

MUHAMMAD SADDIQUE

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PERSONAL PROFILE

I am working in the field of Quantum Optics specifically I investigate Laser Matter Interaction (LMI). In addition, I have also worked on the synthesis of nanostructured materials and their characterization.

EDUCATION

- 02/2013 – 01/2016 *Department of Physics, International Islamic University, Islamabad*
MS Physics
Thesis: Potential Dependent Concentration and Magnetic Properties Variation in Electrodeposited Ni_{1-x}Zn_x Nanostructures
- 03/2007 – 07/2011 *Department of Applied Physics, FUUAST, Islamabad*
BS Applied Physics
Thesis: Synthesis and Characterization of TiO₂ Nano-Particles

PROFESSIONAL APPOINTMENTS

- 01/2023 – Present Lecturer
Department of Applied Physics, FUUAST, Islamabad
- Taught lectures (12 Cr. Hrs.) in courses at Undergraduate level Physics students
 - Coordinated departmental affairs of undergraduate students
 - Supervised 4 students in their research at the undergraduate level
 - Have been a course coordinator at the Undergraduate level.
- 10/2019 – 06/2022 Lecturer (Contract)
Department of Applied Physics, FUUAST, Islamabad
- 03/2016 – 07/2019 Lecturer (Visiting)
Department of Applied Physics, FUUAST, Islamabad
- 02/2016 – 01/2018 Lecturer (Visiting)
Department of Geo Physics, Bahria University, Islamabad
- 02/2013 – 10/2014 Lecturer (Visiting)
Department of Electrical Engineering, Grafton College, Islamabad
- 10/2011 – 07/2013 Lecturer (Visiting)
Department of Applied Physics, FUUAST, Islamabad

SUBJECTS TAUGHT

Materials Science	Introduction to Nuclear Physics
Laser Physics	Computer Programming using C/ C++
Electricity and Magnetism	Introduction to Quantum Physics
Digital Logic and Design	Basic Electronics
Computational Physics	

RESEARCH EXPERIENCE

09/2015 – Till date

RELEVANT PUBLICATIONS

A. Mehmood, M. Saddique, S. Qamar, and S. Qamar, Opt. Comn. 472, 125881 (2020).
M. Saddique, A. Mehmood, S. Qamar, S. Qamar, Phys.Scr. 96, 115101 (2021).

CONFERENCES

08/2018 Nathiagali Summer College, National Centre for Physics, Islamabad (2018).
06/2022 Nathiagali Summer College, Nathiagali (2022).

APPLICATION SOFTWARES USED

Mathematica
LaTeX
C++ Compiler

MatLab
Multisim
Microsoft Office Tools

LANGUAGE & ADDITIONAL SKILLS

English, Urdu, Punjabi

REFERENCES

- May be provided on demand.