



Mohd Salman Haider

Roll No.: M21PH202

M.Sc. - M.Tech

Physics and Materials Engineering

Indian Institute Of Technology Jodhpur

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EDUCATIONAL QUALIFICATION

Degrees	Institutes	CGPA	Year
M.Tech. Materials Engineering	Indian Institute of Technology, Jodhpur	8.13 (Current)	2023-2025
M.Sc Physics	Indian Institute of Technology, Jodhpur	8.1	2021-2023
B.Sc. (H) Physics	Jamia Millia Islamia New Delhi	8.95	2018-2021

EXPERIENCES

• Teaching Assistance

Department of Materials Engineering, Indian Institute of Technology Jodhpur

Aug 2023 - Present

• Chegg Experts

Physics Expert

April 2023 - Present

PUBLICATIONS

- SJ Ansari, S Haider, S Mohapatra, SR Varanasi, S Mogurampelly, "Effects of pectin and temperature on the diffusion of ions and water in saltwater membranes" J. Mol. Liq. vol. 396 (2024)

PROJECTS

• Structural and Dynamics Properties of Ions and Water in Pectin

Investigated interactions between the ions-water, pectin-water, pectin-ions

Aug 2022 - May 2023

– **Tools & technologies used:** Molecular Dynamics Simulation, Gromacs, VMD

• Fabrication of Indium Tin Oxide Thin Film

Enhanced the efficiency of Touchscreen

Aug. 2021 - May 2022

– **Tools & technologies used:** Sol Gel Method and Magnetic Sputtering

KEY COURSEWORK

- Statistical Methods for Data Analysis, Fundamental of Machine Learning, Quantum Machine Learning, Computational Materials Science, Computational Physics Lab, Computational Thermodynamics and Kinetics of Materials, Materials Characterization, Nanoscience and Nanotechnology, Industry 4.0

POSITIONS OF RESPONSIBILITY

- **Class Representative of M.Sc-M.Tech** in Indian Institute of Technology Jodhpur

May 2022 - Present

- **Member of Physics Association** in Jamia Millia Islamia New Delhi

Apr. 2019 - Apr. 2021

ACHIEVEMENTS

- **Received MHRD Fellowship** Indian Institute of Technology Jodhpur

Aug 2023

- **Qualified** Joint Admission Test for Master

2021

- **Selected in Merit/Central Scholarship** Jamia Millia Islamia New Delhi

2020, 2021

- **Selected INSPIRE Scholarship for Higher Education**, DST New Delhi

2017-2018

CONFERENCE

- Participated and presented a poster in the JNCASR - CECAM Conference MD@60

26 - 29 Feb 2024

WORKSHOPS AND CERTIFICATIONS

- IIT Jodhpur Certification on 1st Internet of Things and Applications Workshop

19 - 20 Aug 2023

- IIT Hyderabad Certification on Statistical Tools and Modelling in Biophysics

3 - 13 July 2023

- ICTP Trieste Certification on Stochastic Thermodynamics

18 - 25 May 2023

- ISM Dhanbad Certification on Python for Handling large Geo-Spatial Data

30 May - 1 June 2022

TECHNICAL SKILLS

- **Programming:** Python, MATLAB, Fortran, Bash Scripting

- **Scientific Software:** GROMACS, XMGrace, PACKMOL, VMD, VASP, MTEX, Thermo-Calc

- **Tools & OS:** Jupyter Notebook, Google Colab, Linux, Windows

- **Libraries:** scikit-learn, qiskit