**Faculty of Mechanics and Mathematics**

**Mechanics Department**

**The PROGRAM**

**of an "Academic writing" discipline final exam for the speciality**

**"**8D05403– Mechanics**"**

russian and kazakh branches

**(fall semester, 2021/2022)**

**Almaty 2021 y.**

**DEVELOPED:**

Nuzhnov Yuryy Vasilevitch, – professor, d.f-m.s., Mechanics department.

**CONSIDERED and APPROVED** at the meeting of the department from "16" of november 2021, protocol №11.

INTRODUCTION

**Combined №1:**

**A standard written project with followed oral defense.**

**Exam format- asynchronous.**

A standard Project Exam – students take an exam by exam’s shedule by offline regime, exam passes in a writing form in a classroom. The exam is supervised by a teacher, video surveillance is also conducted.

Project is an independent educational work carried out for a long time. The exam format is suitable for almost all specializations. The project allows you to assess the ability of students to independently apply their knowledge in the process of solving practical problems and problems, to navigate in information space and the level of formed analytical, research skills, practical and creative thinking.

**EXAM REGULATIONS**

**The exam consists of two parts:** written (project implementation, report on implementation) and oral (project defense).

- **The written part** of the project is carried out within the time frame assigned by the teacher in LMS Moodle. The deadline is 24 hours before the start of the oral part of the exam.

- **The oral part** of the exam will be held at the time indicated in the exam’s schedule.

I Part. Written.

Students

1. At the time set by the teacher, log in to the Moodle LMS and receive access to the document "Final control by discipline".

2. Learn the instructor's assignment.

3. Carry out the teacher's assignment.

4. Draw up a final report on the work done based on the results achieved.

5. According to the exam’s schedule, upload the result of the assignment to the LMS Moodle.

For this:

5.1 logs into LMS Moodle (account),

5.2 opens the element "Final control by discipline",

5.3 selects the item "Add an answer to the task",

5.4 uploads his works in the file upload field,

5.5 clicks "Save", ("Submit for verification"),

5.6 if it is necessary, checks the work for borrowings using the system Anti-plagiarism. It will be given for student 1 attempt to check the written report for originality.

ATTENTION. It is allowed to download summary REPORTS only in \*.docx format. Images, charts, listings, etc. additional files can be downloaded by corresponding formats (for this watch the ability to load data files in formats other than docx when creating the item "Task").

The size of uploaded files should not exceed 30 MB. If it is necessary large file uploads - learners upload files to the cloud repositories and publish links to them in the text of the report.

IMPORTANT. It is not allowed to reschedule the loading of finished works in Moodle LMS!

**An example of the content of the student's report:**

1. Introductory part

- a list of the group, with the highlighting of the full name of the author of a specific uploaded document;

- a short description of the task;

- exactly the task at hand, you do not need to copy the entire teacher's document.

2. Main part:

- the description of achieved results (directly solving the task in the form of a report, images, links to videos, diagrams, graphs, etc., in depending on the task);

- the description of the progress of the case - tasks;

- the description of deviations and difficulties encountered in the course of the assignment, and used ways to overcome them.

3. Conclusion.

4. Literature.

- list of used literature;

- the description of the methods and technologies which were used in the project for solving the tasks (programs, tools, links to key regulatory documents, techniques).

ATTENTION. EACH student in his report should write an introductory and main parts, conclusion, literature.

**2 Part. Oral defense.**

The oral part of the exam will be held at the time specified in to the exam’s schedule.

The oral part is going in standard form, a student explaining the teacher done work.

**Control of the oral part of the exam:**

Examination committee:

1. **Choice the exam’s classrom;**
2. Carries out a video recording of the exam;
3. Teacher taking the exam;

Duration of the exam

The time for preparation and defense is decided by the examiner or the examination committee.

4. When the time is coming to start the exam a teacher:

a. greets the participants of the exam;

b. warns that video is being recorded;

c. announces the rules of the exam:

- the order of the examinees,

- response time;

d. announces the surname, name and patronymic of the examinee;

e. asks to show original identity document (identity card or passport). It is FORBIDDEN to take an exam with an ID card and photocopy of documents.

5. The teacher asks additional questions to the student about the essence of his work.

6. After completing the student's answer, the teacher allows him to leave the classroom.

7. Based on the checks of students' written works and their oral defense, the teacher makes a decision on the assignment of appropriate points to students.

8. The final assessment of the student by the teacher:

- sets points in the LMS Moodle system (in students' responses to the created element "Exercise");

- transfers the scores in the system to the IS Univer attestation sheet.

9. Time to assign points to the assessment sheet for the exam held in format of a project or creative assignment - up to 72 hours. Duration revision possible by decision of the DAI.

Exam starts at: date and time by shedule.

Exam ends after 3 hours from starting time (the exact time will be shown).

The topics of the exam questions are announced in advance in order to prepare for the delivery of the research work in the form of a project.

How works will be checking

1. The teacher of the discipline gets the completed examination papers on hands.

2. Evaluates the work by writing.

3. Transfer points to the Univer system statement.

Maximal score—100 scores.

**Course main themes**

1. Submit a complete doctoral dissertation on the topic «Tornado initiation as a result of a vertical lightning strike»

1. The main literature: Nicole Kufa and Richard Snow, scientific article, Embry-Riddle Aeronautical University, Daytona Beach, Florida.