



Name: **Dr. Mohammed Saeed Maroof**

Academic rank: **faculty member**

**Laboratory of Laser Technology, Higher Institute for Laser
Researches and Applications, Damascus University, Syria.**

الاسم: **د. محمد سعيد معروف**

المرتبة العلمية: عضو هيئة تدريسية في جامعة دمشق – المعهد العالي لبحوث الليزر
وتطبيقاته- مخبر تقانات الليزر.

Scientific certificate and place of acquisition:

**Ph.D. science and Laser applications Damascus University-Higher
Institute for Laser Research.**

الشهادة العلمية ومكان الحصول عليها:

دكتوراه علوم وتطبيقات الليزر جامعة دمشق- المعهد العالي لبحوث الليزر.

Strict jurisdiction:

**Optical and laser electronics-optical measurements of laser-optic
devices.**

الاختصاص الدقيق:

الالكترونيات الضوئية والليزر- قياسات ضوئية للأجهزة الالكتروبصرية الليزرية.

Scientific research Interests:

Optical measurements – design of lasers and optoelectronic devices

اهتمامات البحث العلمي:
قياسات ضوئية – تصميم أجهزة ليزر وأجهزة الكتروبصرية.

Scientific articles:

النشرات العلمية:

- 1- Title of the article: "**Measuring optical and optical-electronic optical return factor**". Published in Damascus University Magazine 2011.
- 2- The title of the article: "**Design and implementation of a full-scale, high-level tripartite pyramid and spherical repeater and the measurement of their visual and social characteristics**". Published in Damascus University magazine 2012.
- 3- article title: "**Design and implementation of several optical masks to reduce optical and electrochemical light-ray scanners**" published in Damascus University magazine 2012.
- 4-Article title: "**Optical and reflective characteristics measurement and focal length calculation of a hollow tetrahedral corner and a solid highly retroreflective cubes**" published in international journal of optics 2019.
- 5- Article title: "**Design and Realization of a hollow Corner Cube with High Optical Retroreflectivity and Characterization**" Published in Damascus University magazine 2019.

--Scientific conferences:

- 1- Conference of TDSL Switzerland 2010.
- 2- Conference SPO Optics and Laser Applications Ukraine 2011.
- 3- laser workshops and applications by the Damascus University High

Institute for Laser Research and applications.

4-Training courses in optical and laser measurements. (Russian Federation).

5- Laser Tech Tentative 2018" **Design and implementation of a plate half reflecting light in the visible and near infrared, not changed by reflectivity for any wavelength of light used**"2018.

-Work:

1. Worked at the Centre for Scientific Studies and research. In the field of optical measurements, lasers and optics within a specialist: from 1991 to 2012. (Expert certificate facility).

2. From 2012 to date I work at the University of Damascus-in the Higher Institute for Laser Research and applications as lecturer and supervisor of Laser Technologies Laboratory and lecturer, Faculty of Inspiration and Informatics). Certificate of Expertise Facility)

-The materials I have taught from 2012 to date are:

1-Advanced optics for students' master sciences of postgraduate studies for students of pure physics, communications and medical engineering.

2-Laser technologies for students' master sciences, postgraduate students.

3. Laser, optical and industrial laser applications of the Master of Industrial Engineering qualification, second year.

4. Laser technologies and engineering and its uses for Master of qualification and medical specialization for the second year.

5. Supervisor of applied and practical aspects of the Laser Institute: for postgraduate students, Master of medical qualification, and master's degree students.

6. Supervising the practical aspects of laser and optical applications and technologies for third-year students.

7. Supervisor of Master's degree and specialization for several laser-graduated projects and applications.

9. General Physics for first-year students of Informatics College.

10. Industrial laser Applications (participation) for postgraduate students.

(Annex papers on teaching experience).

-Completed research carried out by the Registrar and completed at the University of Damascus.

-A semi-reflective plate is designed not for the length of the light wave used. (completed and recorded research).

-Master of qualification and specialization projects and master of Graduate studies projects:

-Supervision of a graduate project for an undergraduate and engineering specialist entitled (Burning wood using carbon dioxide laser) (.2016

-Supervision of a graduation project for a medical qualification and specialization entitled (Laser Tattoo removal) 2016.

