Format for (Faculty CV)

1. Personal Information

- **Name**: Ms. Shweta Avinash Sakle

- **Position**: Assistant Professor (Contractual Visiting Faculty)

- **Department**: Electronics and Telecommunication

- **Contact Information**: [shweta.pandav@gmail.com/sasakle@sggs.ac.in](mailto:shweta.pandav@gmail.com), Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded.

2. Educational Background

- **Degrees**:

   1. M. Tech (Electronics), Swami Ramanand Teerth Marathwada University, Nanded (2011).

   2. B.E.(E&TC) SRTMU Nanded (2006).

- **Postdoctoral Experience**: No.

- **Certifications**:

   • One-day workshop on "Implanting Entrepreneurship through Innovations" held at S.G.G.S.I.E and T Nanded in April 2023.
   • Completed NPTEL course on "Digital Electronic circuits" conducted between Jan and April 2023 of twelve weeks.
   • Completed NPTEL course on "Patent Search and Analysis" conducted between August and October 2022 of twelve weeks.
   • Competed NPTEL Course on "Patent Drafting for Beginners" conducted between Jan and Feb 2022 of 8 weeks.
   • Attended and Presented paper in second international conference on information Technology InCITe-2022 conducted by Amity School of Engineering and Technology university, Delhi, and Springer on 3,4 March 2022.
   • Completed one-month training on "30 days Master Class on Artificial Intelligence" from Dec 2021 to Jan 2022 conducted by Pantech Solution Pvt. Ltd.
   • Competed on month training on "30 days Master Class on Machine Learning" from November 2021 to December 2021 conducted by Pantech Solution Pvt. Ltd.
   • Completed NPTEL course on "Patent Law for Engineers and Scientists" conducted between July and October 2021 of twelve weeks.
   • Completed one-day online workshop on "SCI/Scopus Research paper writing and

publishing" by Edu Corp Centre of research and Advanced Studies Pvt. Ltd. Nov 2021.

• Attended and Presented paper in international conference on Signal and information processing, ICONSIP 2016 at S.G.G.S.I.E and T, Nanded.

• Workshop on MATLAB Programming held in May 2016 at S.G.G.S.I.E & T Nanded.

• Workshop on "Biomedical Signal Processing" S.G.G.S.I.E & T Nanded in July 2015

• Workshop on Medical diagnostics held in Sept.2014, Conducted under Center of Excellence in Signal and Image Processing at S. G. G. S. I. E & T, Nanded-6

• Workshop on Computer Programming Conducted by IIT Bombay from 20th May 2014 to 21st June 2014 held at M.G. M's College of Engineering, Nanded.

• Workshop on Signals and Systems in Jan 2014 conducted by IIT Kharagpur at M.G. M's College of Engineering, Nanded.

• Winter school on Biometrics for Secure Authentication: Fundamentals and Advances, in Dec. 2013, sponsored by TEQIP-II conducted at S.G.G.S.I. E & T Nanded.

• Attended and presented paper in National conference NCCCNT-13 held at S.G.G.S.I.E and T ,Nanded in March 2013.

• Faculty development program on "Teaching Strategies" at S.G.G.S.I.E. and T Nanded July 2007.

• Course on "C Programming", SEED Infotech Ltd. Pune, August 2006.

• Course on "Mainframe Application Programming "MAPLES ESM Pvt Ltd. Pune, Mar 2007

- **3. Research Interests**

- **Areas of Expertise**: Languages: C, C++, MATLAB, Verilog, / Mobile & Wireless Communication, Biomedical Imaging, Feedback Control System

- **Ongoing Projects**: No.

- **Interdisciplinary Work**: No.

4. Teaching Experience

- **Courses Taught**: List of courses taught (undergraduate levels).

- Basic Electronics, microprocessor, microcontroller, Analog Communication, Digital Electronics, Linear Integrated Circuits, Digital system Design with Verilog, Network and Lines, Control system, Principles of Communication Engineering, Electromagnetic Engineering, Data Communication And Networking

- **Course Development**: No.

