

RESUME

NAME: Dr. MRS.SHIKALGAR SHABANAM KHALID

EDUCATIONAL QUALIFICATION:

Course	Percentage	Grade	Year Of Passing	Board/ University	Name Of Institution
Ph.D. (Electrical & Electronics Engg.)			March 2019	VTU, BELGAUM	G.I.T., BELGAUM
M.E (Electronics)	66.00	1 st Class	2009-2010	SHIVAJI UNIVERSITY	R. I. T. SAKHARALE
B.E. (Electronics)	68.53	1 st with distinction	2000-2001	SHIVAJI UNIVERSITY	R. I. T. SAKHARALE
HSC	79.73	1 st with distinction	1996-1997	KOLHAPUR BOARD	S. N. K. C. KADEGAON
SSC	89.00	1 st with distinction	1994-1995	KOLHAPUR BOARD	M. G. V. K. KADEGAON

Teaching Experience:

Sr. No.	INSTITUTE	DURATION	DESIGNATION
1	Sharad Institute of Technology College of Engineering, Yadrav	September 2020 to till Date	Associate Professor
2	Annasaheb Dange College Of Engg. and Tech., Ashta	July 2005 – August 2020 (15yrs)	Assistant Professor
3	Bharati Vidyapeeth's Institute Of Technology, Palus	3 Years	Lecturer

Projects Guided at PG Level: 10

Projects Guided at PG Level		
1	Cost Effective Solution for Sanitary Napkins Incinerator Machines	Ms. Sandhya Chourasia
2	Neural Network Based ROI Detection and Hybrid Image Compression	Ms. Sayali Mane
3	Dynamic Solid Waste Collection and Management System Based on Robotic Arm, Sensors and GSM	Ms. Trushali Vasagade
4	Modified Lo Norm Based Algorithm For Content Adaptive Image Detail Enhancement	Mrs. Shikalgar S. S.
5	Optimizing Tone mapped Image Quality Index and Enhance Image Quality with Iterative Algorithm	Mr. Tushar mane
6	A smart Sensing of Front Luminous System and Intelligent Control of Roadster on Curve Way	Ms. Varsha Chougule
7	Improved Architectures for a Fused Floating Point Add-Subtract Unit	Ms. Pooja Potdar
8	Secure Image Transforms by Reversible Color Transformations	Mr. Kakade Chaitanya
9	Facial Image Compression for Passport Images	Mr. Harage S. A.
10	Secure Biometric Recognition Through Image Quality Assessment	Ms. Prajkta Patil
11	Image Compression Using Modified Fast Haar Wavelet Transform (MFHWT)	Ms. Yewale Varsha B.

PG Recognition Number:

E& Tc: SU/PGBUTR/Recog/59/15502

Electronics: SU/PGBUTR/Recog/74/15502

Responsibilities Held:

- Working as Head of Department Mechatronics Engineering
- Working as IQAC Coordinator
- Associate dean Faculty & student publication
- R&D coordinator
- Departmental NBA coordinator

- Autonomous departmental curriculum development
- Time table Incharge (Since 2005 to 2010)
- PG coordinator since 2014
- Coordinator for one week ISTE approved STTTP on “Research Methodology & LaTeX” during 13-18th Oct. 2014
- Faculty Instructor for Purdue Next Course on” Signal Processing for Embedded Systems”
- Senior Supervisor (14th Dec.2014to 1st Jan. 2015)
- IEEE branch Counselor
- Member of Departmental PAC & DAAC Committee.
- Senior Supervisor (ESE 2018)

ISTE APPROVED STTP ATTENDED:

