Name                          : Dr. Arun Manikrao Patokar
Experience                    : 19 years

## Academic Qualification

| Qualification | Institute/ University. | Year of passing | Division | Specialization |
|---|---|---|---|---|
| Ph.D. In Electronics Engineering | Sant Gadge Baba Amravati University | 2022 | | AI, ML , IoT |
| Master of Engineering | SSGM College of Engg, SGB Amravati University | 2008 | First | Digital Electronics |
| Master of Science. | P.G. Dept. of Applied Electronics Amravati University Campus | 2005 | Second | Applied Electronics |
| Bachelor of Science. | G.S.college Khamgaon, Amravati University | 2002 | First | Computer Application |

## Experience Details

**Total Teaching Experience: - 09 years**
Current Industry Experience: July 2023 to till date, Adjunct Faculty, GCE karad.
Past Experience:  Asst Prof. Visiting GCE karad July 2017 to June 2018
Assistant Professor & Head, Department of ENTC Engg,STC , SERT, Shegaon June 2015- to 2017
HOD & M.E. Coordinator (Electrical, ENTC) Padmashri Dr. V.B. Kolte college of Engg. Malkapur April 2013- June 2015
Lecturer, Assistant Professor SGIARC & Dept. of Electronics & Telecomm, SSGMCE Shegaon October 2009 – June 2013

**Total Industry Experience: - 10 years**
Current Industry Experience:  September 2019 to till date Director Deltiin India Tech Private Limited
Past Industry Experience: Network Administrator, Sales & Service Engineer, VLSI-RA, Freelance Engineer.

## Certificate of Merit/ Award:

1) Task Based Training (TBT-2017), Teachers Training through the eYantra Lab Setup Initiative (eLSI), By IIT Bomaby.29 June 2017 to 16 Oct 2017

2) International Award for Faculty under the category "Sustained Research Development" By Amravathi Research Academy, 16 November 2019.

## Work on Research Projects at SGIARC, Shegaon

1) Design of PMU (Phase Monitoring Unit) using VHDL funded by SGIARC, SSGMCE Shegaon
2) Design of Intelligent Processor for Decision making & Processing (cotton picking Mechanism). Sponsored by Dr. P.D.K.V. Akola @ SGIARC, Shegaon

## Administrative Responsibilities

1) Founder & Director, Deltiin India Tech Private Limited
2) Head of Department Electronics & Telecommunication at STC, SERT Shegaon
3) Head Electrical Engineering Department at Dr. V. B.K.COE, Malkapur
4) M.E. Coordinator (Dr. V.B.K.COE, Malkapur)
5) In charge of Mumbai branch during the stay at SCIENTECH Technologies Pvt. Ltd. Mumbai

6) In charge EPABX System (Shri Gajanan Maharaj Sansthan & SSGM Engg College Shegaon)
7) In charge Xerox & STD/ PCO (SSGMCE, Shegaon)
8) In charge (PA System, SSGMCE. Shegaon)

## Professional Membership: -

1) Life Membership of Indian Society for Technical Education (ISTE)- LMISTE no: - 126122
2) International Association of Engineers, Hong Kong - Member No: 133744
3) International Society for Research & Development(ISRD)- Member No: 150903474
4) Universal Association of Computer and Electronics Engineers –Member no- AM10100053741
5) Society of Automotive Engineers, SAEINDIA -Membership NO: 7150511121
6) Life Member Institution of Electronics and Telecommunication Engineers (IETE)-M502803

## Editorial Board Members of Journals:

1) Editorial Advisory Board & Reviewers - IGI Global, USA (Scopus Indexed Book) "Precision Agriculture Technologies for Food Security and Sustainability".
2) Journal of Energy Engineering and Thermodynamics, HM Journal, E-ISSN: 2815-0945.
3) Journal of Crop Technology and Agricultural Science, Enliven Archive is an international publisher for Open access and peer reviewed journals, USA.
4) Journal of Power Electronics & Power Systems, STM Journals, eISSN: 2249–863X, ISSN: 2321–4244, SJIF: 4.456
5) Acta Scientific Agriculture, (ASAG) (ISSN: 2581-365X) (Publon, CrossRef Indexed)
6) Journal of VLSI Design Tools & Technology, STM Journals, eISSN: 2249–474X, ISSN: 2321–6492, SJIF: 3.913, Index Copernicus Value (ICV): 45.28

## Professional society Membership: -

- IAENG Society of Artificial Intelligence
- IAENG Society of Computer Science
- IAENG Society of Electrical Engineering
- IAENG Society of Wireless Networks

