

# ZEHRA HASHMI

M-Phil in Physics  
Department of Physics  
N.E.D University of  
Engineering and Technology

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## CAREER OBJECTIVE

Interested in carving a niche as researcher and academician in the field of Physics. Aspiring to be working with a team that believes in continuous growth and development in education; and has opportunities to utilize talents and traits of human resource.

## RESEARCH WORK

- **Study of Radioactive Discharges by Nuclear Medicine Facilities in Karachi Pakistan**
- **Synthesis and Characterization of Ni substituted  $\text{CuFe}_2\text{O}_4$  Spinel Ferrites Nano-particles.**
- **Preparation and Characterization of Zinc Magnesium Phosphate Glasses by Quenching Technique.**

## EDUCATION

- Post-Graduation (MPhil) **N.E.D University** of Engineering and Technology, Department of Physics [**Physics**], 2019, with CGPA **3.7**.
- Graduation **N.E.D University** of Engineering and Technology, Department of Physics [**Applied Physics**], 2017, With CGPA **3.6**.
- Intermediate **Sir Syed Govt. Girls College**, Karachi board of higher education, [**Pre-engineering**], 2013, with **A Grade**.
- Matriculation **Arshi Public School**, Karachi board of secondary education, Science Group [**Computer Science**], 2011, **A-One Grade**.

## INTERNSHIP

- **Atomic Energy Medical Center** (under PEAC Karachi)  
Worked as **Junior Medical Physicist** under Mohammad Salman. Duration is of **2 months**, from June 12 to July 12, 2016. I gather knowledge of *treatment planning of cancer* with the physics of *CT, Conventional Simulator, and Linear Accelerator*.  
**Got the skills of team work, team management, organized work and spirit of humanity.**
- **Pakistan Council of Scientific & Industrial Research**  
Worked as Assistant in the department of Electronics. Duration is of 15 days, from July 15 to July 30, 2016. I gather the knowledge of Electronic ICs and Devices.  
**Got the skills of MULTISIM, time management, self-initiative and self-innovative.**

## WORKING EXPERIENCE

- **NED University of Engineering & Technology:** Co-operative Lecturer in Department of Physics since January 18, 2021.
- **Aligarh Institute of Technology:** Visiting faculty for Applied Physics from Nov, 2018 – Dec, 2020.
- **Happy Palace College:** Visiting faculty for Physics from October – December, 2019.
- **The Educators:** Teacher of Mathematics & Physics from December – October, 2018.
- **Arshi Public School:** Teacher of Science and Mathematics from 2012- 2013.
- **Master Mind Colligate:** Teacher of physics and mathematics from January- May 2012.

## SKILL AND ABILITIES

- |   |   |   |   |
|---|---|---|---|
| ❖ <b>Computer Skills</b>  | ❖ <b>Personal Skills</b>  | ❖ <b>Projects</b>   | ❖ <b>Programming Languages</b>  |
| <ul style="list-style-type: none"><li>• MS Word.</li><li>• MS Excel.</li><li>• MS Power Point.</li><li>• MAT LAB.</li><li>• MULTISIM.</li></ul> | <ul style="list-style-type: none"><li>• Time management.</li><li>• Presentation skills.</li><li>• Communication skills.</li><li>• Leadership skills.</li><li>• Self-initiative.</li></ul> | <ul style="list-style-type: none"><li>• Portable charger.</li><li>• Water level indicator.</li><li>• Power supply.</li><li>• LED chaser.</li><li>• Hovercraft.</li><li>• Heat sensor.</li></ul> | <ul style="list-style-type: none"><li>• C programming.</li><li>• C++ programming.</li></ul> |
|   |   |   | ❖ <b>Languages</b>  |
|   |   |   | <ul style="list-style-type: none"><li>• English.</li><li>• Urdu.</li></ul>                  |

## SEMINARS AND VISITS

- Attended seminar on **Biosafety measures**, by Karachi University on *November, 2017*.
- Attended Seminar on **Quantum Computing**, by Department of Physics, N.E.D University.
- Attended Seminar on **Radiology and physics**, by P.N.R.A on *September, 2017*.
- Attended seminar on **Building Entrepreneur in Kick Start Your Business**, by *NES society* of N.E.D on *March 18, 2016*.
- Attended seminar on **Energy Auditing and conservation**, by Green Electronics Society on *October 12, 2015*.
- Attended workshop of **Aero-mechanics**, organized by *MARC society* on *September 8, 2015*.
- Attended seminar **Good Governance through Prevention of Corruption** on *December 11, 2014*.
- Visited to **PCSIR** research center to get the knowledge about the recent researches.
- Visited to **SUPARCO** research center to get the knowledge about the recent researches.
- Visited to **SIMENS** Pakistan Engineering Company to get the knowledge about the recent work.

## ACHIEVEMENTS AND HONOURS

- Awarded as **BEST SUPERVISOR**, by Ali Garh Institute of Technology on March 6, 2019.
- Awarded as GUEST SPEAKER in the seminar on **INTRODUCTION TO PHYSICS** on *February, 2018*.
- Organized Math & Science activities in **The Educators** from *February-April, 2018*.
- Participated in **Project Exhibition**, *SENTEC society* of N.E.D University on *October, 2016*.
- Participated in **Treasure Hunt**, *SENTEC society* of N.E.D University on *October, 2016*.
- Awarded as **BEST PROMOTIONAL DRIVE**, by Green Electronic Society on April 2, 2016.
- Worked as a **Trainer, fabrication of Solar Panel** on March 28, 2016.
- Participated in **Project Exhibition**, *SENTEC society* of N.E.D University on *August 12, 2015*.
- Participated in **fabrication of Dye- Sensitized Solar Cell**, *Green Society* of N.E.D University on *March 24, 2015*.
- Participated in **speed programming**, *SENTEC society* of N.E.D University on *October 1, 2014*.
- Participated in **Naat Recitation** organized by *Arshi Public School* on *September 6, 2010*.

## HOBBIES AND INTERESTS

- Passionate about books reading, games and music.

## REFERENCES

- **TO BE FURNISHED ON REQUEST**