

SYLLABUS OF THE DISCIPLINE Video Game Development Component of the educational program - elective (3.0 credits)

Educational and professional	Information technology and project management
program	
Specialty	122 – Computer science
Field of knowledge	12 – Information technology
Level of higher education	first (bachelor's)
Language of instruction	English
Teacher's profile	Andrii Dorosh,
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	Mathematical Modeling
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Course page in Moodle	https://moodle.chnu.edu.ua/course/view.php?id=8226

SUMMARY OF THE SUBJECT

Objective of the discipline is to master the basic principles of creating and developing video games of various genres for different platforms.

EDUCATIONAL CONTENT OF THE EDUCATIONAL COMPONENT

MODULE 1.		
Topic 1	Unity game engine user interface	
Topic 2	Simple objects and 3D physics	
Topic 3	Textures and colliders	
MODULE 2.		
Topic 4	Creating scripts in C#	
Topic 5	Creating animations	
Topic 6	6 2D physics	

FORMS, METHODS AND EDUCATIONAL TECHNOLOGIES

Teaching and learning methods: lectures, laboratory classes, e-learning using Moodle system, testing, completion of individualized learning tasks.

FORMS AND METHODS OF CONTROL AND EVALUATION

Types and forms of control:

1. Current (verbal questioning, problem solving).

2. Modular (tests, laboratory tasks).

Means of assessment: tests; team projects; analytical reports on laboratory work, individual tasks and independent work.

Final control: credit.

CRITERIA FOR ASSESSING LEARNING OUTCOMES

The learning outcomes assessment system is based on ECTS principles and is cumulative. During the semester, students complete laboratory tasks and test assignments, for which they can get up to 60 points. The final control in the discipline is a credit (40 points).

POLICY ON ACADEMIC INTEGRITY

Compliance with the policy on academic integrity by participants of the educational process in the study of the discipline is regulated by the following documents:

- ✓ Ethical Code of Yuriy Fedkovych Chernivtsi National University <u>https://www.chnu.edu.ua/universytet/normatyvni-dokumenty/etychnyi-kodeks-</u> <u>chernivetskoho-natsionalnoho-universytetu-imeni-yuriia-fedkovycha/</u>
- ✓ Regulations on Detection and Prevention of Academic Plagiarism at Yuriy Fedkovych Chernivtsi National University <u>https://www.chnu.edu.ua/universytet/normatyvni-dokumenty/polozhennia-pro-vyiavlennia-ta-zapobihannia-akademichnomu-plahiatu/</u>

INFORMATION RESOURCES

- 1. <u>https://unity.com</u>
- 2. <u>https://moodle.chnu.edu.ua/course/view.php?id=8226</u>