



Alaa Mahmoud Mohamed

Lecturer

Born in March, 1984
Married, with three children

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PROFILE SUMMARY

Dedicated lecturer with 13+ years of experience in teaching for undergraduate and postgraduate levels. Good knowledge in various educational philosophies, evaluate students and prepare exams. A confident presenter, able to impart complex information to students of all levels. Published several papers in the field of semiconductor lasers and optical fiber communication systems. Participated in several international conferences. Attended several training courses in teaching skills and education.

EDUCATION

2016 | Ph.D. in "Laser Physics", Minia University, Egypt.

Thesis Title: "Performance Evaluation of Semiconductor Laser for Use in Analog Cable Television (CATV) Fiber links".

2010 | M.Sc. in "Physics", Minia University, Egypt.

Thesis Title: "Digital Modulation of Semiconductor Lasers".

2005 | B.Sc. in "Physics", Cairo University, Egypt.

CAREER SUMMARY

2016 – Present | Lecturer

Laser Institute for Research and Applications (LIRA),
laser science and its interactions department, Beni-Suef University, Egypt.

2010 – 2016 | Assistant Lecturer

High Institute of Engineering and Technology,
basic science department, El-Minia, Egypt.

2006 – 2010 | Teaching Assistant

High Institute of Engineering and Technology,
basic science department, El-Minia, Egypt.

SKILLS

Computer skills:

- Holds **ICDL** certificate.
- Some knowledge about **Fortran**, **Mathematica**, and **Matlab** programs.
- Great experience in **Origin** and **Optisystem** softwares.

Other skills:

- Great knowledge of the credit hours system (2006 - Present).
- Experience in the total quality control (2012 - 2016).
- Outstanding ability to handle syllabus at the undergraduate and postgraduate curriculum.
- Excellent in written and oral communication skills.
- Good experiences in fiber cable splicing and using OTDR device.

RESEARCH INTERESTS

- Semiconductor lasers
- Optical fiber communication systems
- Cable TV technology

TRAINING COURSES

11 Apr. 2019 | Electronic correction and report preparation.

Measurement and Assessment Center, Ministry of Higher Education, Egypt.

3 - 4 Feb. 2019 | Preparation of Electronic Tests.

Measurement and Assessment Center, Ministry of Higher Education, Egypt.

30 - 31 Jan. 2019 | Preparation of question Bank.

Measurement and Assessment Center, Ministry of Higher Education, Egypt.

27 - 28 Jan. 2019 | Evaluation Methods and Test Preparation.

Measurement and Assessment Center, Ministry of Higher Education, Egypt.

10 May 2017 | Avoiding Plagiarism: Principles of Academic Writing.

Beni-Suef University.

14 - 16 May 2017 | Basics of Academic Writing and International Publications for Research.

Beni-Suef University.

5 Oct. 2016 | Student Evaluation and Examination Techniques.

Beni-Suef University.

3 Oct. 2016 | Ethical Conduct and Code of Ethics.

Beni-Suef University.

29 Sep. 2016 | University Management

Beni-Suef University.

26 - 28 Sep. 2016 | Effective Teaching and Communication

Beni-Suef University.

22 Sep. 2016 | University Legal and Financial Aspects

Beni-Suef University.

20 - 21 Sep. 2016 | Technology in Teaching

Beni-Suef University.

14 - 25 Apr. 2013 | Modern Fiber Optic Network Systems

Telecom Egypt Company.

18 - 20 Oct. 2016 | Poster presentation at "The 7th International Conference on Optical Spectroscopy, Laser and Their Applications ", NRC, Cairo, Egypt.

1 - 6 Aug. 2015 | Oral presentation at "The Second International Conference on New Horizons in Basic and Applied Science," Hurgada, Egypt.

2 - 4 Apr. 2014 | Poster presentation at "The Second International Conference on Advanced Basic and Applied Science," Ain Sokhna, Egypt.

20 - 22 Oct. 2009 | Poster presentation at "The Third Arab International Conference in Physics and Material Science," Bibliotheca Alexandria, Egypt.

17 - 19 Mar. 2009 | Oral presentation at "26th National Radio Science Conference," NRSC 2009 Future University, 5th Compound, New Cairo, Egypt.

CONFERENCES

1. **A. Mahmoud**, M. Ahmed and S. W. Z. Mahmoud, "[Optimum parameters controlling distortion and noise of semiconductor laser under analog multichannel modulation](#)," Springer, Pramana Journal of Physics, vol.90 (5), PP.61 (3-8), **2018**.
2. S. W. Mahmoud, **A. Mahmoud** and M. Ahmed, "[Noise performance and nonlinear distortion of semiconductor laser under two-tone modulation for use in analog CATV systems](#)," John Wiley & Sons: International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, vol. 28, pp. 1-11, **2015**.
3. S. W. Mahmoud and **A. Mahmoud**, "[Relative Intensity Noise and Nonlinear Distortions of Semiconductor laser under Analog Modulation for Use in CATV Systems](#)," Natural Sciences Publishing, International Journal of New Horizons in Physics, vol. 2, pp. 37-45, **2015**.
4. **A. Mahmoud**, S. W. Mahmoud, and K. Abdelhady, "[Modeling and Simulation of Dynamics and Noise of Semiconductor Lasers under NTSC modulation for Use in the CATV Technology](#)," LSEVIER: Beni-Suef University Journal of Basic and Applied Sciences, vol. 4, pp. 99-104, **2015**.
5. M. Ahmed, S.W.Z. Mahmoud, and **A. A. Mahmoud**, "[Comparative study on modulation dynamic characteristics of laser diodes using RZ and NRZ bit formats](#)". John Wiley & Sons: International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, vol.27, PP.152-138, **2013**.
6. M. Ahmed, S.W.Z. Mahmoud, and **A. A. Mahmoud**, "[Influence of pseudorandom bit format on the direct modulation performance of semiconductor lasers](#)". Pramana Journal of Physics, vol.79, PP.1443-1456, **2012**.
7. Safwat W.Z. Mahmoud, Moustafa F. Ahmed Kamal Abdelhady and **Alaa Mahmoud** "[Estimation of Parameters Controlling Direct Modulation of Semiconductor Lasers](#)" 26th National Radio Science Conference, J. IEEE, NRSC, PP.(D08)1-9, **2009**.

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