5. Publications and Presentations (Plz provide Google scholar link)

- **Books**:

- **Book Chapters**

1. **Shweta Pandav** and Lenina SVB "AI based approach for brain tumor detection and classification "in the book "Disruptive developments in biomedical applications, edited by Swati v. Shinde, Parikshit N. Mahalle, Varsha Bendre and Oscar Castillo, Chapter 4 pp51-66 of CRC Press Taylor and Francis group, January 2023. AI-Based Approach for Brain Tumor Detection and Classification | 5 | D (taylorfrancis.com)

2. **Pandav Shweta,** Lenina, S.V.B. (2023)," Brain Tumor Detection with Artificial Intelligence Method.", edited by Shukla, A., Murthy, B.K., Hasteer, N., Van Belle, JP. Computational Intelligence. Lecture Notes in Electrical Engineering, vol 968. Springer, Singapore, chapter 42, Feb 2023 https://doi.org/10.1007/978-981-19-7346-8_ Brain Tumor Detection with Artificial Intelligence Method | SpringerLink

- **Journal Articles**:

Shweta Pandav, "Brain Tumor Extraction using Marker Controlled Watershed Segmentation", in IJERT (International Journal of Engineering Research & Technology), Vol. 3 - Issue 6 (June - 2014), e-ISSN: 2278-0181. Brain Tumor Extraction using Marker Controlled Watershed Segmentation (academia.edu)

- **Conference Papers**:

1. Shweta Pandav and Lenina SVB, "Brain tumor detection with Artificial Intelligence Method", in International Conference on information technology (InCITe 2022), pp 485-495, Mar 2022 (3) (PDF) Brain Tumor Detection with Artificial Intelligence Method (researchgate.net)

2. **Shweta Pandav** and R.S.Potpelwar, " Brain tumor segmentation with comparative studies of four methods in MRI images", International conference on signal and information processing(ICONSIP 2016), pp 326-330, October 2016.

3.**Shweta Pandav** and A. N. Kamthane, "Simulation and Performance Analysis of OFDM", in National Conference on Communication, Computing and Networking Technologies (NCCCNT-2013) in March 2013 conducted at Shri Gobind Singhji Institute of Engineering and Technology, Vishnupuri Nanded-6.

- 6.**Editorial Work**: No.

6. Awards and Honors

- **Grants**: No.

- **Awards**: No.

- **Fellowships**: No.

- **7. Professional Experience**

- **Administrative Roles**:

  1.Departmental Training and Placement officer at S.G.G. S. I.E & T Vishnupuri Nanded in Year 2023-24.

  2. Training and placement officer at SSS's IIT Polytechnic Nanded from August 2016-2021.

  3. Head of the Department (E &TC) at SSS's IIT Polytechnic Nanded Jun 2018-2020.

- **Industry Collaboration**: No.

- **Consulting Work**: No.

8. Supervision and Mentoring

- **PhD/Master's Supervision**: No.

9. Professional Memberships

- **Associations**: No.

10. Miscellaneous

- **Languages**: English, Hindi and Marathi.

- **Skills**: Languages: C, C++, MATLAB, Verilog, / Mobile & Wireless Communication, Biomedical Imaging

- **Personal Interests**:

  1.Sung National Anthem, Rajya Geet and Rastra Geet under Avroh Team of S.G.G.S. I.E and T at flag hosting events such as Independence Day, Republic Day, University Foundation day, Workers day etc.

  2. Won Second Prize at Mini-Zenith Women's Cricket team at S.G.G.S. I.E & T Nanded in February 2024.

Participated in tug-of War, Musical chair and Cricket team under SGGS Fit India competition in February 2024 at S.G.G.S. I.E & T Nanded.

3. Anchoring at state level paper presentation tech fest at SSS's IIT Polytechnic, Nanded, September 2016.

4. Anchoring at state level prize distribution of polytechnic merit students at Gramin Polytechnic, July 2014.

5. Participated in Marathi song program" Mrudagandha" at college gathering in all four years at M.G. M's College of Engineering Nanded 2002-2006.

6. Basketball winning team at M.G.M.'s COE Nanded 2006.