FACULTY PROFILE

Name	:	Dr. K.Shridhar

Designation	:	Professor and HOD
Department	:	Electronics and Communication Engineering
Employee ID	:	1- 462211281
E mail ID	:	College Official ID: sskec@becbgk.edu
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Contact details	:	Dr.K.Shridhar
		Professor and Head
		Department of Electronics and Communication Engineering
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Orcid ID	:	https://orcid.org/0000-0002-3150-7600
Scopus ID	:	57192541637
Vidwan Id	:	170013
Researcher ID (Web of Science)	:	AAI-4803-2021
Google Scholar ID	:	TfqBWDYAAAAJ
Qualification	:	B.E (Electronics and Communication Engineering)
		M.Tech (Digital Electronics and Advanced Communication)
		Ph.D (Speech Signal Processing)
Professional Experience		
Teaching experience	:	31 Years
Industry experience	:	00
Administrative Responsibilities	:	1. Head of the department since 02-11-2020
		2. P.G Course Coordinator
		3. P.G NBA Coordinator
		4. U.G NBA Coordinator
		5. BOG Member

6. Admission coordinator for the academic year 2019-20
7. BEC Autonomy policy framing committee member
8. BEC Policy and procedures framing committee member
9. GoK Mahiti-Sindhu computer education program evaluator

Teaching	**:**	
No. of Projects Guided		
UG	**:**	80
PG	**:**	20
Research		
Interest Area	**:**	1. Speech signal processing
		2. Control systems
		3. Electronic devices
		4. Signal modeling
No. of Research Scholars		
Pursuing	**:**	07
Awarded	**:**	00
Patents	**:**	00
Research Grants	**:**	00
Publications	**:**	00
Books/Chapters		

Journals (with citations)   :

1. Dr.(Mrs) S.D.Apte, Shridhar. " Speech Enhancement in Hearing Aids using Conjugate Symmetry Property of Short Time Fourier Transform" International Journal of Recent Trends in Engineering, Academy publishers, Finland, Nov 2009, Vol 2, No 1-6, pp 346 -351. No of citations 1

2. Dr.(Mrs) S.D.Apte, Shridhar. " Speech Enhancement in Hearing Aids using Conjugate Symmetry of DFT and SNR-Perception Models " International Journal of Computer Applications (0975-8887)". Computer Society of America Publishers, USA. 2010 Volume 1-No.21. pp 43-51. No of citations 5

3. Supriya. P. Sarvade, Dr. Shridhar. K and Varun. P. Sarvade. "Time Efficient Structure for DFT Filter Bank" International Journal of Emerging Trends in Science and Technology, Volume 03, Issue 11, Year 2016-2017, Pages 4791-4794, IGM Publication, ISSN No: 2348-9480

4. Supriya. P. Sarvade, Dr. Shridhar. K and Varun. P. Sarvade. "Multiband Spectral Subtraction for Speech Enhancement Using Sine Multitaper" IOSR Journal of VLSI and Signal Processing" Volume 06, Issue 06, Version II, Pages 70-76. e-ISSN: 2319-4200, p-ISSN No: 2319-4197.

5. Megha S. Karabashetti, Dr. Shridhar S. K. "Speech Enhancement using Multiband Spectral Subtraction with Cross Spectral Component Reduction" International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181. Special Issue – 2019, Volume 7, Issue 10, pp 1-4.

6. Anand H.Unnibhavi, D.S.Jangamshetti, Shridhar K. "Triphone Model Based Novel Kannada Continuous Speech Recognition System using Kaldi Tool" International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-9, July 2020, pp 452-458.

7. Jagadish S.Jakati, Shridhar S.Kuntoji, "Speech Enhancement Using Novel Time Frequency Analysis Techniques: "A Survey on Speech Enhancement". International

Journal of Advanced Trends in Computer Science and Engineering, Volume 9, No.4, July- August 2020. Available Online at
http://www.warse.org/IJATCSE/static/pdf/file/ijatcse09942020.pdf
https://doi.org/10.30534/ijatcse/2020/09942020

8. Jagadish S.Jakati, Shridhar S.Kuntoji, "Efficient Speech De-noising Algorithm using Multi-Level Discrete Wavelet Transform and Thresholding", International Journal of Emerging Trends in Engineering Research. Volume 8. No. 6, June 2020. Available Online At http://www.warse.org/IJETER/static/pdf/file/ijeter43862020.pdf
https://doi.org/10.30534/ijeter/2020/43862020

