MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

Lviv State University of Physical Culture named after Ivan Boberskyj

Department of Computer Science and kinesiology



WORKING PROGRAM OF EDUCATIONAL DISCIPLINE

Computer and information technologies

field of knowledge 02 Culture and art specialty: 024 Choreography Faculty of Postgraduate and Distance Education

Second degree of higher education (master's)

Work program in the discipline "Computer and information technologies" for students of the specialty 024 Choreography ۰.

Developer: Ilkiv O., Ph.D., associate professor of the Department of Informatics and Kinesiology

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The program was approved at the meeting of the Department of Computer Science and Kinesiology

Protocol September 2022 No. 2

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Head of the department	(I. Zanevsky)
" 22 " september	(signature) (surname and initials) 2022_year

Approved by the Council of the Faculty of Postgraduate and Distance Education

·Minutes of "	22."	09	2022_ ye	ar No. de
" 22."	20	2022_	year Dean	(Sydorko O.)
1. 2. 8		1.1	(signature)	(surname and initials)
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Name of indicators	Field of knowledge, direction of training, educational and	Characteristics disc	of the academic ipline		
	qualification level	full-time studding	part-time studding		
Number of credits – 3	Branch of knowledge 02 Culture and art Specialty 024 Choreography	Norr	native		
Modules - 1		Y	ear		
Content modules – 2		1	1		
Course work - none	Specialty (professional	Semester			
The total number full-time studding of hours is 90 hours.	direction): choreography	1	1		
The total number part-time studding of hours is 60 hours.		Lectures			
Weekly hours for full-time		10 hours	6 hour		
studding:		Laboratory			
classrooms - 4		20 hours	10 hour		
student's independent work	Level of higher education	Individ	ual tasks:		
Weekly hours for part-time	Second (master's)	15 hour	15 hour		
studding: classrooms - 1		Indepen	dent work		
student's independent work – 3		45 hours	59 hour		
		Type of control: credit			

1. Description of the academic discipline

Note.

The ratio of the number of classroom hours to independent and individual work is: for full-time studding -30/60 (0.5); for part-time studding -16/74 (0.2)

2. The purpose and tasks of the educational discipline

The purpose of teaching the discipline: acquisition of professional knowledge, skills, skills in working with computer and information technologies, which will provide theoretical and practical training of highly qualified specialists capable of constant updating of knowledge, professional skills, mobile and rapid adaptation to changes in the system of physical culture and sports (FC and S), in particular in the field of culture and art (CA).

The task of teaching the discipline:

• to form an understanding of the role of computer and information technologies in FC and S, in particular in the sphere of culture and art and personal training for professional activity, motivational and value attitude to the study of the information sphere;

• familiarize students with the most common types of information technologies used in physical culture and sports, the basics of using specialized computer programs, as well as the specifics of using information technologies in choreography;

• to form professional skills and abilities to solve the tasks of applying information technology in CA;

• positively influence the development of students' creative abilities and their further professional orientation.

According to the requirements of the educational and professional program, students must:

• know the place of computer and information technologies in the system of FC and S; the current state and development trends of the informatization of the CA sphere; basics of applications of various information technologies in choreography; features of CA software; basic rules for using the Internet;

• be able to apply Internet technologies in FC and C, CA; use Internet search engines; use office technologies for information processing;

• have competence in information processing skills by means of information and communication technologies sufficient for a PC user.

3. Program of academic discipline

Content module 1: Internet technologies in the field of FC and S, CA.

Topic 1. Computer and information technologies in the educational process. Modern means of information protection. Solutions to system and network security problems. Trends in the development of hardware and software. Convergence of information and telecommunication technologies. Cloud technologies. Artificial intelligence systems. Neural networks. Types of information security threats in computer systems. Modern software means of information protection, cryptography algorithms, means of identification and authentication of users. Legislative support for information protection issues.

Topic 2. Use of the Internet and automated information and search systems to ensure the activity of a choreography specialist.

Information resources of the Internet: modern network services, navigation on the Internet, information search system. Types of search engines: thematic and index. Rating of the main world search engines. Software components of index search systems. Information resources of electronic databases of scientific periodicals.

Content module II: Application software application

in the activities of FC and S specialists, in particular culture and art.

Topic 3. Applied software for processing materials of master's theses. Use of MS Word word processor. Peculiarities of using information office technologies in choreography. Word word processor technologies. Technologies: creation and formatting of documents; creation of graphic special

effects; use of the collection of drawings; using the "Drawing" toolbar; using the formula editor; construction of organizational charts; inserting objects from the PC screen; construction of diagrams and graphs; performing data calculations in the table; creation of electronic forms of documents; automation of construction of a standard document form; import from Excel, Access, Internet; export to Excel, Access, Powerpoint. Creating a table of contents and a bibliography of scientific research using word processors.

