



MOMINA TARIQ

Lecturer, NEDUET



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3/13-C Hajrabad, Shah Faisal ,Colony
Block 03, Karachi, Pakistan

LANGUAGE

- English
- Urdu
- Persian (basic)

EXPERTISE

- Management Skills
- Communication
- Research
- Time management
- Critical Thinking
- Leadership

INTERNSHIP

- Intern Medical Physicist,
Cyberknife Radiosurgery,
Jinnah Post Graduate
Medical College, Karachi,
Pakistan.

ROLES & RESPONSIBILITIES

- Delivered undergraduate teaching in accordance with HEC-approved curricula.
- Developed course outlines, lesson plans, and assessment methods aligned with learning outcomes.
- Conducted examinations, evaluated student performance, and maintained academic records.
- Supervised undergraduate projects and contributed to research and HEC-recognized publications.
- Participated in quality assurance, and departmental academic administration.

EXPERIENCE

- Lecturer, Department of Physics, NED-UET, Karachi, March 2024-to date.
- Part-Time Teacher, Department of Physics, NED-UET, Karachi, November 2020-January 2024

EDUCATION

- Masters of Science in Physics, NED-UET, Karachi, April 2022.
- Bachelor of Science in Applied Physics, NED-UET, Karachi, October 2018.
- HSC, B.A.M.M P.E.C.H.S Government College for Women, Karachi.April-2014
- SSC, CAA Model School-II, JIAP, Karachi, April-2011.

ACADEMICS:

Supervising FYDP: Accident Detector Helmet.

Instructed Courses: PH-202, PH-207, PH-129 PH-122, PH-112, PH-127.

Instructed Labs: PH-133, PH-122, PH-112, PH-126

RESEARCHES

MASTERS: Development of Low cost Paint Thickness Tester for Automotive application.

BACHELORS: Synthesis and Characterization of Al+3 doped Strontium Hexaferrite

RESEARCH PUBLICATIONS

- Synthesis and Characterization of Al+3 doped Strontium Hexaferrite at International Conference of Nanotechnology and Material Science (ICNMS-2024), 22nd - 23rd January 2024, Rawalpindi, Pakistan.

TRAINNING AND CERTIFICATIONS

- Effective Communication Skill/ Email Writing Skills by Prof. Dr. Sadija Zaki on 29th November 2024 at Video Conference Hall, Department of Petroleum Engineering.
- Advanced Certificate Course for Clinical Medical Physicist, AKUH, Karachi, Pakistan.
- Current Trends and Technologies in Medical Physics, Cancer Imaging and Treatment, by AAPM at JPMC, Karachi, Pakistan.
- Medical Physics and its Applications, NEDUET, Karachi, Pakistan.
- Applications of Radiation Protection, by PNRA at NEDUET, Karachi, Pakistan.

CONFERENCES & WORKSHOPS :

- Attended, Seminar on “ Air Pollution, Public Health an Environment Sustainability” on 23rd January 2026, organized by Membranes ad Materials for Sustainable Environment (MMSE), Department of Chemistry, N.E.D University of Engineering and Technology, Karachi.
- Hosted Seminar, on “Symmetries and Dark Matter in Particle Physics” on 12th January 2026, organized by Department of Physics N.E.D University of Engineering and Technology at AV Hall Petroleum Engineering Department
- Organized and Hosted, Seminar on Medical Physics on “ The International of Medical Physics” on 27th November 2025, by Department of Physics in Collaboration with POMP, at Ashraf Habibullah AV Hall.
- Organized and Hosted, "Unlocking Quantum (Education, Simulation, Application)" on 25th and 26th September 2025, organized by Department of Physics in collaboration with Center for Quantum Technologies (CQT), featuring sessions on Quantum Key Distribution (QKD), Random Number Generation (QRNG), and hands-on training at N.E.D University of Engineering and Technology, Karachi.
- Organized and Hosted, Awareness Seminar on World Biodiversity Day Jointly organized by Sindh Environmental Protection Agency (SEPA) and Department of Physics on 22nd May 2025 at Ashraf Habibullah AV Hall
- Attended Project Display by First year students at Department of Physics on 24th April 2025
- Attended 2nd International Conference on Technology Driven Climate Action: CLIMATECH-2025 on 16TH -17TH January 2025 at Ashraf Habibullah AV Hall.
- Organized and Hosted, Pre-Conference Seminar on 7th Annual Conference: International Day for Medical Physics on 15th November 2024 at Ashraf Habibullah AV Hall.
- Organized and Participated at 1st Particle Physics Workshop by Department of Physics NED University of Engineering and Technology in collaboration with FUUAST from 4th to 7th November 2024.
- Attended, Awareness Program Against The Harassment of Women at Workplace Department of Students Affairs in collaboration with Federal Ombudsperson Secretariat for Protection against Harassment (FOSPAH) Regional Office (Sindh) on 10th September 2024 at Mehmood Alam Auditorium.
- Attended, the symposium on geomagnetic field observation on 18th April 2024 at Mechanical A/V hall organized by Department of Electronics Engineering and Department of Physics, N.E.D University of Engineering and Technology in collaboration with SUPARCO.
- Attended and Participated, in International Conference of Nanotechnology and Material Science (ICNMS-2024), 22nd - 23rd January 2024, Rawalpindi, Pakistan.
- Attended, 1st International Conference on Applied Physics & Engineering on 16th & 17th September 2021, organized by Department of Physics, N.E.D University of Engineering & Technology Karachi.

ADMINISTRATIVE RESPONSIBILITIES:

- Maintained data for Routine Surveillance Audit by Lloyds' Register Quality Assurance conducted on 17th and 18th November 2025, for Department of Physics.
- Maintained data for 46th Internal Quality Audit (IQA) held from 27th to 29th October 2025, for Department of Physics.
- Maintained data for Charter Inspection and Evaluation Committee (CIEC), August 2025, for Department of Physics.
- Maintained data for 45th Internal Quality Audit (IQA) held from 23rd to 25th April 2025, for Department of Physics.
- Maintained data for 44th Internal Quality Audit (IQA) held from 19 to 20 December 2024, for Department of Physics.
- Maintained data for Routine Surveillance Audit by Lloyds' Register Quality Assurance conducted on 18th, 19th and 20th November 2024, for Department of Physics.
- Open Day duty Fall 2024.
- Maintained data for 43rd internal quality audit held from 13th to 17th May 2024, for Department of Physics.
- Prepared Mid Term Schedule Spring 2024.
- Prepared Mid term Invigilation duties Spring Semester 2024.
- Maintained data for PGPR HEC Spring 2024.
- Assistance in preparing for teaching assignment (practical) fall 2024.
- Assistance in preparing ISO Teaching Assignment fall 2024.
- Maintained data for Difference UG policies for Department of Physics.