Sr. No.	STTP / Refresher Course / Workshop	Duration	Weeks	Place
1.	Emerging Trends in Digital Signal Processing and Communication	9 th June to 20 th June 2008	Two Week	ADCET, Ashta
2.	Applications of fuzzy mathematics & Matlab in engineering.	15 th Dec to 26 th Dec 2008	Two Week	JJM, Jaysingpur
3.	Network, Security And Simulation	30 th Nov to 11 th Dec 2009	Two Week	ADCET, Ashta
4.	VLSI and Embedded System Design	14 th Dec to 25 th Dec 2009	Two Week	ADCET ,Ashta
5.	Signal processing Applications with Matlab	27 th Dec to 31 st Dec 2010	One Week	ADCET, Ashta
6	Research Methodology in Engineering & Applied Sciences	25 th April to 29 th April 2011	One Week	ADCET, Ashta
7	Mission 10X	21 st to 25 th November 2011	One week	RIT, Sakharale
8	Advances in Wireless Communication	24th June to 28th June2012	One week	ADCET, Ashta
9	Teaching Methodology	23 th Dec to 27 th Dec 2013	One week	GCE, Karad
10	Research Methodology & LaTeX	13-18 th Oct. 2014	One Week	ADCET, Ashta

11	Image Processing & Applications	22 nd -26 th June 2015	One Week	PVPIT, Budhgaon
12	Remote Sensing, Geological Information System & Global Navigation Satellite System	10 th Aug to 27 th Nov.2015	3.5 Months	Indian Institute of Remote Sensing (ISRO)
13	Image Processing	28 th Dec-11 th Jan2016	Two week	EiTRa, Ahmadabad
14	Artificial Intelligence & Robotics	5 th -10 th Dec2016	One week	ADCET, Ashta
15	Netsim V10:A Practical Approach	11 th -15 th Dec 2017	One week	ADCET, Ashta
16	Matlab R2018a Tools & Its Engineering Applications	24 th -28 th December, 2018	One week	ADCET, Ashta
17	Emerging Trends in Signal Processing	8 th -12 th January, 2019	One week	KIT, Kolhapur
18	Hands on Experimentation on "Deep Learning using Python"	17 th -22 nd June 2019	One week	ADCET, Ashta
19	Generation of Research and Project Ideas and Subsequent Preparation of Manuscripts	26 th -31 st August 2019	One week	ADCET, Ashta
20	Digital Image Processing with Matlab	11 th -15 th November 2019	One week	ADCET, Ashta
21	Digital Image Processing	July-Oct. 2019	12 weeks	NPTEL, IITK
22	Future-Vision: Marriage of AI and Blockchain	14 th -17 th May 2020	One Week	RIT, Sakharale
23	Scilab	23 rd May-5 th June 2020	Two week	IIT, Bombay
24	Machine Learning and its Applications	5 th Jan-15 th Jan.2021	One week	KIT, Kolhapur
25	Smart Tools and Methodologies for Academic Research	25 th Dec. to 29 th Dec.2022	One week	SITCOE, Yadrav
26	Applied Deep Learning	June 12-16,2023	One week	BITS, Goa

ATAL FDP's Attended:

- 1) **AICTE Training And Learning (ATAL) Academy Online FDP on " GIS & Remote Sensing" from 2020-11-23 to 2020-11-27 at Government Engineering College Bilaspur.**

- 2) **AICTE Training And Learning (ATAL) Academy Online FDP on " Artificial Intelligence" from 2021-1-1 to 2021-1-5 at ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT (A).**
- 3) **AICTE Training And Learning (ATAL) Academy Online FDP on "Cyber Security & applications" from 2021-07-12 to 2020-07-16 at SITCOE, Yadrav.**

ONLINE COURSES COMPLETED

1. MATLAB Onramp
2. Deep Learning Onramp
3. Machine Learning Onramp

WORKSHOPS ATTENDED:

1. One Day Workshop on “Circuit Simulation” In 17th February 2008 at WCE, Sangli.
2. Three days International workshop on “Performance based teaching –Learning” at ADCET, Ashta During 11to 14th May 2009.
3. Three days International workshop on “Global Accreditation: Planning and Teaching for an Outcomes Based Learning Process” at ADCET, Ashta During 26th 29th and 30th December 2009
4. Two Day Workshop on “Self Awareness” during 15th & 16th November 2010 at ADCET, Ashta
5. One Day Workshop on “Enhancing the Employability and campus Placements” during 4th May 2013 at ADCET, Ashta
6. One day Workshop on “M. E. and S.E. Electronics Syllabus Revision” on 20th July 2013 at K.B.P. College of Engineering & Poly., Satara
7. One day Workshop on “S.E. Electronics and Telecommunication Syllabus Setting” on 3rd January 2014 at ADCET, Ashta
8. Two Days Workshop on “Artificial Neural Networks through Matlab” during February 7-8, 2014 at ADCET, Ashta
9. One day Workshop on “Formation of T. E. (E&Tc) Syllabus” on 31th Jan. 2015 at SBGOI, Miraj.
10. One day Workshop on “Final year Syllabus Formation of BE (E&Tc)” on 9th Feb.2015 at AMGOI, Vathar Tarf Vadgaon.
11. One day Workshop on “M.E. (E&Tc) Syllabus Discussion” on 9th Oct.2015 at DYP Kolhapur.
12. One day Workshop on “Credit Base System for Under Graduate Program of

