COURSE DESCRIPTION (Group C)

Course code	Course group	Volume in ECTS credits	Course valid from	Course valid to
KOM5049	С	6	2020/2021	2022/2023

Course type (compulsory or optional)	Compulsory	
Course level (study cycle)	Post-graduate	
Semester the course is delivered	Autumn Semester	
Face-to-face, distance or blended studies	Mixed mode (blended studies: lecture and	
	workshop sessions combined with distance learning	
	and self-study options)	

Course title in Lithuanian

Programavimas žurnalistams

Course title in English

Coding for Journalists

Short course annotation in Lithuanian (up to 500 characters)

Šiuolaikinėje visuomenėje žurnalistikos vaidmuo kur kas reikšmingesnis, nei tik skelbti neapdorotus duomenis; o ypatingai svarbiu žurnalisto įgūdžiu yra laikomas jo gebėjimas apdoroti didelius ir dažnai nestruktūrizuotus duomenis, išgauti iš jų vertingą informaciją bei suteikti jai papildomą prasmę. Kai kurios rankiniu būdu atliekamos užduotys užima daug laiko ar net atrodo neįveikiamos; tačiau programos kodo pagalba tinkamai parinkus technologijas tas užduotis galima automatiškai atlikti vos per keletą minučių ar sekundžių.

Short course annotation in English (up to 500 characters)

In the modern society journalism became much more than publishing raw data. The ability to process the big and often unstructured data, extract valuable information and give additional meaning to it becomes an indemand skill for any journalist. However, some manually performed tasks are time consuming or seem impossible, but can be completed within minutes or even seconds with a script and appropriately chosen programming technologies.

Prerequisites for entering the course

Bachelor diploma, English language B2 level.

Course aim

To demonstrate students how to formalize and solve given tasks with introduced technologies; to teach how to code focusing on the tasks they may need in practice (e.g., scrap data from the Internet; process targeted information in the text; handle data in csv, xlsx files or SQL databases; etc.).

Links among study programme outcomes, course outcomes, content, study and assessment methods

Programme	Course outcomes	Content (topics)	Study	Assessment
outcomes		_	methods	methods
2. Analytical and research-based competences: 2.1. To identify significant research questions in the field of journalism, media and communications, to initiate and manage scientific and applied research;	Students apply algorithmic knowledge / programming skills to journalistic research (automatic data collection, processing, generalization)	Issues addressed in class sessions: • Basics of python programming (variable types, conditional sentences, loops, file handling, etc.) • Regular expressions for text processing (i.e., search/extraction/repla	Lectures, self- study sessions	Mini research work, its description and presentation
2.2. To apply qualitative, quantitative and mixed research methodology and empirical data collection techniques in media, journalism	Students gain programming skills; learn about programming libraries for automatic data collection (from the	cement of targeted text elements) Named entity recognition Web scrapping Handling csv, xlsx data	Lectures, self- study sessions	Tasks requiring algorithmic knowledge and programming skills

and communications research	Internet) and its structuring	•	files Working with		
3. Professional competences and skills: 3.3. To experiment and critically explore how art and content creation in contemporary journalism are related to affordancies offered by emerging media technologies (text, audio-visual, VR, AI)	Students apply algorithmic knowledge and innovative technologies in practical tasks		databases: basic SQL statements	Lectures, self- study sessions	Tasks requiring the right technology choice and their application in practice

Criteria of learning achievement evaluation

Tasks requiring algorithmic knowledge, programming skills, analytical thinking and creativity

Distribution of workload for students (contact and individual work hours)

Study forms	Hours in face-to-face stud	lies Hours in online studies
Lectures	15	15
Seminars	0	0
Laboratory work	15	15
Practical assignments	0	0
Consultations	0	10
Individual student work	0	90
Te	otal: 160	·

Structure of cumulative score and value of its constituent parts

Final Grade (FG, 100%) = HW (mini research work, its description, presentation, 33%) + MT (programming tasks, 17%) + E (programming tasks, theoretical questions, 50%)

Recommended reference materials

Recommended reference materials					
No	Publicat	Authors and title	Number of copies in University libraries or link to e-source		
	ion year	of			
		publication (e-			
		source)			
	Basic materials				
1. Updated in 2020 Python tu	Duthon tutorial	Python pagrindai (python basics):			
	Python tutoriai	https://www.w3schools.com/python/			
2.	2018	Tutorials Point (I) Pvt. Ltd. "Python Web Scrapping"	Informacijos iš žiniatinklio traukimas automatiniu būdu/pdf knyga (web scrapping/pdf book): https://www.tutorialspoint.com/python_web_scraping_tutorial.pdf		
3.	2007	Jan Goyvaerts "Regular Expressions: The Complete Tutorial"	Reguliariosios išraiškos/pdf knyga (regular expressions/pdf book) https://www.princeton.edu/~mlovett/reference/Regular-Expressions.pdf		
4.	Upaded in 2020	SQLite Python	Darbas su duomenų bazėmis (working with DBs) https://www.sqlitetutorial.net/sqlite-python/		
	Supplementary materials				
Progr	Programming forums (e.g. https://python-forum.io/); any literature on related topics				

Course description designed by

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