



Physics section  
School of Sciences  
Maulana Azad National Urdu University (Central University)  
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## DR. ZEENAT FATIMA | Assistant Professor (Guest Faculty)

### CURRENT DESIGNATION/ INVOLVEMENT

Currently working as Assistant Professor (Guest Faculty) in Physics, School of Sciences, Maulana Azad National Urdu University (Central University), Hyderabad, Telangana, India.

### AREA OF SPECIALIZATION

Crystallography & Biophysics

### ONGOING ACADEMIC RESEARCH/PROJECTS

Crystallographic studies and structure-based drug design

### INNOVATION WITH FIELD OF STUDY AND COLLABORATIVE EFFORTS

### ACADEMIC AND ADMINISTRATIVE EXPERIENCE

Guest Faculty, Physics section, School of Sciences, Maulana Azad National Urdu University (MANUU), Hyderabad  
(May 2015 – till date)

Asst. Professor in Hi-Point College of Engineering & Technology, JNTU, Hyderabad.  
(Sept 2005 – June 2008)

### EDUCATIONAL QUALIFICATION

PH. D IN PHYSICS, CAS IN CRYSTALLOGRAPHY & BIOPHYSICS, UNIVERSITY OF MADRAS. CHENNAI (2014)

PH.D THESIS TITLE: CRYSTALLOGRAPHIC STUDIES ON SOME IMPORTANT ORGANIC COMPOUNDS AND STRUCTURE BASED DRUG DESIGN.

SUPERVISOR: PROF. D. VELMURUGAN

M.SC IN PHYSICS, OSMANIA UNIVERSITY, HYDERABAD. (2005)

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TEACHING PROFICIENCY	Various disciplines of Physics for B.Sc (Gen), B.Sc (Hons), B.tech, B.Voc (MIT) and Ph.D
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RESEARCH PUBLICATION DETAILS	<p>1)N-(4-Methoxyphenyl)-2,6-dimethyl-1,3-dioxan-4-amine Zeenat Fatima, Rambabu G, Bandapalli P R, Vijayaparthasarathi V and Velmurugan D, Acta Cryst. (2013). E69, o1490.</p> <p>2)2,6-Dimethyl-N-(2-methylphenyl)-1,3-dioxan-4-amine Zeenat Fatima, Rambabu G, Bandapalli P R, Vijayaparthasarathi V and Velmurugan D, Acta Cryst. (2013). E69, o1561.</p> <p>3)N-(2-fluorophenyl)-2,6-dimethyl-1,3-dioxan-4-amine Zeenat Fatima, Rambabu G, Bandapalli P R, Vijayaparthasarathi V and Velmurugan D, Acta Cryst. (2013). E69, o1524</p> <p>4)N-(4-bromophenyl)-2,6-dimethyl-1,3-dioxan-4-amine Zeenat Fatima, Rambabu G, Bandapalli P R, Vijayaparthasarathi V and Velmurugan D, Acta Cryst. (2013). E69, o1579</p> <p>5)N-tert-Butyl-2-(2,6-dichlorophenyl)-imidazo[1,2-a]pyrazin-3-amine Zeenat Fatima, Srinivasan T, Suman K, Thennarasu S and Velmurugan D, Acta Cryst. (2013). E69, o949–o950</p> <p>6)N-tert-Butyl-2-[4-(dimethylamino)phenyl]imidazo[1,2-a]pyrazin-3-amine Zeenat Fatima, Srinivasan T, Suman K, Thennarasu S and Velmurugan D, Acta Cryst. (2013). E69, o612–o613</p> <p>7)Methyl 2-(2,2-dimethyl-3a,6a-dihydrofuro[3,2-d][1,3]dioxol-5-yl)-4-oxo-4H-chromene-3-carboxylate Zeenat Fatima, Srinivasan T, Naga Siva Rao J, Raghunathan R and Velmurugan D, Acta Cryst. (2013). E69, o1310</p> <p>8)Allyl 2-(2,2-dimethyl-3a,6a-dihydrofuro-[3,2-d][1,3]dioxol-5-yl)-4-oxo-4H-chromene- 3-carboxylate Zeenat Fatima, Srinivasan T, Naga Siva Rao J, Raghunathan R and Velmurugan D, Acta Cryst. (2013). E69, o1257–o1258.</p> <p>9)3-[(E)-2-(4-Chlorophenyl)ethenyl]-5,5-dimethylcyclohex-2-en-1-one Zeenat Fatima, Senthilkumar G, Vadivel A, Manikandan Hand Velmurugan D, Acta Cryst. (2013). E69, o1121</p> <p>10)3-[(E)-2-(2-Methoxyphenyl)vinyl]-5,5-dimethylcyclohex-2-enone Zeenat Fatima, Senthilkumar G, Vadivel A, Manikandan Hand Velmurugan D, Acta Cryst. (2014). E70, o509</p> <p>11)1-[2-(3-Methoxyphenyl)ethyl]pyrrolidine-2,5-dione</p>
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Zeenat Fatima, Selvakumar J, Srinivasan T and Velmurugan D, Acta Cryst. (2013). E69, o1489

