COURSE/MODULE DESCRIPTION (SYLLABUS)

1.	Course: **Innovation and Transfer of Knowledge to Business**
2.	Language of instruction: **English**
3.	Faculty: **Faculty of Biotechnology**
4.	Course code: **29-BT-S2-E3-ITKB**
5.	Course/module type (*mandatory* or *elective*): **mandatory**
6.	Programme: **Medical Biotechnology**
7.	Study cycle: **2nd cycle**
8.	Year: **2nd**
9.	Semester *(autumn* or *spring):* **autumn**
10.	Form of tuition and number of hours: **lecture, 15 h**
11.	Name, Surname, academic title **Katarzyna WITCZYŃSKA, PhD**
12.	Initial requirements (knowledge, skills, social competences) regarding the course/module and its completion: **The attitude of active participation in classes is required.**
13.	Objectives: • to familiarize students with the factors determining the effective transfer between science and business. • to familiarize students with mechanisms that enable the use of knowledge and results of research work in practice (e.g. a biotechnology, biomedical company, in industry).
14.	Content: • **Introduction to the problem of knowledge transfer.** • **Typology of connections between the sphere of science and business.** • **Models of cooperation between science and business.** • **R & D consortia as a channel of knowledge from science to business.**

<table>
<tr><td></td><td colspan="2">Clusters as a channel for the transfer of knowledge between science and business.
State policy instruments supporting the transfer of knowledge from science to business.
Spin-off companies as a channel for the transfer of knowledge between science and business.
Visit of a representative from WCCT, Technology Park or a biotechnology company.</td></tr>
<tr><td>15.</td><td>Learning outcomes:
The students:
be familiar with the general principles of the creation and development of individual forms of entrepreneurship in biotechnology;
show ability in critically analyzing and selecting information, especially from electronic resources, including literature and sequential databases;
collect and interpret experimental data, synthesise it and make appropriate conclusions;
show ability to formulate legitimate opinions on the basis of data derived from different sources;
independently plan his or her own professional or scientific career;
understand the need for lifelong learning, inspire and organize the learning process for other people;
adequately prioritise in order to carry out specific research projects;
understand the need for a systematic review of professional literature in order to broaden and deepen his or her knowledge;
think and act in an entrepreneurial manner.</td><td>Outcome symbols:
K_W11
K_U03, K_U06, K_U07, K_U10
K_K01, K_K03, K_K05, K_K08</td></tr>
<tr><td>16.</td><td colspan="2">Recommended literature:</td></tr>
<tr><td>17.</td><td colspan="2">Methods of verification of the assumed learning outcomes
discussion on the subject texts.</td></tr>
<tr><td>18.</td><td colspan="2">Conditions of earning credits:
continuous control of attendance and control of progress in the subject matter of classes,
student presentation (speech),
written exam.</td></tr>
<tr><td rowspan="3">19.</td><td colspan="2">Student’s workload:</td></tr>
<tr><td>Activity</td><td>Number of hours for the activity</td></tr>
<tr><td>Hours of instruction (as stipulated in study programme):</td><td>15 h</td></tr>
</table>

	Student's own work:	15 h
	Total number of hours:	**30 h**
	Number of ECTS:	**2 ECTS**