

**Final control program for the course "Information Systems"
for the 2020-2021 academic year**

Faculty of Information Technology
Department of Information Systems
Discipline name: Basics of Information Systems
Course 2
Lecturer: Bakibayev Adil Valikhanovich

The form of the final control of the academic discipline – testing
Platform: *DES Moodle*.

Testing control - online proctoring.

Proctoring technology (English "proctor" - to control the course of the exam). The proctors, as in the usual exam in the classroom, make sure that the examinees pass the test honestly: they complete the assignments on their own and do not use additional materials. Both a specialist (full-time proctoring) and a program that controls the test subject's desktop, the number of faces in the frame, extraneous sounds or voices, and even gaze movements (cyber proctoring) can follow the online exam in real time via a webcam. A type of mixed proctoring is often used: a video recording of an exam with program comments is additionally viewed by a person and decides whether violations have actually taken place.

Each student must be sure to familiarize himself with and confirm in the chat that he is familiar with the schedule, rules, requirements of the proctoring instruction

Test duration - 60 minutes for 25 questions, 1 attempt.

Number of test questions: 25

EXAM REGULATIONS

IMPORTANT - the exam is held on schedule

30 minutes before the start, students must prepare for the exam in accordance with the requirements of the proctoring instruction.

Test results can be revised based on proctoring results. If a student violated the rules for passing the test, his result will be canceled.

Topics for the exam questions

№	Task topic	The content of the work
1	Methodology and technology for the development of information systems.	Development of IS.
2	Basic concepts related to information. Entropy. Redundancy of information.	Calculation of entropy, redundancy information.
3	Information technology.	information compression methods.
4	Information processes are the basis of IS.	anti-jamming coding.

5	Control of information transfer.	Information transfer rate, communication channel bandwidth.
6	Modern trends in the development of IS.	Description of the system using various approaches.

LIST OF RECOMMENDED LITERATURE

Primary:

Information Theory: A Tutorial Introduction

James V Stone, Psychology Department, University of Shefeld, England.

Additional:

1. Sambetbaeva A.K., Zhumanbaeva A.M., Fundamentals of information systems. Association of higher educational institutions of Kazakhstan, 2016
2. Arthur M. Langer, Analysis and Design of Information Systems. Third Edition. Springer-Verlag London Limited 2008

Assessment criteria (Assessment scale):

«Excellent» -	A	4,0	95-100
	A-	3,67	90-94
«Good» -	B+	3,33	85-89
	B	3,0	80-84
	B-	2,67	75-79
	C+	2,33	70-74
«Satisfactory» -	C	2,0	65-69
	C-	1,67	60-64
	D+	1,33	55-59
	D-	1,0	50-54
«Unsatisfactory» -	FX	0,5	25-49
	F	0	0-24