

Title of course	Economics and Finance of Risk and Uncertainty
Responsible instructor	Prof Diego d'Andria, PhD
Learning objectives	 Understand the role of information in economic and financial contexts Acquire the basic theoretical modelling tools to represent choice under limited information Learn about the economic trade-offs met when searching for information Learn the difference between risk and uncertainty and the different methodological approaches to risk, loss and uncertainty aversion Be introduced to basic game theory and strategic behaviour under limited information Learn about economic models assuming asymmetrical information or symmetric uncertainty Learn about the non-rival nature of information and the consequences for its production and diffusion Learn how markets deal with limited information by means of multiple
Course contents	 contracts and financial instruments 1. Information as an economic good 2. Choice under limited information a. The von Neumann-Morgenstern utility function b. Risk versus uncertainty c. Rules of thumb under Knightian uncertainty 3. Risk aversion and behavioural theories 4. The role of information in financial markets a. Markowitz efficient frontier b. The value of insurance, derivatives and hedging 5. Strategic behaviour: An introduction to game theory a. The "prisoner's dilemma" b. "War of the sexes" c. "Beauty contest" 6. Asymmetric information a. Markets for Lemons b. Models of entrepreneurial entry c. Contracts as screening devices 7. Symmetric uncertainty a. The "superstars and mediocrities" model 8. How much information? a. Search costs and the optimal stopping problem b. The value of waiting 9. Information and non-rivalry a. The example of rating agencies b. Knowledge spillovers and R&D investment
Teaching methods	 Lectures In-class discussion Maieutic discourses Exercises Self-study
Prerequisites	There are no formal requirements.
Suggested reading	 Birchler U. and Bütler M. (2007), <i>Information Economics</i>, Routledge. Handouts and further references will be given during the classes.



Applicability	This course is in particular applicable to the following Master programmes: International Business and Economics (M.A.; "IBE"), Finance (M.Sc.).
	This course is also applicable to other business-oriented Master programmes offered by Schmalkalden University of Applied Sciences.
Workload	Total workload: 180 hours, of them:
	 Lecture: 45 Self-study: 135. of them:
	Course preparation (in particular reading): 45
	Follow-up: 45
	 Readings and exam preparation (including mid-term): 45
ECTS credit points and weighting factor	6 ECTS credit points; weighting factor: 6/120 (IBE) or 6/90 (Finance), respectively
Basis of student evaluation	Comprehensive written examination, 90 minutes (80%)
	 Mid-term exam, 60 minutes (20%)
Time	First academic year
Frequency	Each academic year
Duration	One semester
Course type	Elective course
Remarks	Teaching language is English.