

COURSE SYLLABUS AND SPECIFICATION

Curriculum title: US-wykład ogólnouczelniany-O+P-I+JM-S-25/26Z-realizacja w 26/27						
Unit: Wykład ogólnouczelniany [moduł]						
Course title: World's Telecommunications Markets: An International Perspective (światowe rynki telekomunikacyjne: perspektywa międzynarodowa) (OGÓLNOUCZELNIA NE)					Course code: US1000APNOJ3434_25S	
Name of field of study: wykład ogólnouczelniany						
Mode and cycle of study: I stopnia + JSM, full - time		Profile of study: ogólnoakademicki i praktyczny			Specialty:	
Course / module status elective				Language of instruction: semester: 3 - english language		
Year	Semester	Form of instruction	No. of hours		Type of credit	ECTS
				including e-learning		
2	3	lecture	15	0	pg	1
Total			15			1
Course / module coordinator	dr hab. MACIEJ CZAPLEWSKI					
Course instructor	dr hab. MACIEJ CZAPLEWSKI					
Course / module objectives	The main goal of the course is to provide students with knowledge about global telecommunications markets, developing the ability to analyze data and business strategies occurring on these markets and shaping them competence in making informed decisions, taking into account factors affecting this market.					
Prerequisites	None					
LEARNING OUTCOMES						
Category	No.	Code	Description			Ref. to programme benchmarks
knowledge	1	EP1	Understanding the global structure of telecommunications markets, including history, current trends and future forecasts.			
	2	EP2	Awareness of cultural and regulatory differences affecting the functioning of global markets telecommunications.			
skills	1	EP3	Analysis and interpretation of market-related telecommunications data at a global and regional level.			
	2	EP4	Assessment of business and potential strategies threats and opportunities in global telecommunications markets.			
social competences	1	EP5	Ability to make business decisions with taking into account global factors influencing telecommunications market, such as regulations, technologies and consumer trends.			
CONTENT					Semester	No. of hours
						including e-learning
Subject title: World's Telecommunications Markets: An International Perspective (światowe rynki telekomunikacyjne: perspektywa międzynarodowa)						
Format of instruction: lecture						
1. Technological evolution in telecommunications					3	3 0
2. Telecommunications regulations on a global and national scale					3	3 0

3. The impact of digitalization on the development of telecommunications markets				3	3	0
4. Cultural differences and marketing strategies in the telecommunications industry				3	3	0
5. Transformation of telecommunications markets into information and communication markets				3	3	0
Modes of delivery	Lecture combined with a multimedia presentation, case studies					
	The course teacher shall specify how artificial intelligence should be used as part of implementation of the course according to University of Szczecin best practices and standards. The course teacher shall inform students in their first class about the scope and possibilities of using AI and shall present a catalogue of tools and applications adjusted to relevant learning outcomes and teaching needs and possibilities within a given course.					
Assessment methods					No. of learning outcome from the syllabus	
	PROJEKT				EP1,EP2,EP3,EP4,EP5	
	Metody i formy weryfikacji efektów uczenia się mogą zostać zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach określonych w Regulaminie Studiów Uniwersytetu Szczecińskiego.					
Grading criteria	Getting a positive assessment of the project					
	Grade calculation principles					
	The final grade for the course is 100% of the grade for the project					
Final grade calculation method	Sem.	Course	Type of credit	Grade calc. method	Weight for the average	
	3	World's Telecommunications Markets: An International Perspective (światowe rynki telekomunikacyjne: perspektywa międzynarodowa)		Ważona		
	3	World's Telecommunications Markets: An International Perspective (światowe rynki telekomunikacyjne: perspektywa międzynarodowa) [wykład]	zaliczenie z oceną		1,00	
Basic reading	Goggin Gerard (2011): Global Mobile Media, Routledge, London					
Supplementary reading	Abbi Sushama (2021): Handbook of Research on Internationalization of Entrepreneurial Innovation in the Global Economy, IGI Global, Hershey					
	Maciej Czaplewski (2025): Przekształcenia współczesnych rynków usług telekomunikacyjnych na przykładzie analizy rynków wybranych państw, WYDAWNICTWO NAUKOWE UNIwersytetu SZCZECIŃSKIEGO, Szczecin					
STUDENT WORKLOAD						
		No. of hours				
		including e-learning				
Contact hours		15		0		
Participation in test / exam		0		0		
Preparation for contact hours		0		0		
Private reading and studying		2		0		
Participation in tutorials		1		0		
Preparation of project / essay / etc.		6		0		
Preparation for test / exam		1		0		
TOTAL workload		25				
ECTS credits		1				

