

## Faculty CV – Dr. Lenina SVB

### 1. Personal Information

- **Name:** Dr. Lenina SVB
- **Position:** Assistant Professor and coordinator Centre of Excellence
- **Department:** Electronics and Telecommunication Engineering
- **Institution:** Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded, Maharashtra, India
- **Contact Information:** Office Centre of Excellence, EXTC Department, SGGSJET.

Home: Flat No. 103, Sai Heights, Near Zulelal Apartment, Purusharth Nagar,  
Near IKON Hospital, Nanded, MS, India. 9765895217, leninab93@gmail.com

### 2. Educational Background

- **Degrees:**
  - **B.E.** – Electronics Engineering (2001)
  - **M.E.** – Electronics Engineering (2005)
  - **Ph.D.** – Electronics Engineering (2012)
- **Postdoctoral Experience:** NA
- **Certifications:**
  - Registered Indian Patent Agent (INPA 2625)
  - Various NPTEL certifications in Digital Electronics, IoT, Patent Drafting, Programming, Industry 4.0, etc.

### 3. Research Interests

- **Areas of Expertise:**
  - Image Processing, Biometrics, Filter Design, Spectral Analysis, Signal Processing, Intellectual Property Rights (IPR), Music, Internet of Things (IoT), Scientific Astrology.
- **Ongoing Projects:**
  - AI-based Brain Tumor Detection
  - Performance Evaluation of ChatGPT
  - Societal Health Systems

- Intellectual Property and Patents
- **Interdisciplinary Work:**
  - Translation of NPTEL lectures from English to Marathi
  - Collaboration in AI and IoT
  - Health and Yoga

#### 4. Teaching Experience

- **Courses Taught:**
  - Digital Electronics
  - Digital Image Processing
  - Digital Signal Processing
  - Internet of Things
  - Entrepreneurship and IP Strategy
  - Industry 4.0 and Industrial IoT
  - Programming in C++, Python
  - Analog Circuits, Basic Electronics, Numerical Methods, VLSI Design, Principles of Communication Engineering. Network and Lines etc
- **Course Development:**
  - Translated 100+ NPTEL lectures into Marathi
  - Developed innovative teaching strategies and tools
  - Designed Syllabus for courses like IOT, IPR, Machine Learning, DCN, etc

#### 5. Publications and Presentations

(Google Scholar link [Dr Lenina SVB - Google Scholar](#))

- **Books:**
  - *MATLAB: Easy Way of Learning* (PHI Private Ltd, 2016)
  - *A Bag Full of Honesty* (Notion Press, 2019)
- **Journal Articles:**
  - 17+ publications in UGC Care, Scopus, IEEE, and Springer-indexed journals
- **Conference Papers:**

- 17+ papers presented at international and national conferences
- **Book Chapters:**
  - "Brain Tumor Detection with Artificial Intelligence" (Springer, 2023)
  - "AI-Based Approach for Brain Tumor Detection and Classification" (Taylor & Francis, 2022)
  - "Recent Trends in iris recognition, Pattern Recognition and Biometrics" (Springer Publications, 2011)
- 05 Patents Filed
- 01 Design Granted
- 01 Trademark Granted
- 01 Startup Recognition
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- **Editorial Work:**
  - Reviewer for journals and conferences

## 6. Awards and Honors

- **Grants:**
  - Multiple research grants for AI and IPR projects
- **Awards:**
  - Shikhak Ratna Award 2024
  - Life Time Achiever from Maharashtra Andha Shraddha Nirmulan 2024
  - Second Prize - ECOSAFE Piggy Bank Design (IEEE PES DAY 2023)
  - Best Poetry - Akhil Bharatiya Marathi Sahitya Parishad, Pune (2021)
  - IEEE YESIST12 Maker Fair Finalist (2020)
  - Best Invention - World Intellectual Property Day, RGNIPM, Nagpur (2019)
- **Fellowships:**
  - Woman Scientist-C (WOS-C) TIFAC Fellowship, DST, India

## 7. Professional Experience

- **Administrative Roles:**
  - Coordinator Centre of Excellence
  - Member Institute Woman Grievance Redressal Cell

- Secretary Departmental Information Technology Committee (DITC-2025)
- Vice President, Institute Innovation Council (IIC)
- IPR expert, Institute Innovation Council (IIC)
- AICTE Idea Lab Guru
- Former Associate Dean, Student Affairs
- In-charge Head, EDCILPMO Lab
- **Industry Collaboration:**
  - Founder & Woman Director, Faculty-Student Startup (DIPP24849 under Startup India)
  - Consulting work in IPR and entrepreneurship, Startups, Scientific Astrology

## **8. Supervision and Mentoring**

- **PhD/Master's Supervision:**
  - Recognized PhD Supervisor at SRTMUN
  - Supervised multiple B. Tech and M. Tech Projects
  - PhD students as external expert (02) PhD on going (01)

## **9. Professional Memberships**

- **IEEE (No. 94310317)**
- **Institution of Engineering and Technology (IET-1100329860)**
- **Indian Society for Technical Education (ISTE-LM 78992)**
- **Member, Institute Innovation Council (IIC)**
- **Mentor, School Innovation Council (SIC)**

## **10. Miscellaneous**

- **Languages Spoken:** English, Marathi, Hindi, Telugu
- **Skills:** Intellectual Property Rights, AI & Machine Learning, Programming (Python, C++), Data Analysis, Law
- **Personal Interests:**
  - Scientific Astrology
  - Yoga Practitioner

- Indian Classical Music (Sangeet Visharad)
- Public Speaker (500+ expert talks on IPR, startups, entrepreneurship, societal issues, and women empowerment)