Electronics & Telecommunication Engineering” on 23rd April 2016 at BVCOE, Kolhapur.

13. One day Workshop on “Education in Universal Human Values” on 28th November 2016 at ADCET, Ashta

14. Two days Workshop on “Career Guidance- Academic development Program for Faculty Members” on 20th -21st January 2017 at ADCET, Ashta

15. Two days’ Workshop on “Pedagogical Aspects in Signal Processing” on 15th -16th December 2017 at WCE, Sangli.

16. One day training programme on “Patent Writing and Documentation” on 25th August 2018 at ADCET, Ashta.

17. One Day Workshop on Arduino' at Walchand College of Engineering, Sangli on **8 February 2020**, Teaching Learning Centre, ICT at IIT Bombay

18. Webinar series on “Satellite and Automation” organized by GSSS Institute of Engineering and Technology for Women, Mysuru

19. **Webinar on “IOT using Arduino”** organized by St. Francis college for women in association with Pantech.

20. “Covid-19 Awareness Programme” organized by Shivaji University, Kolhapur on 27th April, 2020

21. “Covid-19 Awareness Programme” organized ADCET, Ashta on 1st May, 2020

22. India First Leadership Talk webinar by Prof D. P. Singh, Chairman UGC Broadcasted on 2nd May, 2020 by MHRD’s Innovation Cell.

23. India First Leadership Talk webinar by Prof D. P. Singh, Chairman UGC Broadcasted on 9th May, 2020 by MHRD’s Innovation Cell.

WORKSHOPS ORAGANIZED

1. Worked as coordinator of One day workshop on **“PCB Design & Manufacturing Process”** on 15th March 2009.
2. Worked as coordinator of One day workshop on **“PCB Design & Manufacturing Process”** on 15th March 2010.
3. Worked as coordinator & Resource person for Two days workshop on **“Circuit Simulation”** during 5th & 6th August 2011

4. Worked as coordinator of One day workshop on “**MIC lab**” on Dec 2012.
5. Worked as coordinator of Two day workshop on “**Network Simulator**” on 1-2 Feb 2013.
6. Worked as faculty coordinator of Texas Instruments sponsored competition “**Analog Maker**”

STTP/FDP ORAGANIZED:

1. One week DBATU sponsored FDP on “**Machine Learning & Its Applications**” from 16th March-20th March 2021.
2. Coordinator for One Week ISTE approved STTP on “**Research Methodology & LaTeX**” on 13th -18th Nov.2014
3. Coordinator for One Week Workshop on “**Digital Image Processing with Matlab**” on 11th -15th Nov.2019
4. One week Faculty development program on “Smart Tools and Methodologies for Academic Research” from 25th Dec. to 29th Dec.2022

PROFESSIONAL MEMBERSHIPS:

Life Member of the I.S.T.E. (Membership No. LM 57809)
 IEEE Faculty Member (Member #93588155, Bombay Section)
 IEI membership

PAPERS PRESENTED AND PUBLISHED:

International Journal	International Conference	National Conference
28	10	2

Google Scholar Citations: 109

H index: 5

I10 index: 2

- 1) S. S. Tamboli , P. P. Belagali , S. S. Shinde , Presented Paper On “ **Conservation On Energy And Environment For Millennium**” In Proc. An International Technical Symposium (TECHNO MILLENNIUM 2006)
- 2) S. S. Tamboli presented paper on “**VLSI Technology & Embedded System**” at ETA-06 Rajcot in Oct 2006.
- 3) S. S. Tamboli & Patil V. A. Submitted paper on “**Genetic Programming for Object**

Detection “in International conference at ACVIT, Aurangabad.