Topic. 4. Application of Excel table processor, Access DBMS technologies, PowerPoint presentation technologies. Mathematical and statistical processing of the results of scientific research using electronic spreadsheet processors. Use of Excel technologies in physical education. Technologies: construction and formatting of tables; import into Access; data sorting; creation of graphic effects; inserting pictures; using the "Drawing" panel; paste from the PC screen; construction of organizational charts; construction of calculation formulas; using the formula editor; construction of diagrams; use of functions; creation of informational and formulaic connections; use of control elements; creation of electronic forms. Application of technology: creation of a presentation using design templates; creating a presentation using blank slides; adjusting the presentation time. Techniques of computer modeling.

Topic 5. Application of Web-technologies in the practical activity of a FC and S, CA specialist. Technologies for creating hypertext pages of information: hypertext document markup language HTML, editors for creating hypertexts, filling Web pages with informational material in culture and art. Development of a personal website. Placement of information on the subject of FC and S, CA.

Course Title	Total Curriculum Hours											
	Full-time studding					Part-time studding						
	total	lec	practice	sem	indv	indp	total	lec	practice	sem	indv	indp
1	2	3	4	5	6	7	8	9	10	11	12	13
				Ν	lodule	1						
Conte	ent m	odul	e 1. Inter	net to	echnol	ogies	in the	field	of FCiS	, CA		
Topic 1. CIT in												
the educational												
process.												
Modern means												
of information												
protection.	16	2		2	4	8	10	1		1	4	10
Solutions to												
system and												
network												
security												
problems.												
Topic 2. Use of												
the Internet and												
automated												
information and												
search systems	14	2		2	4	6	10	1		1	4	10
to support the												
activities of a												
choreography												
specialist.												
												7
	1				1			1			1	'

4. CONTENT OF EDUCATIONAL DISCIPLINE

Total with	30	4		4	8	14	32	2		2	8	20
module 1				M	adula	2						
Iviouule 2 Contant module 2. The use of application software in the activities of EC and												
S specialists, in particular culture and art.												
Topic 3. Software for processing materials of master's theses. Application of t. r., MS Word.	18	2		6	2	8	12	2		2	2	15
Topic. 4. Application of the table. Excel processor, DBMS Access technologies, PowerPoint technologies.	26	2		6	3	15	21	1		5	3	15
Topic 5. Application of Web- technologies in the practical activity specialist.	16	2		4	2	8	9	1		1	2	9
Total with module 2	60	6		16	7	31	58	4		8	7	39
Total	90	10		20	15	45	90	6		10	15	59

6. Topics of laboratory classes

№	Topic	hc	our
		Full-	Part-
		time	time
1	Information resources of scientific periodicals. Internet search		
	engines. Sports-related sites. Information resources in the field of	2	1
	FC and S, CA.		
2	Web page creation technologies. Email technologies.	2	1
3	Formatting and design of master's theses using Word. Work on	4	2
	creating the content of the document and the list of references.	4	2
4	Application of word processor Word. Creation of tables, formulas,	2	2
	diagrams, graphs.	2	2
5	Use of Excel spreadsheet.	2	
6	Mathematical and statistical processing of the results of scientific	2	1
	research using electronic spreadsheet processors.	Z	1
7	Application of DBMS Access technologies.	2	
8	Application of technologies for building PowerPoint presentations	2	2

	by specialty.		
9	Technologies for creating hypertext pages of information: hypertext		1
	document markup language HTML. Development of a personal	2	
	website.		
	Total:	20	10

7. Independent work

№	Торіс	hour	
		Full-	Part-
		time	time
1	Internet search engines.	8	7
2	Sports-related sites.	6	7
3	Web page creation technologies. Email technologies.	6	7
4	Sports information resources by types	6	7
5	Application of word processor Word.	4	6
6	Use of Excel spreadsheet.	7	9
7	Application of DBMS Access technologies.	4	9
8	Application of technologies for building PowerPoint presentations.	4	7
	total:	45	59

8. Individual tasks

Elaboration of educational literature; completion of individual homework, writing an essay - 15 hours. Subject of essays "Information resources in the field of culture and art (by types)".