COURSE SYLLABUS AND SPECIFICATION

Curriculum title: US-wykład ogólnouczelniany-O+P-I+JM-S-25/26Z-realizacja w 26/27							
Unit: Wykład ogólnouczelniany [moduł]							
Course title: Succes factors in business (czynniki sukcesu w biznesie) (OGÓLNOUCZELNIA NE)					Course code: US1000APNOJ3432_27S		
Name of field of study: wykład ogólnouczelniany							
Mode and cycle of study: I stopnia + JSM, full - time			Profile of study: ogólnoakademicki i praktyczny		Specialty:		
Course / module status elective				Language of instruction: semester: 3 - english language			
Year	Semester	Form of instruction	No. of hours		Type of credit	ECTS	
				including e-learning			
2	3	lecture	15	0	pg	1	
Total			15			1	
Course / module coordinator	dr hab. TOMASZ BERNAT						
Course instructor	dr hab. TOMASZ BERNAT						
Course / module objectives	The course aims to familiarize students with the key factors determining business success and with decision-making mechanisms that support enterprise development and professional career growth. The course is designed to develop students' ability to analyse attitudes, strategies, and business models used by entrepreneurs and managers who achieve above-average market performance. The course also aims to develop a critical understanding of selected concepts of professional and entrepreneurial success and their application to planning one's own professional development.						
Prerequisites	Knowledge of the basic principles of enterprise operation and the market economy, as well as general decision-making principles in business activity. The student understands the key economic and behavioural factors influencing decisions made by market participants						
LEARNING OUTCOMES							
Category	No.	Code	Description			Ref. to programme benchmarks	
knowledge	1	EP1	The student knows the economic, organisational, and behavioural determinants of business venture success.				
skills	1	EP2	The student is able to analyse cases of entrepreneurs and enterprises and identify factors determining their success or failure.				
social competences	1	EP3	The student is ready to critically evaluate their own and others' ways of acting in the context of achieving professional and business goals.				
CONTENT					Semester	No. of hours	
							including e-learning
Subject title: Succes factors in business (czynniki sukcesu w biznesie)							
Format of instruction: lecture							
1. The concept of success in business					3	2	0
2. Leadership mindset and determinants of success					3	2	0
3. Goals as the foundation of organisational activity					3	2	0
4. Planning and implementation of business goals					3	2	0
5. Specialist knowledge and competence development in business					3	2	0

6. Cooperation and teamwork as sources of success				3	2	0
7. Persistence and consistency in achieving goals				3	3	0
Modes of delivery	Problem-based lecture, case study analysis, didactic discussion, individual and group work, student presentations, and analysis of source materials concerning business practice.					
	The course teacher shall specify how artificial intelligence should be used as part of implementation of the course according to University of Szczecin best practices and standards. The course teacher shall inform students in their first class about the scope and possibilities of using AI and shall present a catalogue of tools and applications adjusted to relevant learning outcomes and teaching needs and possibilities within a given course.					
Assessment methods					No. of learning outcome from the syllabus	
	EGZAMIN PISEMNY				EP1,EP2,EP3	
	PROJEKT				EP1,EP2,EP3	
Metody i formy weryfikacji efektów uczenia się mogą zostać zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach określonych w Regulaminie Studiów Uniwersytetu Szczecińskiego.						
Grading criteria	The condition for obtaining a graded course credit is active participation in classes and receiving a positive grade from the planned methods of learning outcomes assessment, including case study analysis, an individual or group project, a presentation, and participation in discussion. The final grade is determined on the basis of the extent to which the assumed learning outcomes have been achieved.					
	Grade calculation principles					
	The course grade is determined on the basis of the student?s results obtained in all planned methods of learning outcomes assessment, including case study analysis, an individual or group project, a presentation, and participation in discussion. When determining the final grade, the substantive quality of completed tasks, the ability to analyse and formulate conclusions, the quality of argumentation, and the student?s level of engagement in completing course tasks are taken into account.					
Final grade calculation method	Sem.	Course		Type of credit	Grade calc. method	Weight for the average
	3	Succes factors in business (czynniki sukcesu w biznesie)			Ważona	
	3	Succes factors in business (czynniki sukcesu w biznesie) [wykład]		zaliczenie z oceną		1,00
Basic reading	Hill, Napoleon (1937): Think and Grow Rich, any, any					
	Sinek, Simon (2009): Start with Why: How Great Leaders Inspire Everyone to Take Action, Portfolio, New York					
	Tracy Brian (2003): Goals!: How to Get Everything You Want—Faster Than You Ever Thought Possible, Berrett-Koehler Publishers, San Francisco					
Supplementary reading						
STUDENT WORKLOAD						
		No. of hours				
		including e-learning				
Contact hours		15		0		
Participation in test / exam		0		0		
Preparation for contact hours		0		0		
Private reading and studying		0		0		
Participation in tutorials		0		0		
Preparation of project / essay / etc.		10		0		
Preparation for test / exam		0		0		
TOTAL workload		25				
ECTS credits		1				