9. Jagadish S.Jakati, Shridhar S.Kuntoji, "A Noise Reduction Method Based on Modified LMS Algorithm of Real time Speech Signals". Wseas transactions on Systems and Control DOI: 10.37394/23203.2021.16.13, E-ISSN: 2224-2856, Volume 16, 2021

Conferences :

1. Shridhar, A.V. Sutagundar, M.S.Tambakad "Wavelet based Approach to Image Compression", Proceedings of National Conference on High Performance Computing, VISION –05, organized by Govt. College of Engineering, Tirunelvelli, Tamil Nadu, on 08-04-2005, pp 49-52.
2. Shridhar, S.D. Apte, "Maximum likelihood estimation of Speech model parameters for speech recognition using HMM", Proceedings of National Conference on Mathematical methods and Applications, Organized by Basaveshwar Engineering College, Bagalkot, during 17-18 March 2007, pp 39-40.
3. Shridhar, B. Veeresh, "Wavelet based Novel Image Compression using Embedded zero tree encoding technique", Proceedings of National Conference on Signal Processing and Communication, organised by JNNCE, Shimoga, during 07-08 July 2007, pp 19-20.
4. Shridhar, R. S.Allurkar H.K. Verma, "Hearing aid research issues: Current trends and Challenges", Proceedings of IEEE International Conference on Signal and Image Processing- 2006, organised by BVB College of Engineering and Technology, Hubli, during 7-9 Dec. 2006, pp-62-63.
5. Shridhar, B.S.Anami, R.S.Allurkar, D.S.Albur, " Two channel Perfect Reconstruction Filter Bank", Proceedings of Indian Conference on Technologies for postal automation, organised by Basaveshwar Engineering College, Bagalkot, during 5-6 Oct. 2007, pp73-75.
6. Srinivas P, S.V.Mahapurush, Shridhar k. "Simulation and comparison of IEEE physical layer for Standards 802.11a and 802.11b" Proceedings of National conference on Recent trends in Electronics and information Technology organised by S.R.E.S.S. College of Engineering, Kopargaon Maharastra. During the period 28th -29th July 2006.pp 81-87.

7. Shridhar K. B.L.Patil. "Role of neural network based grain analysis in agricultural development". Proceedings of National seminar on contemporary challenges for Indian agriculture and rural development. Organised by UAS Dharwad, during 08th -10th Jan 2004. pp.163.

8. International Conference on Futuristic Computer Applications, IISc, Bangalore, "Speech Enhancement in Hearing Aids using Conjugate Symmetry of DFT and SNR-Perception Models", March 20-21, 2010, pp 43-51

9. Proceedings of National Conference on Mathematical methods and Applications, Basaveshwar Engineering College, Bagalkot, "Maximum likelihood estimation of speech model parameters for speech recognition using HMM", March 17-18, 2007, pp 39-40.

10. Proceedings of Third International Conference on Electrical, Electronics, Communication, Computer technologies and Optimization Techniques (Sponsored by IEEE), GSSS Women Engineering College, Mysore, "Survey on Speech Enhancement Using Filter Banks", December 14-15, 2018, pp 781-785.

Invited Talks :

1) An invited talk on "VLSI in signal processing" at AICTE-ISTE sponsored STTP on semiconductor physics and VLSI design organized by Basaveshwar Engineering College, Bagalkot during 07th –19th, Feb. 2005.

2) An invited talk on "Elements of digital signal processing" at AICTE sponsored workshop on signal processing for polytechnic teachers organized by BVVS polytechnic Bagalkot during the year 2003.

3) An invited talk on "Fundamentals of Multi rate signal processing" at world bank sponsored faculty development program on digital signal processor and its applications organized by department of instrumentation technology of Basaveshwar Engineering College, Bagalkot during 25th –30th, Sept. 2006.

4) An invited talk on "Multi rate systems and filter banks" at world bank sponsored faculty development program on signal processing and its applications organized by department of Instrumentation Technology of Basaveshwar Engineering College, Bagalkot during 9th –11th, Oct. 2006.

