

Profile

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I. About Me

Consistently demonstrates a commitment to the development of research in the field of electronics and communication, and her effective leadership and team working spirit, nurturing good faculty relationships with the best pedagogical practice skills helped to secure the financial and academic growth of the institute.

II. Administrative Experience

1. Professor and Dean, Sharnbasva University, from May 2019 to Till Date
2. Professor and Dean, Faculty of Engineering & Technology (Exclusively for Women), from August 2017 to April 2019.
3. Professor and Principal, Godutai Engineering College for Women, Kalaburagi, from January 2014 to July 2017
4. Chief Warden, Appa Women's Hostel, 2009-2011.
5. Governing Council Member, SSK College of Commerce and Arts, Basavkalyan.

III. Institutional Developments

1. Committee member for Starting a Sharnbasva University, and it has been got the approval from the Govt. of Karnataka.
2. Main Co-Ordinator for starting a new course, Faculty of Architecture in Sharnbasva University and it has been approved by the Council of Architecture, New Delhi from the academic year 2018.
3. Acted as an AICTE Approval committee member of Sharnbasva University, and all the Engineering (UG and PG Courses) and Management courses (MBA) run under the Sharnbasva University including Master of Computer Applications (MCA)
4. The Main Co-Ordinator for starting a new course "Artificial Intelligence and Machine Learning", Faculty of Engineering & Technology (Exclusively for Women) in Sharnbasva University and it has been approved by the AICTE, New Delhi from the academic year 2021-2022.

IV. Teaching Credentials

Teaching and learning with Postgraduate students and guiding students of Electrical and Electronics Engineering towards B. Tech., M. Tech. and Doctoral Degree (Ph. D.) program regularly.

1. Lecturer, Appa Institute of Engineering and Technology, Gulbarga, from 8th August 2008 – 30th April 2012.
2. Assistant Professor, Godutai Engineering College for Women, Kalaburagi., from 1st May 2012 – 30th September 2013.
3. Associate Professor, Godutai Engineering College for Women, Kalaburagi., from 1st Oct. 2013 – 4th January 2014.
4. Associate Professor and in charge Principal, Godutai Engineering College for Women, Kalaburagi, 5th January 2014 – 30th July 2017.
5. Professor and Dean, Faculty of Engineering & Technology (Exclusively for Women), Sharnbasva University, Kalaburagi from 1st August 2017 to till Date

Thesis Guided

Thesis Guided – M. Tech.: 03

1. **Title 1:** User Recognition Based on Face Using Local Binary Pattern (LBP) With Artificial Neural Network
2. **Title 2:** Face Identification Based on SVM Technique
3. **Title 3:** Face Organ Detection Using CNN

Ph. D Guided/Supervision: 05

1. Title: Investigation of Artificial Intelligence Methods in Image Analytics and Computer Vision by Mrs. Shivganga Patil,
2. Title: FGPA-based Hybrid Image Fusion Model for CT and MRI Images by Mrs. Shruti V H
3. Title: Medical Image Denoising and Enhancement using various filters by Mrs. Laxmi Patil
4. Title: Novel Approach Gender Identification and IQ from rs-fMRI of the Brain by Mrs. Shobana.
5. Title: By Sharan Tadkal

Subject Handled:

- Digital Image Processing
- Power Electronics
- Basic Electronics
- Electromagnetic Field Theory
- VHDL
- 8051 Microcontroller, 8086 Microprocessor
- Research Methodology etc.

V. Research Profile

• Research papers published in National/International Journals

1. Literature Review on Investigation of Artificial Intelligence Methods in Image Analytics and Computer Vision, IEEE Conference, 2022.
2. Review on FPGA-based hybrid image fusion model for CT and MRI Image, accepted for Journal of Oriental Research Madras.
3. Published paper on “A Matlab Based Facial Recognition using Image Processing”, International Journal of Recent Scientific Research, Vol 11, Issue 05, August 2020.
4. Review of different face recognition techniques, International Journal of Research and analytical Review, ISSN: 2349-5138, January 2019.
5. Published paper on “Real-Time Face Detection using Matlab”, International Journal of Research in Advent Technology Vol. 7, No. 9, September 2019.
6. Published Paper on “Modified SVD based Face Recognition using Hidden Markov Models”, Journal of Adv Research in Dynamical and Control System, Vol.10, 13-Special Issue, 2018.
7. Published Paper on “Performance Analysis and Design of Automatic a Real-Time Face Organs Identification and Classifications”, Indian Journal of Science and Technology, Vol 10(8), DOI 10.17485/it/2017/v10i8/110296, February 2017.

