

Computer Engineering bachelor program, Department of "Information Technologies"

Course Unit Title	Information Management	
Course Unit Code	UFS-B05	
Type of Course Unit	Elective	
Level of Course Unit	4 th year	
National Credits		
Number of ECTS Credits Allocated	3	
Theoretical (hours/week)	1	
Practice (hours/week)	1	
Laboratory (hours/week)		
Year of Study		
Semester when the course unit is delivered	7	
Course Coordinator	Mustafayeva Sabina Fazil gizi	
Name of Lecturer(s)	Mustafayeva Sabina Fazil gizi	
Name of Assistant(s)	-	
Delivery Method	Face to Face	
Language of Instruction	Azerbaijani, English	
Prerequisites	-	
Recommended Optional Program Components	-	
Course description: The subject "Information Management" covers the topics of ICT, its application areas, database organization, and information management. Among these topics, "Database Management System", "Database Organization in MS Access Environment", etc. can be mentioned.		
Course Objectives: The purpose of the subject "Information Management" is to form a worldview, relevant knowledge and skills about information processes, ICT, its characteristics, application, information management, and database creation.		
Learning Outcomes		
At the end of the course the student will be able to		Assessment
1	Formation of ideas about information processes	1, 2
2	Formation of ideas about information technologies and their application areas	1, 2
3	Formation of perceptions about information management	1, 2
4	Formation of ideas about database management system and database creation	1, 2

5	Formation of ideas about spreadsheet organization technologies	1, 2	
6	Formation of ideas about computer networks and the ability to use them	1, 2	
7	Formation of the ability to use information technologies that are most commonly used in education and specialization	1, 2	
Assessment Methods: 1. Final Exam, 2. Presentation			
Course's Contribution to the Program			
		CL	
1	ability to work with automated and integrated computer technologies, which allows you to effectively solve problems in various fields	5	
2	ability to apply ICT (Information and Communication Technology) capabilities in various fields of activity, using knowledge in related sciences, language skills and information technology	5	
3	ability to function effectively in a team, the members of which together provide leadership, create a collaborative and inclusive environment, set goals, plan tasks and achieve goals	4	
4	ability to use applications and special software packages to manage various technological processes that help increase productivity, improve the quality and safety of technological operations in various industries	5	
5	ability to apply computer engineering component design methods in the field of computer engineering and develop new solutions, improving the overall performance and reliability of systems	4	
6	ability to use programming languages and software development systems and solve computer engineering problems, create innovative solutions for various applications and devices	4	
7	ability to develop tools based on computer graphics, multimedia and virtual reality technologies to create interactive systems and applications in various fields	3	
8	ability to develop, test and manage databases, user interfaces and information system modules that help ensure efficient data storage and processing, as well as the integration of various technological solutions to solve practical problems	5	
9	ability to recognize ethical and professional responsibilities in engineering situations and to make informed judgments that must take into account the impact of engineering decisions in various fields	4	
10	ability to use foreign language skills to obtain the necessary information of a scientific and technical nature. Ability to use a foreign language to prepare presentations and in oral speech	3	
CL: Contribution Level (1: Very Low, 2: Low, 3: Moderate, 4: High, 5: Very High)			
Course Contents			
Week	Chapter	Topics	Exam
1		Information theory (encoding)	
2		Seminar 1. Information theory (coding)	
3		Biometrics	

4		Seminar 2. Biometrics	
5		Database	
6		Seminar 3. Database	
7		Internet Search Engines	
8		Seminar 4. Internet Search Engines	
9		E-Commerce Management	
10		Seminar 5. E-Commerce Management	
11		Artificial intelligence. Expert systems	
12		Seminar 6. Artificial intelligence. Expert systems	
13		Big data	
14		Seminar 7. Big data	
15		Seminar 8. Multimodal and natural human-computer interaction	

Recommended Sources

TEXTBOOK(S)

1. Published on Horizon 2020 (<https://ec.europa.eu/programmes/horizon2020>)
2. Work Program 2018-2020 Information and Communication Technologies-Horizon
3. https://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-leitict_en.pdf - page=3
4. https://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-leitict_en.pdf - page=3
5. <http://www.researchgate.net/publication/317012641>

Assessment

Attendance	10%	At least 75% class attendance is compulsory
Presentation	10%	
Quiz	0%	
Seminars	30%	
Midterm Exam	0%	
Final Exam	50%	
Total	100%	

Assessment Criteria

Final grades are determined according to the Academic Regulations of WCU

Course Policies

- Attendance of the course is mandatory.
- Late assignments will not be accepted unless an agreement is reached with the lecturer.
- Students cannot use calculators during the exam.
- Cheating and plagiarism will not be tolerated. Cheating will be penalized according to the Western Caspian University General Student Discipline Regulations

ECTS allocated based on Student Workload	
Total Workload	90
Total Workload/30(h)	90/30
ECTS Credits of the Course	3