

## Curriculum Vitae



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**Postal Address** Department of Physics, Mirpur University of Science & Technology (MUST), Mirpur 10250 Azad Jammu & Kashmir, Pakistan

**Qualifications:**

**PhD Physics (2018)** Department of Physics, Mirpur University of Science & Technology (MUST) 10250, Mirpur Azad Kashmir Pakistan.  
PhD Research work is performed at National Institute of Lasers and Optronics (NILOP), PIEAS Islamabad Pakistan

**M.Phil. Applied Physics (2013)** Department of Physics, Federal Urdu University of Arts Science and Technology (FUUAST), Islamabad.

**M.Sc. Physics (2002)** Department of Physics, BZU Multan

**Professional Qualifications** **Certificate of the one year Professional Research Training from Graduate School of Science, Leiden University Netherlands from September 15, 2007 to August 01, 2008.**  
MATLAB works and Basic IT and Computer Skills

**Area of Specialization** Laser based spectroscopy, Food Quality Analysis by Raman and Fluorescence Spectroscopy

**WORK EXPERIENCE:**

- Assistant Professor Mirpur University of Science & Technology (MUST) 10250, Mirpur Azad Jammu & Kashmir Pakistan since February 26, 2022 to date
- Lecturer Mirpur University of Science & Technology (MUST) 10250, Mirpur Azad Jammu & Kashmir Pakistan from September 24, 2016 to February 26, 2022.
- Junior Lecturer Mirpur University of Science & Technology (MUST) 10250, Mirpur Azad Jammu & Kashmir Pakistan: From January 14. 2010 to September 24, 2016.
- Research Associate Department of Physics, University of Azad Jammu and Kashmir UAJK Muzaffarabad Pakistan from February 02. 2009 to December 31, 2009.
- Lecturer Physics Government Degree College Baisrpur Okara Pakistan, from April 30, 2005 to October 01, 2007

## SUBJECT TAUGHT:

### Graduate-level (M.Sc. Physics and M.Phil./PhD Physics)

*Electrodynamics, Quantum Mechanics, Molecular Spectroscopy and Nano Science and Technology*

### Undergraduate Level (BS Classes)

*Applied Physics for Engineers, Modern Physics, Electronics, Digital Electronics, Waves and Oscillations*

## Publications:

1. **N. Ahmad**, M. Saleem, H. Ali, M. Bilal, S. Khan, R. Ullah, M. Ahmed, and S. Mahmood. 2017. Defining the temperature range for cooking with Extra virgin olive oil using Raman spectroscopy. *Laser Phys. Lett.* 14:1–10.
2. Saleem, M., **Ahmad**, N., Ali, H., Bilal, M., Khan, S., Ullah, R., Ahmed, M., Mahmood, S., 2017. Investigating temperature effects on extra virgin olive oil using fluorescence spectroscopy. *Laser Phys.* 27, 01–10.
3. **N. Ahmad**., M. Saleem, M. Ahmed, and S. Mahmood. 2018. Heating effects on Desi Ghee using Raman Spectroscopy. *Appl. Spectroscopy*(01-14).
4. **N. Ahmad**, Saleem M. Studying heating effects on desi ghee obtained from buffalo milk using fluorescence spectroscopy. *PLoS One*. 2018;13: e0197340.
5. Saleem M, **Ahmad** N, Characterization of canola oil extracted by different methods using fluorescence spectroscopy, *PLoS One* **2018**, 01.
6. **N. Ahmad**, M. Saleem, Babar Manzoor Atta & S. Mahmood Characterisation of Desi ghee extracted from different methods using Fluorescence spectroscopy, *Journal of Fluorescence*. <https://doi.org/10.1007/s10895-019-02453-6>.
7. **N. Ahmad**, M. Saleem, Characterisation of Desi ghee obtained from different extraction methods using Raman spectroscopy, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 223 (2019) 117311.
8. **N. Ahmad**, M. Saleem, Raman spectroscopy based characterization of desi ghee obtained from buffalo and cow milk, , *International Dairy Journal*. 89 (2019) 119–128.
9. **N. Ahmad**, M. Saleem, Characterization of Cow and Buffalo ghee using Fluorescence spectroscopy, , *Int. J. of dairy technology*. 89 (2019) 119–128.
10. M. Saleem & **Naveed Ahmad** & Rahat Ullah & Zulfiqar Ali & S. Mahmood & Hina Ali; Raman Spectroscopy–Based Characterization of Canola Oil. *Food Analytical methods* <https://doi.org/10.1007/s12161-020-01752-0>
11. Areeba Ansar · **Naveed Ahmad** · Mha Albqmi · Muhammad Saleem · Hina Ali; Thermal Effects on Quality parameters of Extra Virgin Olive oil Using Fluorescence Spectroscopy. *Journal of Fluorescence*. DOI: 10.1007/s10895-023-03186-3, 2023 <https://pubmed.ncbi.nlm.nih.gov/36826729/>
12. Muhammad Saleem, Hina Ali, M. Bilal, Babar M. Atta & **Naveed Ahmad**; Quality Analysis of Canola and Mustard Oil Using Fluorescence Spectroscopy. *Journal of Fluorescence*: <https://link.springer.com/article/10.1007/s10895-023-03185-4>, 2023

References:

1. Dr Muhammad Saleem, Deputy Chief Scientist (DCS), Ari & Biophotonics Division, National Institute of Lasers and Optronics College, NILOP Nilore Islamabad Pakistan  
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2. Prof. Dr. Shaukat Mahmood, Department of Physics, MUST, Mirpur AJ&K  
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