

Subject card

Field of study Economic Analytics Date of commencement of studies October 2023 Academic year of realisation of subject 2023/2024 Education level second-cycle studies Subject group Ditiogroup subject group in the height of study Ditiogroup subject group in the height of study Mode of study Part-line studies Mode of delivery at the university Semester of study 1 Language of instruction Polish Semester of study 2 ECTS credits 4.0 Learning profile general academic profile Assessment form assessment Conducting unit Katerds Statystyki I Ekonometri -> Faculty of Management and Economics Marka Statystyki I Ekonometri -> Faculty of Management and Economics Name and sumame of lecturer (lecturers) Teachers dr Mariaz Kaszubowski Teachers Learning activity and number of study hours Learning activity Participation in didactic convincingly interpreting the results in a convincing with pretering the results in a convincing with pretering the results obtained hours Sulf-study Sulf Subject objectives Explains the functioning of the insturance market by analyzing various instructers of intormation neceder to analyzing with probability distrupreting the r	Subject name and code	INSURANCE STATISTICS, PG_00060738								
Date of commencement of studies October 2023 Academic year of realisation of subject 2023/2024 Education level second-cycle studies Subject group Obligatory subject group in the field of study Obligatory subject group prelated to scient research in the field of study Year of study Part-lime studies Mode of delivery at the university Year of study 1 Language of instruction Polish Semester of study 2 ECTS credits 4.0 Learning profile general academic profile Assessment form assessment Conducting unit Katefor Statystyki I Ekonometri -> Faculty of Management and Economics Subject supervisor Name and surname of instruction Subject supervisor dr. Mariusz Kaszubowski Eeson type Learning hours included: 0.0 16.0 0.0 0.0 24 Learning hours included: 0.0 16.0 0.0 10.0 10.0 10.0 Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and cominoingly interpreting the results obtained Subject outcome IK7_UO4 prepares and presity analyzes insurance produ	· · ·									
Education level second-cycle studies Subject group Obligation of study Mode of study Part-time studies Mode of delivery at the university Year of study 1 Language of instruction Polish Semester of study 2 ECTS credits 4.0 Learning profile general academic profile Assessment form assessment Conducting unit Katedra Statystyki I Ekonometrii -> Faculty of Management and Economics Subject supervisor dr Mariusz Kaszubowski Learning profile general academic profile Assessment form assessment Subject supervisor dr Mariusz Kaszubowski Economics Subject forup Subject supervisor Leason types and methods of instruction tesson type Learning nours included: 0.0 Learning profile Self-study SUM Learning outoing activity and number of study hours Learning profile Self-study Subject outoone Subject outoone, subject outoone Subject outoone, subject outoone Subjec	Date of commencement of						2023/2024			
Mode of study Part-time studies Mode of delivery at the university Year of study 1 Language of instruction Poilsh Semester of study 2 ECTS credits 4.0 Learning profile general academic profile Assessment form assessment Conducting unit Katedra Statystyki i Ekonometrii -> Faculty of Management and Economics Todata Statystyki i Ekonometrii -> Faculty of Management and Economics Name and surmame Subject supervisor dr Mariusz Kaszubowski Todata Statystyki i Ekonometrii -> Faculty of Management and Economics Lesson types and methods Lesson type Lecture Tutorial Laboratory Project Seminar SUM Number of study hours Learning activity Raticipation in didactic Consultation hours Self-study SUM Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincing in theoretical and demographic data and presents or analysis results, with their in-depth interpretation Subject otoone SUM et analyzed is analyzed is analyzed is analyzed is analyzed is analyzed is and methods SUM subject contents Elements of the calculus of probability especially used in insurance (conditio	Education level	second-cycle studies		,			Subject group related to scientific			
Teac of study 1 Language of instruction Poilsh Semester of study 2 ECTS credits 4.0 Learning profile general academic profile Assessment form assessment Conducting unit Katedra Statystyki i Ekonometri-> Faculty of Management and Economics Managament and Summer Studject supervisor Teachers dr Mariusz Kaszubowski Teachers Junits Kaszubowski Lesson types and methods Lesson type Lecture Tutorial Laboratory Project Seminar SUM Learning nours included: 0.0 0.0 16.0 0.0 0.0 24 Learning nours included: 0.0 Learning nours included: 0.0 Faticipation in consultation hours Sulf Sulf Number of study hours Learning outcomes Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained Sulf of the subject outcome [Sulf] (Sulf) Assessment of factual interpretation Learning outcomes If // _/ // // // gregares and presents on instruction and presents on instruction and presents on insurance products based on historical and presents orinformation relevant in ther pretation [Sulf] Asse						,				