- 4) S. S. Tamboli & Patil V. A. published paper on “**Object Detection using Genetic Programming**” in International conference at ICSIP-2009 Mysore.
- 5) S. S. Tamboli & Prof A.B. Patil published paper on “**Kalman filtering for fuzzy discrete time Dynamic Systems**” in international conference at ICFCA, Bangalore
In International Journal IJCA-2010 (IP: 0.825). DOI:[10.5120/40-146](https://doi.org/10.5120/40-146)
- 6) Ms. S. S. Tamboli, Prof. A. B. Patil, Prof Kumbhar M. S. Presented paper on “**Kalman filtering using fuzzy for Truck Trailer**” in international conference at ICETE, Jaysingpur 2010 In Proceeding.
- 7) Ms. S .S.Tamboli , Dr.S.P.Patil, Dr. V. R. Udupi published paper on “**Breast Cancer Diagnosis Based On Histopathological Images: A Review**” at IJCEE(2011).
- 8) Ms. S. S. Tamboli, Ms. A.S. Tamboli, Ms. Patil V.A., Dr. V.R.Udupi published paper on “**Histopathological Image Analysis for Breast Cancer Diagnosis: A Review**” in IJECT vol.2 Issue 4, Oct.-Dec-2011.(IJECT/1011/24/259)
- 9) Arifa S Tamboli, Sunita S. Shinde and Shabanam S.Tamboli published paper on “**Simulation of Self-Organized Public-Key Management for Ad Hoc Networks**” in IJCA 2011(IP: 0.825)
- 10) Ms. S. S. Tamboli Presented paper on “**Image Compression Techniques: a Review**” in National Conference, ATEES-2012, at GIT, Belgaum.
- 11) Ms. S. S. Tamboli and Dr. V.R. Udupi published paper on “**Compression Methods Using Wavelet Transform**” in IJCETVol.3 Issue1, Jan.-June 2012(IP:3.958)
- 12) Ms. S. S. Tamboli & Dr. V. R. Udupi published paper on “**Optimum DCT image compression using Neural Networks Arbitration**” in IJECIERDVol.3 Issue 1 March 2013(IP:2.9875)
- 13) Ms. S. S. Tamboli & Dr. V. R. Udupi published paper on “**Image Compression Using Haar Wavelet Transform**” in IJARCCE Vol.2 Issue 8 August 2013(IP:1.770)
- 14) Lakesar A.L., Shinde S. S. Tamboli S. S. published paper on “**Sparse Color Interest Points for Image Retrieval and Object Categorization**” in IJAIR, volume 2, Issue 9, Sept 2013.
- 15) Lakesar A.L., Shinde S. S. Tamboli S. S. published paper on “**Sparse Color Interest Points for Image Retrieval and Object Categorization**” in IJEA, volume 2, Issue 5, Sept 2013.