COURSE SYLLABUS AND SPECIFICATION

Curriculum title: US-wykład ogólnouczelniany-O+P-I+JM-S-25/26Z-realizacja w 26/27							
Unit: Wykład ogólnouczelniany [moduł]							
Course title: Visual thinking (myślenie wizualne) (OGÓLNOUCZELNIANE)					Course code: US1000APNOJ3433_21S		
Name of field of study: wykład ogólnouczelniany							
Mode and cycle of study: I stopnia + JSM, full - time			Profile of study: ogólnoakademicki i praktyczny		Specjalty:		
Course / module status elective				Language of instruction: semester: 3 - english language			
Year	Semester	Form of instruction	No. of hours		Type of credit	ECTS	
				including e-learning			
2	3	lecture	15	0	pg	1	
Total			15			1	
Course / module coordinator	dr HANNA SOROKA-POTRZEBNA						
Course instructor	dr HANNA SOROKA-POTRZEBNA						
Course / module objectives	To acquaint students with the methods of creating a drawing visualization. Explaining the importance of visual thinking for competency development and achieving better results.						
Prerequisites	No requirements.						
LEARNING OUTCOMES							
Category	No.	Code	Description			Ref. to programme benchmarks	
knowledge	1	EP1	The student knows the rules of visual thinking.				
	2	EP2	The student knows advanced visual structures.				
skills	1	EP3	The student is able to create visual structures.				
	2	EP4	The student is able to apply techniques and methods that use visual thinking.				
social competences	1	EP5	The student is able to comment on the discussed issues, showing creativity at the same time.				
	2	EP6	The student recognizes the importance of visual thinking.				
CONTENT					Semester	No. of hours	
							including e-learning
Subject title: Visual thinking (myślenie wizualne)							
Format of instruction: lecture							
1. Visual thinking - concept, rules, application					3	3	0
2. The alphabet of visual thinking					3	3	0
3. Advanced visual structures					3	3	0
4. Techniques and methods using visual thinking - mind map, lotus flower, Walt Disney method, Metaplan					3	6	0

Modes of delivery	Multimedia presentation, Lecture				
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Assessment methods					No. of learning outcome from the syllabus
	PRACA PISEMNA/ ESEJ/ RECENZJA				EP1,EP2,EP3,EP4,EP5,EP6
	Metody i formy weryfikacji efektów uczenia się mogą zostać zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach określonych w Regulaminie Studiów Uniwersytetu Szczecińskiego.				
Grading criteria	Passing in writing.				
	Grade calculation principles				
	The final grade is a subject grade.				
Final grade calculation method	Sem.	Course	Type of credit	Grade calc. method	Weight for the average
	3	Visual thinking (myślenie wizualne)		Ważona	
	3	Visual thinking (myślenie wizualne) [wykład]	zaliczenie z oceną		1,00
Basic reading	H. Soroka-Potrzebna (2021): Metody i techniki heurystyczne w zarządzaniu projektami, Wydawnictwo Uniwersytetu Szczecińskiego, Szczecin				
	K. Jóźwik (2017): Myślenie wizualne 2.0 : skuteczna komunikacja, MT Biznes, Warszawa				
	K. Zbikowska (2012): Mapy myśli w biznesie, Helion, Gliwice				
Supplementary reading	N. Margulies, Ch. Valenza (2005): Visual Thinking, Crown House Publishing				
	W. Brand (2017): Visual thinking: empowering people & organizations through visual collaboration, BIS Publishers BV				
STUDENT WORKLOAD					
		No. of hours			
				including e-learning	
Contact hours		15		0	
Participation in test / exam		0		0	
Preparation for contact hours		0		0	
Private reading and studying		6		0	
Participation in tutorials		1		0	
Preparation of project / essay / etc.		0		0	
Preparation for test / exam		3		0	
TOTAL workload		25			
ECTS credits		1			