## Reviewer for International Conferences & Journals

1) "International Conference on Sensor Networks and Signal Processing (SNSP 2018)" *Oct. 28-31, 2018, Xi`an University of Science and Technology,* **China** *web link* www.snspconf.org *(Scopus , SCI indexed)*
2) "9th International Conference on Electronics, Communications and Networks (CECNet2019) will be held in conjunction with the 5th International Conference on Fuzzy System and Data Mining (FSDM2019) in Kitakyushu International Conference Center, Kitakyushu City, **Japan** during October 18-21, 2019. *(Scopus, SCI Indexed)*
3) Journal of Applied Research and Technology (JART) (Scopus Indexed)
4) International Conference on "Machine Intelligence and Smart Computing (ICMISC2020) 21st & 22nd May 2020, organized by Government College of Engineering, karad.
5) AICTE Sponcered "International Conference on Recent Trends in IoT and Blockchain (ICRTIB-2019) during 19th to 20th of October, 2019, Organized by: Department of Computer Science & Engineering GIET University, Gunupur-765022, India. (Scopus Indexed)

6) Second International Conference on Computer Science, Engineering and Applications (ICCSEA) organized by Department of Computer Science and Engineering, GIET University, Gunupur-765022, Odisha, India on 8th September 2022. (Scopus Indexed)

7) *IGI Global* **scholarly journals,** Hershey, Pennsylvania, USA (Scopus Indexed)

8) **10th IEEE Conference on Systems, Process & Control (ICSPC 2022)**. ICSPC 2022 will be held as a hybrid conference in Malacca, Malaysia (Scopus indexed)

9) International Journal of Advanced Computer Science and Applications, Computer Science Journals - Open Access - Scopus Indexed

10) 14TH IEEE CONTROL AND SYSTEM GRADUATE RESEARCH COLLOQUIUM (ICSGRC 2023) 5th August 2023, Malaysia.

11) International Journal of Advanced Computer Science and Applications (IJACSA) Computer Science Journals, The Science and Information (SAI) Organization, United Kingdom- Open Access - Scopus Indexed

12) International Conference on Computing Science, Communication and Security (COMS2) will be held at Ganpat University, Gujarat, India on 6th -7th February 2023. (Scopus Indexed)

13) International Journal of Knowledge-based and Intelligent Engineering Systems, IOP press Netherlad (Web of Science Indexed)

## Technical/Organizing Program Committee Member International Conferences

1) "AICTE Sponsored "International Conference on Recent Trends in IoT and Blockchain (ICRTIB-2019) during 19th to 20th of October, 2019, Organized by: Department of Computer Science & Engineering GIET University, Gunupur-765022, India.

2) Second International Conference on Computer Science, Engineering and Applications (ICCSEA) organized by Department of Computer Science and Engineering, GIET University, Gunupur-765022, Odisha, India on 8th September 2022.

3) Organizing Committee Member in 2nd Global Congress on Agriculture & Aquaculture. Beijing, China. 22-24 June 2020.

4) AOTA-2023: 1st International Conference on Advanced Optimization Techniques and Applications, Ramgarh Engineering College, (Estd. by Govt. of Jharkhand & Run by Techno India Under PPP) Jharkhand, India, India, January 21-22, 2023

5) Advisory Board Member, Global Conference on Sustainable and Futuristic Technologies 2023, (GConSFT-2023), Theme: Green Technology and Computations, (14th – 15th December, 2023) Marathwada Mitramandal's College of Engineering, Karvenagar, Pune -411001

## Other Work

1) Prepared the Proposal for starting the vocational training courses, to become an authorized vocational Training Provider (VTP) under skilled development initiative (SDI) scheme. For SSGMCE, Shegaon (Sanctioned 42 VTP Courses)

2) Prepared a Proposal for up- gradation of our Mini Tool Room (SGTR)at SSGMCE, Shegaon (Received grant of Rs. 1.6 Cr.)

3) Worked on NBA and NAAC- Accreditation Report Compilation (ENTC Departent.

4) Prepared New syllabus for ME ELECTRICAL (Electronics & Power) of Dr. VBK COE Malkapur (2013-2014)

5) Committee Member of BOS New Syllabus formation in EXTC Engg, SGBAU-2016.