- 16) Tamboli S. S., Pooja Potdar published paper on “**Improved Architectures for Fused Floating Point Add-Subtract Unit**” in International Journal of Science and Research (IJSR) Vol.4 Issue 12, December 2015 (ISSN (Online): 2319-7064) (IP :5.611)
- 17) Tamboli S. S. & Dr. V. R. Udipi published paper on “**Weighted Denoising With Multispectral Decomposition for Image Compression**” in AJER Vol.4 Issue 1, January 2015.
- 18) Tamboli S. S. , S. A. Harage published paper on “**Review paper on Passport Photo Compression Techniques**” in impact journal IJRET Vol.3 Issue 6, June 2015.(IP:1.9586)
- 19) Tamboli S. S., S. A. Harage published paper on “**Facial Area Detection in Passport Images**” in impact journal IJARECE Vol.4 Issue 8, August 2015.
- 20) Tamboli S. S., Ghewari M. U. published paper on “**Intelligent Transport System (ITS) Survey**” in Industrial Science ISRJ Vol.1 Issue 10, April 2015.
- 21) Tamboli S. S., Ghewari M. U. published paper on “**Intelligent Transport System (ITS) for Safety Applications**” in International Journal of Science and Research IJSR Vol.4 Issue 10, October 2015.(ISSN:2319-7064) (IP: 5.611)
- 22) Tamboli S. S., Patil V. A. published paper on “**Image watermarking using Least Significant Bit (LSB) Algorithm**” in International Journal of Trend in Research and Development, vol.3 Issue 3, May-June 2016 (IP:2) (ISSN: 2394-9333).
- 23) Tamboli S. S., Sayara S. Shikalgar published paper on “**Detail Image Enhancement Survey**” in International Journal on Recent and Innovation Trends in Computing and Communication , vol.4 Issue 2, February 2016 (ISSN: 2321-8169).
- 24) Tamboli S. S., Yewale V. B., Shinde S. S. published paper on “**Image Compression Techniques**” in International Journal of Recent Engineering Technology and Computer Research, Feb. 2016 (ISSN: 2348-2117).
- 25) Tamboli S. S., Tushar Mane presented paper on “**Tone Mapping Methods: a Survey**” in International conference on Recent Innovations in Engineering and Management (ICRIEM-2016), March 2016 (ISBN: 978-81-932074-5-1).
- 26) Tamboli S. S., Tushar Mane published paper on “**Tone Mapping Methods: a Survey**” in International Journal of Electrical and Electronics Engineers (IJEEE), vol.8, Issue 1, Jan- June 2016 (IP:1.6) (ISSN: 2321-2055).
- 27) Gaykwad Shekhar, Tamboli S. S., Shikalgar A. J., Shinde S. S. published paper on “

- Reform in Collectories With the Use of Information, Communication and Technology (ICT)**” in International Journal International Organization of Scientific Research (IOSR journal of Humanities & Social Science) , vol.21, Issue 6, Ver.5, June 2016 (IP:1.6) (ISSN: 2279-0845) DOI: 10.9790/0837-2106056070.
- 28) Tamboli S. S. Chougule Varsha published paper on **“Adaptive Front Luminous System Of Roadster On A Way Using Arduino”** in International Journal of Research in Engineering and Technology, July 2016
- 29) Tamboli S. S. Dr. V. R. Udupi published paper on **“Selective Coding for Multilevel Wavelet Image Compression”** in Indian Journal of Science & Technology, Vol.9 (29) DOI:10.17485/ijst/2016/v9i29/84951, August 2016. (Indexed in Thomson Reuters, Web of Science Master Journal List, Elsevier)
- 30) Tamboli S. S., Yewale V. B., Shinde S. S. published paper on **“IMAGE COMPRESSION USING MODIFIED FAST HAAR WAVELET TRANSFORM (MFHWT)”** in International Journal Of Engineering Sciences & Research Technology (IJESRT) (ISSN: 2277-9655) (IP: 4.116) DOI: 10.5281/zenodo.59969(Thomson Reuters end note) August 2016
- 31) Tamboli S. S., Vasagade Trushali, Archanaraje Shinde presented paper on **“Dynamic Solid Waste Collection and Management System Based on Sensors, Elevators and GSM”** in International Conference on Inventive Communication and Computational Technologies (ICICCT 2017), at REC, Coimbatore (IEEE conference) DOI: [10.1109/ICICCT.2017.7975200](https://doi.org/10.1109/ICICCT.2017.7975200)
- 32) Tamboli S. S., Sayali Mane presented paper on **“Neural Network Based ROI Detection and Hybrid Image Compression”** in 10th International Conference on Recent Innovations in Science, Engineering & Management (ICRISM-17, 7th July 2017) at DIET, Toopranpet (V), Choutuppal and published in **International Journal of advanced Technology in Engineering and Science**, Vol. No.5, Issue 07, July 2017 (IJATES)(ISSN-2348-7550)
- 33) Tamboli S. S., Shikalgar Sayara presented paper on **“Novel Approach for Content Based Adaptive Image Enhancement”** in 2nd International Conference on Inventive Computation Technologies (ICICT- August 24-25 2017) at RVC Technical Campus, Coimbatore. (IEEE conference)
- 34) Tamboli S. S., Tushar Mane presented paper on **“Improved Version of Tone Mapped**