COURSE SYLLABUS AND SPECIFICATION

Curriculum title: US-wykład ogólnouczeniowy-O+P-I+JM-S-25/26Z-realizacja w 26/27							
Unit: Wykład ogólnouczeniowy [moduł]							
Course title: American Art and Culture (sztuka i kultura amerykańska) (OGÓLNOUCZELNIANE)					Course code: US1000APNOJ3440_29S		
Name of field of study: wykład ogólnouczeniowy							
Mode and cycle of study: I stopnia + JSM, full - time			Profile of study: ogólnoakademicki i praktyczny		Specjalty:		
Course / module status elective				Language of instruction: semester: 3 - english language			
Year	Semester	Form of instruction	No. of hours		Type of credit	ECTS	
				including e-learning			
2	3	lecture	15	0	pg	1	
Total			15			1	
Course / module coordinator		dr RENATA NOWACZEWSKA					
Course instructor		dr RENATA NOWACZEWSKA					
Course / module objectives		To introduce students to the key aspects of American culture and its historical and multicultural foundations. To develop students? skills in recognizing, interpreting, and critically analyzing American art, film, music, and other cultural forms. To foster competence in independently evaluating knowledge and working responsibly with sources related to American cultural heritage.					
Prerequisites		Knowledge of English B2.					
LEARNING OUTCOMES							
Category	No.	Code	Description			Ref. to programme benchmarks	
knowledge	1	EP1	student knows the main historical and cultural processes that shaped American culture and its multicultural character				
	2	EP2	student knows the basic movements and key phenomena in American art, film, and music				
skills	1	EP3	student can identify and interpret selected works of American art and film within their cultural context				
	2	EP4	student can critically analyze selected aspects of American culture				
social competences	1	EP5	student can independently evaluate and verify their knowledge using available sources on American culture				
CONTENT					Semester	No. of hours	
							including e-learning
Subject title: American Art and Culture (sztuka i kultura amerykańska)							
Format of instruction: lecture							
1. American Context-Understanding American culture: concepts, traits, values, beliefs, religious heritage, frontier heritage, diversity					3	2	0
2. Main American artistic movements and styles: from Colonial period to Realism t					3	2	0
3. Major art museums and collections					3	2	0
4. From American Realism and abstract expressionism to modern art					3	2	0
5. Women and Art: Mary Cassatt, Georgia O’Keeffe; Women-art Patrons and collectors					3	2	0

6. American Architecture: Frank Lloyd Wright			3	2	0
7. From Visual Art in Film to Urban Street Art			3	2	0
8. American Photography			3	1	0
Modes of delivery	Lecture with elements of multimedia presentations, movies, music etc.				
	The course teacher shall specify how artificial intelligence should be used as part of implementation of the course according to University of Szczecin best practices and standards. The course teacher shall inform students in their first class about the scope and possibilities of using AI and shall present a catalogue of tools and applications adjusted to relevant learning outcomes and teaching needs and possibilities within a given course.				
Assessment methods				No. of learning outcome from the syllabus	
	KOŁOKWIUM			EP1,EP2,EP3,EP4,EP5	
	PRACA PISEMNA/ ESEJ/ RECENZJA			EP1,EP2,EP3,EP4,EP5	
	PREZENTACJA			EP1,EP2,EP3,EP4	
	Metody i formy weryfikacji efektów uczenia się mogą zostać zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach określonych w Regulaminie Studiów Uniwersytetu Szczecińskiego.				
Grading criteria	Students are assessed based on two components:				
	Written Test (50%) -multiple-choice questions and short open-ended questions assessing factual knowledge and understanding of key topics in American art and culture. Essay or Presentation (50%) -analytical work on a chosen aspect of American culture, art, film, or music. Assessment includes argumentation, depth of analysis, structure, use of sources, and technical clarity.				
	Assessment criteria: 1. Written Test (50%) 91-100% Grade 5.0 (Excellent): very strong understanding, precise and well?reasoned answers. 81-90% Grade 4.5: very good knowledge; minor inaccuracies. 71-80% Grade 4.0: good understanding, some imprecision or oversimplification. 61-70% Grade 3.5: basic knowledge with noticeable gaps or unclear reasoning. 51-60% Grade 3.0: minimal understanding, many errors. Below 51% -Grade 2.0 (Fail): does not meet minimum requirements.				
	2. Essay or Presentation (50%) 91-100% Grade 5.0: in?depth analysis, clear arguments, high?quality sources, coherent structure. 81-90% Grade 4.5: very good analysis with minor weaknesses; mostly clear structure. 71-80% Grade 4.0: correct but general analysis; moderate use of sources. 61-70% Grade 3.5: superficial analysis, structural inconsistencies, limited source work. 51-60% Grade 3.0: very weak analysis, incoherent structure, language errors. Below 51% Grade 2.0 (Fail): insufficient argumentation, lack of structure, inadequate use of sources.				
	Grade calculation principles				
	The grade for the course is the grade for the lecture.				
Final grade calculation method	Sem.	Course	Type of credit	Grade calc. method	Weight for the average
	3	American Art and Culture (sztuka i kultura amerykańska)		Ważona	
	3	American Art and Culture (sztuka i kultura amerykańska) [wykład]	zaliczenie z oceną		1,00
Basic reading	A.L. Miller, J.C. Berlo, et. al. eds. (2008): American Encounters. Art., History, and Cultural Identity, , St. Louis				
	F.C. Marchetti, ed. (2005): Malarstwo Amerykańskie, Warszawa				
	Gołębiowski M. (2004): Dzieje Kultury Stanów Zjednoczonych. , Warszawa,				
	L.S. Luedtke, ed. (1992): Making America. The Society and Culture of the United States, Chapel Hill				
	Mauk D., J. Oakland. (2022): American Civilization. An Introduction. 8th edition, New York				
	Nowaczewska, R (2021): Out of the Spotlight: Abby Aldrich Rockefeller and Women's Philanthropy in the World of Art,, Białystok				

