

FAYZAN AHMED

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▪ Current Status

Lecturer, Department of Physics. **NED University of Engineering & Technology, Karachi, Pakistan.**

▪ Education

(2016 - 2021) **MPhil (Physics)** From **UNIVERSITY OF KARACHI.**

(2008 to 2012) **B.S Physics (1st Division, with distinction)** From **UNIVERSITY OF KARACHI.**

(2006 to 2008) Intermediate **PRE-ENGINEERING (2nd Division)** from Askary Intermediate College Karachi.

(2004 to 2006) Matric **Computer Science (1st Division)** from Makhdoom Bilawal Higher Secondary School Karachi.

▪ E-Education

Courses from **MIT** (Massachusetts Institute of Technology) through **EDX.**

(1) 6.002x **CIRCUITS AND ELECTRONICS**

(2) 8.02x **ELECTRICITY AND MAGNETISM**

Courses from **University Of California (Berkeley)** through **EDX.**

(1) CS191x **QUANTUM MECHANICS AND QUANTUM COMPUTATION**

(2) Stat2.1 **INTRODUCTION TO STATISTICS**

Courses from **INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)** through **ELEARNING.**

(1) **RADIATION PROTECTION DURING C-ARM FLUOROSCOPY**

▪ Research publication

(1) Ahmed, F., Iqbal, M., Iqbal, J., Abbass, S. G., Ahmed, N., & Mansoor, A. (2018) Performance Assessment of Clinical Technetium-99m Generator by Moly Assay Test in a Tertiary Care Hospital.

(2) Iqbal, M., Ahmed, F., Iqbal, A., & Uddin, Z. (2020). Teaching physics online through spreadsheets in a pandemic situation. Physics Education, 55(6), 063006.

▪ Academic & Professional Experience

1. (June 2017 – July 2022) Medical Physicist and Radiation Protection officer (RPO) at **Liaquat National Hospital (LNH) Karachi**

- Supervising operational aspects of radiation protection programme.
- Identify deficiencies in compliance with the radiation protection programme and reporting to the executive director as well as the radiation protection committee.
- Co-operating with the officers of the PNRA and facilitating internal and external audits. Contributing to the planning and design of any new or modified radiation facility.
- Implementing personal and workplace monitoring programme.
- Developing QA and QC program for the diagnostic facility and overall quality improvement regarding to equipments including Nuclear Medicine.
- Managing SRS log and radioactive waste disposal as per PNRA directives.
- Conducting refresher courses and training of radiation workers.
- Conducting Physics module classes for Radiology residents.

2. (August 2016 – June 2017) Lecturer Physics at **Army Public School and College Saddar Karachi (APSC)**

- Teaching Physics courses at intermediate level Federal board and Karachi board
- In charging Co-curricular activities e.g, house competitions, Naat and debate competitions

3. (August 2014 – August 2016) Trainee medical physicist at **Aga Khan University Hospital Karachi**

- Coursework includes (physics, radiological sciences, imaging, methodology, dosimetry, anatomy and physiology, oncology and protocols are in progress)
- Quality assurance on weekly, monthly and annually of (2 **VARIAN LINACS** photons and electrons beam)
- Research Projects

4. Internship at **Pakistan Council of Scientific and Industrial Research-PCSIR.**

- Dept of Embedded System
- Dept of X-ray Spectroscopy
- Dept of Calibration

5. Internship at **Karachi Institute of Radiotherapy and Nuclear medicine-KIRAN.**

6. (September – July 2014) Physics teacher for Intermediate level at **BENIGN EDUCATIONAL LEGATES COLLEGE (GULSHAN-E-HADEED, KARACHI).**

▪ **Skills**

Computer Skills: Eclipse and Acuity (Varian), Ubuntu, Windows 8, Microsoft Office, MATLAB, Endnote, Mephysto (PTW) etc.

Writing Skills: Reviewing and proof reading of scientific and general articles.

▪ **Conferences and Seminars Attended**

August 23rd 2014 : 3rd Medical Physics CME workshop on **INTENSITY MODULATED RADIATION THERAPY (IMRT)** organized by **AGA KHAN UNIVERSITY HOSPITAL (AKUH) KARACHI**

October 09-13 2017 : Training Course on **MEDICAL RESPONSE DURING A NUCLEAR OR RADIOLOGICAL EMERGENCY** organized by **PAKISTAN NUCLEAR REGULATORY AUTHORITY (PNRA)**

October 17-19 2017 : Workshop on **IMPROVE SAFETY ASSESSMENT OF RADIOTHERAPY FOCUSING ON GAMMA KNIFE, CYBER KNIFE & LINAC STEREOTACTIC** organized by **PAKISTAN NUCLEAR REGULATORY AUTHORITY (PNRA) & INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)**

October 27-29 2017 : Participation in **17TH ANNUAL RADIOLOGICAL CONFERENCE** organized by **RADIOLOGICAL SOCIETY OF PAKISTAN** presented in Poster Competition

- January 05-07 2018 : Workshop on **CURRENT TRENDS & TECHNOLOGIES IN MEDICAL PHYSICS, CANCER IMAGING & TREATMENT** organized by **AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE (AAPM) & JINNAH POST GRADUATE MEDICAL CENTER (JPMC)**
- January 19TH 2018 : Workshop on **EXCEL SPREADSHEETS FOR NON-PROGRAMMERS SCIENTISTS** organized by **DEPARTMENT OF PHYSICS , UNIVERSITY OF KARACHI (UoK)**
- March 3rd 2018 : 3rd Medical Physics Workshop on **RADIATION PROTECTION IN THE DESIGN OF RADIOTHERAPY FACILITIES** organized by **DEPARTMENT OF RADIATION ONCOLOGY, DR. ZIAUDDIN CANCER HOSPITAL**
- March 26-30 2018 : Training Workshop on **RADIATION SHIELDING & CALCULATIONS FOR EXPOSURE ROOMS OF MEDICAL FACILITIES** organized by **PAKISTAN NUCLEAR REGULATORY AUTHORITY (PNRA)**
- Sept 27-29 2018 : Workshop on **Radiation Safety and QA in Medical Imaging** jointly organized by **PNRA and AKUH KARACHI**
- Dec 7-9 2018 : Participation in **6TH ANNUAL CONFERENCE OF PAKISTAN SOCIETY OF NUCLEAR MEDICINE**
- May 2 2019 : Participation in Radiation Protection for Health Care Professionals jointly organized by **PNRA and AKUH KARACHI**
- Nov 9th 2019 : Participation in **2nd ANNUAL NATIONAL SYMPOSIUM OF MEDICAL PHYSICS** organized by **DR. ZIAUDDIN HOSPITAL AND UNIVERSITY**
- April 1-3 2021 : Participation in **7TH NATIONAL CONFERENCE OF PSNM** organized by **PAKISTAN SOCIETY OF NUCLEAR MEDICINE**
- May 24-28 2021 : Facilitator in 5 days course on **ENHANCING CLINICAL EFFICIENCIES OF NURSES IN CATH LAB** organized by **LIQUAT NATIONAL HOSPITAL & MEDICAL COLLEGE**

▪ **Distinctions**

- **B.S First Stand First**, Department of Physics UoK.
- Certificate from **Prof. Dr. Atta Ur Rahman** after successful completion of scientific writing test.