Semester of study 2 ECTS credits 4.0 Learning profile general academic profile Assessment form assessment Conducting unit Katedra Statystyki i Ekonometri -> Faculty of Management and Economics Assessment form assessment Name and sumame of lecturer (lecturers) Teachers dr Mariusz Kaszubowski Seminar SUM Lesson types and methods of instruction Lesson type Lecture Tutorial Laboratory Project Seminar SUM Learning activity and number of study hours Learning nours included: 0.0 E-learning in bours included: 0.0 E-learning in bours included: 0.0 Earlicipation in consultation hours Setf-study SUM Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained SU3 Assessment of ability to use knowledge gained from the subject Subject outcome Method of varification insurance products Learning outcomes Course outcome Subject outcome Issuing analyzis results, use knowledge gained from the subject INF_UO4] prepares and presents oonvincing, professional Information redevants in analyzes insurance (conditional probabilit presentations of analysis re	•	Part-time studies		-			,			
Construction Construction assessment Learning profile general academic profile Assessment form assessment Conducting unit Katedra Statystyki i Ekonometrii -> Faculty of Management and Economics Image: Construction Image: Construction Subject supervisor dr Mariusz Kaszubowski Image: Construction Image: Construction Itesson types and methods Lesson type Lecture Tutorial Laboratory Project Seminar SUM Instruction Lesson type Lecture Tutorial Laboratory Project Seminar SUM Lesson types and methods Lesson type instruction Iddoctic Participation in didactic Construction SUM Learning activity Participation in didactic Consultation hours Self-study SUM Subject objectives Explans the functioning of the insurance market by analyzing various insurance products, presenting and convincing inferpreting the results obtained Isode of origonable data and presents Isode of analyzing various insurance products subject Subject contents Elements of the calculus of probability especially used in insurance (conditional probabilit) to use knowl		1								
Conducting production Production form Name and surname of lecturer (lecturers) Subject supervisor dr Marlusz Kaszubowski Lesson types and methods of instruction Lesson type Lecture Tutorial Laboratory Project Seminar SUM Lesson types and methods of instruction Lesson type Lecture Tutorial Laboratory Project Seminar SUM Learning activity and number of study hours Learning activity Participation in didactic classes included in study plan Participation in classes included in study plan Self-study SUM Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained Subject outcome Method of verification use knowledge gained from the subject Learning outcomes Course outcome Subject outcome Method of verification interpretation Imalyzes insurance products based on historical and presentiations of analysis results, with their in-depth interpretation interpretation Imalyzes insurance variatory interpretation ISW1 Assessment of factual knowledge Subject contents Elements of the calculus of probability sepecially used in insurance (conditional probability, total probability avoius risk using statistical tools and							-			
Name and sumame of lecturer (lecturers) Subject supervisor dr Mariusz Kaszubowski Lesson types and methods of instruction Lesson type Lecture Tutorial Laboratory Project Seminar SUM Lesson types and methods of instruction Lesson type Lecture Tutorial Laboratory Project Seminar SUM Learning activity and number of study hours Learning activity Participation in ididactic classes included in study plan Participation in classes included in study plan Self-study SUM Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained Method of verification Learning outcomes Course outcome Subject outcome Method of verification [K7_U04] prepares and presents onvincing, professional presentations of analysis results, with their in-depth interpretation interpretation [SW1] Assessment of factual interpretation [SW1] Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance (conditional probability, total probability advisus risk using statistical tools and methods [SW1] Assessment of factual knowledge Subject contents Elements of the calcul										
of lecturer (lecturers) Teachers dr Mariusz Kaszubowski Lesson types and methods of instruction Lesson type Lecture Tutorial Laboratory Project Seminar SUM Number of study nours E-learning hours included: 0.0 0.0 16.0 0.0 0.0 24 Learning activity and number of study hours Learning hours included: 0.0 Participation in didactic classes included in study plan Participation in didactic classes included in study plan Participation in didactic consultation hours Self-study SUM Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results ha convincing way along with professional information needed to analyzes insurance products based on historical and presentations of analysis results, demographic data and presents the information needed to analyze insurance market by analyzing warious insurance fractual information needed to analyze insurance inform the subject [SW1] Assessment of factual information needed to analyze insurance inform the subject. Subject contents Elements of the calculus of probability especially used in insurance (conditional probability, total probabilit gressin formation insurance risk distributions based on historical data Calculation of net premium sin various insurance variants Gross premium calculation Subject contents Subject contents Elements of the calculus of probability espec	· · · ·									
