Option Pricing MA ECON AM FIE OPTPR							
Contant and loaming outcome				UNIVERSITAT BONN			
Content	The course presents the pricing and hedging of options in the continuous time model						
	by Black and Scholes. The model dependency of the perfect duplication strategy and						
	its applications to risk management will be discussed. This includes a discussion of the						
	standard ontions the pricing of more complex financial contracts will be applyed						
	Numerical approximations like the Monte Carlo method will be applied to these						
	contracts.						
Learning outcome	The course aims to provide students with an understanding of the Black and Scholes						
	option pricing model. It enables them to recognize the significant role of risk neutral						
	pricing as the basis of modern option pricing theory. Students learn to apply the						
	technique including numerical methods of risk neutral pricing to nonstandard						
	financial products and to review the hedging strategies with respect to the risk						
	management of options.						
Teaching and learning methods							
Type of course/learning	Торіс		Language of	Group	Conta	ct Workload	
locturo	Ontion Driging		English	20	4 hou	[n] rc 60	
Self-study			LIIGIISII		4 1100	165	
Prereguisites							
obligatory	none						
recommended	Basic Module Finance						
Degree program allocation							
Study Program/Study Field/Module Number/Lecture Number			obligatory/ elective		Semester		
Economics (M.Sc.)/Financial Economics/332124023/3320			024023	elective		2 <sup>nd</sup>	
Export*(332192423/332024023)							
Requirements for the awarding of credit points (ECTS) Credit						Credits	
Prerequisites	none						
for participation	7,5 CP						
Types of Assessment	whiten of oral exam of term paper (graded, 100%)						
	Workload		orkload	Duration			
Winter term	Winter and	WORKIOUU		Daration			
Summer term	Summer term		225 h	1 Term			
Module coordination							
Teaching person	See https://basis.uni-bonn.de						
Module coordinator	Prof. Dr. Hendrik Hakenes						
Institute/Department	Department of Economics						
Further Information							
Literature	The recommended literature will be announced at the beginning of the course.						