		RIAL DECISIONS SE SYLLABUS	
Code and name of specialty	073 – Management	Institute	Institute of Education and Science in Economics, Management and International Business
Program name	Management of Organizations and Administration	Department	Management
Type of program	Educational and Professional	Language of instruction	English
	LE	CTURER	
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PhD in Physics & Mathematics, Master's degree in Management, associate professor, associate professor of the Management department (NTU "KhPI")

Authored and co-authored over 100 scientific publications. Teaches courses: «Organization theory», «Decision making in business», «Managerial decisions», «Marketing management», «Business ethics and social responsibility», «Basics of scientific research»

GENERAL DESCRIPTION OF THE COURSE

Summary	process of formal asse	ssment and selection of	of decision alternatives.	The ultimate g	es to decision making, mat goal of the course is to pro ons at different levels of n	vide studen	ts with knowledge and d	levelop
Course objectives	to help students devto show the role of c	elop the ability to asse lata analysis in decision		and choose a	ppropriate approaches to	decision ma	king and implementatio	n;
Types of classes and control	Lectures, practical clas	ses, term paper. The c	course ends with a final o	exam				
Term	6							
Student workload (c	redits) / Type of course	5/ Elective	Lectures (hours)	24	Practical classes (hours)	24	Self-study (hours)	102
Program competences	GC11.The ability to adj GC12. The ability to ge	just to a new situation nerate new ideas (crea						

SC08. The ability to plan an organization's activities and manage time.
SC09. The ability to work in a team and establish interpersonal interaction when solving professional tasks.
SC10. The ability to assess how work is performed, ensure work quality and motivate the organization's personnel.
SC12. The ability to analyze and structure organizational problems, make informed and justified decisions
SC1.1. The ability to collect and process primary accounting and managerial information; understand and be capable of applying accounting and auditing systems
SC1.2. The ability to formulate the main tasks related to the implementation of the risk management system in an organization

SC1.3. Understanding business ethics principles and using them in professional activities.

Learning outcomes	Teaching and learning methods	Forms of assessment (continuous assessment CAS, final assessment FAS)
LO 04. To demonstrate the ability to identify problems and justify managerial decisions	Interactive lectures with presentations, discussion-based learning, case-based learning, problem solving	Written individual assignments (CAS), assessment of the meaningful contribution to in-class discussions (CAS), mid- term control (CAS), defense of the term paper (FAS), final exam (FAS)
LO 06. To show the ability for searching for, collecting and analyzing information, calculating metrics for justifying managerial decisions	Interactive lectures with presentations, discussion-based learning, case-based learning, problem solving, project-based learning (term paper)	Written individual assignments (CAS), assessment of the meaningful contribution to in-class discussions (CAS), mid-term control (CAS), defense of the term paper (FAS)
LO 07. To show the ability to design an organization	Interactive lectures with presentations, discussion-based learning, case-based learning,	Written individual assignments (CAS), assessment of the meaningful contribution to in-class discussions (CAS),mid-term control (CAS), final exam (FAS)
LO 09. To demonstrate interaction, leadership, and teamwork skills	Interactive lectures with presentations, discussion-based learning, case-based learning, collaborative-learning, student-peer feedback	A written group assignment with subsequent in-class presentation (CAS), assessment of the meaningful contribution to in-class discussions (CAS)
LO 12. To assess the legal, social, and economic effects of an organization's activities	Interactive lectures with presentations, discussion-based learning, case-based learning	Written individual assignments (CAS), assessment of the meaningful contribution to in-class discussions (CAS), mid-term control (CAS), final exam (FAS)
LO 16. To demonstrate the ability for independent work, flexible thinking, openness to new knowledge, criticism and self-criticism	Project-based learning (term paper), case-based learning, discussion-based learning, student-peer feedback	Written individual assignments (CAS), assessment of the meaningful contribution to in-class discussions (CAS), defense of the term paper (FAS)
LO 1.3. To generate and analyze managerial and tax reports of companies and correctly interpret the information obtained for making organizational decisions	Interactive lectures with presentations, discussion-based learning, case-based learning, project-based learning (term paper), work with databases using Excel spreadsheet	Written individual assignments on data analysis (CAS), assessment of the meaningful contribution to in-class discussions (CAS), defense of the term paper (FAS)
LO 1.4. To demonstrate the ability for analysis, identification and assessment of risks.	Interactive lectures with presentations, discussion-based learning, case-based learning	Written individual assignments (CAS), assessment of the meaningful contribution to in-class discussions (CAS), final exam (FAS)

ASSESSMENT AND GRADING

ding	core (points) for all types of learning activities	ECTS grading scale	The national grading scale		100% Final grade is the result of the Final assessment (50%) and
bone	90-100	А	excellent		Continuous assessment (50%).
rres	82-89	В	good		50% Final assessment : the final exam (25 %); the defense of the term paper
s cori ades	74-81	С	good	Allocation	(25 %)
points to gra	64-73	D	satisfactory	of grade points	50% Continuous assessment:
	60-63	E	Satisfactory	points	 20% individual and group written
es of	35-59	FX	Unsatisfactory (with the exam retake option)		assignments;20% mid-term control (an open-
Range	0-34	F	Unsatisfactory (with mandatory repetition of the course)		question test);10% participation in class discussions
Course p			ses regularly, to get to class on time and stay for the duration o make up for the missed classes. Students are also expected t		

licy required to submit all assignments to make up for the missed classes. Students are also expected to come to class having read all the required material and being ready to productively participate in the class discussions. Written assignments should be submitted before the specified deadlines.