Supplementary reading	Lewicki Z. (2017): Historia cywilizacji amerykańskiej. T 1-4, Warszawa	
	Smarthistory https://smarthistory.org/	
	Terra Foundation for American Art https://www.terraamericanart.org/	
STUDENT WORKLOAD		
	No. of hours	
		including e-learning
Contact hours	15	0
Participation in test / exam	1	0
Preparation for contact hours	0	0
Private reading and studying	2	0
Participation in tutorials	1	0
Preparation of project / essay / etc.	3	0
Preparation for test / exam	3	0
TOTAL workload	25	
ECTS credits	1	

COURSE SYLLABUS AND SPECIFICATION

Curriculum title: US-wykład ogólnouczeniiany-O+P-I+JM-S-25/26Z-realizacja w 26/27							
Unit: Wykład ogólnouczeniiany [moduł]							
Course title: Dante's "Divine Comedy": Justice, Tolerance and Freedom ("Boska komedia" Dantego: sprawiedliwość, tolerancja i wolność) (OGÓLNOUCZELNIANE)					Course code: US1000APNOJ3443_18S		
Name of field of study: wykład ogólnouczeniiany							
Mode and cycle of study: I stopnia + JSM, full - time			Profile of study: ogólnoakademicki i praktyczny		Specialty:		
Course / module status elective				Language of instruction: semester: 3 - english language			
Year	Semester	Form of instruction	No. of hours		Type of credit	ECTS	
				including e-learning			
2	3	lecture	15	0	pg	1	
Total			15			1	
Course / module coordinator	dr hab. MARINO BALDUCCI						
Course instructor	dr hab. MARINO BALDUCCI						
Course / module objectives	Develop fundamental knowledge on the Divine Comedy and Dante's spiritual symbolism, with specific references to the history and theological culture of the Middle Ages. Clarify the relationship between Dante, Islam, free love and religious tolerance. Refine the various textual and contextual analysis methods of medieval Italian religious poetry.						
Prerequisites	General knowledge related to Christian theology, interpretative attitude and communication skills.						
LEARNING OUTCOMES							
Category	No.	Code	Description			Ref. to programme benchmarks	
knowledge	1	EP1	knowing the structure, characters and historical context of the Divine Comedy				
	2	EP2	having specific skills related to Dante's theological symbolism				
skills	1	EP3	correctly analyzing and using scientific research articles in the field of dantology				
	2	EP4	correctly analyzing significant passages of the Divine Comedy				
	3	EP5	developing the ability to perceive the spiritual value of the literary work studied				
social competences	1	EP6	showing interest in deepening knowledge through independent research and analysis				
	2	EP7	being aware of the European and global importance of Dante's poetic work				
CONTENT					Semester	No. of hours	
							including e-learning
Subject title: Dante's "Divine Comedy": Justice, Tolerance and Freedom ("Boska komedia" Dantego: sprawiedliwość, tolerancja i wolność)							
Format of instruction: lecture							
1. General introduction: Dante, his time, his culture and main works. Structure and themes of the Divine Comedy.					3	1	0
2. Inf. I-V: The beginning of the journey among the dead, limbo and the lustful.					3	2	0
3. Inf. VIII-X; XV; XVIII; XXXIV: from the City of Dis to Lucifer.					3	3	0