- Quality Index**” at 3rd International Conference on Computing, Communication and Signal Processing (ICCASP- January 26-27 2018) at Dr. Babasaheb Ambedkar Technological University. (Springer conference)DOI: [10.1007/978-981-13-1513-8_82](https://doi.org/10.1007/978-981-13-1513-8_82)
- 35) Tamboli S. S., Shinde S. S., Patil V. A., Raste M. M. published paper on **“An Activity Based Approach (Aba): A Student-Centred Teaching And Learning In Engineering Studies”** in Asian Journal of Multidimensional Research (AJMR) Vol. No.6, Issue 12, Dec. 2017 (ISSN-2278-4853)
- 36) Tamboli S. S., Tushar Mane presented paper on **“Evaluating grade of tone mapped high dynamic range”** at 3rd International Conference on Signal Processing and Communication (ICSPC), 2017 July 28-29 2017) at Coimbatore, . (IEEE conference, Scopus indexed) DOI: [10.1109/ICSPC.2017.8305901](https://doi.org/10.1109/ICSPC.2017.8305901)
- 37) Tamboli S. S., Sayali Mane published paper on **“Neural Network Based ROI Detection and Hybrid Image Compression”** in International Journal of Creative Research Thoughts (IJCRT,) Vol. No.6, Issue 02, April 2018 (ISSN-2320-2882)
- 38) Tamboli S. S., Sandhya Chourasia et.al. published paper on **“Manufacturing of Cost Efficient Sanitary Napkins Incinerator Machine”** in International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) Vol. No.9, Issue 03, June 2019 (ISSN-2249-6890) DOI : [10.24247/ijmperdjun201989](https://doi.org/10.24247/ijmperdjun201989)
- 39) Tamboli S. S., Vasagade Trushali , Archana D. Shinde presented paper on **“Smart Solid Waste Collection and Management System”** in 2nd International Conference on Advanced Technologies for Societal Applications (Techno-Societal 2018 Springer book) DOI: [10.1007/978-3-030-16848-3_61](https://doi.org/10.1007/978-3-030-16848-3_61)
- 40) Tamboli S. S., V. R. Udipi, B. Subudhi presented paper on **“An efficient framework for increasing image quality using DRN Bi-layer enfolded compressor”** in **Multimedia Tools and Applications**, Jan. 2020 (Springer SCI Journal) <https://doi.org/10.1007/s11042-019-08227-3>
- 41) Shubham Valawade¹, Rachana Havaldar², Akib Tamboli³, Shabnam Tamboli **“Smart City under Swachh Bharat Mission Supporting Garbage Collection and Management System”** in Journal of Optoelectronics and Communication Volume 2 Issue 3 DOI: <http://doi.org/10.5281/zenodo.4045299>
- 42) Dr. Shabanam K. Shikalgar **“Brain Tumor Classification via Optimal Feature Selection and Optimal Trained Neural Network”** 2nd International Conference for Intelligent Technologies (2nd CONIT 2022) K. L. E. Institute of Technology, Hubballi

,IEEE Explorer.

- 43) Dr. Shabanam Tamboli, Rajasekhar Butta, T. Sharad Jadhav, Abhishek Bhatt,”
Optimized active contour segmentation model for medical image compression”,
Biomedical Signal processing and Control,(Elsevier) October 2022. DOI:
<https://doi.org/10.1016.bspc.2022-104244>. Impact factor 3.88
- 44) Shabanam Shabbir Tamboli, Rajasekhar Butta, BR Rajakumar, D Binu, Abhishek Bhatt
**“Optimized Active Contour Segmentation Model for Medical Image Compression:
Introduction to Improved Marriage in Honey Bees Optimization”** International
Journal of Engineering Education Vol. 3 Issue 2 September 2022.
<https://doi.org/10.14710/ijee.3.2.%25p>

Invited talks/ Expert lectures delivered

- 1) Expert lecture on Data Compression at AMGOI, Wathar
- 2) Expert lecture on Data Compression at VVP, Solapur
- 3) Expert lecture on RF& Microwave Circuit Design at VVP, Solapur
- 4) Expert lecture on Digital Signal Processing at VVP, Solapur
- 5) Expert lecture on Digital Signal Processing at SIT, Yadav
- 6) Expert lecture on Antenna & Wave Propagation at JJM. Jaysingpur
- 7) Resource Person for One Week Workshop on **“Digital Image Processing with Matlab”** on 11th -15th Nov.2019

