

C.V :

Name: Sarah Jawad Shoja

Date of Birth: 27/11/1991

Religion: Muslim

Specialization: Laser physics

Scientific Degree: Ph.D. laser

Work Address: Alayen University – college of medical& health technologies

E-mail: sarah.shoja@alayen.edu.iq



Scientific Certification:

Degree science	University
B.Sc.	Babylon
M.Sc.	Baghdad
Ph.D.	Baghdad

Research Projects

N.	Research Title	Place of Publication
1	Study effect of different solvent polarity on the absorption and the fluorescence spectrum of phenolphthalein laser dye	Academic Research International (ARInt) Vol.07 , No.01

2	Study of Spectroscopic and optical properties for phenolphthalein dye as a laser active medium	Optics communication
3	Enhance photocatalytic activity of CuO nanocomposite for the degradation of methyl orange on laser light illumination	Journal of Optical Technology
4	Laser cutting efficiency of oral soft tissue	Iraqi J. of Laser
5	Study of spectroscopic for effective of excimer laser in photorefractive keratectomy	Photomedicin and laser surgery

Experiences :

Practical experience using medical laser devices:

- *Fractional CO₂ Laser**
- *Q-switched Nd-YAG Laser**
- *Ho:YAG Medical laser**
- *Diode laser**
- * Excimer laser**

Technical experience in working and using scientific laboratory equipment:

- * Absorption Spectra Measurement (UV-Visible Spectrophotometer)**
- * Fluorescence Spectra Measurements**
- * IR-Spectrophotometer Measurement**
- * Optical detectors**
- * Good users of scientific computer programs and applications, Gaussian 09 and COMSOL MULTIPHYSICS programs.**

Courses Which I Teach

- Teaching the first stage Medical Physics course - Medical Technical Institute - Middle Technical University.
- Teaching the first stage Medical Physics course - College of Dentistry - Al Ayen University.
- Teaching the first stage English Language course - College of Engineering - Department of Biomedical.
- Teaching the third stage Medical Laser course - College of Engineering Al-Khwarizmi - Department of Biomedical.
- Teaching the third-stage laser application course - College of Engineering - Department of Biomedical.
- Teaching the course of Refraction errors for the second stage - College of Medical & Health Technologies - Department of Optics technologies.

Conferences and Scientific Activities which participated:

N.	Conferences Title	Place
1	Postgraduate Specialized Conference c for postgraduate students (Medical Laser Technology and Its Importance)	medicine college –University of Babylon
2	The specialized conference for postgraduate students (laser technology towards photonics applications)	University of Baghdad
3	A specialized training course for the use of lasers in medicine	Institute of Laser for Postgraduate Studies-University of Baghdad
4	course for use of modern laser devices and applications in aesthetic medicine	National institute of laser science
5	seminars for postgraduate students of different universities of Iraq / nonlinear optical properties of some Nano films consisting of chemical dyes and	Institute of Laser for Postgraduate Studies-University of Baghdad

6	Corse of English language and The international English language testing system (IELTS)	British Embassy – Baghdad
7	Nano , micro optics technology and application	University of Baghdad
8	Professional course for skills development, training and mentorship	Rehabilitation and employment center – University of Baghdad
9	Internal Auditor training Course	AL-Ayen University - S.J.S.

Certificates of Appreciation:

No.	Name of Certificates
1	Thanks and appreciation from deanship of medicine college –University of Babylon
2	Thanks and appreciation from deanship of Institute of Laser for Postgraduate Studies-University of Baghdad
3	Thanks and appreciation from deanship of medical technical institute - middle technical university
4	Thanks and appreciation from presidency of Al-Ayen University