

Curriculum Vitae

Name: Dhuha Shakir Abed

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Education

Master's Degree in Laser Engineering / University of Technology / Iraq, 2019

- Research Focus: **Optical properties of tissues and their interactions with laser in medical applications**

Bachelor's Degree in Laser and Optoelectronics Engineering/ University of Technology/ Iraq

- Research Focus: **Effects of laser on bacteria**
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Work Experience

Lecturer, University of Sumer / 2025- present

- Taught courses related to **laser physics, optics, electronics, and medical applications**
- Supervised student research projects in **laser technology**

Laser Engineer, Medical Sector, Ministry of Health/ 2022-2025

- Worked on the **maintenance, calibration, and application of medical laser systems**
- Assisted in the integration of **laser-based medical treatments**

Lecturer, University of Sumer / 2019- 2022

- Taught courses related to **laser physics, electronics and physics**
 - Supervised student research projects in **laser technology**
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Research Interests

- **Medical Applications of Laser**
- **Light-Tissue Interaction**
- **Optimization of Laser Parameters**

- **Industrial and Scientific Uses of Laser Technology**
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Technical Skills

- Laser and Medical equipments operation & maintenance
 - Microsoft office , MATLAB, Python
 - Research & technical writing
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Projects & Publications

- Investigation of biological tissue optical properties using laser effect with different methods, 2019
 - Detection of tissue optical properties; a comparison study, Iraqi Laser Scientists Journal, 2018
 - Inverse heat transfer analysis in detecting tissue optical properties using laser, Lasers in medical science,2019
 - Effect of CO2 laser parameters on redwood engraving process complemented by Taguchi method, Materials Today: Proceedings,2021
 - Preparation Methods and Classification Study of Nanomaterial: A Review, Journal of Physics: Conference Series,2021
 - Developed a prototype application for biomedical engineers to assist in medical device maintenance using AI ,2025
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Languages

- Arabic (Native)
 - English (Fluent)
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