

Curriculum Vitae

Dr. Subhash Chouhan

Assistant Professor

Department of Physics, APS University, Rewa (M.P.)

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Carrier Objective:

I wish to explore my teaching & research potential through continuous learning in a reputed organization to achieve self-actualization and perform my duties sincerely for the betterment of organization.

Academic Qualifications

Examination passed	Year	University/Board	College/Institute/school	Division (in %)
Ph.D. (Physics)	2022	Vikram University, Ujjain	School of Studies in Physics, Vikram University, Ujjain (M.P.)	74% (in Ph.D. Course Work)
B.Ed. (Physics as a specialize subject)	2015	Vikram University, Ujjain	Sarswati Education College, Ujjain (M.P.)	77.25%
P.G.D.C.A	2014	Makhanlal University, Bhopal	Best way computer, Ujjain (M.P.)	67.60%
M.Sc. (Physics)	2013	Vikram University, Ujjain	School of Studies in Physics, Vikram University, Ujjain (M.P.)	73.04%
B.Sc. (Physics, Mathematics, Computer Application)	2011	Vikram University, Ujjain	Govt. Madhav Science College, Ujjain (M.P.)	74.25%
Higher secondary (PCM)	2008	M.P. Board, Bhopal	Govt. B. H. S. School, Aron, Distt. Guna (M.P.)	73.33%

High school	2006	M.P. Board, Bhopal	Govt. B. H. S. School, Aron, Distt Guna (M.P.)	76.60%
Extra Qualifications	✓ CSIR-UGC NET LS(Dec-2019) with AIR-194 ✓ CTET Qualified (Sep-2015)			

Ph.D. Research Details:

- Registration Number: B081886
- RDC Date: 28/11/2016
- Research Title: Study of properties induced by the surface modification in semiconductors
- Supervisor: Dr. Swati Dubey, Associate Professor & Head- School of Studies in Physics, Vikram University, Ujjain (M.P.)
- Date of Ph.D. Viva Voce: 12/02/2022

Research Interests:

Nonlinear Laser- Plasma Interactions, Relativistic Effects in Semiconductor Plasma, Ion Implanted Semiconductor Plasma, Computational Physics, Material Science.

Upcoming Research Interests Areas:

Relativistic Effects in Ion Implanted Semiconductor Plasma, Quantum Effects in Semiconductor Plasma and IISP, Computational Simulation for Theoretical Research in IISP.

Life Membership:

1. Life member of Plasma Physics Society of India (PSSI)
2. Life Member of Physics Club, S.S. in Physics, Vikram University, Ujjain (MP)
3. Life Member of Physicists Alumni Association (PAA), S.S. in Physics, Vikram University, Ujjain (MP)

Teaching Experience:

❖ At School Level

- ✓ 1 year teaching experience at School Level (Class- VI-VIII) as UDT (Duration 2014-15)
- ✓ 2 year teaching experience at School level (Class 11-12th) As a Guest Teacher in Govt. Urdu Girls H.S. School, Madargate, Ujjain (Duration 2016-18)
- ✓ 6 Month teaching experience at School level (Class 6-8th) As a Middle School Teacher (Regular Teacher) in Govt. EPES M.S. Bargadi, Barod Distt. Agarmalwa (Duration April 2023-Oct 2023)

❖ At University Level

- ✓ 4 year teaching experience at PG. Level (As a Ph.D. Research Scholar at School of studies in Physics, Vikram University Ujjain, M.P. (Duration 2017-2021).
- ✓ 1 year teaching experience at UG/PG (Class: B.Sc. & M.Sc. Forensic Science) As a Visitng Faculty of Forensic and Ballistic Physics at S.S. in Forensic Science and S.S. in Physics, Vikram University, Ujjain, M.P. (Duration 2021-22)

- ✓ Working as Assistant Professor (Physics) at Department of Physics, APS University, Rewa (M.P.) (Since oct 2023 to Present)
- ❖ **At College Level**
- ✓ 2 year teaching experience at UG. Level (As a Guest Faculty) (Duration 2021-2023).

Research Publications:

1. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “*Absolute Instability of Acoustic Wave in Semiconductor Plasma: Relativistic Effects*”. **Radiation effects and defects in solids**, **176**, 517-528 (2021); Doi: 10.1080/10420150.2021.1878519.
2. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “*Effect of Nonrelativistic and Relativistic Electron Mass Variation on Absorption Characteristics in Magnetized Semiconductor Plasma: A Comparative Study*”, AIP Conference Proceedings **2224**, 040011 (2020).
3. Swati Dubey, S. Ghosh and **Subhash Chouhan**, , “*Absolute Instability of Acoustic Wave in Semiconductor Plasma: Relativistic Effects*”. (Abstract Published in ICPSA-2019 Conference Abstract book with **ISBN: 978-93-5391-891-0**) (2020).
4. **Subhash Chouhan**, Swati Dubey and S. Ghosh, “*Effect of Relativistic Mass Variation of Electron on Nonlinear Dispersion Characteristics in Magnetised Semiconductor Plasmas*” AIP Conference Proceedings **2142**, 050008 (2019).
5. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “*Influence of External Magnetic Field on Operational Characteristics of an InSb-Nd:Yag System*” The Vikram Journal of Science **1** (1), 43-51 (2019).(Journal of Vikram University, Ujjain).
6. **Subhash Chouhan**, Swati Dubey and S. Ghosh, “*Nonlinear Dispersion Characteristics of an InSb-Nd:YAG System: Magnetic Field Effects*” Journal of Emerging Technologies and Innovative Research (JETIR), **Vol. 6, Issue 5**, 184-188 (2019).
7. **Subhash Chouhan**, Swati Dubey and S. Ghosh, “*Effect of Relativistic Mass Variation of Electron on Nonlinear Absorption in Magnetised Semiconductor Plasmas*” AIP Conference Proceedings **2100**, 020153 (2019).

8. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “*Parametric Amplification Characteristics of Ion Implanted Semiconductor Plasma: Relativistic Effect*”. (Communicated with Radiation Effects and Defects in Solids).
9. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “*Raman Amplification Characteristics in Semiconductor Plasma Medium: Relativistic Effects*”. (Communicated with Physics of Plasmas).
10. **Subhash Chouhan**, Swati Dubey and S. Ghosh, “*Laser-Ion implanted semiconductor plasma interaction : Effects of participating colloids on second-order nonlinearities*”. (Communicated with Physica Scripta).
11. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “*Review on relativistic effects in Semiconductor Plasma Medium*”. (Communicated with AIP Conference Proceedings).

Research Work Presented in National/International Conferences/Seminars:

International Conferences/Seminars:

1. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “*Absolute Instability of Acoustic Wave in Semiconductor Plasma: Relativistic Effects*” at **International Conference on plasma science and applications (ICPSA-2019)** Nov,11-14, 2019, **University of Lucknow**, Lucknow (U.P.)
2. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “*Raman Amplification Characteristics in Semiconductor Plasma Medium: Relativistic Effects*” at **International BILTEK Symposium of Current Studies on Science, Technology & Social Sciences**, June 19-20,2020,Adana, **Turkey**.
3. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “*Effect of Relativistic Mass Variation of Electron on Raman Amplification Characteristics in Magnetised Semiconductor Plasmas*” at **International E-Conference on “Plasma Theory and Simulation (PTS-2021)”**, Sep 14-15,2020,**Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) India**.

4. Swati Dubey, S. Ghosh and **Subhash Chouhan**, “Laser driven acoustic wave amplification in ion implanted semiconductor plasmas: Relativistic effects” in the **13th International Conference on Plasma Science and Applications (ICPSA-2020)**”, Dec 26– 28, 2020 Jointly organised by School of Physical Sciences , Ravenshaw University, Cuttack & AAAPT.
5. **Subhash Chouhan**, Swati Dubey and S. Ghosh and, “*Laser-Ion implanted semiconductor plasma interaction : Effects of participating colloids on second-order nonlinearities*” in the **13th International Conference on Plasma Science and Applications (ICPSA-2020)**”, Dec 26– 28, 2020 Jointly organised by School of Physical Sciences , Ravenshaw University, Cuttack & AAAPT.

National Conferences/Seminars:

1. **Subhash Chouhan**, Swati Dubey and S. Ghosh, “*Effect of Relativistic Mass Variation of Electron on Nonlinear Absorption in Magnetised Semiconductor Plasmas*” at **National Conference on Physics and Chemistry of Materials (NCPCM-2019)**, Dec. 27-28, 2019 Organised by Govt. Holkar Science College, Indore (M.P.).
2. Swati Dubey, S. Ghosh and **Subhash Chouhan**, , “*Effect of Nonrelativistic and Relativistic Electron Mass Variation on Absorption Characteristics in Magnetized Semiconductor Plasma: A Comparative Study*”, **National Conference on Emerging Interfaces of Physical Sciences and technology (EIPT-2019)**, Aug 29-30, 2019, Organised by S.S. in Physics, Vikram University, Ujjain.

Workshops Attended:

1. Workshop on “**Optics**” at School of Studies in Physics, Vikram University, Ujjain, 4 March 2016.
2. Workshop on “**Techniques and Instrumentation in Materials Research (TIMR)**” Organized by UGC-DAE, CSR, Indore, DAVV, Indore, 21-22, August, 2017
3. Workshop on “**Basic Experimentation Techniques in Physics**” organized by School of Studies in Physics, Vikram University, Ujjain, 30-31 Aug 2017.

4. Workshop on “**Designing of Innovative Experimental Tools in Physics**” organized by School of Studies in Physics, Vikram University, Ujjain, 26-27 Feb 2018.
5. Workshop on **Vikram Sanmvat aur Kal Ganna Padhhati (Vikramotsav-2018)** at Ujjain Taramandal, organized by MPCST Bhopal, 15 march 2018.

Personal Information

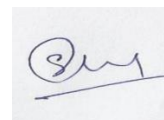
Full Name	Subhash Chouhan
Date of birth	06/11/1990
Nationality	Indian
Gender	Male
Marital Status	Married
Father's name	Dr. Ramchandra Chouhan Associate Professor (Economics) Govt. B.K.S.N. College, Shajapur, Distt. Shajapur (M.P.)
Mother's name	Mrs. Bhuri Bai Chouhan
Office address	Department of Physics, APS University, Rewa (MP)486003

Declaration

I hereby affirm that the information furnished in this resume is true and correct; I will responsible for any wrong information.

DATE: 08/02/2024

Place- Ujjain (M.P.)



Signature