**Conducted Courses/Workshop/Internship/Webinar**

      **Courses:**

1. Certificate Course in VLSI Design
   - Duration: 21 June – 22 Aug 2008
   - Location: SGIARC, SSGM College of Engineering, Shegaon, MS, India

      **Workshops:**

1. Fundamentals of VLSI Chip Design
   - Duration: 15 June – 30 June 2009
   - Location: SGIARC, SSGM College of Engineering, Shegaon, MS, India
2. Intellectual Property Workshop
   - Date: 10 Feb 2010
   - Location: SSGM College of Engineering, Shegaon, MS, India
3. Essentials of XILINX EDA Tools & FPGA Design
   - Duration: 08 Sept. – 10 Oct 2009
   - Location: SGIARC, SSGM College of Engineering, Shegaon, MS, India
4. PCB Design Course
   - Duration: 3 Jan 2011 – 15 Feb 2011
   - Location: SSGM College of Engineering, Shegaon, MS, India
5. Community Development & Extension Service Cell PCB Design Course
   - Duration: 09 Nov. 2011 – 12 Nov. 2011
   - Location: SSGM College of Engineering, Shegaon, MS, India
6. Personality Development Workshop
   - Date: 12 August 2013
   - Location: Padmashree Dr. V.B. Kolte College of Engineering, Malkapur, MS, India
7. Protection of Transmission Line Workshop
   - Date: 19 October 2013
   - Location: Padmashree Dr. V.B. Kolte College of Engineering, Malkapur, MS, India
8. Workshop Coordinator for TECH-TANTRA 14
   - Date: 7th February 2014
   - Location: Padmashree Dr. V.B. Kolte College of Engineering, Malkapur, MS, India
9. Workshop Coordinator for TWO WEEK ISTE STTP on Technical Communication
   - Duration: 8th Oct 2015 to 5th Dec 2015
   - Location: Conducted by IIT Bombay in association with Padmashree Dr. V.B. Kolte College of Engineering, Malkapur, MS, India
10. Workshop Coordinator for TWO WEEK ISTE STTP on CMOS, Mixed Signal and Radio Frequency VLSI Design
    - Duration: 30th Jan 2017 to 4th Feb 2017
    - Location: Conducted by IITB in association with Padmashree Dr. V.B. Kolte College of Engineering, Malkapur, MS, India
11. Workshop for SY B. Tech Students on Introduction to TINA software & PCB Design
    - Date: 08-10-2017

- Location: GCE, Karad

12. Workshop for TY B. Tech Students on PCB Design Using EP2006
    - Dates: 10-11 Nov 2017
    - Location: GCE, Karad

13. Industry Training for Teaching Faculty on Machine Learning & Deep Learning with Python
    - Duration: 04-June-2020 to 18-June-2020
    - Location: Government Engineering College, Karad

14. Industry Trainings on Arduino, Python, C, AutoCAD, 3D Printing, Soft Skill
    - Duration: 23rd June 2020 to 17th July 2020
    - Location: CSMSS College of Engineering, Aurangabad

15. Webinar on Negotiation Skills
    - Date: 15th July 2020

16. Workshop on Internet of Things
    - Duration: 20th March 2021 to 31st March 2021

**Internship:**

1. Internship Program on Internet of Things with Cloud Computing (GCE KARAD)
   - Duration: 20th March 2021 to 31st March 2021

2. Internship Program on Deep Learning (MIT WPU, Pune)
   - Duration: 12th Aug 2022 to 31st Dec. 2022

3. Internship Program on AI , ML (MIT WPU, Pune)
   - Duration: 20th Sept 2021 to 31st Jan 2022

**STTP (Short-Term Training Program):**

1. One Week STTP on Python Programming
   - Duration: 02 to 06 January 2021
   - Location: Government College of Engineering, Aurangabad

2. STTP on Machine Learning with Python for PG Department of Applied Electronics
   - Duration: 05 to 09 September 2021
   - Location: Sant Gadge Baba Amravati University, Amravati

## Courses / Workshop/ Attended:

1) Participated in Model exhibition at Amravati university Amravati (March-2004).

2) Participated in "National Conference on Laser & Their Applications" at Amravati University, Amravati (2005).

3) Participated in National Workshop on Pulse Power Modulator Held By the Power beam Society of India (PSI)SAMEER, A Division of ( Bhabha Atomic Centre) Kharghar New Mumbai.(2006).

4) One Day Workshop on "Induction training of Faculties" held At SSGM college of engineering Shegaon on 21st July 2010.

5) AICTE Sponsored One Week STTP on "UHF and Microwave" organized at SSGM college of engineering Shegaon, 20th June – 24th June 2011.

