

SYLLABUS – A COURSE DESCRIPTION

I. General information

1. Course name: **Crafting innovation and entrepreneurship**
2. Course code: **01-BTA-CRAFENT**
3. Course type (compulsory or optional): **compulsory**
4. Study programme name: **Biotechnology**
5. Cycle of studies (1st or 2nd cycle of studies or full master's programme): **2nd cycle of studies**
6. Educational profile (general academic profile or practical profile): **general academic profile**
7. Year of studies (if relevant): **II**
8. Type of classes and number of contact hours (e.g. lectures: 15 hours; practical classes: 30 hours):
conversatorium: 20 hours
9. Number of ECTS credits: **2**
10. Name, surname, academic degree/title of the course lecturer/other teaching staff:
Anna Padewska, anna.padewska@ppnt.poznan.pl
11. Language of classes: **English**
12. Online learning – yes (partly – online / fully – online) / no: **If necessary, the course could be available by MS Teams or similar platform.**

II. Detailed information

1. Course aim (aims)
 - Learning the theory of basic principles of crafting innovation, especially related to natural science with particular emphasis on creative methods.
 - Training the principles of crafting innovation, especially related to natural science with particular emphasis on creative methods.
 - Building the basic understanding of connection between natural science and business/entrepreneurship.
 - Upgrading personal creative confidence. Understanding personal predispositions towards team work roles and dissecting connections between team members in the most productive teams.
2. Pre-requisites in terms of knowledge, skills and social competences (if relevant)
Communicative English
3. Course learning outcomes (EU) in terms of knowledge, skills and social competences and their reference to study programme learning outcomes (EK)

Course learning outcome symbol (EU)	On successful completion of this course, a student will be able to:	Reference to study programme learning outcomes (EK)
EU_01	Will gain understanding of basic principles for commercialisation of research results in terms of crafting innovation	BT_W01, BT_K01, BT_K06
EU_02	Think and act in an entrepreneurial way in order to create innovation individually and as a team	BT_U06, BT_K06
EU_03	Will gain creative confidence by understanding the structure of creative processes to be applied in both scientific work and interpersonal relations	BT_U06

4. Learning content with reference to course learning outcomes (EU)

Course learning content	Course learning outcome symbol (EU)
Team work training	EU_01, EU_03, EU_02
Crafting innovation – theory and practice	EU_02, EU_01, EU_03
Business Modelling	EU_02, EU_01
The basics of pitching and public speaking	EU_02

5. Reading list : fragments indicated by the teacher

1. Meredith Belbin, PhD: Team roles at work, Routledge, , 2010
2. Alexander Osterwalder, Yves Pigneur: Business Model Generation: A Handbook For Visionaries, Game Changers, And Challengers, Wiley, 2010
3. Alexander Osterwalder: Value Proposition Design, Wiley, 2014
4. Tom Kelley, David M. Kelley: Creative Confidence, Harper Collins Publ. Uk , Harper Collins Publ. Uk, , 2013
5. Eric Ries: The Lean Startup, Penguin Books Ltd. , Penguin Books Ltd., 2011

III. Additional information

1. Teaching and learning methods and activities to enable students to achieve the intended course learning outcomes (please indicate the appropriate methods and activities with a tick or/and suggest different methods)

Teaching and learning methods and activities	
Lecture with a multimedia presentation	X
Interactive lecture	
Problem – based lecture	
Discussions	X
Text-based work	
Case study work	X
Problem-based learning	X
Educational simulation/game	X
Task – solving learning (eg. calculation, artistic, practical tasks)	X
Experiential work	
Laboratory work	
Scientific inquiry method	
Workshop method	X
Project work	X
Demonstration and observation	
Sound and/or video demonstration	X
Creative methods (eg. brainstorming, SWOT analysis, decision tree method, snowball technique, concept maps)	X
Group work	X

2. Assessment methods to test if learning outcomes have been achieved (please indicate with a tick the appropriate methods for each LO or/and suggest different methods)

Assessment methods	Course learning outcome symbol		
	EU_1	EU_2	EU_3
Written exam			
Oral exam			
Open book exam			
Written test			
Oral test			
Multiple choice test			
Project	X	X	X
Essay			
Report			
Individual presentation		X	
Practical exam (performance observation)			
Portfolio			

3. Student workload and ECTS credits

Activity types	Mean number of hours spent on each activity type
Contact hours with the teacher as specified in the study programme	20
Preparation for classes	5
Reading for classes	5
Essay / report / presentation / demonstration preparation, etc.	5
Project preparation	15
Term paper preparation	
Exam preparation	
Total hours	50
Total ECTS credits for the course	2

4. Assessment criteria according to AMU in Poznan grade system

Very good (bdb; 5,0): Student's level of activity (understanding content, team work and activity during classes) is flawless

Good plus (+db; 4,5): Student's level of activity (understanding content, team work and activity during classes) is very good

Good (db; 4,0): Student's level of activity (understanding content, team work and activity during classes) is good

Satisfactory plus (+dst; 3,5): Student's level of activity (understanding content, team work and activity during classes) is satisfactory

Satisfactory (dst; 3,0): Student's level of activity (understanding content, team work and activity during classes) is satisfactory, but including many mistakes

Unsatisfactory (ndst; 2,0): Student's level of activity (understanding content, team work and activity during classes) is unsatisfactory