The syllabus of the discipline

Corporate information systems

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Field name	**Detailed content, comments**
Name of the faculty	Faculty of Infocommunications
Level of higher education	Second (master's)
Code and name of the specialty	172 Telecommunications and radio engineering
Type and name of educational program	ESP, EPP "Information and Network Engineering"
Name of the discipline	Corporate information systems
Number of ECTS credits	3
Discipline structure (distribution by types and hours of study)	24 hours - 12 lectures, 16 hours - 4 laboratory classes, 8 hours - 4 consultations, 72 hours - homework, **type of control:** credit
Schedule (terms) of studying the discipline	1-st year, I semester
Prerequisites for studying the discipline	Basic concepts of disciplines: enterprise economics, marketing, management, technologies for designing and administering databases and data warehouses, economic cybernetics, decision-making systems, information systems and management technologies, project management.
Competences, knowledge, skills, understanding, which is acquired by the applicant in higher education in the learning process	Acquired competencies and skills are used by future specialists when working with corporate information systems: setting up and building such systems in new and operating enterprises, designing and automating any information system according to the terms of reference, developing software products for administration and operation of such systems.
The quality of the educational process	Educational-methodical and material-technical resource provision of the educational program, within the framework of which the discipline is studied, meets the licensing requirements and accreditation conditions of the educational activity of the university. Annual monitoring and revision of the curriculum of the discipline in accordance with the requirements and recommendations of the Ministry of Education and Science, state certification of acquired competencies of graduates, standards of cooperation with employers to ensure a competitive level of training. Adherence to the principles of academic integrity (https://lib.nure.ua/plagiat). Contains public information on the requirements, competencies, level of education within the current educational program.

Description and content of the discipline

The aim of the course is to acquaint students with the capabilities of modern hardware and software that supports the operation and use of corporate and global computer networks.

Content

Topic 1. Principles and technologies of designing corporate information systems.
Topic 2. Types of corporate information systems architecture.
Topic 3. Principles of construction and operation of corporate information systems.
Topic 4. Software and hardware of corporate information systems.
Topic 5. Modern corporate information systems to support the activities of enterprises, organizations, government agencies.

Learning outcomes of higher education

As a result of studying the discipline, students must:

KNOW:

- hardware and software used in the construction and operation of computer networks;
- hardware and software that support the operation and use of e-mail, World Wide Web, FTP data transmission systems;
- tools and methods of creating Web-pages and sites;
- hardware and software that allow you to build and use databases in corporate and global computer networks.

BE ABLE:

- develop the architecture of the corporate information system;
- design, implement and administer corporate databases and repositories;
- develop and implement software implementation of functional tasks of components of corporate information systems;
- create and maintain the infrastructure of the corporate information system;
- implement and administer corporate information systems in the industry;
- apply modern software packages of corporate information systems.

Assessment system according to each task for passing the test / exam.

To evaluate the student's work during the semester, the final rating score sem Q is calculated as the sum of grades for different types of classes and grades for control activities. The maximum rating during the semester is 100 points.

Type of lesson / control measure	Rating
Laboratory work № 1	0,25
Laboratory work № 2	0,25
Checkpoint 1	**0,5**
Laboratory work № 3	0,25
Laboratory work № 4	0,25
Checkpoint 2	**0,5**
Total for the semester	**60…100**

To assess the student's work during the semester, the final rating is calculated as the sum of grades for different types of classes and control measures. The maximum rating during the semester is 100 points.

Qualitative evaluation criteria in the national scale and ECTS

Satisfactory, D, E (60-74). Show the required minimum of theoretical knowledge. Know the ways and methods of solving practical problems and be able to use them in practice.

Good, C (75-89). Firmly know a minimum of theoretical knowledge. Demonstrate the ability to solve a practical problem and justify all stages of the proposed solution.

Excellent, A, B (90-100). Show complete knowledge of basic and additional theoretical material. Unmistakably solve a practical problem, explain and justify the chosen method of solution.

Assessment scale: national and ECTS

The sum of points for all types of educational activities	ECTS assessment	Score on a national scale	
		for exam, course project (work), practice	for offset
90 – 100	**A**	perfectly	credited
82-89	**B**	fine	
74-81	**C**		
64-73	**D**	satisfactorily	
60-63	**E**		
35-59	**FX**	unsatisfactory with the possibility of reassembly	not credited with the possibility of re-assembly
0-34	**F**	unsatisfactory with mandatory re-examination	not credited with compulsory re-study of the discipline

Methodical support

Basic literature

1. Burov Ye. Kompiuterni merezhi. – Lviv: Bak, 1999.
2. Norenkov Y.P., Trudonoshyn V.A. Telekommunykatsyonnыe tekhnolohyy y sety. – M.: MHTU, 2000.
3. Nyderst Dzh. Web-masterynh dlia professyonalov. – SPb.: Pyter, 2001.
4. Kulakov Yu.O. ta in. Kompiuterni merezhi. - K.: Yunior, 2003.
5. Karpukhyn A.V. y dr. Internet-tekhnolohyy. - Kh.: Smyt, 2003.

Supporting literature

1. Nauman Sh., Ver Kh. Kompiuternaia set: Proektyrovanye, sozdanye, obsluzhyvanye. – M.: DMK, 2000.
2. Ianh M.L. Internet: Polnoe rukovodstvo. – K.: BHV, 2001.