Achievements/Awards

- **Completed CCNA instructor training**
- **NPTEL course on Accreditation and Outcome based learning(July-Sept-2021)**
- NPTEL certification Elite + Silver for the course Cloud Computing (July.2022)
- NPTEL certification Elite + Silver for the course Educational Leadership (Sep.-Nov.2020)
- In **5% topper list** for the NPTEL course **Educational Leadership** (Sep.-Nov.2020)
- **Silver medal in NPTEL** course on **“Digital Image Processing”** during July-Oct. 2019
- Published Paper in Thomson Reuters (Web of Science), Scopus indexed Journal and SCI.
- **100% result** award by Sant Dnyaneshwar Shikshan Sanstha, Islampur for Embedded

Systems (2009-2010)

- **100% result** award by Sant Dnyaneshwar Shikshan Sanstha, Islampur for Image Processing (2010-2011 and 2011-2012)
- Secured first rank in Kadegaon Centre in 10th standard.
- Secured rank in district scholarship merit list of 4th standard.
- Worked as Purdue NExT Facilitator for “Signal Processing of Embedded Systems”
- Got A grade in FDP on Image Processing arranged by EiTRA Ahmadabad
- **Completed collector sponsored project:** Reform in Collectories With the Use of Information, Communication and Technology (ICT)
- From interaction idea of starting **ADCET, motor driving school** has initiated.
- Received appreciation letter from Collector, Sangli for the work carried out while introducing Reform in Collector Office.
- Received appreciation letter from RTO, Sangli for the work carried out while introducing RTO Office Automation, women safety app at cities and taking initiative to start ADCET, Motor Driving School.
- **“e-Farmer app”** was developed during academic year 2015-2016 which was sponsored by “Collector office, Sangli”. The same was awarded with Rs. 10000/- by district parent minister Hon. Mr. Chandrakant Patil and Hon. Collector Mr. Shekhar Gaikwad.

Applied Proposal Details

- Applied for funding **in collaboration with TERI, Goa under Women Empowerment DST SEED scheme**, project title **“Study on Menstrual Hygiene, Management, and Waste Disposal: Practices and Challenges Faced by Girls/Women in India” (72 Lakh. Budget estimate Aug. 2019)**
- Developed **circular convolution** teaching model
- **Contribution in Laboratory development**
 - Advanced communication lab
 - Communication Lab
- **Contribution in Curriculum development**
 - Signals & Systems
 - Digital Signal Processing
 - Digital Image Processing
 - Soft Computing

- Digital Data Compression etc.
- Mechatronics Engineering UG & PG Autonomous syllabus

Book Published

Tamboli S. S., Mane Tushr D. published book “Optimizing Tone Mapped Image Quality Index and Enhance Image Quality with Iterative Algorithm.” In 2018 (Publisher Lambert).

Patent Details

- 1) Tamboli S. S. "AUTOMATED SOLID WASTE MANAGEMENT SYSTEM FOR EFFICIENT GARBAGE MONITORING" Patent proposal Ref. no. 201621035283 Dated: 14/10/2016
- 2) Tamboli S. S. "AUTOMATED SOLID WASTE MANAGEMENT SYSTEM WORKING ON REAL TIME MONITORING" Patent proposal Ref. no. 201621035284 Dated: 14/10/2016
- 3) Tamboli S. S. "GLOBAL POSITIONING SYSTEM SYNCHRONIZED CONTROL OF HEADLIGHT DIRECTION OF VEHICLE" Patent proposal Ref. no. 201621035290 Dated: 14/10/2016
- 4) Monitoring Milk quality Using Mobile App (Image Processing Technology) Ref. No. 202121006118 Dated 13/02/2021
- 5) A System For Regulated Distributed Deep Learning In Cloud And Smart Mobile Devices Application No. 202121025112 Dated:06/06/2021
- 6) IoT Based Smart Agriculture: Application Number: 202321018648 Date of Filing: 19/03/2023

Social activities:

- Member of “Gulam-E-Panjtan” Foundation.
- Arranged blood donation camp.
- Participation in various activities of foundation

I hereby declare that above information is true.

Dr. Shikalgar S. K.