Course Syllabus

Course from study programme for the cycle: 2022/2023

I. General Information

Course name	Multimedia applications (seminar)
Programme	Informatics
Level of studies (BA, BSc, MA, MSc, long-cycle MA)	BA
Form of studies (full-time, part-time)	full-time
Discipline	Informatics
Language of instruction	English

Course coordinator	Armen Grigoryan, PhD

Type of class *(use only the types mentioned below)*	Number of teaching hours	Semester	ECTS Points
lecture			2 (V sem.), 2 (VI sem.)
tutorial			
classes			
laboratory classes			
workshops			
seminar	30 (V sem.) + 30 (VI sem.)	V and VI	
introductory seminar			
foreign language classes			
practical placement			
field work			
diploma laboratory			
translation classes			
study visit			

Course pre-requisites	

II. Course Objectives

Mastering the principles of writing a BA thesis.
Writing/completing a BA thesis.

III. Course learning outcomes with reference to programme learning outcomes

Symbol	Description of course learning outcome	Reference to programme learning outcome
KNOWLEDGE		
W_01	The student is able to identify the problems of the topic raised in the BA thesis.	K_W08
W_02	The student is able to assess his/her knowledge in the field of the developed topic and use available sources.	K_W08
W_03	The student is able to set goals and apply research methods, formulate conclusions and original solutions to advanced problems in computer science.	K_W08
W_04	The student is able to discuss the principles of intellectual property protection and methods of lawful citation of literature in the BA thesis.	K_W08
SKILLS		
U_01	The student is able to verify the most important information from available scientific publications and assess their usefulness.	K_U02, K_U23
U_02	The student is able to plan the next stages of his/her paper, select scientific and research methods, use the collected research sources.	K_U17, K_U18, K_U29, K_U30
U_03	The student is able to choose substantive arguments in the discussion using his/her own thoughts, prepare a presentation on the scope of his/her thesis.	K_U29, K_U30
SOCIAL COMPETENCIES		
K_01	The student is able to communicate with professionals in the learned field and is aware of problems related to the practicing of the profession.	K_K01
K_02	The student has a need for lifelong learning and an ability to motivate others to broaden their qualifications.	K_K05
K_03	The student is able to set priorities for implementation of his tasks. He/she is able to be independent and organized.	K_K05
K_04	The student is able to make constructive self-assessment and criticism on the social and ethical aspects of his/her own thesis.	K_K03

IV. Course Content

Basic concepts of multimedia applications.
Intermediate/advanced topics of object oriented programming languages.
OpenGL SL/ES nad WebGL standards.
2D and 3D games.
Multimedia applications for mobile devices.

Editors and software used to prepare the thesis.
Basic principles of writing and preparing the thesis and the use of sources.
Importance of the thesis in the process of education and development.
Formulation and specification of the paper's topics.
Principles of intellectual property protection and ways of using information, analysis of language

and terminology in technical sciences. Review of the layout of the paper and applied methods. Correction of subsequent parts of the paper. Discussion on the correctness of the development of the paper. Correction of errors in the form of group analysis and individual conversations. Critical analysis and interpretation of obtained results. Preparation of the thesis and its presentation. Presentation of available sources of information.

V. Didactic methods used and forms of assessment of learning outcomes

Symbol	Didactic methods *(choose from the list)*	Forms of assessment *(choose from the list)*	Documentation type *(choose from the list)*
KNOWLEDGE			
W_01	Guided research (seminar paper) Tutoring	Paper	Evaluated written paper
W_02	Guided research (seminar paper) Tutoring	Paper	Evaluated written paper
W_03	Guided research (seminar paper) Tutoring	Paper	Evaluated written paper
W_04	Guided research (seminar paper) Tutoring	Paper	Evaluated written paper
UMIEJĘTNOŚCI			
U_01	Guided research (seminar paper) Tutoring	Paper	Evaluated written paper
U_02	Guided research (seminar paper) Tutoring	Paper	Evaluated written paper
U_03	Guided research (seminar paper) Tutoring	Paper	Evaluated written paper
KOMPETENCJE SPOŁECZNE			
K_01	Discussion Tutoring	Paper	Evaluated written paper
K_02	Discussion Tutoring	Paper	Evaluated written paper
K_03	Discussion Tutoring	Paper	Evaluated written paper
K_04	Discussion Tutoring	Paper	Evaluated written paper

VI. Grading criteria, weighting factors.....

o pass the first semester, the student is obligated to:

understand the subject of the thesis,
collecting the basic literature,
define the paper's objective and programming environment,
write at least one section of the paper,
prepose the application related to the paper,
present the topic of the paper.

To pass the second semester, the student is obligated to:

complete the literature,
present the topic of the paper,
test the application,
complete the thesis,
to write the paper taking into account the principles of intellectual property protection and correct citation in the BA thesis,
prepare a presentation of the thesis.

VII. Student workload

Form of activity	Number of hours
Number of contact hours (with the teacher)	60 (30 V semestr, 30 VI semestr)
Number of hours of individual student work	60 (30 V semestr, 30 VI semestr)

VIII. Literature

Basic literature
R. A. Day, How to write and publish a scientific paper, Oryx Press, 1988.
Additional literature
Literature selected individually to the student's scientific interests and the needs of the topic of the paper.