**FEDERAL STATE BUDGET**

**EDUCATIONAL INSTITUTION OF HIGHER EDUCATION**

**"KUBAN STATE MEDICAL UNIVERSITY»**

**MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION**

**DEPARTMENT OF PHILOSOPHY, PSYCHOLOGY AND PEDAGOGY**

**TOPICS FOR CREATIVE TASKS**

**IN THE DISCIPLINES**

**«THE PHILOSOPHY, PRINCIPLES AND TOOLS OF LEAN MANUFACTURING»**

**(PROJECT ACTIVITY)**

**for specialists with a higher education**

**on speciality**

**31.05.01-Medical care**

**Krasnodar**

**1. Topic: "Optimizing the workspace using Lean manufacturing technologies".**

**Goal:** to be able to organize the work space in accordance with the principles of Lean production.

**Task.**

Analyze the workplace or space (in the classroom, at home, in a business unit, and so on.).

Take photos and / or videos before optimization. Identify bottlenecks that cause losses (apply lean production tools to analyze problems).

Propose a project to optimize the workplace using the "5S" system.

**2. Topic: "application of lean production tools by students in preparation for classes".**

**Goal:** to develop students ' analytical abilities and skills to make a reasonable choice of lean production tools from a number of possible ones. Introduce the rules for applying them in practice

**Task.**

Identify problems (at least 3) that students encounter during their studies and analyze them using the methods listed below (select the 3 most appropriate methods):

- Paretto Chart

- The method of «5 why?»

- 5W-1H

- The Ishikawa Diagram

- Spaghetti Diagram

- Yamazumi Diagram

Develop a project to fix the problems identified in the previous task.

**3. Topic: "Development of a standard of rules for student behavior in the classroom as part of the educational process".**

**Goal:** to train students in the development, implementation and implementation of standards.

**Task.**

Prepare (to remove yourself) video of the process of choosing from a list) and to develop the regulations thereunder (text+visualisation):

- folding origami figures;

- folding an item of clothing;

- puzzle Assembly (bring);

- create a simple graphic drawing (for example, a cat, dog, flower, bird, car, etc.)

Demonstrate the video to the audience and give them a task to draw up a clear instruction for this process. Check the effectiveness of the instructions developed by the group in practice (2-3 people do not participate in viewing the video and developing instructions, but follow the developed instructions and reproduce the process. Analysis. The authors of the video demonstrate their own version of the developed instructions).

**4. Topic: A value stream map**

(Value stream map as a lean production tool)

**Goal:** to teach students the rules for building a value stream map and calculating the efficiency coefficient

**Task.**

Select a process:

- patient reception by a doctor (any specialty)

- a procedure of drawing blood

- the procedure for measuring pressure

- maintenance process in the library

- the process of serving in the dining room.

Prepare a video (use a ready-made one or shoot video yourself).

Define the boundaries of the process.

Time the process (make 5-7 measurements), fill out the timekeeping form.

Build a map of the value stream of this process,

Build an efficiency curve for this process.

Calculate the efficiency coefficient.

Develop proposals for optimizing this process, using methods for analyzing problems and searching for losses