



## PROFILE

1. Name : Dr. Aditya Shravan Shende
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4. E-mail address : [aadityashende017@gmail.com](mailto:aadityashende017@gmail.com)
5. Designation : Assistant Professor
6. Department : Physics
7. Date of Birth : 14/05/1991
8. Area of specialization : Computational Condensed Matter Physics, Density functional Theory, Topological Materials, Computational Simulation
9. Academic qualification : M.Sc. (Physics), PhD (VNIT, Nagpur), SET-2018, GATE-2017, JEST-2017,
10. Membership of Academic Organizations:
11. Seminars/ Conferences/ Symposia/ Conferences organized/attended/participated
  - Number of Books Published ---
  - Number of Edited Books ---
  - Number of papers published in journals 03
    - **International**
      1. **Pressure driven Weyl-topological insulator phase transition in Weyl semimetal SrSi<sub>2</sub>)**
      2. **First-principles prediction of topological Dirac semimetallic phase in NaHgX (X= As and Bi)**
      3. **Substrate orientation dependent structural, electronic and magnetic properties of V and Cr linear chains**

- Number of Paper presented in conference 01
  - **International** (3<sup>rd</sup> International Conference on Condensed Matter and Applied Physics (ICC-2019))

**First-principle based thermoelectric properties of Weyl semi-metal SrSi<sub>2</sub>**

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- Number of Conferences/Workshops Attended
    - **International** 04
1. International workshop and conference on the Evolution of Electronic Structure Theory and Experimental Realization, jointly organized by SRM-IST and IIT Madras (India) on December 11 - 12, 2018.
  2. The 3rd International Conference on Condensed Matter & Applied Physics (ICC 2019) held at Govt. Engineering College, Bikaner, Rajasthan during October 14-15, 2019.
  3. International workshop and conference on Evolution of Electronic Structure Theory and Experimental Realization, jointly organized by SRMIST KTR (India), IIT Madras (India) and Uppsala University (Sweden) on December 14 - 18, 2020 in webinar mode.
  4. 6<sup>th</sup> International Conference on Nanoscience and Nanotechnology- ICONN2021 organized by the Department of Physics and Nanotechnology, SRM-IST (India) February 01-03, 2021 in virtual mode.

○ **National** 03

1. Participated in Theme meeting on XMISR at RRCAT, Indore held on September-2017.
2. Participated in Modelling and Simulation in Materials Science and Engineering Workshop (MSME 2018) organized by Sathyabama Institute of Science and Technology, Chennai during June, 2018.
3. Participated in the Skilled Development Program in Density Functional Theory, organized by the National Chemical Laboratory, Pune (NCL, Pune 2018).
4. The Lecture series on Numerical Methods and Computer Programming (NMCP- 2018) was held at UGC-DAE CSR, Indore during August 6-10, 2018.

**12. Research Activity Ph.D.:**

○ **Awarded**

**Thesis Title: Exploration and prediction of topological insulators and semimetals: First-principles density functional theoretical study**

13. University Exposure: Visvesvaraya National Institute of Technology (VNIT), Nagpur

14. Awards:

- I. Awarded first prize in Intercollegiate Seminar Competition organized by B. P. Science College, Digras.
- II. Awarded second prize in poster presentation competition held on 29-09-2014 organized by physics society SGBAU Amravati
- III. Awarded the third rank in NSD-2016 at SGBAU, Amravati for Quiz Competition
- IV. Prof. S. K. Mahajan Award for Excellence in Mathematics for the year 2013-14.

15. Patent:

16. Teaching Experience

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|------------------|-----------------------|
| ○ Post Graduate  | --- 04 Months         |
| ○ Under Graduate | --- One and Half Year |

17. Other Information

**Professional & Technical Skills**

- **Operating systems:** windows 2000/2003/ XP/ 7/ 8/8.1/10, LINUX (Ubuntu).MS-Office.
- Internet applications.
- Software known: VASP, Quantum Espresso, Wien2k, BoltzTrap, Wannier90 and WannierTools
- Languages known: C, C++, MATLAB, Scilab, Python.
- Machines Handling- SEM, X-ray Lithography.



Signature