**CURRICULUM VITAE**

*Department of Physics , School of Physics ACRHEM, University of Hyderabad, Hyderabad, India*

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**Name**: ***Chandan Ghorui***

***Personal Information:***

**Date of Birth:** 18th Febuary 1994

**Nationality:** Indian

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Research Gate-<https://www.researchgate.net/profile/Chandan_Ghorui>

Google Scholar-<https://scholar.google.com/citations?user=cu7oLHIAAAAJ&hl=en>

***Education:***

* **Pursuing PhD** **(Physics**), ACRHEM, School of Physics, *University of Hyderabad*, Hyderabad, 2019 -Still
* **Master of Science** **(Physics),** The University of Burdwan, Rajbati, Golapbag campus, Burdwan, West Bengal,713104 2015-2017; **CGPA:7.15**
* **Bachelor of Science (Physics):** Vivekananda Mahavidyalaya, Post, Mirchoba, Sripally, Chhotonilpur, Burdwan, West Bengal 713103, The University of Burdwan, Rajbati, Golapbag campus, Burdwan, West Bengal,713104, 2012-2015, **60.375% (Ist Class)**
* **Higher Secondary (H.S):** Monteswar Sagar Bala High School, Monteswar, Purba Barddhaman, West Bengal, Under WBCHSE   2012, **68 % (Ist division)**
* o **Secondary  (M.P):** Monteswar Sagar Bala High School, Monteswar, Purba Barddhaman, West Bengal, Under WBBSE   2012, **72% (Ist division)** Top of FormBottom of Form

***Project:***

* **Title: Techniques of tunable long wavelength generation**

**Brief description of the work:** Second harmonic generation of tunable CO2 laser radiation from 9-11 µm spectral range using GaSe crystal.

**Supervisor:** Dr. Subhasis Das

Institute and Place: The University of Burdwan, Laser Laboratory, Burdwan, West Bengal, 713104

**Duration**: 6 months (January-June, 2017)

***Laboratory Traning:***

* **Instruments Handled**: Spectrum Analyser, Operation of CW CO2 and Nd: YAG laser, power energy meter (Gentec, EG-100A), Oscilloscope. Prism Table. Operation of Libra Amplifier (Ti: sapphire laser) and coherent chameleon ultra-II (Ti: sapphire laser), Pyroelectric detector (Gentec-EO, Canada made), power energy meter (Gentec, EG-100A), Oscilloscope. T-Rad USB Lockin. SR830 Lock-in Amplifier. TeraFlash Pro.

***Programming Skill:***

* Matlab programming, Fortran 77, LATEX, C and C++, Python.

Awards/ Fellowshios/Honors:

* Qualified National Eligibility Test (NET) conducted by CSIR, MHRD, Government of India. 2019**: *JRF Award, UGC Ref.No: 1549/CSIR-UGC NET JUNE 2019 (Roll No: 525748) also eligible for Assistant professor****.*
* ***Selected DRDO JRF Fellow, August 2019, ACRHEM, School of Physics University of Hyderabad.***
* ***Selected PMRF Fellows (Prime Minister Fellowship), ACRHEM, School of Physics, Dec-2020-Present, University of Hyderabad.***

***List of Publications:***

(1) Study of optical properties of different grades Indian cement samples using terahertz spectroscopy, **Chandan Ghorui**, Koalla Rajesh, P. Naveen Kumar, A.K. Chaudhary, 28th National Conference on Condensed Matter Physics, ***Springer Nature Book Chapter, ISBN NO: 978-981-16-5406-0 (2021)***

(2) Efficient second harmonic and terahertz generation from BiB3O6 (BIBO) crystal using nano and femtoseconds lasers, **C. Ghorui**, A.M. Rudra, U. Chatterjee, A.K. Chaudhary, D. Ganesh, -***Vol.60, No.19/1 July, 2021/Applied Optics.***