• International/National Conferences:

1. Presented a paper on Medical Image Denoising and Enhancement using various filters: A Review, National conference on RTEMS-2022.
2. Presented a paper on MRI Medical Image Denoising and Enhancement using various filters: A Review National conference on RTEMS-2022.
3. Presented paper on “Performance Analysis of Face Detection using Viola and Jone Algorithm”, AICTE Funded International Conference on Recent Trends in Computers, Electronics and Electrical Engineering (ICCEEE2020),

<p>St. Peter's Engineering College, Hyderabad, August 24-26, 2020.</p> <ol style="list-style-type: none"> Presented paper on "Performance Analysis for Real-Time Face Detection using Viola and Jones Algorithm", AICTE sponsored International Conference on Recent Trends in Computers, Electronics and Electrical Engineering (ICCEEE2020), St. Peter's Engineering College, Hyderabad, April 28-29, 2020. Presented Paper on "Face Recognition with Inception based CNN Models", International Conference on Smart Energy and Communications held on Mar 20-21, 2020, at Department of Electronics and Communication Engineering and Department of Electrical Engineering, Poornima Institute of Engineering and Technology, Jaipur, India. Presented Paper on "Comparative study of Different Face Recognition Technique", International Conference on Signal Processing, Communication and System Design (ICSPCOMSD-2019). ISBN: 978-93-83038-75-6.
<p>Patents (Innovation Thinking)</p> <ol style="list-style-type: none"> Title "System and Method of Analysing Vibration on Machines" has been patented in 2020. Title "Face Recognition Using Hybrid Technique", patent published in 2020. Title "A Novel VLSI based Architecture for Stroke Detection Using Optimized Resource Allocation", patent published in 2021. Title "Parameter Optimization for 5G transmission", patent published in 2022.
<p>1. Books/Chapters Published:</p> <p>Book Chapter:</p> <ol style="list-style-type: none"> RF Sputtered Gold Nanoparticles Based GigaHertz Epoxy Layer Novel Patch Antenna with Defected Ground Structure in Recent Developments in Computing, Electronics and Mechanical Sciences (ISBN: 978-81941281-9-9). Published during June 2020, "Advances in Machine Learning and Deep Learning Algorithms and Their Applications", Kiran Maka, Lakshmi Maka and Pazhanirajan, S., In Mallick, P.K., Bhoi, A.K., Marques, G., Hugo C. de Albuquerque, V. (eds) Cognitive Informatics and Soft Computing. Advances in Intelligent Systems and Computing, vol 1317. Springer, Singapore. https://doi.org/10.1007/978-981-16-1056-1_59, 2021. "Extensive Research on Adaptive Intelligence Cognitive and Machine Learning for Computing Technology", Kiran Maka, Lakshmi Maka, and Pazhanirajan, S., In Mallick, P.K., Bhoi, A.K., Marques, G., Hugo C. de Albuquerque, V. (eds) Cognitive Informatics and Soft Computing. Advances in Intelligent Systems and Computing, vol 1317. Springer, Singapore. https://doi.org/10.1007/978-981-16-1056-1_56, 2021. <ol style="list-style-type: none"> Book Title: In the true spirit of Dasoha. Book Title: Poojya Dr. Appaji's Contribution in the field of Women Education. Book Title: Effective Teaching Learning and Research Skills towards Global Standards.
<p>Invited Talks/Session Chairs of Conferences</p> <ol style="list-style-type: none"> Innovative talk on "Recent Trends in Communication System", on 4th June 2020 at VSM's Somashekhar R. Kothiwale Institute of Technology, Nipani 591237. Guest Speaker for "Advances in Communication Systems" National Conference on Recent Trends in Engineering and Management Studies (RTEMS- 2022), organized by Lingrajappa Engineering College, Bidar held on 12th & 13th August 2022. Session chair of IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS-2023) 24th and 25th November 2024 Session chair of 2nd IEEE International Conference for Women in innovation, Technology and Entrepreneurship (ICWITE 2024) held on 16-17th Feb. 2024.
<p>VI. Events Organized</p> <ul style="list-style-type: none"> Conferences Organized: National Conferences:

1. Acted as a Convener for National Research Conference on Engineering, Business Management, Sciences, Humanities & Social Sciences – 2022 (NRCEBSHS-2022) held on 6th March 2022, in association with IETE Sub Center Kalaburagi.
2. Acted as a Convener National Conference on Recent Trends in Engineering and Management Studies (RTEMS- 2022), in association with Sharnbasva University Kalaburagi held on 12-13th November 2022.
3. Advisory Committee member of the National Conference on New Horizons in Biological Science for Plant and Human Welfare (NHBSPHW-2K22) held on 9th March 2022.
4. National Conference on Recent Developments in Tribology and Application (RDITA-2K22) held on 9th March 2022.

• **International Conferences:**

1. Chair for IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS-2023) 24th and 25th November 2024.
2. Acted as a Convener for the International Conference on Multidisciplinary Research (ICMR-2022), 22nd – 24th Nov. 2022.
3. Organized and Co-ordinated an International Conference on Recent Trends in Science Engineering Business Studies Humanities & Social Science, 30th, 31st, and 1st Sept. 2019.
4. Organized and Co-ordinated an International Conference on Internet of Things (IconIoT 2K17), 28th Feb & 1st March 2017.

• **Faculty Development Program (FDP)/ Workshop Organized/Conducted:**

1. Organized two Days Workshop On “Quantum Computing and Communications: New Paradigm” On 28th February 2023 & 1st March 2023.
2. In association with ICT Academy organized a 3 days Faculty Development Program (Direct Mode) on "Idea Generation Methods" at Sharnbasva University, Kalaburagi from 10th January to 12th January 2023.
3. Organized a Workshop on Hands-on Workshop on Machine Learning with Python” 24th April 2021-26th April 2021.
4. Organized a One Week Faculty Development Program on “Big Data Analytics with Hadoop” 9th March 2022- 13th March 2022, In association with IEEE Women in Engineering Affinity Group Chapter, IEEE Bangluru Section.
5. Organized an FDP on “Effective Teaching Learning and Research Skills Towards Global Standards in Higher Education.” 8th to 13 Jan 2015.
6. Organized an FDP on the Application of Lab VIEW in Teaching & Research dated 17th – 22nd June 2019.

• **Seminars Organized:**

1. Organized an International Seminar on Neoteric Frontiers in Cloud, Edge and Quantum Computing on 5th January 2023.
2. Coordinated to organize a Seminar on “Health and Wellbeing through Yoga” on 24th April 2022.
3. Coordinated to organize a webinar on “Mutual Funds: A tool of Prosperity” on 20th May 2022.
4. Organized one-day seminar on “India’s National Policy 2021 for Higher Education” on 11th
5. Seminar one day on “Research Methodology” on 7 May 2022, in Association with IEEE Women in Engineering AG student Chapter.
6. Webinar on “Blockchain Technology” on 22 Jan. 2022.
7. Coordinated to organize a webinar on “Strategy for Managing Personal Finance” on 3rd Feb. 2022.
8. Seminar on “Women in Entrepreneurship” on 1st Feb 2022
9. Webinar on “Niche Technology”, dated 6th Jan 2022.
10. Webinar on “IEEE Women in Engineering Student Branch Affinity Group”, dated 14th April 2021
11. Webinar on “Humanitarian Perspectives in Shakespearean Plays”, dated 22nd Nov. 2021
12. Webinar on “Outcome-based Education (OBE)”, dated 9th July 2020

13. Webinar on “Research opportunities in Electrical Drives”, 10th July 2020
14. Webinar on “NEP 2020 – Overview on Curriculum Pedagogy, Regulations & Accreditation” dated 18th Nov. 2020

