

Laboratory Technology Program Outcomes

- 1.** Students will acquire advanced theoretical and applied knowledge supported by up-to-date textbooks, practical tools, and other scientific resources in their field.
- 2.** They will acquire theoretical and applied knowledge in the fundamental fields of chemistry, including Organic Chemistry, General Chemistry, Analytical Chemistry, Agriculture, Food, and Plant Science.
- 3.** They will learn to identify, select, and use modern techniques.
- 4.** They will gain the skills to apply the basic theoretical and applied knowledge acquired in their field to a further level of education in the same field or in a field at the same level.
- 5.** They will gain awareness of the correct and effective use of laboratory materials and materials, as well as laboratory safety.
- 6.** They will gain awareness of the necessity of lifelong learning.
- 7.** They will learn to perform synthesis and analysis using various methods.
- 8.** They will gain the competence to use computer software and information and communication technologies at the required level in their relevant fields, thereby accessing accurate scientific resources.
- 9.** They will gain the ability to apply their knowledge in their field of study and assume professional and ethical responsibility. **10.** To ensure that the technician acquires an understanding of how to practice their profession in accordance with ethical, social, and legal values.
- 11.** To be able to work in laboratories and businesses in the food, plant, and chemical industries, and to conduct innovation, research, and development.
- 12.** To be able to conduct resource research and access databases and other information sources to access information.
- 13.** To gain the competence to follow global innovations and developments in their areas of expertise.
- 14.** To gain the competence to adopt social, scientific, and ethical values in the collection, interpretation, dissemination, and application of data related to their field.
- 15.** To gain the competence to plan and manage activities for professional development, to engage in individual and group work, and to develop a sense of responsibility.
- 16.** To have sufficient awareness of our country's historical and cultural values, the universality of social rights, the environment, quality, and social justice.

17. To develop international communication skills in a foreign language by communicating effectively with relevant individuals and institutions regarding laboratory work using Turkish, sharing ideas, problems, and proposing solutions.