9. Studding methods:

• according to the source of transmission and perception of educational information - verbal, visual, practical;

• according to the nature of the students' cognitive activity - explanatory and illustrative, reproductive, partially searching, research;

• depending on the main didactic goal and tasks - methods of mastering new knowledge, formation of abilities and skills, testing and evaluation of knowledge, abilities and skills;

• methods of oral presentation of knowledge, consolidation of educational material, independent work of students on understanding and assimilation of new work material on application of knowledge in practice and development of skills and knowledge, testing and evaluation of knowledge, skills and abilities.

10. Control methods

1. Oral survey.

2. Checking independent homework.

- 3. Verification of reports on the performance of laboratory work.
- 4. Test control.
- 5. Modular control.
- 6. Semester control.
- 7. Credit.

11. Distribution of points received by students

An example for credit

Current testing and independent work									
	Module №1 Module № 2								
T1	T2	abstract	sum		Т3	T4	T5	sum	100

15	15	15	45		20	20	15	55	
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T1, T2 ... – topics.

Conformity of the final semester rating in points National Scale and ECTS Scale

		Score on a national scale						
Score in points	Rating	for an exam, course project (work), practice	for credit					
90 - 100	Α	Perfectly						
82-89	В	Okay						
74-81	С		Satisfactorily					
64-73	D	Satisfactorily						
60-63	E							
35-59	FX	Unsatisfactory (with the possibility of re-assembly)	Unsatisfactory (with the possibility of re- assembly)					
0-34 F		Unsatisfactory (with obligatory repeated course)	Unsatisfactory (with obligatory repeated course)					

13. Methodological support

Test tasks, methodical recommendations for essay writing, study guides.

14. Recommended literature

Main:

1. Ilkiv O.S. Matviev V.I. Informatics and computer technology (with elements of mathematical statistics): teaching. manual – Lviv: LDUFK. 2010.

2. U.B. Yarka, T.M. Biluschak Informatics and computer technology. Education manual – Lviv: Lviv Polytechnic, 2015.

3. E.M. Nuzhnyi, I.V. Klymenko, O.O. Akimov Electronic office tools. -K: center of education li-ry, 2017.

4. Zanevskyi I.P., Zanevska L.G. Computer and information technologies in active recreation and sports and health tourism: training. manual for masters of physics education. - L.: LDUFK, 2010. - 167 p.

5. Buynytska O.P. Information technologies and technical means of education: teaching. manual for students higher education institutions/ MONU; Kyiv University named after Boris Grinchenko. - K.: Center for Educational Literature, 2012 - 240 p.

6. Skopenia M.M. Workshop on the discipline "Informatics and computer technology" / M.M. Skopje; Answer for the release of L.F. Marakhovsky - K.: KITEP, 2000. - 172 p.

7. Zaitseva T.Y., Smirnova O.Yu. In coll.: Information technologies in education. - M., 2000. -342 p.

Additional literature:

1. 1. Glushakov S.V., Lomotko D.V., Suryadny A.S. Work on the Internet/ 2nd ed., add. and reworked/ Artist-designer A.S. Yuchtman. - Kharkiv: Folio, 2003. - (Training course)

- 2. 2. Computer networks. Principles, technologies, protocols: Textbook for universities. 2nd ed. / V.G. Olifer, N.A. Olifer St. Petersburg. Peter, 2004. 864 p.
- 3. 3. Lytvyn I. I., Kononchuk O. M., Deshchynskyi Yu. L. Informatics: theoretical foundations and practicum: a textbook for students of higher education. institutions Lviv: Novy svit, 2010. -304 p.
- 4. 4. Maihrych Ya. I. Your computer teacher. 4th edition, revised and supplemented Lviv: SPD Maihrych Y.I., 2011. 446 p., illustrations.
- 5. 5. Rubin A.A., Kleandrova I.A., Prokdy R.G. etc. Self-tutor Access 2007. 100% result of confident work St. Petersburg: Nauka i Tehnika, 2008. 400 p.: ill.

6. Simonovych S.V. Effective work: MS Word 2007. - St. Petersburg: Peter, 2008. - 640 p.: illustrations.

7. Chapovska R., Waldrat O. Working with Microsoft Excel: training. manual – Chernivtsi: Books - XXI, 2006. – 253 p.

15. Information resources:

1. http://ebooktime.net/book_82.html

2. http://technologies.su/

15. Information resources

Presentations of educational material by means of multimedia, electronic manuals.

Means of diagnostics of learning success. The modular rating system of knowledge assessment provides for a 100-point scale, i.e. 100 points is the maximum number of points that a student can receive for academic success in the process of studying the subject for the above credit amount.