6) Faculty Development programme on I) Business Intelligence II) Software Evolution In CRM. Conducted by TCS, Held at SSGM college of engineering Shegaon, 14th Nov. 2011.

7) Faculty Development programme on I) presentation skill II) voice culture III) , Held at STC,SERT Shegaon, 31st & 1st January 2015.

8) One week Co-ordinator's Workshop on Technical Communication: Conducted by IIT Bombay at IITB Mumbai, August 24-28 ,2015

9) One week Co-ordinator's Workshop on CMOS, MIXED SIGNAL AND RADIO FREQUENCY VLSI DESIGN Conducted by IIT Kaharagpur at IITKGP, Septeber 19-23 ,2016

10) One Week FDP on "Machine Learning: Data Science Using Python and R Programming" @ Government college of Engineering, Karad 415124 date:11th – 15th December 2017

11) One Day Outreach workshop on "Virtual Lab "@ Government college of Engineering, Karad 415124 date: 16th September 2017

12) International Seminar on " Intelligent Computing for Future Internet( ICFI-2018) @ Government college of Engineering, Karad 415124 date:19th – 20th January 2018

13) One week STTP on "Digital Image Processing Hands on with Software & Hardware platforms" AICTE-ISTE approved at AGITs Dr. Daulatrao Aher college of Engineering,  Karad on date: 4th June to 9th June 2018.

## Paper Publications (Conferences/Journals)

1) " Artificial Neural Network in cardiology" in National Conference Held at Jagadhri (2015) .

2) "Implementation of FPGA Based OFDM TRANSMITTER" for the 2nd National Conference On Computing, Communication, Electronica & Management 2009. 21-22 March 2009.

3) "Performance comparison of QPSK & QAM techniques for OFDM system" at National Conference on Engineering and Science: Third Millennium Perspectives-15-16 Jan. 2009.

4) "Performance estimation of M-QAM in OFDM System" at National Conference on Signal Processing NCSP 2009.  on 5th-6th March 2009.

5) "Rate Adaptive resource allocation in OFDMA system for Advanced Wireless Networks." NCAWS SSGM College of Engg, Shegaon, 7-9 May 2010.

6) " FPGA prototype of 14 bit, 20msamples/S, 85 Mw successive approximation ADC suitable for RF applications" Published in: Proceeding ICWET '11 Proceedings of the International Conference & Workshop on Emerging Trends in Technology   Pages 832-836 ALSO PUBLISHED IN ACM New York, NY, USA ©2011 ISBN: 978-1-4503-0449-8.

7) "4-BIT 5GS/s FLASH ADC IN 0.18μm CMOS" JOURNAL OF INFORMATION, KNOWLEDGE AND RESEARCH IN ELECTRONICS AND COMMUNICATION ENGINEERING , ISSN: 0975 – 6779| NOV 09 TO OCT 10 | Volume 1, Issue 1. Page 34-37.

8) "Spartan-II FPGA Implementation of 14 Bit, 20msamples/S, 85 Mw Successive Approximation ADC Suitable for RF Applications" International Conference and Workshop on Emerging Trends in Technology.  © 2011 also published in  IJCA Journal Number 6 - Article 2 , Year of Publication: 2011 ISBN: 978-93-80747-69-0.

9) "High Throughput design & Implementation of SRAM" in National Conference RTIT -2011 held on 3rd – 4th Feb 2011 at J.T. Mahajan College of Engineering, Jalgaon.

10) "Review on Design & Simulation of Multi Stage Converter for Hybrid Wind-PV System "In International conference on recent trends & research in engineering & science"(ICRTRES-15)

organized by Padmashri Dr. V.B.. Kolte COE, Malkapur.23rd march 2015, Published In Indian Research Transaction VOL. 5, No.2 , Apr-June 2015 EISSN: 2250-0804.

11) "Development of Precision Agriculture system based on Internet of Things : A Review" in International conference on Telecommunication Technology Management" held at IIT Delhi. Date 11-12 April 2015. Proceeding published by EMERALD publication ISBN NO. 9780992680053.

12) "Identification of faults in series compensated transmission line by using wavelet transform" Paper ID IJIRT 142637 INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, October 2015 | IJIRT | Volume 2 Issue 5 | ISSN: 2349-6002.

13) "Classification of faults in series compensated transmission line by using wavelet" IJSRD JOURNAL, Paper ID; IJSRDV3I80487, Volume-3 Issue-8, Nov. 2015 ISSN NO.; 2321-0613.

14) "Use of STATCOM for Voltage Profile Improvement: An Approach to reactive power compensation" National Conference on Emerging Research Trends in Engineering and Technology, KGIT, Darapur, on date: 2-3 November 2015.

