

**Dr. Tushar Somanath Salve** (M.Sc., Ph.D.)

Assistant Professor in Electronic Science,  
SNJB's KKHA Arts, SMGL Commerce & SPHJ Science College,  
Neminagar, Chandwad - 423101, Dist. Nashik (Maharashtra).

**Contact:** +91 7798973554, +91 9021478561,

**E-mail ID:** salve.tsacs@snjb.org / tssalve@gmail.com



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### Academic Qualifications

- **Ph.D. in Materials Engineering from Politecnico di Milano, Italy (2013)**  
**Title of Thesis:** Pulsed Laser Deposition of Silicon Nanostructures for Photovoltaic Applications
- **M.Sc. in Electronic Science from Pune University (2007)** at Department of Electronic Science, University of Pune (A Grade)
- **B.Sc. in Electronic Science from Pune University (2005)** at Arts, Comm. & Science College, Satana (73%)

### Employment Details

- **Assistant Professor in Electronic Science** (Full Time, Regular) at KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad, Dist Nashik, Maharashtra (5 Sept. 2013 - Till date)
- **Junior Research Fellowship** at School of Energy Studies, University of Pune (4<sup>th</sup> Sept. 2007 to 15<sup>th</sup> June 2007)

**Field of Specialization:** Materials Engineering

### Thrust Areas of Research

- Si-nanocrystal synthesis for PV applications
- Si-QD synthesis for PV applications
- Multilayer-structured Solar Cells
- Dye-Sensitized, Perovskite Solar Cells
- Instrument Designing

### Minor Research Projects

- Band gap engineering of absorbing material's quantum dots (QDs) for application in multilayer structured Solar Cells sponsored by UGC (WRO), Pune (2014-16, Rs. 2.9 Lakh)
- Synthesis and Characterization of dye-sensitized solar cell: Quinones derivatives as a photosensitizer on TiO<sub>2</sub> nanowires as photoanode sponsored by Pune University, Pune (2014-16, Rs. 2 Lakh)
- **Ongoing:** Perovskite-Perovskite based Tandem Solar Cells sponsored by Savitribai Phule Pune University, Pune (2024-26, Rs. 3 Lakh)

### Publications

- Research Articles in Journals : 05
- Research Articles in Proceedings : 02
- Books/ Book Chapters : 03

**Citation Index: 37**

**h-index: 3**

**i10-index: 1**

### Academic responsibilities held

- Head, Startup and Innovation Cell (2019- till date)
- College Exam Officer (2021-2024)
- Head, Department of Electronic Science (2013-2021)
- Cultural coordinator (2019-2022)
- Coordinator- B. Voc. in Renewable Energy Management
- Coordinator- Solar rooftop project

### Conferences/Seminars/Workshops/Symposia

- Organizing Secretary/Convener : 03
- Paper Presentation (Oral/Poster) : 04
- Participation : 09

### Orientation, Refresher Course, FDP, STC, Training Workshops (at least One week)

- **Faculty Development Program** for Senior Faculty of Science (Electronic Science), 12/05/2014 to 18/05/2014, KTHM College, Nashik
- **Orientation Course** at UGC-HRDC, University of Kashmir, Srinagar (J&K) from 05/11/2015 to 04/12/2015 with 'A' Grade.
- **Refresher Course** on '-Recent Trends in Physics of Materials Science and Technology', 17/07/2017 to 05/08/2017, UGC-HRDC JNTU, Hyderabad with 'A' Grade.
- **Faculty Development Program** on 'NAAC: AQAR Submission in the revised format' organized by Rashtriya Uchcharat Shiksha Abhiyan (RUSA), 01/02/2021 to 06/02/2021
- **Faculty Development Program** on 'ICT Tools for Teaching, Learning Process and Institute', MeitY Govt. of India, 15/03/2021 to 26/03/2021
- **Refresher Course** on 'Managing Online Classes & Co- creating MOOCs 13.0', Ministry of Education, 06/04/2021 to 20/04/2021
- **Refresher Course** on 'Contemporary Development Trends in Materials Science and Engineering', UGC HRDC Hyderabad, 09/08/2021 to 24/08/2021
- **Short Term Program** in 'Yoga and Wellness' MMTTC, Kumaun University, Nainital, Uttarakhand, 18/10/2024 to 24/10/2024

### Scholarships/Awards/Achievements

- Best Oral Presentation Award, International conference on 'Integrative Nanotechnology Perspectives for Multidisciplinary Applications', 16-18 Jan. 2022
- Dr. D. S. Kothari Post-Doctoral fellowship, DST Govt. of India (Awarded in **2013** but got selected as Asst. Professor at present institute)
- Erasmus Mundus External Cooperation Window, Lot 15 (**15-06-2009 to 15-04-2012**) for PhD at Politecnico di Milano, Milan-Italy.
- Junior Research Fellowship (JRF) at School of Energy Studies, funded by ISRO (**04-09-2007 to 04-06-2009**) University of Pune, Pune-India.
- Middle School Scholarship, Govt. of Maharashtra – India (**15-08-1994 to 15-04-2000**)

### Membership in Professional Bodies/Scientific Societies/Editorial Board/Educational Trust

- **Life Member**, Indian Science Congress Association (ISCA), Kolkata (WB) India
- **Life Member**, Society for Promotion of Excellence in Electronics Discipline (SPEED)