of instruction Number of study Participation in didactic classes included: 0.0 16.0 0.0 0.0 24 Learning activity and number of study hours Learning activity Participation in didactic classes included in study plan Participation in consultation hours Self-study SUM Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained Subject outcome Method of verification ILearning outcomes [K7_U04] prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation Subject outcome [SU3] Assessment of ability to use knowledge gained from the subject IK7_W06] Identifies reliable sources of information relevant to the analyzed issues identifies reliable sources of information needed to analyze the insurance market by analyzing various risks using statisticat lools [SW1] Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance (conditional probability distributions used in insurance risk assessment Testing the fit of theoretical insurance risk assessment and correquisites [Subject passing criteria Passing threshold Percentage of the final grade and criteria Precentage of the final grade and criteria Subject passing criteria Passing threshold Percentage of the final grade and criteria Recomme										
of instruction Number of study Participation in didactic classes included: 0.0 16.0 0.0 0.0 24 Learning activity and number of study hours Learning activity Participation in didactic classes included in study plan Participation in consultation hours Self-study SUM Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained Subject outcome Method of verification ILearning outcomes [K7_U04] prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation Subject outcome [SU3] Assessment of ability to use knowledge gained from the subject IK7_W06] Identifies reliable sources of information relevant to the analyzed issues identifies reliable sources of information needed to analyze the insurance market by analyzing various risks using statisticat lools [SW1] Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance (conditional probability distributions used in insurance risk assessment Testing the fit of theoretical insurance risk assessment and correquisites [Subject passing criteria Passing threshold Percentage of the final grade and criteria Precentage of the final grade and criteria Subject passing criteria Passing threshold Percentage of the final grade and criteria Recomme	Lesson types and methods	Lesson type Lecture		Tutorial Laboratory Pro		Projec	ct Seminar		SUM	
Learning activity and number of study hours Learning activity plan Participation in didactic classes included in study plan Participation in consultation hours Self-study SUM Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained 5.0 71.0 100 Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained Subject outcome Method of verification Learning outcomes Course outcome Subject outcome ISU3 Assessment of ability to use knowledge gained from the subject Iteration If(7_U04) prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation ISU3 Assessment of factual demographic data and presents the results in a convincing way along with professional interpretation ISU4 Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance conditional probability, total probabilit Bayesian formula) Probability distributions used in insurance risk distributions based on historical data Calculation of the torberetical insurance risk distributions based on historical data Calculation of uncloss and their application in the calculation of insurance premiums Analysis of life insurance markets in Poland and in the world Prerequisites and cor-requis			8.0	0.0	16.0			0.0	24	
and number of study hours classes included in study plan consultation hours consultation hours Number of study hours 24 5.0 71.0 100 Subject objectives Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained Method of verification Learning outcomes Course outcome Subject outcome Method of verification [K7_U04] prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation imalyzes insurance products based on historical and demographic data and presents the results in a convincing way along with professional interpretation [SU3] Assessment of ability to subject Subject contents Elements of the calculus of probability Bayesian formula) Identifies reliable sources of information needed to analyze the insurance market by analyzing various risks using statistical tools and methods [SW1] Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance (conditional probability, total probability distributions used in insurance risk assessment Testing the fit of theoretical insurance risk assessment calculation of net premiums in various insurance variants Gross premium calculation Commutation functions and their application in the calculation of insurance premiums Analysis of life insurance markets in Poland and in the word Prerequisites and co-requ		E-learning hours included: 0.0								
