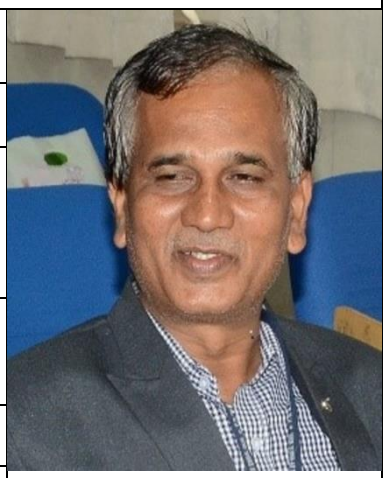
H.K.E Society´s

Poojya Doddappa Appa College of Engineering, Kalaburagi

FACULTY PROFILE FORMAT

Personal Details	
Name: Dr. Nagendra H	
Designation: Associate Professor	
Department: Electronics and Communication Engineering (E&CE) **Date of Joining: 05/04/2003** **Nature of Association: Regular**	
College Address: PDA College of Engineering Aiwan- Shahi area Kalaburagi - 585102.	
Contact: 9480632818	
E-mail id(college mail id):nagendrah@pdaengg.com	

Areas of Interest	Biomedical Signal & Image Processing Cognitive Neuro Science &Analysis, Cognitive Enhancement

UG	PG
Digital Signal Processing	Wavelet Transform and Applications
Signals and Systems	RF Circuits and Design
Network Analysis	
Digital Electronics	
Information Theory and Coding	
Satellite Communication.	
Optical Fiber Communication	
Basic Electronics	
Biomedical Signal Processing	
Linear Integrated Circuits and Application.	

Simulation Lab	
Wavelet Transforms and Applications	

Academic Background				
Degree	**Specialization**	**Name of the Institute**	**University**	**Month and Yearof Passing**
Ph.D	Evaluation of Cognitive Performance Using Physiological parameters	IIT Roorkee, Roorkee	IIT Roorkee, Roorkee	2016
PG (M.Tech /M.E)	Power Electronics	PDA College of Engineering, Kalaburagi	GUG, Gulbarga	2002
UG (B.Tech /B.E)	Electronics and Communication Engineering (E&CE)	PDA College of Engineering, Kalaburagi	GUG, Gulbarga	1993

Work Experience			
Name of the Institution	**Position**	**From**	**To**
Poojya Doddappa Appa College of Engineering, Kalabuaragi	Associate Professor	2003	Present
Poojya Doddappa Appa College of Engineering, Kalabuaragi	Assistant Professor	2003	2005
PRRM Engineering College Shabad, R.R. DistAndra Pradesh, India	Assistant Professor	2000	2003
Indian Telephone Industries (ITI) Bangalore,	Trainee Engineer	1996	1997
Customer Support Engineer at ADS services, Bangalore	Customer Support Engineer	1994	1995

Total Experience	26	**Teaching**	20	**Research**		**Administration**	

Research Publications					
Total Number of Publications	**International Journal**	**National Journal**	**International Conference**	**National Conference**	**Total**
	10		01	01	12

Recent Publications (Journals)	
1.	EEG signal classification using wavelet and fuzzy KNN classifier N Shweta, H Nagendra AIP Conference Proceedings 2316 (1), 050001, Feb 2021.
2.	Future of Cognitive Science SRDVU ShankruGuggari, H. Nagendra Application to Neural Engineering, Robotics, and STEM 2, 119-131,2020.
3.	Wavelet Based Classification and Analysis of Seizures in EEG Signal N Shweta, H Nagendra European Journal of Molecular & Clinical Medicine 7 (8), 2779-2786, 2020
4.	EEG Analysis for classification of Seizures and Non-Seizures Patients N Shweta, H Nagendra 2020 IEEE Bangalore Humanitarian Technology Conference (B-HTC), 1-6, 2020.
5.	Evaluation of cognitive behavior among deaf subjects with video game as intervention H Nagendra, V Kumar, S Mukherjee Cognitive Systems Research 42, 42-57, 2017
6.	Evaluation of Cognitive Benefits among Differently Abled Subjects with Video Game as Intervention H Nagendra, V Kumar, S Mukherjee Evaluation 1, 41689, 2016.
7.	Fuzzy Logic Controller based Vector-Controlled PMSM Drive Ambarisha Mishra, G.S Chaurasia, Ravi Chaurasia, Jitendra Kuamr, V.S. Gupta ... conference paper 2016.
8.	Cognitive behavior evaluation based on physiological parameters among young healthy subjects with yoga as intervention H Nagendra, V Kumar, S Mukherjee Computational and mathematical methods in medicine 2015.
9.	Wavelet Based Non Linear Thresholding Techniques for Pre Processing ECG Signals H. Nagendra, S Mukherjee, V Kuamr International Journal of Biomedical and Advance Research 4 (8), 534-544
10.	Application of wavelet techniques in ECG signal processing: an overview H Nagendra, S Mukherjee, V Kumar International Journal of Engineering Science and Technology (IJEST) 2011.
11	N. Shweta, Nagendra H, "Discrete Wavelet Transform based statistical features for the Analysis of Seizures from EEG Signal", Journal of Xi'an University of Architecture & Technology, ISSN No : 1006-7930, Volume XIII, Issue 7, pp 483-493. 2021.

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12	N. Shweta, Nagendra H, "Decomposition of Seizures in EEG Signals using Discrete Wavelet Transforms (DWT)", International Journal of Scientific Research, Volume - 10 | Issue – 07, ISSN No. 2277 – 8179, DOI : 10.36106/IJSR, pp:1-3,2021
13	N. Shweta, Nagendra H, "Seizure Detection for Single-channel EEG with SVM", A Collection of Contemporary Research Articles in Electronics, pp, 278-282. Mantech Publication, 2021
14	Sangeeta, H. Nagendra "A Review on an Efficient Technique for Detection and Classification of Early Stage Tumor", International Journal of New Technology and Research (IJNTR) ISSN: 2454-4116, Volume-6, Issue-10, pp. 36-46, October 2020.
15	Sangeeta, Dr. Nagendra. H "An Efficient Technique for Tumor Detection and Classification Using K-Means Clustering Algorithm" Annals of R.S.C.B., ISSN:1583-6258, Vol. 25, Issue 4, pp. 169 – 180, April 2021.

Memberships in Professional Bodies	
S.No.	**Name of the Professional Body with Membership ID**
1.	IEEE Senior Member, ID: 96995464
2.	IEI Fellow, ID:1237825
3.	Indian Society for Technical Education (ISTE)

Programs Organized	
1.	Conducted Five Days AICTE Training and Learning (ATAL) Sponsored Faculty Development Program on "Artificial Intelligence" from 9th to 13th November, 2020
2.	Conducted One Week AICTE Sponsored Short Term Training Programme on "Medical Signals, Processing and Analysis for Cognitive Research: A Practical Approach" from January 27 – February 1, 2020
3.	Conducted Two Weeks AICTE Sponsored Faculty Development Programme on "Biomedical Signal Processing and Analysis for Cognitive Neuroscience Study" from 1st– 12th January, 2018

Grants	
1.	Grant of around Rs. 7 Lakhs sanctioned by AICTE under the scheme Faculty Development Programme during FY 2017-2018 towards two week FDP.
2.	Grant of Rs. 6.78 Lakhs sanctioned by AICTE for implementation of Prerana **scheme for year** 2019-20 & 2020-21
3.	Grant of Rs. 3 Lakhs sanctioned by AICT**E under the scheme Short Term** Training Programme during FY 2018-19 towards one week STTP
4	Grant of Rs. 93 Lakhs by AICTE Training and Learning (ATAL) Academy towards Five Day during 2020-2021.

Awards	
1.	Certificate of excellence in reviewing in journal of pharmaceutical research international in April 2022
2.	Appreciation awarded for volunteering time and effort in manuscripts review process in the multidisciplinary international conference on FUTUREISTIC TRENDS FOR SUSTAINABLE ECOSYSTEM on 26-28th August 2021.
3	Appreciation awarded as a Reviewer for international conference on mobile networks and wireless communication (ICMNWC-2021) SIT, Tumkur, on 03-04th December, 2021.
4	Appreciation awarded as a Reviewer for 4th IEEE international conference on electrical, electronic communication technology and optimization (ICEECOT) organized by GSSS institute of technology for women, Mysuru association with IEEE banglore section on 13th – 14th December 2019.

Training Programmes Attended

Sl No	Course Topic	Institute where attended	Duration
1	Medical Signals and Image Processing	IIT Roorkee	15th-19th July, 2013
2	Training and Identification of Master Trainers on Outcome Based Accreditation Process And Parameters	Walchand Institute of Technology, Solapur	Sept.3 and October 4-6, 2013
3	Performance analysis of Computer Network (PACN)	CSED, PDACEK	From 22-26 September 2014
4	MATLAB and Its Applications in Digital Image processing and Pattern Recognition	ISED PDACEK	From 13-17 October 2014
5	Feel Teacher	The HRD group Mangalore	From 05-07 February 2015
6	Electronics System Design, Manufacturing & Testing (ESDMT)	BMS College of Engineering, Bangalore	From 27-31 July 2015
7	Software Defined radio and Antenna Design & Simulation	ECED, PDACEK	From 2-6 November 2015
8	Big data and Hadoop	CSED PDACEK	Feb29th- 4th March 2016
9	Simulation and Mathematical tools for Engineering research	Kamala Nehru Institute of Technology, Sultanapur (UP) -228 118	July 04th-15th, 2016

10	Select Topics in Signal processing and Machine Intelligence with Hands-on	College of Engineering, Pune	23rd May-3rd June, 2016
11	Computer Aided Drafting and 3D	MED,	Dec 4th-9th, 2016
12	Computational Methods in Signal Processing and Machine Learning	QIP Sponsored Short-Term Course, IIT Indore	Dec 14th-19th, 2020.
13	Immersive Virtual Reality	BMS College of Engineering Bangalore	11th-- 15th 2021.
14	Matrix Computations and its application in systems, signal, and control problems.	IIT Indore	Feb 16th -21th, 2021
15	Sustainability Engineering	PDACEK	Feb 8th -12th 2021.
16	Material chacterization, modelling & performance analysis of CMOS inverter	BMS College of Engineering Bangalore	Feb 22nd-26th 2021.
17	How to write a research grant proposal	BIYANI Group of colleges Manipur University Jaipur	Feb 26th 2022

Special Lectures Presented	
1.	Delivered invited lecture talk on "Analysis of neuro cognitive enhancement using physiological parameter", in Bharat ratna indira Gandhi college of engineering Solapur, Maharashtra on 06/04/2022
2.	Delivered invited lecture talk on "Impact of Yoga Practice on Mental Health and Cognitive Functionsat Institute of Engineers", Kalaburagi, Local Centre, 04/12/2017

Technical session chair

1. Technical session chair of 2021 IEEE IAS 4th International conference on computing power and communication technology (GUGCON) in Malaysia, on Sep 24-26th,2021.

2. Technical session chair of 2021 IEEE IAS 6th International conference on computing and communication (ICCCA) in Aurel vlaicu university of arad, Romania Dec 17-19th, 2021,

Role & Responsibilities	
1	Member Academic Council, 2019-2021
2	M. Tech. and Ph. D. Coordinator Dec 2020-Present
3	Member, Internal Audit of the College
4	Member, Academic Council

5	Department Programme Coordinator, Chairman, BOE of E &CE Department Jun 2017-Jun2019
6	Coordinated for Major and Mini Projects, Student Advisor, BOS And BOE Member.
7	Member, Board of Examination.
8	Program Coordinator.
9	NBA Coordinator.