



**LABORATORY WASTE MANAGEMENT IN UNIVERSITIES,
 A TYPICAL RESEARCH ON LABORATORIES IN FACULTY OF ENVIRONMENT -
 VNU UNIVERSITY OF SCIENCE, VIETNAM NATIONAL UNIVERSITY**

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OBJECTIVES

- Estimating the state of hazardous wastes in laboratory
- Developing smart and sustainable solutions for laboratory waste management

SUBJECTS OF THE PROJECT

- Laboratories of Faculty of Environment - VNU University of Science, Vietnam National University (FES)
- Students and laboratory officers of Faculty of Environment

METHODS

- Literature review: documents, published magazine, online paper, documents on laboratories in VNU-HUS
- Surveying and collecting practical states in laboratories in VNU-HUS
- Surveying opinions of management officers in labs
- Defining the final product of project through survey results

STAKEHOLDERS

- Laboratory staffs and managers
- Laboratory students
- Waste – collecting and waste treatment company (URENCO)

ACTIVITIES & OUTCOMES

Content 1: Assessment of waste management in laboratories of Faculty of Environment - VNU University of Science

- Activity 1:** Overview of current state of laboratory waste
- Activity 2:** Summarize the methods of laboratory waste classification & treatment
- Activity 3:** Survey on laboratory waste in FES
- Activity 4:** Summarize current state of laboratory waste in FES



- 01 report on the current state of waste in laboratory and method for classifying and treating with lab waste
- 01 report on surveying lab waste in FES
- 01 report on current state of lab waste in FES

Content 2: Propose solutions for waste management in laboratories in FES

- Activity 1:** Training about hazardous waste and hazardous waste in labs
- Activity 2:** Propose solution for solid waste in labs
- Activity 3:** Propose solution for liquid waste in labs
- Activity 4:** Propose solution for gas waste in labs
- Activity 5:** Implement 1 potential solution in 1 lab of FES
- Activity 6:** Design the application for waste management in labs

- 1 training day for students
- 01 solution report
- 01 solution report
- 01 solution report
- Implementation activities at the labs
- Application for wastes management



Figure 1. Implementation of lab waste classification for solid and liquid waste



Figure 2. Training session for students

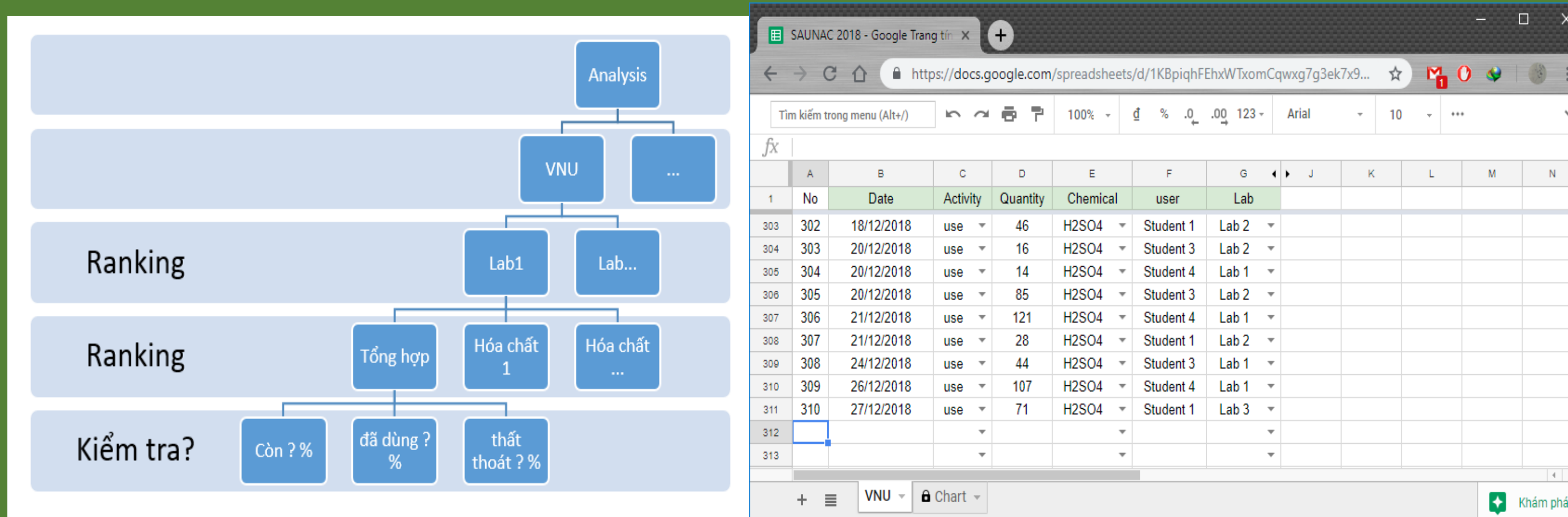


Figure 2. Lab waste management

Content 3: Writing report → **Writing the summarized report**

OTHER FINDING

Current status of waste discharge and management from interview URENCO staff

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CONTENT 3

01/12 - 10/12

TIMELINE

CONTENT 2

01/09 - 30/11

CONTENT 1

24/08 - 31/08