15) "Precision Agriculture System Design Using Wireless Sensor Network" in ICICT-16, Bangkok on date: 22-13 December 2016. Springer book chapter.

16) "Ranking & Accreditation for Quality Education: Need & Challenges" in State Level Paper Presentation at College of Education, Sangamner, date: 30th January 2018.

17) "Automatic Investigation of Micronutrients and fertilizer dispense System using Microcontroller" in International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - (ICRIEECE), at School of Electrical Engineering, Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, India. 27-28 July 2018.

18) Plant Leaf Disease Identification and Classification using Transfer learning. Solid State Technology, 852-862. (2020)

19) "Design of Infrastructure for Precision Agriculture to Empower Farmers". Acta Scientific Agriculture 2.12 (2018): 90-95. (2018)

20) Patokar, A.M., Gohokar, V.V. (2023). Classification of Tomato Leaf Diseases: A Comparison of Different Optimizers. In: Kulkarni, A.J., Mirjalili, S., Udgata, S.K. (eds) Intelligent Systems and Applications. Lecture Notes in Electrical Engineering, vol 959. Springer, Singapore. https://doi.org/10.1007/978-981-19-6581-4_3.

## Invited Talk / Guest Lecture/ FDP Recourse Person:

1) Invited Talk on "Personality Development" at Nand Foundation Academy, Shegaon (12 Sept. 2012).

2) Guest lecture on "Government formalities for setting up an SSI unit" IN Entrepreneurship Awareness Camp Held @ Padm Dr. VBKCOE Polytechnic Malkapur. 2014

3) Guest lecture on "Technical & Commercial aspects for setting up an SSI unit" in Entrepreneurship Awareness Camp Held @ Padm Dr. VBKCOE Polytechnic Malkapur.2014

4) Invited lecture on "how to make successful engineering career" in Board of apprentice training program held @ Padm Dr. VBKCOE Polytechnic Malkapur (2013).

5) Invited lecture on "Technical & commercial Aspects of SSI unit" in Entrepreneurship Awareness Camp Held @ Padm Dr. VBKCOE Polytechnic Malkapur ( 5 Oct. 2013).

6) Guest lecture on "Career Development " at Nand Foundation Academy , Shegaon ( 15 Sept. 2012).

7) Guest Lecture on "VLSI Design" at STC School of polytechnic, Shegaon on 21 aug 2015.

8) Invited Talk on (Technical Education and its Opportunities) in ON wheel Carrier Fair" held by MSBTE, and STC SPRT, Khamgaon on Dates 29-31 December 2015.

9) Guest lecture on "Skill Development" at Municipal High School , Shegaon  ( 20th July 2016).

10) Guest lecture on "Interview & GD Techniques" at STC, SPER, Khamgaon (09/09/2016 July

11) Invited Talk on "Awareness , Opportunities in Technical Education" at in ON wheel Carrier Fair"held By MSBTE, and STC SPRT,  on Dates 22-24  December16.

12) speaker for Static Carrier fair Sponsored By MSBTE, held at Jalgaon Jamod. June19.

13) Resource person for One Week Online Faculty Development Program on "Network & IoT Simulation Platforms" on 27th August, 2020 in Department of Information Technology, Government College of Engineering, Karad organized under TEQIP-III program.

14) Resource person for Two Week Online Workshop on "Internet of Things" on 10th to 24th September, 2020 for Government College of Engineering, Karad organized under **NASSCOM** Training.

15) FDP Resourse person for TEQIP(DBATU) sponsored Faculty Development program at Sharad Institute of Technology college of Engineering Yadrav. On date 20th March 2021.

16) keynote Speaker in AICTE Sponcered Short Term Training Program on AI & ML held at DKTE, Yadrav (Ichalkaranji) 7th April 2021.

17) Guest Lecture at Podar International School, Karad

| Contact Details | |
| --- | --- |
| Contact Name | Dr. Arun Manikrao Patokar |
| Contact Number | +91-9423052703, +91-9403581631 |
| Email ID | arunpatokar@gmail.com, arunmpatokar@gmail.com arunpatokar@deltiin.in |

Google Scholar Link: https://scholar.google.com/citations?user=jf0vJV8AAAAJ&hl=en&authuser=1
Research Gate Link : https://www.researchgate.net/profile/Arun-Patokar
Scopus Author ID: 57196078572
ResearcherID: AAG-2910-2019
ORCID: 0000-0002-4846-7211