4. Purg.I- IX: the night trip.			3	3	0
5. Purg. XVI, XXI, XXVI: purgatorial lust.			3	2	0
6. Purg. XXVIII-XXXIII: Matelda and the Garden of Eden.			3	2	0
7. Par. I, III, VI, VII-IX, XI, XIX-XX, XXXI, XXXIII: the sky of Venus and free love - Fides implicita? and religious tolerance.			3	2	0
Modes of delivery	Lecture, dialogue, description and commentary of images.				
	The course teacher shall specify how artificial intelligence should be used as part of implementation of the course according to University of Szczecin best practices and standards. The course teacher shall inform students in their first class about the scope and possibilities of using AI and shall present a catalogue of tools and applications adjusted to relevant learning outcomes and teaching needs and possibilities within a given course.				
Assessment methods				No. of learning outcome from the syllabus	
	KOŁOKWIUM			EP1,EP2,EP3,EP4,EP5,EP6,EP7	
	Metody i formy weryfikacji efektów uczenia się mogą zostać zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach określonych w Regulaminie Studiów Uniwersytetu Szczecińskiego.				
Grading criteria	Passing the final oral colloquium. Evaluation is based on percentage knowledge of lecture content, 5.0 (100%), 4.5 (80-90%), 4.0 (70-60%), 3.5 (50-60%), 3.0 (40-50%), 2 (less than 40%). In the event of an unsatisfactory grade correction, the final grade is reduced by 1.0, compared to the grade received (however, it cannot be less than 3.0).				
	Grade calculation principles				
	The grade for the course is the grade for the lecture.				
Final grade calculation method	Sem.	Course	Type of credit	Grade calc. method	Weight for the average
	3	Dante's "Divine Comedy": Justice, Tolerance and Freedom ("Boska komedia" Dantego: sprawiedliwość, tolerancja i wolność)		Ważona	
	3	Dante's "Divine Comedy": Justice, Tolerance and Freedom ("Boska komedia" Dantego: sprawiedliwość, tolerancja i wolność) [wykład]	zaliczenie z oceną		1,00
Basic reading	Dante Alighieri, (1995): The Divine Comedy, Translated by Allen Mandelbaum, Penguin Random House, New York				
	M.A. Balducci (Ed.) (2024): Intensive Course on Dante's Divine Comedy: Justice, Tolerance and Freedom, Carla Rossi Academy Press, Monsummano Terme - Pistoia				
Supplementary reading					
STUDENT WORKLOAD					
		No. of hours			
			including e-learning		
Contact hours		15	0		
Participation in test / exam		1	0		
Preparation for contact hours		0	0		
Private reading and studying		4	0		
Participation in tutorials		2	0		
Preparation of project / essay / etc.		0	0		
Preparation for test / exam		3	0		
TOTAL workload		25			
ECTS credits		1			

COURSE SYLLABUS AND SPECIFICATION

Curriculum title: US-wykład ogólnouczeniiany-O+P-I+JM-S-25/26Z-realizacja w 26/27						
Unit: Wykład ogólnouczeniiany [moduł]						
Course title: The Dark Side of the Universe (ciemna strona Wszechświata) (OGÓLNOUCZELNIA NE)					Course code: US1000APNOJ3445_11S	
Name of field of study: wykład ogólnouczeniiany						
Mode and cycle of study: I stopnia + JSM, full - time			Profile of study: ogólnoakademicki i praktyczny		Specialty:	
Course / module status elective				Language of instruction: semester: 3 - english language		
Year	Semester	Form of instruction	No. of hours		Type of credit	ECTS
				including e-learning		
2	3	lecture	15	0	pg	1
Total			15			1
Course / module coordinator	dr hab. VINCENZO SALZANO					
Course instructor	dr hab. VINCENZO SALZANO					
Course / module objectives	To familiarize the students with the main and more modern theories about the origin, constitution and fate of our Universe. To familiarize the students with the nomenclature and status of current cosmological observations. To familiarise the students with the limits of human senses and abilities to discern reality and to discuss about them respecting different and varied opinions.					
Prerequisites	no requirements					
LEARNING OUTCOMES						
Category	No.	Code	Description			Ref. to programme benchmarks
knowledge	1	EP1	Knows the basic notions on which modern cosmological models are built. The student is familiar with the terms: electromagnetic spectrum, redshift, dark matter, dark energy, gravitational lensing, cosmic microwave background. The student is aware of the limits of applicability of the main physical theories and particular models.			
skills	1	EP2	Can discuss various physical cosmological models and observations and critically discuss their limits.			
	2	EP3	Is able to list, discuss, and debate basic scientific concepts related to cosmology and can apply the criterion of scientificity			
social competences	1	EP4	Can take and express a critical attitude and get involved in a discussion on selected physical cosmological models and selected interpretations of our Universe's models.			
CONTENT					Semester	No. of hours
						including e-learning
Subject title: The Dark Side of the Universe (ciemna strona Wszechświata)						
Format of instruction: lecture						
1. The Game of Spectrum, and its rules					3	2 0