(3) THz -TDS As a Diagnostic Tool for Monitoring the Water Content in Different Coloured Indian Almond Leaves, Nagaraju Menchu, **Chandan Ghorui**, Damarla Ganesh, A.K.Chaudhary, Frontiers in Optics+Laser Science 2021, OSA, 2021.DOI:10.1364/FIO.2021.JW7A.59

(4) Measurement of Refractive index and Absorption coefficient of 3,4,5-Trinitro 1-H Pyrazole using Terahertz Time-domain Spectroscopy, Koalla Rajesh, **Chandan Ghorui**, Shivanand Mangali, Naveen Periketi, A.K.Chaudhary, Frontiers in Optics+Laser Science 2021, OSA, 2021. DOI:10.1364/FIO.2021.JW7A.58

(5) Terahertz time-domain Spectroscopy, imaging, and density functional theory-based studies of 3,4,5 Trinitro 1H Pyrazole, Koalla Rajesh, Naveen Periketi, **Chandan Ghorui**, Shivanand Mangali, A.K.Chaudhary, Journal of Molecular Structure, Vol-1265, 133449,1-10 (2022). DOI:10.1016/j.molstruc.2022.133449

(6) Study of THz time-domain spectroscopy based optical properties and detection of minerals and explosives from soil samples of different origins, **Chandan Ghorui**, A.K.Chaudhary, Naveen Periketi, Koalla Rajesh, 2022 Workshop on Recent Advanced in Photonics, 1-2 DOI:[10.1109/WRAP54064.2022.9758310](http://www.google.com/url?q=http%3A%2F%2Fdx.doi.org%2F10.1109%2FWRAP54064.2022.9758310&sa=D&sntz=1&usg=AOvVaw2nWrTeCy0bveTttoDvddUv)

***Teaching Assistantship:***

1. ***Teaching Assistant****:* I worked as a clinical instructor at the University of Hyderabad and handle Geometrical Optics and Physical Optics lab course for IM. Sc-Optometry students during February-May, 2019.
2. ***Teaching Assistant:*** I worked as a teaching assistant (TA) for the B. Voc. MIT (IV Semester) at the School of Science, Maulana Azad Urdu University during the Semester May-August, 2021. I have taught physics papers along with practical sessions, Electronic devices, and Applications and spent teaching 2 hours per week at this University. (Outside the Campus)
3. ***Teaching Assistant:*** I worked as a teaching assistant (TA) for IM. Sc and M. Sc students at School of Physics, University of Hyderabad during July-December, 2021 Session. I helped my Supervisor Prof. A.K. Chaudhary to take Electricity and Magnetism Lab. and another Prof. G. Manoj Kumar to take Laser Physics Lab and spent more than 14 hours per week in the lab. I have aligned both Laser Physics and Electricity & Magnetism experiments and made PPT regarding the experiment. I assisted Prof. A.K. Chaudhary to prepare PPTs, examined minor, and major exams answer sheets, conducted Quiz exams in google classroom, and also took small classes for the students. (Inside the Campus).
4. ***Teaching Assistant:*** I worked as a teaching assistant (TA) for IM. Sc students at School of Physics, University of Hyderabad during January-June, 2022 Session. I helped my Supervisor Prof. A.K. Chaudhary and another Prof. G. Manoj Kumar to take Heat & Thermodynamics Lab and spent more than 14 hours per week in the lab. I have performed all experiments and made a PPT regarding the experiment. I assisted Prof. A.K. Chaudhary and Prof. G. Manoj Kumar to prepare PPTs, examined minor, and major exams answer sheets, conducted off exams, and also took small classes for the students. (Inside the Campus).
5. **Teaching Assistant:** I worked as a teaching assistant (TA) for the B. Voc. MIT (IV Semester) at the School of Science, Maulana Azad Urdu University during the Semester September-March, 2022. I have taught physics papers along with practical sessions, Electronic devices, and Applications and spent teaching 2 hours per week at this University (Outside the Campus).