

Laser and Optoelectronics Engineering council

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The logo of the department consists of a green circular base representing the green laser, one of the types of lasers with a wavelength of 532 nm. The symbols inside the circle indicate the branches of the department.

The symbol represents the branch of laser engineering, which is a laser beam, while the symbol that represents the branch of optical electronics engineering is a diode and electronic.

This logo reflects the content and symbols of the scientific biography of this section and what we aspire to through this specialty, which entered the applications in all fields of medical, industrial and research life.

The word laser is abbreviated from:
(Light Amplification by Stimulated Emission of Radiation)

Ministry of Higher Education and Scientific
Research
University of Technology
Laser and Optoelectronics Engineering



Laser and Optoelectronics Engineering
Guide



Introduction:

As a result of the tremendous scientific and engineering developments in the last two decades in the various fields of science and the entry of laser and optoelectronics sciences and engineering as a vital element in many other disciplines and applications of the sciences, it is imperative that the development of advanced engineering personnel capable of designing and building laser and optical electronics To deal with these modern technologies so that the cadres graduating from this section cover large sectors of the engineering labor market in the country in both public and private sectors such as transport, telecommunications, industry, agriculture, health and Research centers (for the public sector), private clinics and private hospitals that use laser equipment for diagnosis and treatment.

The Department of Laser and Optoelectronics Engineering was established in the 2004-2005 school year to continue working for the scientific objectives envisaged. And the achievement of a scientific addition in engineering studies in universities approved this section as the thirteenth section on 5-5-2004 It is worth mentioning that the section includes a group of professors specializing in this science graduates of international universities and Iraqi and also includes modern scientific laboratories developed to serve students of primary and secondary studies Laser engineering and optical electronics engineering branch which constitute the scientific part of the department.

Graduates can work in:

- 1- The Ministry of Health and its departments.
- 2- Ministry of Communications.
- 3- Ministry of Electricity.
- 4- Ministry of Industry.
5. Ministry of Higher Education and Scientific Research.
6. Ministry of Transport.
7. Ministry of Science and Technology.
8. Ministry of Oil.
9. Ministry of Environment.

College of Laser and Optoelectronics Engineering Mission

The mission of the college is to provide a broad education for engineers, enhancement the research activity, create leaders, and serving our community.

The Vision

Be one of the leading engineering colleges in both the academic and research in the region to contribute to the development of local and regional community.

Department Objectives

- 1- Successfully practice the optoelectronics engineering disciplines
- 2- Graduates will make a meaningful contribution on society and profession,
- 3- Engage in life-long learning to advance professionally through continuing education and training
- 4- Prepare qualified graduates to pursue enhance learning in their areas of interest, through such endeavors as graduate studies.
- 5- Successfully practice the Laser engineering disciplines
- 6- Engage in life-long learning to advance professionally through continuing education and training
- 7- Carrying out research program for development of laser systems, subassemblies, and process design.
- 8- Building up rapid manpower in this technology through encouraging collaborative activities by offering courses of different durations to the engineers from the industries (PG), and UG students of the universities.

Department Branches:

- 1- Laser Engineering Branch
- 2- Optoelectronics Engineering Branch

Department Labs:

- 1- laser applications lab.
- 2- Electronic 1 lab.
- 3- Electronic 2 lab.
- 4- DC circuit lab.
- 5- AC circuit lab.
- 6- Optical communication systems lab.
- 7- Optical Detector lab.
- 8- Power electronics lab.
- 9- laser principles lab.
- 10- University physics lab.
- 11- laser systems lab.
- 12- Microprocessor lab.
- 13- Physical Optics Lab.
- 14- Geometrical optics lab.
- 15- Postgraduates lab.
- 16- Computer lab includes:
 - A. C ++
 - B. Engineering Drawing Auto cad
 - C. Visual basic
 - D. Matlab
 - E. Optical design