-Project Supervision (Automation of examination halls)

-Supervision of a project (Laser needle treatment)

-Supervision of a project (screening of absorption spectroscopy for soft drinks using lasers)

-Supervision of the Master's Degree project (representation of free space by sender, receiver and study of the Air Force). (In progress)

-Supervision of a postgraduate Master's project (design and implementation of a rapid laser pulse detector) (in progress).

-Supervision of a postgraduate Master's project (manufacture of a lens from NANBK7 glass) (in progress).

-Skills and training courses.

1. ICDL session

2. Work on the optical design and laser optical Zemax program has been perfected.

3. The work on solid LIDPSSL design programmers has been perfected.

4. Maintenance and control of laser and optical laser systems used in industrial and medical applications and laser vision devices.

5. Session on the Lapview programmer

رسائل الدراسات العليا التي أشرف عليها:

(-Postgraduate theses, supervised by)

Specialization	Student Name	Thesis title	N
Communications Engineering 2016	وليم سليمان	Design and implementation of a quick detector to record the signal .pulse of the narrow impulse تصميم وتنفيذ كاشف ضوئي سريع لتسجيل إشارة الليزرات النبضية الضيقة.	1
Communications Engineering 2018	مضر ديوب	A laboratory representation of the air infiltration of lasers in different weather conditions for several wavelengths. FSO تمثيل مخبري للنفوذية الجوية لأشعة الليزر في الظروف الجوية المختلفة لعدة أطوال موجية. FSO.	2
Physics2018	خالد الصالح	Manufacture lens of Nano- glass .type BK7 Using lasers تصنيع عدسة من زجاج نانوي نوع BK7 باستخدام الليزر.	3
Communications Engineering 2018	محمد عثمان	تقييم مخبري لتأثير طول موجة الليزر في الاتصالات تحت الماء. laboratory evaluation of wavelength laser changes in communication free space optical underwater (FSOUW)	4
Medical Engineering2019	روى عثمان	تصميم لوحات طرقية فائقة الوضوح ليلاً باستخدام الزجاج البصري الثانوي واختبارها بالليزر الأخضر 532nm Design of ultra-clear night vision panels using Nano-optical glass and green laser test 532nm	5

Physics2019	ساربه المصري	Study of sea water permeability of laser signal with temperature change دراسة نفوذية مياه البحار للإشارة الليزرية مع تغير درجة الحرارة	6
Medical Engineering2019	أحمد دياب	Study of the capacity of stained glass for laser energy دراسة قدرة تحمل الزجاج الملون لطاقة الليزر	7
Physics2016	أوس مكننا	Aspherical laser beam extender design for improved performance تصميم موسع حزمة ليزرية لأكروي لتحسن أداء حزمة الليزرات دايبود	8
Medical Engineering2019	راما الصباغ	A study of the effect of laser on the human eye دراسة لتأثير الليزر على عين الانسان	9
Physics2016	خالد الدرباس	Random laser الليزر العشوائي	10
-Supervising the following projects for the students of Master of - :qualification and medical and industrial specialization			
-إشراف على المشاريع التالية لطلاب ماجستير التأهيل والتخصص طبي وصناعي:			

Specialization	Project name	Student Name	N
Communications Engineering2017	الحفر على الخشب باستخدام الليزر Engraving on wood using laser	م. منذر جنيد Eng. munther Junaid	1
Medical Engineering2017	إزالة الوشم باستخدام الليزر Tattoo Removal using lasers	م. بيان الحمير Eng. Bayan hommer	2
Medical Engineering 2018	الوخز بالليزر Laser tingling	م. أيهم السلطي Eng. Ayham Salti	3
Communications	أتمته قاعات الامتحانات	م. دعاء علي	4

Engineering2017	Automation of Examination Halls	Eng. Doaa Alli	
Communications Engineering2017	تحليل طيفي للمشروبات الغازية بالليزر Spectral analysis of soft drinks by laser	م. نايف بكر Eng. Naef Bakker	5
Physics laser 2017	دراسة قدرة التحمل للزجاج لليزر Endurance study of Glass for laser	يارا حمدان Eng. Yarra Hamdan	6
Communications Engineering2019	تصميم منظومة ارسال واستقبال تتأثر بالضوء والحرارة	م. إياد علوش م. مراد الطبل	7