2. The space beyond our eyes 1 2			3	2	0
3. The history of a star			3	2	0
4. Nothing will ever look the same again			3	1	0
5. A photo from a young Universe			3	2	0
6. Gravity: to be or not be a force?			3	1	0
7. Hidden things			3	1	0
8. Turn on the radio!			3	1	0
9. The light for the dark(est) side			3	1	0
10. Surf the (gravitational) waves			3	1	0
11. Bonus Chapter. . .home?			3	1	0
Modes of delivery	Lecture with presentation				
	The course teacher shall specify how artificial intelligence should be used as part of implementation of the course according to University of Szczecin best practices and standards. The course teacher shall inform students in their first class about the scope and possibilities of using AI and shall present a catalogue of tools and applications adjusted to relevant learning outcomes and teaching needs and possibilities within a given course.				
Assessment methods				No. of learning outcome from the syllabus	
	PRACA PISEMNA/ ESEJ/ RECENZJA			EP1,EP2,EP3,EP4	
	Metody i formy weryfikacji efektów uczenia się mogą zostać zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach określonych w Regulaminie Studiów Uniwersytetu Szczecińskiego.				
Grading criteria	The course is completed through a written essay examination. The essay is intended to assess the student?s understanding of the main concepts discussed during the lectures, and the capacity to critically discuss the scientific ideas presented in the course. The essay should demonstrate clarity of exposition, correct use of scientific terminology, and an appropriate level of conceptual understanding. The final grade is assigned according to the following criteria: 5.0 (excellent): The topic is explained very clearly and in depth. The essay demonstrates a comprehensive understanding of the subject, correct terminology, logical structure, and well-developed arguments. 4.5 (very good plus): Very good understanding of the topic with only minor omissions or inaccuracies. The explanation is clear and well structured. 4.0 (very good): Good understanding of the main concepts, though some aspects may be insufficiently developed or partially unclear. 3.5 (good plus): Basic understanding of the topic is demonstrated, but the explanation lacks depth and contains several omissions. 3.0 (satisfactory): The student demonstrates minimal acceptable knowledge of the topic, with limited clarity and several conceptual gaps. 2.0 (fail): The essay does not demonstrate sufficient understanding of the topic or contains major conceptual errors.				
	Grade calculation principles				
	The final grade for the course is the grade for the lecture.				
Final grade calculation method	Sem.	Course	Type of credit	Grade calc. method	Weight for the average
	3	The Dark Side of the Universe (ciemna strona Wszechświata)		Ważona	
	3	The Dark Side of the Universe (ciemna strona Wszechświata) [wykład]	zaliczenie z oceną		1,00
Basic reading	Becky Smethurst (2019): Space: 10 Things You Should Know, Seven Dials				
	Brian Clegg (2019): Dark Matter & Dark Energy, Icon Books				
	Charles Liu (2022): The Cosmos Explained, Ivy Press				
	Jo Dunkley (2019): Our Universe: An Astronomer's Guide, Belknap Press				
	Katie Mack (2020): The End of Everything (Astrophysically Speaking), Scribner; Illustrated edition				
	Matthew Bothwell (2021): The Invisible Universe, Oneworld Publications				
	Stephen Hawking (2020): Brief Answers to the Big Questions, Hodder And Stoughton Ltd				
Supplementary reading					

STUDENT WORKLOAD		
	No. of hours	
		including e-learning
Contact hours	15	0
Participation in test / exam	0	0
Preparation for contact hours	0	0
Private reading and studying	5	0
Participation in tutorials	0	0
Preparation of project / essay / etc.	5	0
Preparation for test / exam	0	0
TOTAL workload	25	
ECTS credits	1	

