

Learning Outcomes of the Medical Physics Department

Graduates of the Medical Physics Department are expected to achieve a set of scientific and professional competencies, including:

1. Understanding the fundamental principles of physics and their applications in medical and healthcare fields.
2. Acquiring knowledge of medical technologies used in diagnosis and treatment, such as Magnetic Resonance Imaging (MRI), X-rays, and radiation therapy.
3. Developing the ability to assess risks associated with the use of medical devices and technologies and to apply occupational safety standards.
4. Possessing skills in conducting scientific research and analyzing results using modern scientific methods.
5. Developing the ability to collaborate and work effectively with specialists in medicine, engineering, and technology fields.
6. Enhancing effective communication skills with patients and medical staff in ways that contribute to improving the quality of healthcare.

Detailed Learning Outcomes

Physics Knowledge

Students should understand the fundamental principles of physics and apply them in the medical field.

Medical Technologies

Students should be familiar with modern medical technologies such as Magnetic Resonance Imaging (MRI), X-rays, and radiation therapy.

Risk Assessment

Students should be able to assess risks associated with the use of medical technologies and apply safety standards.

Scientific Research

Students should be capable of conducting scientific research and critically analyzing results.

Interdisciplinary Collaboration

Students should possess collaboration skills that enable them to work effectively with professionals in medicine, engineering, and technology.

Patient Communication

Students should be able to communicate effectively with patients and understand their needs.