VII. Co-curricular & Student welfare Activities/Other Extension Activities organized

1. Coordinated to organize 15 days of Yoga training camp on Common Yoga Protocol.
2. Organized the 75 Crore Surya Namaskar Project on Amrit Mahotsav Celebration, 75th Anniversary of Independence Day.
3. Awareness Program on “Menstrual Hygiene and Obesity” on the eve of international women’s Day on 02-03-2022
4. Swachh Bharat Abhiyan on 02/ 10/2019
5. 4 days Webinar Series gave IDY 2021 from 17-06-2021 to 20-06-2021.
6. World Environment Day on 5 -06- 2021
7. World No tobacco Day on 31-05-2021
8. Seminar on Health and Wealth on International Women’s Day organized on 5-3-2021
9. Republic day on 26-01-2021
10. Rashtriya Ekta Diwas on 31-10-2020
11. Tree Plantation on 28/06/2020
12. World Environment Day on 5-6-2020 (online mode)
13. Walkathon on International Women’s Day on 5-3-2020
14. World AIDS day on 03/12/2019.
15. Blood Donation camp on 14/11/2019.
16. Jal Shakti Abhiyan on 02/ 10/2019.
17. Antiterrorism day on 21/05/2019.

The co-curricular and student welfare activities organized on International Women’s Week of our Institute are as follows:

1. Job Fair: 30 Industries are participating. All UG and PG prefinal year & Final Year
2. Seminar on “Women Leadership Qualities” 3rd March 2021. Organized Co-Curricular Activities Such as Quizzes (General, Group origami Contest on 3rd March 2021,
3. Speech Competition on “The Impact of Pandemic on Women” on 5th March 2021.
4. Organized Speech competition, Bangle Making, and Quiz Competition on 2- 03-2022.

VIII. Short-term term Training Programme/Conference/Seminars/FDPs attended

1. Successfully completed the recently held training program titled "IIT Kanpur Intensive Training School ITS on PYTHON for Machine Learning Neural Networks and Deep Learning on dated 10th to 30th September, 2022", organized by Prof. Aditya K. Jagannatham, EE Department, IIT Kanpur.
2. Participated in BEL-IETE Symposium 2022 on Artificial Intelligence and Machine Learning for Next Generation, Held at BEL Academy of Excellence (Nalanda), Bangalore from 18-20 May 2022.
3. Participated in One Week Faculty Development Program on “Big Data Analytics with Hadoop” 9th March 2022-13th March 2022, In association with IEEE Women in Engineering Affinity Group Chapter, IEEE Bangluru Section.
4. Participated in “ Hands-on Workshop on Machine Learning with Python” held on 24th to 26th April 2021 organized by Dept. of Computer Science & Engg. , Sharnbasva University, Kalaburagi.
5. Participated in “Emerging & Transformative Technologies Post Pandemic Era” organized by faculty of Engg. And Technology, Sharnbasva University, Kalburgi from 29-06-2020 – 1-07-2020.
6. Participated in a one-week workshop op Full Stack Development from 19-4-2020 to 25-4-2020, Sharnbasva University, Kalaburagi.
7. Participated in Workshop on Artificial Intelligence and Machine Learning from 12th and 13th April 2019.
8. Participated in one day webinar on “Machine learning with Python and Cloud Deployment” organized by the Faculty of Engineering and Technology (Co-Ed.) (APPA Institute of Engineering & Technology), Department of CSE on 09th July 2020, Sharnbasva University, Kalaburagi.

9. 4. Participated in a webinar on “Course Outcome-Based Education (OBE)” organized by the Faculty of Engineering and Technology (Exclusively for Women), Department of Electronics & Communication Engineering on 9th July 2020, Sharnbasva University, Kalaburagi.
10. Participated in One Week Faculty Development Program on “Applications of Lab VIEW in Teaching and Research” from 17th -22nd June 2019 at Department of Electronics and Communication Engineering & Technology, Sharnbasva University, Kalaburagi, Karnataka, India.
11. Participated in the Workshop on Python Programming and its Application from 29/3/2019 – 31/3/2019.
12. Participated in the three days workshop on Research Methodology & Technical Documentation using Latex from 3rd – 5th May 2018
13. Three days workshops on Embedded C putting Systems, 3rd to 5th August 2009 organized by R L Jalappa Institute of Technology, Doddaballapur.
14. Three days workshops on Vector Control of Induction Program from 17th March 2011 to 19th March 201, organized by VTU Belagavi.
15. Participated in a “Mission 10X workshop conducted at Poojya Doddapa Appa College of Engineering at Gulbarga from 9th February to 13 February 2009.
16. Participated in and completed a workshop on “High Impact Teaching Skills” Attested by DaCarCarnegie & Associates, Inc. Trainer and Wipro on the 9th & 10 February 2009.