COURSE STRUCTURE AND CONTENT

Lecture 1	Introduction to decision making	Practical 1	The role of decision making in management		Watching a video on effective decision making and writing an essay on the main takeaways. Describing one's own important life decision (either past or pending), classifying it and analyzing decision environment. Decomposing a complex decision into a number (hierarchy) of sub-decisions
Lecture 2	Methodological approaches to decision making. Decision- making models	Practical 2	Normative, descriptive and integrative approaches to decision making. Deviations from the rational decision making model. Ethical decision making	Self-study	political model of decision making and sources of power in organizations; showing the role of a systems approach in decision
Lecture 3	Individual and group decision making	Practical 3	Advantages and disadvantages of individual and group decision making.		Applying the Fishbone diagram for root cause analysis (collaborative project); case study on decision making: suggesting an appropriate decision making method for a given decision situation; choosing an appropriate leadership style for a given decision situation using the Vroom-Yetton-Jago model.
Lecture 4	Multiple criteria decision making	Practical 4	The use of compensatory and non-compensatory		Solving problems using Analytic Hierarchy Process; making choice using non-compensatory models. Working on the term paper.

			models in decision making. Analytic hierarchy process.
Lecture 5	Decision making under certainty	Practical 5	The use of decision tables and linear programming
Lecture 6	Decision making under uncertainty	Practical 6	Practicing the use of different criteria for decision making under uncertainty.
Lecture 7-8	Decision making under risk conditions	Practical 7-8	Practicing the use of payoff matrices and decision trees. Types of risks and risk management systems
Lecture 9	The value of information	Practical 9	Computing the value of perfect and imperfect information.
Lecture 10	Optimization models	Practical 10	Inventory control models; queueing theory; game theory
Lecture 11	Decision support systems	Practical 11	Components of decision support systems; types of decision support systems
Lecture 12	Decision implementation	Practical 12	The mechanism for implementing a decision. Evaluating the decision outcomes.

RECOMMENDED READING

1. Bonanno G. Decision Making, 2017. http://faculty.econ. ucdavis.edu /faculty/ bonanno/PDF/DM book.pdf 2. Pownall I. Effective Management Decision Making: An Introduction / Ian Pownall & bookboon.com, 2012. - 236 p. 3. Albright C.S., Winston W. L. Data Analysis and Decision Required Making. 5th Ed. / Cengage Learning, 2015. – 990 p. 4. Turban E., Meredith J. R. Fundamentals of Management Science / McGraw-Hill, 1998. – 914 p. 5. Mu E., Pereyra-Rojas M. Practical Decision Making: An Introduction to the Analytic Hierarchy Process / Springer Briefs in Operations Research. / Springer, 2017. https://link.springer.com/content/pdf/bbm%3A978-3-319-

33861-3%2F1.pdf

- 1. Прийняття управлінських рішень : навчальний посібник / [Ю.Є.Петруня, Б. В. Літовченко, Т. О. Пасічник та ін.]; за ред. Ю.Є. Петруні. – [3- тє вид., переробл. І доп.]. – Дніпропетровськ : Університет митної справи та фінансів, 2015. – 209 с.
- 2. Гевко І.Б. Методи прийняття управлінських рішень: підручник. К.: Кондор, 2009. 187 с. 3. Файнзільберг О.А. Теорія прийняття рішень : підручник / Л.С. Файнзільберг, О.А.
- Жуковська, В.С. Якимчук. Київ : Освіта України, 2018. 246 с.
- 4. Madden J. A Practical Guide For Consensus-Based Decision Making. London, Ontario, 2017.
- **Additional** https://www.tamarackcommunity.ca/hubfs/Resources/Tools/Practical%20Guide%20for%20Con sensus-Based%20Decision%20Making.pdf
 - 5. Martin M. Top 10 BEST Decision Making Tools for Business in 2021 / August 27, 2021 https://www.guru99.com/decision-making-tools.html

6. Dagher K. 10 of the Most Effective Group Decision Making Techniques June 21,2021 https://fellow.app/blog/productivity/group-decision-making-techniques/

Academic integrity

Students are expected to adhere to the Code of Ethics of Academic Relations and Integrity of NTU "KhPI".

The content of this syllabus is consistent with the Managerial Decisions course program.