

MODULE DESCRIPTION (SYLLABUS)

1.	Module: Economics
2.	Language of instruction: English
3.	Faculty: Faculty of Biotechnology
4.	Course/module code: 29-BT-S1-E6-EnE (Lect.) 29-BT-S1-E6-EnEc (Tut.)
5.	Course/module type (<i>mandatory or elective</i>): mandatory
6.	Programme: Biotechnology
7.	Study cycle (<i>1st/2nd</i>): 1st cycle
8.	Year: 3rd
9.	Semester (<i>autumn or spring</i>): spring
10.	Form of tuition and number of hours: Lecture: 30 h Tutorial: 15 h
11.	Coordinator(s): Paweł Dobrzański, PhD
12.	Initial requirements (<i>knowledge, skills, social competences</i>): The range of material from high school.
13.	Objectives: During the course the students learn about the basics of Microeconomics and Macroeconomics. Providing students with a general overview of the main economic concepts and theories. This will be done by through learning of: demand, supply, market, consumer choice, GDP, inflation, unemployment, economic growth and government policies.

14.	<p>Content:</p> <ol style="list-style-type: none"> 1. Economics and the economy. 2. Tools of economic analysis. 3. Demand, supply and the market. 4. Elasticities of demand and supply. 5. Consumer choice and demand decisions. 6. Costs. 7. Perfect competition and pure monopoly. 8. The labour market. 9. Welfare economics. 10. Government spending and revenue. 11. Natural monopoly: public or private? 12. Fiscal policy and foreign trade. 13. Money and banking. 14. Monetary and fiscal policy. 15. Aggregate supply, prices and adjustment to shocks. 16. Inflation, expectations and credibility. 17. Unemployment. 18. Economic growth. 19. International trade. 20. Poverty, development and globalisation. 	
15.	<p>Learning outcomes:</p> <p>Student:</p> <ul style="list-style-type: none"> • knows computational methods known in the field of statistics, as well as computer tools allowing for data analysis and interpretation of the results; • knows and understands the basic concepts and principles of the protection of intellectual and industrial properties and copyrights, draw on the resources of patent information; • is familiar with the general principles of establishment and development of individual forms of entrepreneurship in biotechnology; • makes the synthesis of information from various sources and is capable of correct conclusions based on them; • uses professional scientific language in discussions; • knows how to orally present in English reports of selected scientific issues and make discussions; • learns a given subject by her/himself; • knows how to work as a part of team, work together to solve problems and perform scientific experiments; • recognizes the importance of knowledge and 	<p>Outcome symbols:</p> <p>K_W07, K_W011, K_W012, K_U08 K_U09, K_U11, K_U12, K_U13, K_K02, K_K03, K_K06</p>

	<p>expert opinions in solving cognitive and practical problems;</p> <ul style="list-style-type: none"> • understands the need for careful planning of tasks and scientific experiments; • thinks and acts in an entrepreneurial manner. 	
16.	<p>Recommended literature:</p> <ul style="list-style-type: none"> • D. Begg, G. Vernasca, S. Fischer and R. Dornbusch, <u>Economics</u>, McGraw Hill, 10th edition, 2011, (ISBN: 9780077129521), • Lipsey, R.G. and K.A. Chrystal, <u>Economics</u>. (Oxford University Press, 2007) eleventh edition.[ISBN 9780199286416], • Witztum, A. <u>Economics</u>. (Oxford: Oxford University Press, 2005) [ISBN 0199271631]. 	
17.	<p>Methods of verification of the assumed learning outcomes:</p> <ul style="list-style-type: none"> • Lect.: written exam – test; • Tut.: individual or group oral presentation. 	
18.	<p>Conditions of earning credits:</p> <ul style="list-style-type: none"> • Lect.: written exam – test; • Tut.: individual or group oral presentation. 	
19.	Student's workload:	
	Activity	Number of hours for the activity
	<p>Hours of instruction (as stipulated in study programme):</p> <ul style="list-style-type: none"> • Lect.: 30 h • Tut.: 15 h 	45 h
	<p>Student's own work:</p> <ul style="list-style-type: none"> • preparation before class (lecture, etc.): 5 h • reading the indicated literature: 5 h • preparing for exam: 10 h 	20 h
	Total number of hours:	65 h
	<p>Number of ECTS:</p> <ul style="list-style-type: none"> • Lect.: 1 ECTS • Tut.: 1 ECTS 	2 ECTS