COURSE SYLLABUS AND SPECIFICATION

Curriculum title: US-wykład ogólnouczelniany-O+P-I+JM-S-25/26Z-realizacja w 26/27						
Unit: Wykład ogólnouczelniany [moduł]						
Course title: Bioterrorism (bioterroryzm) (OGÓLNOUCZELNIA NE)					Course code: US1000APNOJ3446_14S	
Name of field of study: wykład ogólnouczelniany						
Mode and cycle of study: I stopnia + JSM, full - time		Profile of study: ogólnoakademicki i praktyczny			Specialty:	
Course / module status elective				Language of instruction: semester: 3 - english language		
Year	Semester	Form of instruction	No. of hours		Type of credit	ECTS
				including e-learning		
2	3	lecture	15	0	pg	1
Total			15			1
Course / module coordinator	dr inż. JAKUB SKORUPSKI					
Course instructor	dr inż. JAKUB SKORUPSKI					
Course / module objectives	Familiarizing students with the issues of bioterrorism, the main pathogens used in bioterrorist attacks, methods and instruments for detecting and counteracting threats from bioterrorism and the rules of conduct in the event of a bioterrorist attack					
Prerequisites	Basic knowledge of biology					
LEARNING OUTCOMES						
Category	No.	Code	Description			Ref. to programme benchmarks
knowledge	1	EP1	The student knows and understands basic knowledge in the field of bioterrorist and epidemiological threats and knowledge related to the risk of their occurrence, analysis and criteria for assessing the effects and counteracting their occurrence			
	2	EP2	The student knows and understands the possibilities and consequences of bioterrorist acts for state security			
skills	1	EP3	The student is able to properly observe bioterrorist activities, interpret, analyze and discuss his observations regarding the use of biological weapons and formulate adequate conclusions, using scientific and specialist terminology			
	2	EP4	The student is able to apply appropriate procedures for maintaining biological safety, crisis management and protection against the effects of a bioterrorist attack			
social competences	1	EP5	Is ready to objectively assess the acquired knowledge and skills and to critically analyze the received scientific content			
	2	EP6	Is ready to recognize the importance of knowledge in solving scientific problems and practical tasks related to national security and to seek the opinion of experts in case of difficulties in solving the problem independently			
CONTENT					Semester	No. of hours
						including e-learning

Subject title: Bioterrorism (bioterroryzm)					
Format of instruction: lecture					
1. Introduction to the issue of bioterrorism. Types and recognition of bioterrorist attacks			3	2	0
2. Biosecurity levels			3	2	0
3. Biological weapons - introduction. Modern diagnostic techniques in the detection and identification of biological weapons			3	2	0
4. Exotoxins produced by Bacillus anthracis and Clostridium botulinum bacteria			3	2	0
5. Dangers resulting from tularemia and brucellosis infection			3	2	0
6. Dangers resulting from infection with plague and cholera			3	2	0
7. Pox virus and viral hemorrhagic fevers. Other biological substances that can be used as biological weapons			3	2	0
8. Procedure in the event of a bioterrorist attack			3	1	0
Modes of delivery	Lecture with multimedia presentation, Case study, Discussion				
	The course teacher shall specify how artificial intelligence should be used as part of implementation of the course according to University of Szczecin best practices and standards. The course teacher shall inform students in their first class about the scope and possibilities of using AI and shall present a catalogue of tools and applications adjusted to relevant learning outcomes and teaching needs and possibilities within a given course.				
Assessment methods				No. of learning outcome from the syllabus	
	KOLOKWIVUM			EP1,EP2,EP3,EP4,EP5,EP6	
	Metody i formy weryfikacji efektów uczenia się mogą zostać zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach określonych w Regulaminie Studiów Uniwersytetu Szczecińskiego.				
Grading criteria	Positive grade from the written test.				
	Grade calculation principles				
	A positive assessment on a single-choice test (achieving at least 50% of the maximum score + 1).				
Final grade calculation method	Sem.	Course	Type of credit	Grade calc. method	Weight for the average
	3	Bioterrorism (bioterroryzm)		Ważona	
	3	Bioterrorism (bioterroryzm) [wykład]	zaliczenie z oceną		1,00
Basic reading	Fong I.W., Alibek K. (ed.). (2009): Bioterrorism and Infectious Agents: A New Dilemma for the 21st Century, Springer Nature, Berlin				
	Ryan J.R. (2016): Biosecurity and Bioterrorism: Containing and Preventing Biological Threats, Butterworth-Heinemann, Oxford				
Supplementary reading	Lentzos F. (2016): Biological Threats in the 21st Century, Imperial College Press, London				
STUDENT WORKLOAD					
		No. of hours			
			including e-learning		
Contact hours		15	0		
Participation in test / exam		1	0		
Preparation for contact hours		0	0		
Private reading and studying		3	0		
Participation in tutorials		1	0		
Preparation of project / essay / etc.		0	0		

Preparation for test / exam	5	0
TOTAL workload	25	
ECTS credits	1	