**Topics of practical projects for classes 14-15**

**Faculty:** Chemistry and Chemistry technologies of KazNU

**Course:** Project Management for Engineering Chemists and Process Chemists

**Dates:** 01 - 19.12.2021

**Deadline**: 18:00 pm, 19.12.2021

**Goal:** Use on real chemical production projects some of methods and tools of "BASIC COURSE in project management based on the NATIONAL standard ST RK ISO 21500-2014" course.

**Topics of projects**:

1. Sulfuric acid production project (Проект по производству серной кислоты)

2. Synthesized gas production project (Проект по получению синтезированного газа)

**What to do in the project management course on practical projects:**

1. Develop a project charter (by template)
   1. Choose which region of Kazakhstan is the best place to implement the project
   2. Choose what the project will be produced for (who will be the customer)
2. Develop a project product description (by template) based on the project charter
3. Draw a flowchart of the production of the project product
4. Develop the WBS of the project
5. Develop an hierarchical structure of the project resources
6. Identify project risks using one of the risk identification methods
7. Identify a possible defect in the project and list all possible causes of this defect

**Acceptance criteria for the results of practical work**:

\* all tasks must be completed on separate files (7 files in total)

\* all tasks must be completed no later than 18:00 pm, 12/19/21

\* all tasks must be completed clearly, visually, with high quality and in detail

\* all information used must be accompanied by links

\* grade will be given for each task and the overall grade as the average for all 7 tasks