

COURSE SYLLABUS
Information systems and technologies

Degree of higher education– first (bachelor).

Specialty– 182 Consumer Industry Technologies.

Educational program – Design and Technology of Sewing Products; Fashion Industry; Styling, design and artistic finishing of fashion industry products.

Course status– compulsory.

Instructor: Antonina Volivach, PhD in Technical Sciences, senior instructor of Department of Computer Science and Technologies.

1. Course description:

Semester: 3.

Scope: total number of hours – 180, of which: lectures – 12 hours, laboratory classes – 24 hours, student's individual work – 144 hours; ECTS credits – 6.

Course objectives mastering competencies: skills of using information and communication technologies; ability to learn and master modern knowledge.

Learning outcomes of the course:

know: the essence and purpose of society informatization process; hardware and software components of information systems; block diagram of a personal computer and the purpose of the main functional units; basic characteristics of a personal computer and the principles of its operation; basic functional and technological capabilities of Windows; purpose and advantages of using modern computer-aided design systems in consumer industry technologies; integrated application packages, the main features of the professional office suite Microsoft Office; basic principles of organization and functioning of computer networks; HTML language for developing and creating Web-pages;

be able to: apply abstract thinking in solving complex specialized problems in the production and technology of consumer industry; use the capabilities of word processor MS Word, spreadsheet MS Excel and MS PowerPoint at a professional level; work with databases in MS Excel; use the global Internet and develop web-pages using HTML;

able to demonstrate: information literacy on the theoretical foundations of computer technology, technological support of computer systems and information systems and technologies; application software using skills;

have the skills of: modern information systems and technologies, general and specialized software in professional activities;

solve independently: issues related to the use of information systems and technologies at the necessary level to achieve other results of the educational program;

able to work in a team in solving tasks, listen to the opinions of the team during teamwork.

Required educational components (prerequisites, co-requisites, and post-requisites): advanced mathematics, physics, engineering and computer graphics.

Course content: Topic 1. Theoretical foundations of information systems and technologies. Topic 2. MS Word processor. Topic 3. MS Excel spreadsheet. Topic 4. Working with databases in MS Excel. Topic 5. Technology of creating presentations by Ms PowerPoint. Topic 6. Basic concepts and terms in computer networks and telecommunications. Topic 7. The global community of the Internet computer networks.

Types of classes: lecture, laboratory class, consultation.

Forms of final control: exam (semester 3).

Tools for diagnosing learning success: individual tasks, a list of questions to check independent work, sets of test tasks for thematic controls 1,2 and final control.

Language of instruction: Ukrainian.

2. Assessment

Distribution of points received by applicants for higher education (exam)

Ongoing assessment and independent work									Exam	Total
T1	T2	T3	Thematic test control T1 – T3	T4	T5	T6	T7	Thematic test control T4 – T7		
5	15	20	10	10	10	3	7	10	10	100

Distribution of points in the course

Activities evaluated in points	T1	T2	T3	T4	T5	T6	T7	Total
Mastering and defense of lecture material	5	2	4	2	2	3	1	19
Laboratory work performance and defense	-	13	16	8	8	-	6	51
Thematic test control T1 – T3	10			-				10
Thematic test control T4 – T7	-			10				10
Exam	10							10
Total in the course								100

Exam evaluation criteria:

The exam is held in written form and consists of 5 practical and 10 test tasks.

Compliance with the scales for assessing the quality of learning material

National scale grade for the exam, CP, CR/credit	Grade in points	ECTS grade	Definition
Excellent/ pass	90 – 100	A	Excellent (excellent performance with only a small number of errors)
Good/ pass	82 – 89	B	Very good (above the average standard but with minor errors)
	74 – 81	C	Good (generally sound work with some errors)
Satisfactory/ pass	64 – 73	D	Satisfactory (fair but with significant shortcomings)
	60 – 63	E	Pass (performance meets the minimum criteria)
Unsatisfactory/ failed	35 – 59	FX	Fail (some more work required before the credit can be awarded)
	0 – 34	F	Fail (considerable further work is required)

3. Course policy:

3.1 Mandatory observance of academic integrity by higher education students, namely:

- independent performance of all activities, tasks, forms of control provided by the working program of this course;
- references to the sources of information if ideas, developments, statements, information are used;
- compliance with the legislation on copyright and related rights;
- providing reliable information about the results of their own educational (scientific, creative) activities, used research methods and sources of information.

3.2 The term of laboratory work depends on the number of hours allotted for this task in the work program of the discipline. At the beginning of the course, the teacher introduces students to the scope of tasks and deadlines. Control measures are individual defense of the performed laboratory work and writing of modular controls. To obtain the minimum number of points, it is mandatory to perform laboratory work on the appropriate version of the task and write modular tests.

3.3 During the assessment (at the discretion of the teacher) points can be deducted:

- - for late execution of laboratory works;
- - for execution of tasks not in full.

3.4 When plagiarism is detected, the work is canceled and the student receives a new task.

3.5 The issue of reassignment of certain types of work is considered due to the presence of sick leave, student mobility (student knowledge has improved significantly during the study period), unforeseen circumstances.

3.6. Assessment appeal is carried out based on the application of the dean of the faculty by creating a commission from among the teachers of the Department of Computer Science and Technologies, in the presence of the head of the department.