hours Learning outcomes Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained Learning outcomes Course outcome Subject outcome Method of verification [K7_U04] prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation ISU3] Assessment of ability to use knowledge gained from the analyzes insurance products based on historical and gengraphic data and presents information relevant to information relevant to information relevant to the analyzed issues [SU1] Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance (conditional probability, total probabilit Bayesian formula) Probability distributions used in insurance risk assessment Testing the fit of theoretical insurance risk assessment Testing the fit of theoretical insurance risk distributions based on historical data Calculation of net premiums in various insurance variants Gross premium calculation Commutation functions and their application Commutation functions and theirapplication Commutating function and poplication Comm	Learning activity and number of study hours	Learning activity	classes includ				Self-study		SUM	
Convincingly interpreting the results obtained Method of verification Learning outcomes Course outcome Subject outcome Method of verification [K7_U04] prepares and presents orivincing, professional presentations of analysis results, with their in-depth interpretation analyzes insurance products analyzes insurance products the results in a convincing way along with professional interpretation [SU3] Assessment of ability to use knowledge gained from the subject [K7_W06] identifies reliable sources of information relevant to the analyzed issues information needed to analyze the insurance market by analyzing various risks using statistical tools and methods [SW1] Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance (conditional probability, total probabilit Bayesian formula) [SW1] Assessment of alata calculation of net premiums in various insurance risk distributions based on historical data Calculation of net premiums in various insurance variants Gross premium calculation Life expectancy tables, their construction and application Commutation functions and their application in the calculation of insurance premiums Analysis of life insurance markets in Poland and in the world Percentage of the final grade Test Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Test Recommended reading Basic literature Ubezpieczenia na życie. Teoria i praktyka, Eugeniusz Stroiński, Wydawnictwo Poltext z serii Ubezp			24		5.0		71.0		100	
IK7_U04) prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation analyzes insurance products based on historical and demographic data and presents the results in a convincing way along with professional interpretation [SU3] Assessment of ability to use knowledge gained from the subject IK7_W06] identifies reliable sources of information relevant to the analyzed issues identifies reliable sources of information needed to analyze the information needed to analyze the information relevant to and methods [SW1] Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance (conditional probability, total probability and methods and methods [SW1] Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance (conditional probability, total probability distributions used in insurance risk distributions based on historical data Calculation of net premiums in various insurance variants Gross premium calculation Life expectancy tables, their construction and application Commutation functions and their application in the calculation of insurance premiums Analysis of life insurance markets in Poland and in the world Prerequisites and co-requisites Subject passing criteria Passing threshold Percentage of the final grade Test Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Test Basic literature Ubezpieczenia na życie. Teoria i praktt	Subject objectives	Explains the functioning of the insurance market by analyzing various insurance products, presenting and convincingly interpreting the results obtained								
convincing, professional presentations of analysis results, with their in-depth interpretation based on historical and demographic data and presents the results in a convincing way along with professional interpretation use knowledge gained from the subject [K7_W06] identifies reliable sources of information relevant to the analyzed issues identifies reliable sources of information needed to analyze the insurance market by analyzing various risks using statistical tools and methods [SW1] Assessment of factual knowledge Subject contents Elements of the calculus of probability especially used in insurance (conditional probability, total probability Bayesian formula) Probability distributions used in insurance risk distributions based on historical data Calculation of net premiums in various insurance variants Gross premium calculation Life expectancy tables, their construction and application Commutation functions and their application in the calculation of insurance premiums Analysis of life insurance markets in Poland and in the world Percentage of the final grade free Prerequisites and co-requisites Subject passing criteria Passing threshold Percentage of the final grade free Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade free Recommended reading Basic literature Ubezpieczenia na zycie. Teoria i praktyka, Eugeniusz Stroiński, Wydawnictwo Poltext z serii Ubezpieczenia, Marszawa 2004 Nowe zasady ubezpieczenia majątkowych i osobowych. Poradnik, T. Jakubowski, Warszawa 1991	Learning outcomes	Course outcome		Subject outcome			Method of verification			
