

Tuqa Sabah Hassan

Assistant Lecturer – College of Laser Engineering and Optoelectronics

University of Technology, Iraq

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Google Scholar: <https://scholar.google.com/citations?hl=en&user=PbQQDwkAAAAJ>

Professional Summary

An academic researcher specializing in laser engineering, with a focus on the synthesis and characterization of nanomaterials via laser-based techniques. Experienced in designing and conducting advanced experimental setups involving laser–material interactions, particularly for biomedical and dental applications. Research interests include laser-assisted nanofabrication, photothermal effects in biological tissues, and the integration of nanotechnology with medical laser systems for therapeutic purposes.

Education

B.SC in laser and optoelectronic engineering -2018

M.Sc. in Laser Engineering and medical application

University of Technology, Baghdad, Iraq – 2023

Thesis Title: [preparation and characterization of Aluminum oxide nanoparticles by laser ablation for medical application]

Academic Experience

Assistant Lecturer

College of Laser Engineering and Optoelectronics, University of Technology

- Teaching undergraduate courses in laser systems and applications.
- Supporting research in biomedical laser applications and nanomaterial fabrication.
- Supervising student projects and laboratory experiments.

Technical Skills

- Software & Analysis Tools: Origin, MATLAB, LabVIEW, Microsoft Office
- Research Techniques: Laser–material interaction, nanomaterial synthesis, experimental design
- Others: Scientific writing, laboratory safety, academic advising

Languages

- Arabic: Native
- English: Proficient (Reading, Writing, and Speaking)