5) An invited talk on "Multi rate signal processing" at National workshop on digital signal processor and its applications organized by BLDEA College of Engineering and Technology, Bijapur, during 27th –29th, Sept. 2007.

6) An invited talk on "Speech Processing with multi-rate signal processing" at national workshop on wavelets and its

applications organized by Basaveshwar Engineering College, Bagalkot, during 13th -15th, March 2008.

7) An invited talk on "Spread Spectrum Modulation Techniques" at AICTE-ISTE sponsored STTP organized by BVVS Polytechnic, Bagalkot during 23rd -27th, June 2008.

8) An invited talk on "Speech Enhancement" at Pune University sponsored STTP on "Emerging trends in speech signal processing" organized by "All India Shri Shivaji Memorial Society's Institute of Information Technology" Pune from 15-01-2015 To 19-01-2015.

9) An invited talk on "Research in Speech Enhancement" at G.H.Raisoni institute of engineering and technology, Pune, AICTE sponsored three days national level seminar on "Audio and speech processing" from 12-11-2013 to 14-11-2013.

10) An invited talk on "MATLAB Programming" during one day workshop on MATLAB, organized by first grade degree college Bagalkot on 14-03-2015.

11) An invited talk on "MATLAB Programming" during one day workshop on MATLAB, organized by B.L.D.E.A. Polytechnic, Bijapur on 19-09-2015.

12) An invited talk on "MATLAB Programming" was delivered on 23rd January 2017 during three day workshop from 23rd to 25th January 2017 on "Image Processing", organized by Sri S. G. Balekundri Institute of Technology Belgaum.

12) An invited talk on "MATLAB Programming and its applications" was delivered on 30th May and 01st June 2017 during one week refresher course from 29th May to 03rd June 2017 on "Physics organized by Sri BVVS Basaveshwar Science College Bagalkot under Journey Towards Excellence program of Sri Basaveshwar Vidyavardhak Sangha Bagalkot.

13) An invited talk on "Advanced DSP and its Applications" was delivered on 23rd February 2019, organized by department of Electrical and Electronics Engineering, Jain Institute of Technology, Davanagere, Karnataka.

14) Invited lecturer series on MATLAB was delivered from 24th August 2020 to 29th August 2020, organized by Basaveshwar Science College Bagalkot under Professional Development Training Programme.

15) Invited online talk during webinar on "Speech Enhancement" was delivered on 11th November 2020, organized by ECE department of Angadi Institute of

Technology and Management, Belagavi.

16) Invited talk in AICTE sponsored online FDP on "Fostering Ethics, Moral Values and Character Building in Technical Education" was delivered on 21st December 2020, organized by Shri Venkateshwara College of Engineering Bangalore.

17) Invited online talk in IEEE 8021.11 Wireless Networks, A Gigabit Journey Course Series on " FFT, IFFT and OFDM was delivered on 27th December 2020, organized by Rishivaakya Academy Bangalore.

18) Invited online talk in IEEE 8021.11 Wireless Networks, A Gigabit Journey Course Series on " FFT, IFFT and OFDM was delivered on 10th January 2021, organized by Rishivaakya Academy Bangalore.

| **Events Organized** | : | 1) FDP on "Advances in Control Systems" organized by Basaveshwar Engineering College, Bagalkot and IIT Bombay, during 25-02-2017 To 27-02-2017. |
| **Conferences/ Symposiums/ Workshops/ Training Programs Attended** | : | |

Sl. No	Training Program	Organized by	Period
1.	Workshop on Image and Signal Processing (WISP-2007)	IIT Guwahati	28-29, Dec. 2007
2.	STTP on Embedded Systems and Technology	IIT Kharagpur	25-30, June 2007
3.	Recent Trends in Signal Processing and Wireless Communication	GND Engineering College, Bidar	1-2 March 2007
4.	STTP on SCADA & PLCs for Industrial Automation	Basaveshwar Engineering College Bagalkot and TEQIP World Bank	21-23, Dec. 2007
5.	Digital Signal Processor and its Applications	Basaveshwar Engineering College Bagalkot and TEQIP World Bank	25th to 30th, Sept. 2006
6.	Signal Processing and its applications	Basaveshwar Engineering College Bagalkot and TEQIP World Bank	9th to 11th, Oct. 2006
7.	STTP on speech and image processing.	Basaveshwar Engineering College and TEQIP world bank	23rd -28th, July 2007.
8.	MATLAB Programming for Electrical & Electronics faculty	Basaveshwar Engineering College Bagalkot and TEQIP World Bank	16th Oct. 2006
9.	STTP on Internet Protocols	Basaveshwar Engineering College Bagalkot and TEQIP World Bank	21-26 Aug. 2006
10.	Mathematical modeling for Digital Image Processing	Basaveshwar Engineering College, Bagalkot	09-01-2006 to 14-01-2006
11.	Workshop on M. Tech Syllabus formation	MSRIT Bangalore	18-11-2005
12.	Workshop on Flash microcontroller and DSP	BIT Bangalore	04-08-2005 to 09-08-2005
13.	STTP on Semiconductor physics and VLSI design	Basaveshwar Engineering College Bagalkot	07-02-2005 to 19-02-2005
14.	National level seminar on recent trends in computer communication and networking	Basaveshwar Engineering College Bagalkot	15-03-2005 to 16-03-2005
15.	STTP on Embedded Systems and Applications	Basaveshwar Engineering College	22-03-2004 to 27-03-2004

		Bagalkot	
16.	Learning Organization and Knowledge Management in Technical Education.	Basaveshwar Engineering College Bagalkot and AICTE-ISTE	16th to 21st Feb. 2004
17.	STTP on Futuristic Materials and their applications	Basaveshwar Engineering College Bagalkot and AICTE-ISTE	18-08-2003 to 30-08-2003
18.	STTP on Wavelet based Computer graphics and image processing	Amruta Institute of Technology & Science Coimbatore and AICTE-ISTE	20-01-2003 to 31-01-2003
19.	STTP on Processing of Composite materials	Basaveshwar Engineering College Bagalkot and AICTE-ISTE	26-08-2002 to 07-09-2002
20.	STTP on recent trends in Renewable energy sources	Basaveshwar Engineering College Bagalkot and AICTE-ISTE	03-09-2001 to 15-09-2001
21.	National Seminar on Technical Education and Challenges in the New Millennium	Basaveshwar Engineering College Bagalkot and AICTE-ISTE	03-11-2001 to 04-11-2001
22	National Workshop on M-CORE Microcontroller and Code Warrior	VTU-Motorola	16-10-2000 to 22-10-2000
23	STTP on Advanced Computer networking	Basaveshwar Engineering College Bagalkot and AICTE-ISTE	14-09-1998 to 27-09-1998
24	STTP on IBM PC based intelligent Instrumentation	MIT Manipal and AICTE-ISTE	07-07-1997 to 27-07-1997
25	Induction Training Program	K.U.D. Dharwad and ISTE	05-06-1997 to 25-06-1997
26	Electronic Design Automation Tools	AICTE Sponsored National Workshop organized by E &CE Dept. Basaveshwar Engineering College, Bagalkot	19th to 21st Oct 1995
27	National workshop on Basics of Wavelets and applications	Basaveshwar Engineering College, Bagalkot	13th -15th March 2008.
28	Faculty Development Program on computer network simulation. .	Basaveshwar Engineering College and TEQIP.	21st -23rd Feb 2008.

29	Workshop on Modeling and simulation using MATLAB simulink for electrical engineers.	Basaveshwar Engineering College, Bagalkot.	22nd -23rd March 2008.
30	Post Graduate Technical Symposium.PRAGATI-06	B.V.B. College of Engineering and Technology.	09th Sep 2006.
31	Workshop on counseling techniques.	Basaveshwar Engineering College Bagalkot.	25th Aug 2006.
32	QEEE Training program on Digital Signal Processor Lab	IIT Madras	$25^{th} - 26^{th}$ June 2015
33	Management Capacity Enhancement Programme	IIM Lucknow (Noida Campus)	$05^{th} - 09^{th}$ October 2015
34	International Training Program on Small Satellite Missions and Technology	Indian Space Research Organization Bangalore and Indian Institute of Remote Sensing Deharadun.	21Nov – 02 Dec 2016
35	Faculty development program on "Design of Experiments for formulation of research problem"	Basaveshwar Engineering College Bagalkot and IIT Bombay	20th January – 22nd January 2017

Awards and Honors **:** NIL