sources of information relevant to the analyzed issuesinformation needed to analyze the insurance market by analyzing various risks using statistical tools and methodsknowledgeSubject contentsElements of the calculus of probability especially used in insurance (conditional probability, total probability Bayesian formula) Probability distributions used in insurance risk assessment Testing the fit of theoretical insurance risk distributions based on historical data Calculation of net premiums in various insurance variants Gross premium calculation Life expectancy tables, their construction and application Commutation functions and their application in the calculation of insurance premiums Analysis of life insurance markets in Poland and in the worldPrerequisites and co-requisitesSubject passing criteriaPassing thresholdPercentage of the final grade dout the final grade and criteriaRecommended readingBasic literatureUbezpieczenia na życie. Teoria i praktyka, Eugeniusz Stroiński, Wydawnictwo Poltext z serii Ubezpieczenia, Warszawa 2004 Nowe zasady ubezpieczenia majątkowych i osobowych. Poradnik, T. Jakubowski, Warszawa 1991		convincing, professional presentations of analysis results,		based on historical and demographic data and presents the results in a convincing way along with professional			use knowledge gained from the			
Bayesian formula) Probability distributions used in insurance risk assessment Testing the fit of theoretical insurance risk distributions based on historical data Calculation of net premiums in various insurance variants Gross premium calculation Life expectancy tables, their construction and application Commutation functions and their application in the calculation of insurance premiums Analysis of life insurance markets in Poland and in the world Prerequisites and co-requisites Assessment methods Subject passing criteria Passing threshold Test 60.0% Recommended reading Basic literature Ubezpieczenia na życie. Teoria i praktyka, Eugeniusz Stroiński, Wydawnictwo Poltext z serii Ubezpieczenia, Warszawa 2004 Nowe zasady ubezpieczeń majątkowych i osobowych. Poradnik, T. Jakubowski, Warszawa 1991		sources of information relevant to		information needed to analyze the insurance market by analyzing various risks using statistical tools						
and co-requisites Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade 100.0% Recommended reading Basic literature Ubezpieczenia na życie. Teoria i praktyka, Eugeniusz Stroiński, Wydawnictwo Poltext z serii Ubezpieczenia, Warszawa 2004 Nowe zasady ubezpieczeń majątkowych i osobowych. Poradnik, T. Jakubowski, Warszawa 1991	Subject contents	Probability distributions used in insurance risk assessment Testing the fit of theoretical insurance risk distributions based on historical data Calculation of net premiums in various insurance variants Gross premium calculation Life expectancy tables, their construction and application Commutation functions and their application in the calculation of insurance premiums								
and criteria Test 60.0% 100.0% Recommended reading Basic literature Ubezpieczenia na życie. Teoria i praktyka, Eugeniusz Stroiński, Wydawnictwo Poltext z serii Ubezpieczenia, Warszawa 2004 Nowe zasady ubezpieczeń majątkowych i osobowych. Poradnik, T. Jakubowski, Warszawa 1991										
Wydawnictwo Poltext z serii Ubezpieczenia, Warszawa 2004 Nowe zasady ubezpieczeń majątkowych i osobowych. Poradnik, T. Jakubowski, Warszawa 1991				-		Percentage of the final grade 100.0%				
	Recommended reading	Basic literature		Wydawnictwo Poltext z serii Ubezpieczenia, Warszawa 2004 Nowe zasady ubezpieczeń majątkowych i osobowych. Poradnik, T.						
				Podstawy ubezpieczeń, tom II produkty, pod redakcją Jana Monkiewicza, Wydawnictwo Poltext, seria: Ubezpieczenia, Warszawa 2005 (wydanie i - 2001)						

	eResources addresses	Adresy na platformie eNauczanie:				
		Statystyka ubezpieczeniowa Analityka gospodarcza (WZiE), II stopnia, niestacjonarne, 2023/2024 - zimowy (obecnie sem. 2) - Moodle ID: 37965 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37965				
Example issues/ example questions/ tasks being completed	Problems in the theory of probability (using e.g. the Bayes formula) Calculation of the net premium in various variants Calculation of the net premium for various insurances Application of commutation functions Theoretical questions about the functioning of the insurance market in Poland and in the world					
Work placement	Not applicable					