

Course Syllabus

I. General Information

Course name	Programming project: network and internet technology
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	dr Viktor Melnyk prof. KUL
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Type of class (<i>use only the types mentioned below</i>)	Number of teaching hours	Semester	ECTS Points
lecture			3
tutorial			
classes			
laboratory classes	30	VI	
workshops			
seminar			
introductory seminar			
foreign language classes			
practical placement			
field work			
diploma laboratory			
translation classes			
study visit			

Course pre-requisites	PR_1 - Compulsory subjects and subjects selected as part of the specialization, necessary to complete the task outlined in the thesis. PR_2 - Programming skills. PR_3 - Knowledge of the methodology and technique of object-oriented programming.
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II. Course Objectives

O_1 - Designing applications using advanced programming techniques.
O_2 - A practical solution in a systematic way to the problem described in the thesis.
O_3 - Development of an application by students along with documentation which is part of the bachelor's 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 has basic knowledge of the technology he chose to create the application.	K_W08
W_02	The student is able to recall information in the field of software development, which is necessary for the scheduling of the entire project.	K_W08
W_03	The student is able to describe the functionality of the application, locate the source code which is the implementation of the selected application functionality, define a work problem and explain its solution using the application.	K_W08
SKILLS		
U_01	The student is able to design an application and then create it using the chosen technology.	K_U08
U_02	The student is able to independently search and use information helpful in designing the application from technical documentation, help files as well as Internet resources and available literature.	K_U02, K_U23
U_03	The student is able to present his programming project with particular attention to its functionality, explain the principle of operation of individual modules of the prepared application.	K_U30
U_04	The student is able to work systematically, which develops the ability to work on time, conscientiously work, which creates the highest quality software that implements the functionalities assumed in the bachelor thesis.	K_U04, K_U17
SOCIAL COMPETENCIES		
K_01	Works individually and systematically on the project in accordance with the prepared schedule.	
K_02	Uses retrieved information, taking into account ethical and legal principles.	
K_03	Is able to define priorities within the project being implemented, shows initiative and effectiveness.	

IV. Course Content

<p>Development of a project and writing an application in accordance with the topic set at the selected diploma seminar.</p> <p>Development of project documentation in accordance with the required patterns.</p> <p>Conducting a presentation of the created application.</p>

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)
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KNOWLEDGE			
W_01	Guided practice	Implementation of the project	Project rating card
W_02	Guided practice	Implementation of the project	Project rating card
W_03	Guided practice	Implementation of the project	Project rating card
SKILLS			
U_01	Project-based learning design thinking	Implementation of the project	Project rating card
U_02	Project-based learning design thinking	Implementation of the project	Project rating card
U_03	Project-based learning design thinking	Implementation of the project	Project rating card
U_04	Project-based learning design thinking	Implementation of the project	Project rating card
SOCIAL COMPETENCIES			
K_01	Project-based learning design thinking	Implementation of the project	Project rating card
K_02	Project-based learning design thinking	Implementation of the project	Project rating card
K_03	Project-based learning design thinking	Implementation of the project	Project rating card

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

The condition for passing the course is to execute the practical part of the bachelor's thesis.

VII. Student workload

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

VIII. Literature

Basic literature
Literature recommended by the seminar leader
Additional literature