

CURRICULUM VITAE

Ms. Aarti

Department of Physics,
Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India
E-mail – aartiahlawat2266@gmail.com, aarti4657@gjust.org

EDUCATION

- ❖ **M.Sc. Physics** (2017-19)
Central University of Haryana,
Mahendergarh, Haryana, India
- ❖ **B.Sc.** (2014-17)
Pt. Neki Ram Sharma Govt. College,
Rohtak, Haryana, India

SCHOLASTIC ACHIEVEMENTS

- ❖ Qualified **GATE 2019** examination in Physical Sciences.
- ❖ Secured **All India Rank-180** in **CSIR-NET (Dec 2018)** examination in Physical Sciences.

ACADEMIC EXPERIENCE

Assistant Professor, **Aug 2019- Present**
Department of Physics,
Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India

Courses Taught

| Subject | Level |
|----------------------------------------|-------|
| Classical Mechanics | PG |
| Heat and Thermodynamics | UG |
| Introduction to Materials | UG |
| Oscillations, Waves and Optics | UG |
| Semiconductor Physics | UG |
| Introduction to Electromagnetic Theory | UG |
| Mechanics | UG |
| Atomic and Molecular Physics | UG |

RESEARCH EXPERIENCE

- **Ph.D.** **Jan 2022- Present**
Topic- **“Structural Investigation and Dielectric Response of Calcium based ACTO Ceramics”**
Supervisor-
Prof. Neetu Ahlawat
Department of Physics,
Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India.
- **Master’s Thesis Project** **Jan- June 2019**
Topic- **“Synthesis and Optical Characterization of Ruby”**
Supervisor-
Dr. S.M. Gupta
Scientific Officer ‘G’
Optical and Dielectric Ceramic Laboratory
Laser Materials Development and Devices Division,
Raja Ramanna Centre for Advance Technology (RRCAT), Indore, M.P. India
This project deals with:
- ❖ Nano-particle synthesis of Cr-doped-alumina (known as Ruby) using co-precipitation technique for lasing medium along with its characterization.
 - ❖ Controlling particle size distribution of prepared samples.
 - ❖ Densification mechanisms with the help of dilatometer to achieve more than 99.9% of theoretical density.
 - ❖ Study of Microstructures of ruby and its optical characterization.

Skills Learned – XRD, SEM, Optical microscopy and Photoluminescence.

CONFERENCE AND WORKSHOP

- ❖ Presented Technical poster on “Effect of different sintering methods on structural properties of Sr and Mg co-doped CCTO electroceramics” in “International conference on Emerging materials and Quantum Photonics (ICEMQP-2024) organized by Department of Physics, Guru Jambheshwar University of Science and Technology, Hisar, Haryana during **07-09 November 2024**.”
- ❖ Presented Technical poster on “Structural Investigation of co-doped CCTO Ceramics” in “National Conference on Photonics and Materials Science (NCPMS-2024)” organized by Department of Physics, Guru Jambheshwar

University of Science and Technology, Hisar, Haryana during **14-15 March 2024**.

- ❖ Participated in “International Conference on Condensed Matter and Device Physics (**ICCMDP-2023**)” organized by Department of Physics, School of Energy Technology, Pandit Deendayal Energy University (PDEU), Gandhinagar, Gujarat during **27-28 September 2023**.
- ❖ Attended one day workshop on “Emotional Resilience for Happiness and Well-Being” organized by Centre of Counseling and Well-Being, Guru Jambheshwar University of Science and Technology, Hisar, Haryana on **24 August 2023**.
- ❖ Participated in “5-Days Hands-on Workshop and Training on ICPMS, FE-SEM, EDS and EBSD Analysis” organized by Institute Instrumentation Centre (IIC), Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab during **12-16 September 2022**.

EXTRA CURRICULUM ACTIVITIES

- ❖ Participated in One Week Faculty Development Program on Recent Trends in AI, ML and ICT organized by Guru Jambheshwar University of Science and Technology, Hisar, Haryana during **6-10 January 2020**.
- ❖ Presented Technical poster at “ANUGOONJ 2K19” organized by RRCAT, Indore on **18 March 2019**.
- ❖ Participated in 25th State Level Ambulance Competitions organized by St. John Ambulance Brigade, No. 24-Haryana, Chandigarh at Narnaul, Haryana during **16-19 November 2018**.
- ❖ Participated and secured third position in the event (group song), Annual Cultural Fest, Central University of Haryana during **25-26 February 2018**.
- ❖ Participated and secured Grade-A in Computer Education Examination organized by Pt. N.R.S. Govt. College, Rohtak during **May 2015**.
- ❖ Participated in Problem Solving Assessment Class-XI (**2012-13**) organized by Central Board of Secondary Education, Delhi.
- ❖ Participated in Kho-Kho competition and secured Runner position during Cluster Sports Meet-2010 held at Jawahar Navodaya Vidyalaya, Bhusawal, Dist. Jalgaon (M.S.) during **26-28 August 2010**.
- ❖ Participated in the Independence Day Celebration organized by District Administration, Jhajjar held on **15 August 2007**.

COMPUTER SKILLS

- ❖ MS Office
- ❖ Windows 7/8/8.1/10

- ❖ Basic HTML
- ❖ Origin

LANGUAGES KNOWN

- ❖ Hindi
- ❖ English

REFERENCES

- ❖ **Prof. Neetu Ahlawat**
Department of Physics,
Guru Jambheshwar University of Science and Technology, Hisar, Haryana.
Mob: 8607500476, neetuahlawat@gjust.org
- ❖ **Dr. S.M. Gupta**
Scientific Officer, Optical and Dielectric Ceramic Laboratory, Laser Materials
Development and Devices Division, Raja Ramanna Centre for Advanced
Technology, Indore.
Telephone: 07312488662, surya@rrcat.gov.in
- ❖ **Prof. Suneel Kumar**
Department of Physics, Central University of Haryana, Mahendergarh-123031
(Haryana).
Mob: 9463054791, suneelkumar@cuh.ac.in

DECLARATION

I hereby, declare that all the information given above is true to best of my knowledge.

Date-

Place:

Ms. Aarti