IX. Personal Profile:

Name and Designation:	Dr. Lakshmi B. Patil Dean, Sharnbasva University, S B Institutional Campus, Kalaburgi – 585103, Karnataka.		
Date of Birth:	19/02/1987		
Qualification	Degree	Year	University / Institution
	BE (Electronics & Comm. Engg.)	2009	Appa Institute of Engineering & Technology, Gulbarga
	M. Tech. (Power Electronics)	2013	PDA College of Engineering, Gulbarga
	Ph. D.	2020	Visvesvarya Technological University, Balagavi, Karnataka
	PDF	2022	Srinivas University, Manglore
Field of Specialization	<ul style="list-style-type: none"> • Digital Image Processing • Artificial Intelligence and Machine Learning • Communication Systems 		
No. of Years of Teaching Experience	1) UG: 8 2) PG: 7 3) Research: 5 Total: 16		
Address	SB Staff Quarters,		

	S. B. Institutional Campus Kalaburgi – 585103 Karnataka.
Membership of Professional Bodies:	<ol style="list-style-type: none"> 1. Life Member of Indian Society for Technical Education (ISTE) – LM77155 2. Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) -968332158 3. Member of Institute of Electronics and Telecommunication Engineers (IETE)- F-502234
Member of Various Academic Bodies:	<ol style="list-style-type: none"> 1. Member, Board of Management, Sharnbasva University, Kalaburagi. 2. Member, Academic Council, Sharnbasva University, Kalaburagi. 3. Member, Governing Council Member of SSK, Basavkalyan. 4. Member, Women Empowerment Cell, Sharnbasva University, Kalaburagi. 5. Member IQAC Cell, Sharnbasva University, Kalaburagi. 6. Member Grievance Redressal Cell, Sharnbasva University, Kalaburagi. 7. Member, Board of Studies, Department of E &CE, Sharnbasva University, Kalaburagi. 8. Member, Board of Examination, Sharnbasva University, Kalaburagi. 9. Member, Board of Studies, Department of AI and ML, Sharnbasva University, Kalaburagi. 10. Doctral Committee member of Ms. Vijaylakshmi, Pursuing Her Ph. D in VTU, Balgavi. 11. Member, VTU e-Consortium for the academic Year 2015-16.
Other contributions:	<ol style="list-style-type: none"> 1. Member of Women Empowerment Cell 2. Member of Grievance Redressal Cell of Aharnbasva University. 3. Core-Committee Member of NAAC, Sharnbasva University, Kalaburagi. 4. Chairman, Anti-Ragging Committee, Sharnbasva University, Kalaburagi.

Achievements/Awards Received

Award Name	Organization	Awarded in the year
Smt. Triveni Devi Gupta Memorial Award (2022)	Institution Of Electronics and Telecommunication Engineers	2023
Shayesta Akhtar Memorial National Award for the Best Women Engineering College	Indian Society of Technical Education (ISTE)	2022
Shakti Award -2022	Shree Mahalakshmi Shakti Peetha	2022

	Vishwapriya Vishveshateertha Shree	Shree Vishweshwara Teertha Shreepada	2022
	Iconic Education Leadership Award	FAMA Global Management Services	2021
	Kitoor Rani Channamma Award	Veerashaiva Lingayat Yuva Vedike, Kalaburagi, India	2020
	Kayaka Ratna Award	Sharnbasva University, Kalaburagi, Karnataka	2020
	Honored as “ Best Engineer” on the Eve of Engineers Day	Lions Club of Gulbarga, Nrupatunga	2018