




# DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Accredited NBA, NAAC with A+, New Delhi

<b>Faculty Name</b>	<b>MANDAR JATKAR</b>	
<b>Academic Designation</b>	<b>Assistant Professor</b>	
<b>Educational Qualification</b>	<b>BE, M. Tech, (Ph.D.)</b>	
<b>Experience in Years</b>	<b>3.1</b>	
<b>Area of Interest</b>	<b>Nanoelectronics, VLSI</b>	
<b>Email ID</b>	<b>jatkarmandar@gmail.com</b>	

## Educational Details

- Ph.D. - Indian Institute of Information Technology Vadodara (Thesis Submitted).
- M.Tech in Digital Electronics and Communication System, VTU Belagavi.
- B.E in Electronics and Communication Engineering, VTU Belagavi.

## Personal Details

- Hobbies: Traveling, reading books
- Languages Known: English, Kannada, Hindi

## Professional Experience

- Worked as Teaching Assistant in Indian Institute of Information Technology Vadodara from 01/08/2018 to 01/03/2022.
- Worked as Assistant Professor in NMIMS University Mumbai, Maharashtra from 01/06/ 2017 to 24/07/2018.
- Worked as Assistant Professor in Vivekanand Education Society's Institute of Technology Mumbai, Maharashtra from 22/07/2015 to 30/04/2017.
- Worked as Assistant Professor in S S Jondhale College of Engineering Mumbai, Maharashtra from 01/01/ 2015 to 31/05/2015.

## Publications

### International Journals(SCI):

- Mandar, J., Jha, K., & Patra, S. "First-principles investigation of F-functionalized ZGNR/AGNR for nanoscale interconnect applications". Journal of Computational Electronics, vol-20, pp-1-10. DOI: 10.1007/s10825-021-01714-7.

- Mandar, J., Jha, K., & Patra, S. "Fe-functionalized zigzag GaN nanoribbon for nanoscale spintronic/interconnect applications". Applied Physics A, 127(6). DOI: 10.1007/s00339-021-04536-3.
- Mandar, J, K. K. Jha & S. K. Patra, "DFT Investigation on Targeted Gas Molecules Based on Zigzag GaN Nanoribbons for Nano Sensors," in IEEE Journal of the Electron Devices Society, vol. 10, pp. 139-145, 2022, DOI: 10.1109/JEDS.2022.3144014.
- Mandar, J, K. K. Jha & S. K. Patra, "Fermi Velocity and Effective Mass Variations in ZGaN Ribbons: Influence of Li-Passivation," in IEEE Access, vol. 9, pp. 154857 -154863, 2021, DOI: 10.1109/ACCESS.2021.3128294.
- Mandar, J, K. K. Jha & S. K. Patra, "First Principle Investigations on Gas Molecules (CO<sub>2</sub>, CO, NO<sub>2</sub>, No and O<sub>2</sub>) Using Armchair GaN Nanoribbons for Nano Sensor Applications," in IEEE Sensors Journal, vol. 22, no. 5, pp. 3896-3902, 1 March1, 2022, DOI: 10.1109/JSEN.2022.3144018.

#### **International Conferences:**

- R. Rambola and M. Jatkar, "An Effective Synchronization of ERP in Textile Industries," 2018 Second International Conference on Electronics, Communication and Aerospace Technology (ICECA), 2018, pp. 969-973, DOI: 10.1109/ICECA.2018.8474686.
- Mandar, J. "Design And Simulation Of Dual Channel High Voltage Power Amplifier Using PA93", In International Conference on Information Communication Engineering. ICICE, 2013.

#### **National Conferences:**

- Mandar, J. "Design And Simulation Of Single Channel High Voltage Power Amplifier Using PA93". In National Conference on Communication and Image Processing. NCCIP.

#### **Conference Attended**

- Participated in National Conference on Communication and Image Processing
- Participated in National Conference held by Sri Bhagawan Mahaveer Jain College of Engineering Bangalore.
- Participated in National Conference "Antenna and its applications" held by Visvesvaraya Technological University Regional Center Bengaluru.

## Workshop Attended

- Attended orientation Programs in VESIT 2015 on the subject of Microwave and Radar Engineering.
- Completed Foundation Program in ICT for Bombay(Indian Institute of Technology Bombay).
- Completed IIT BombayX: FDP201x Pedagogy for Online and Blended Teaching Learning Process.
- Attended orientation Programs in VESIT 2015 on the subject of Microwave and Radar Engineering.

## Academic Activity

- IEEE Coordinator
- NAAC
- NBA

## Faculty Development Activity/Workshops

- Completed AICTE Training And Learning (ATAL) Academy Online FDP on "Novel Materials" from 2020-11-2 to 2020-11-6.
- Completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Machine Learning Applications in Micro-Nano VLSI Technologies" from 2021-06-21 to 2021-06-25.
- Attended Faculty improvement program in VESIT faculty held between 4th July to 9th July 2016.

## Contact Details

**Assistant Professor**, Department of Electronics and Communication Engineering  
Dayananda Sagar Academy of Technology & Management  
Udayapura, Kanakapura Road  
Bengaluru-560082  
Mail ID: jatkarmandar@gmail.com  
Phone No.: 8108642937