12)N-(4-fluorophenyl)-2,6-dimethyl-1,3-dioxan-4-amine

Rambabu G, Zeenat Fatima, Bandapalli P R, Vijayaparthisarathi V and Velmurugan D, Acta Cryst. (2013). E69, o1602.

#### Other publications

(a) Written 5 units in SLM for Electricity and Magnetism, B.Sc II sem, Directorate of Distance Education, Maulana Azad National Urdu University.

(b) Written 4 chapters for Lab manual for waves & optics in SLM for, B.Sc IV sem, Directorate of Distance Education, Maulana Azad National Urdu University.

(c) Video lecture on Vectors for B.Sc I sem, Directorate of Distance Education, Maulana Azad National Urdu University.

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DETAILS OF  
CONFERENCE/SEMINAR  
/WORKSHOP/ FDP  
(ATTENDED/PRESENTED)

*“Molecular Docking studies of a Pyrrolidine derivative against Acetylcholinesterase”* Talk given at **National Urdu Science Congress – 2021**, School of Sciences, Maulana Azad National Urdu University, Hyderabad.

Participated in **International Workshop on Phinix Suite of Solving Macromolecular Structures-2014**, BIF, University of Madras, Chennai.

*“Molecular docking studies of dioxane derivatives against hsp90”* at **6th International Symposium on Recent Trends in Macromolecular Structure and Function-2014**, CAS in Crystallography and Biophysics, University of Madras, Chennai.

*“Insilico analysis of anti-tubercular natural compounds against Mycobacterium tuberculosis catalase peroxidase”* at **Annual Meeting of the Indian Biophysical Society-2012**, CAS in Crystallography and Biophysics, University of Madras, Chennai.

Participated in **41<sup>st</sup> National Seminar on Crystallography-2012**, CAS in Crystallography and Biophysics, University of Madras, Chennai.

Participated in **5th International Symposium on Recent Trends in Macromolecular Structure and Function-2012**, CAS in Crystallography and Biophysics, University of Madras, Chennai.

DETAILS OF KEYNOTE  
SPEAKER/RESOURCE  
PERSON/ SESSION CHAIR  
ETC.

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ACHIVEMENTS

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DETAILS OF SUPERVISION  
(M.PHIL/M.TECH/P.HD.)

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PROFESSIONAL  
MEMBERSHIPS

Member of Board of Studies committee of Physics at MANUU.

Invited member, RAC of Physics at MANUU

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PERSONAL DETAILS

**Father's Name** : Ismail Ali Khan  
**Date of Birth** :  
**Gender** : Female  
**Marital Status** : Married  
**Nationality** : Indian  
**Language** : Urdu, English, Hindi, Telugu, Tamil  
**Known**  
Etc..

Date: 4/7/22

Place: Hyderabad

*(Dr. Zeenat Fatima)*