

Table S2.6.4. Form for the preparation of the course information sheets				
Name of the subject	Technological entrepreneurship			
Code of the subject	Status of the subject	Semester	Number of ECTS credits	Class load
	Elective	II	5 ECTS	2+0+2
STUDY PROGRAMME FOR WHICH IT IS ORGANIZED: <i>PhD study in sustainable development</i>				
DEPENDENCY BY OTHER SUBJECTS: There is no pre-conditions for this course				
OBJECTIVES OF STUDYING THIS SUBJECT: The course presents an intermediate level in technology entrepreneurship. The goal is to bring together PhD students of various profiles in order to develop strategies, techniques and skills for the commercialization of academic and scientific knowledge in the real economy and services. The course deals with the concept of technological entrepreneurship, models and tools that can be used to transfer technology from academy to industry. Also it considers case studies and good practice of known transfer and already achieved sustainability. It points to pre-conditions for successful technological entrepreneurship, as well as the most common mistakes, which someone can make.				
Contents of the subject (teaching units, forms of students' individual work, forms of testing) presented per working weeks in the academic calendar:				
Preparatory week	Interview and survey of interested PhD students, checking their level of entrepreneurial knowledge as well as area of interest, transferable and soft skills etc			
I week	Entrepreneurship and technological entrepreneurship, similarities and differences. Principles of entrepreneurship vs principles of technological entrepreneurship.			
II week	An innovative approach to entrepreneurship. PhD transferable skills and soft skills for the purpose of technological entrepreneurship (analysis and problem solving, leadership skills, organizational skills, research management, self-management, work habits, the concept of usable excellence, written and oral communication, perception of individual, group, market ..).			
III week	Approaches-models of technological entrepreneurship (Stanford Technology Ventures Program (STVP), ETECH Projects at the University of Cambridge, The Berkeley Method of Entrepreneurship (BMoE), Dan Shechtman model, Japanese-east models).			
IV week	Analysis and development of technology entrepreneurship market and technological mapping.			
V week	Open discussion on different topics related to entrepreneurship, "brainstorming" within the team			
VI week	Open discussion on topics related to entrepreneurship, "brainstorming" within the team			
VII week	Business models and planning in technology entrepreneurship, examples of teachers / instructors			
VIII week	Business models and planning in technology entrepreneurship, examples of teachers / instructors			
IX week	Lessons from successful local / regional stories in technology entrepreneurship			
X week	Lessons from successful local / regional stories in technology entrepreneurship			
XI week	Mistakes that lead to the failure of technology entrepreneurs			
XII week	Project task. Definition of the project task in groups.			
XIII week	Project task. Discussion.			
XIV week	Project task. Discussion.			
XV week	Project task. Discussion.			
METHODS OF EDUCATION: Lectures. Interactive exercises Guest lectures. Team and individual project. Presentation of acquired knowledge.				
STUDENTS' LOAD				
Weekly		In semester		
5 credits x 40/30 = 6 hours and 40 minutes		Lectures and final exam: (6 hours and 40 minutes) x 16 = 106 hours and 40 minutes		

<p>Structure: 2 hours of lectures 0 hours of exercises 1 hours of practical work 3 hours and 40 minutes of individual work, including consultation</p>	<p>Necessary preparations before the start of the semester: <i>(administration, enrolment, verification)</i> 2 x (6 hours and 40 minutes) = 13 hours and 20 minutes Total subject load: 5 x 30 = 150 hours Additional hours for preparing correction of final exam, including the taking of the exam: 150h - (120h) = 30h Load structure: 106 hours and 40 minutes (Lectures) + 13 hours and 20 minutes (Preparation) + 30 hours (Remedial classes)</p>
<p>STUDENTS' OBLIGATIONS DURING THE TEACHING:</p> <ul style="list-style-type: none"> - regularly attends classes and exercises, - conscientiously and independently realize seminars or homework, - works in a team, - scientifically and methodologically performs course obligations and systematizes appropriate material, - independently completes the practical part of the exam, with the help of literature - presents the acquired knowledge and achieved results. 	
<p>LITERATURE:</p> <ol style="list-style-type: none"> 1. Clayton M. Christensen, <i>The Innovator's Dilemma</i>, HarperBusiness; Reprint edition (October 4, 2011), ISBN-10: 9780062060242. 2. Eric Ries, <i>The Lean Startup</i>, Currency; 1 edition (September 13, 2011), ISBN-10: 9780307887894. 3. Clayton M. Christensen, <i>The Innovator's Solution: Creating and Sustaining Successful Growth</i>, Harvard Business Review Press; 1 edition (November 19, 2013), ISBN-10: 1422196577. 4. Dan Shechtman, <i>Why Should We Teach Technological Entrepreneurship in Universities</i>, Technion, Haifa, Israel, ISU, Ames, Iowa, USA, <i>utorizovane prezentacija i video</i>. 5. Agne Kazakeviciute, Renata Urbone and Monika Petraite, <i>Curriculum development for technology-based entrepreneurship education: A cross-disciplinary and cross-cultural approach</i>, <i>Industry and Higher Education</i>, 2016, Vol. 30(3) 202–214 	
<p>LEARNING OUTCOMES (COMPLIED WITH THE OUTCOMES FOR THE STUDY PROGRAMME):</p> <ul style="list-style-type: none"> - Identify and assess the market opportunities of academic / university / scientific technology. - Develop a comprehensive offer and design an appropriate business model for the transfer of academic / university / scientific technology. - Formulate a strategy for the development of the local high-tech market and customer formation, based on pushed needs and customer needs. - Identify key sources for short-term and long-term sustainability of the solution. - Select and define the IPR model - Define short-term and long-term business plan. - Define the main elements of maintaining innovative solutions. - Develop a teamwork model. - Identify the basic mistakes in technological entrepreneurship. 	
<p>FORMS OF TESTS AND EVALUATION:</p> <ul style="list-style-type: none"> - Seminar-colloquial work / project, after series of lectures and exercises. - Seminar-colloquial papers will be performed in groups, which will be formed respecting the principle of heterogeneity (interdisciplinary). - The final grade will contain two criteria: <ol style="list-style-type: none"> a. assessment of group work 50%, b. assessment of individual contribution of 50%. Individual contribution is assessed according to the description of each author's contribution to the overall project and the thematic interview with the candidate.. - The above items of knowledge assessment can be replaced by publishing a paper presented at doctoral colloquium (the paper should briefly describe the content of the paper / project) 	
<p>NAME AND SURNAME OF TEACHER AND ASSOCIATE: Prof. dr Radovan Stojanović</p>	
<p>PARTICULARITIES NEEDED TO BE EMPHASIZED FOR THE SUBJECT: The course is also recommended for a lower form of study, MSc, with certain modifications</p>	
<p>Note (if needed):</p>	