implementation and presentation					
Student workload (in hours)		No. of hours				
	Participation in the classes	30				
	Preparation for the classes	40				
Calculation	Consultations	5				
	Independent work on projects	50				
	TOTAL:	125				
	•		No. of			
	HOURS	ECTS				
			credits			
Student workle	35	1,4				
	125	5				
	1. Cetindamar D., Phaal R., Probert D.; Understanding tech a dynamic capability: A framework for technology manage					
Basic	Technovation 2009; 29; 237–246.					
references	2. Sharif M. N.; Technological innovation governance for winning the future;					
	Technological Forecasting and Social Change 2012; 79/	•	- ,			
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Author of the programme	Alicia Gudanowska, PhD					
unit conducting the course	International Department of Logistics and Service Engineering	Date of issuing the programme				
Organisational						
Supplementary references	<ul> <li>Londyn: Chapman&amp;Hall, 1995.</li> <li>2. Gudanowska A.; <i>Technology mapping as a tool for techno studies</i>; Technology Management Conference : ITMC 2 2014, IEEE, ISBN 978-1-4799-3312-9; 1-4.</li> <li>3. Daim T.U., Oliver T.; <i>Implementing technology roadma</i></li> </ul>	Londyn: Chapman&Hall, 1995. Gudanowska A.; <i>Technology mapping as a tool for technology analysis in foresight studies</i> ; Technology Management Conference : ITMC 2014 : IEEE International, 2014, IEEE, ISBN 978-1-4799-3312-9; 1-4. Daim T.U., Oliver T.; <i>Implementing technology roadmap process in the energy services sector: A case study of a government agency</i> ; Technological Forecasting				
	<ul> <li>Analysis in Foresight Studies; Business: Theory and Pra 250.</li> <li>4. Phaal R., Farrukh C. J. P., Probert D. R.; Technology Replanning framework for evolution and revolution; Technology Social Change 2004; 71; 5-26.</li> <li>5. beFORE E-Learning Course, http://futureoriented.eu/fore 2019.</li> </ul>	Phaal R., Farrukh C. J. P., Probert D. R.; <i>Technology Roadmapping – A planning framework for evolution and revolution</i> ; Technological Forecasting and Social Change 2004; 71; 5-26. beFORE E-Learning Course, http://futureoriented.eu/foresight course/course/, 2019.				

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar