

K.V.G. COLLEGE OF ENGINEERING

Kurunjibhag, Sullia, D.K.-574 327, Karnataka, INDIAE-mail: office@kvgengg.comwebsite: www.kvgengg.com



Department of Electronics and Communication Engineering

FACULTY PROFILE

Name of the Faculty	Dr. Bhagya H.K
Designation	Professor
Contact Numbers	Office: 08257- 235150 Mobile: +91 - 9482622635
E-mail ID	bhagyahk74@gmail.com



• Educational Qualification

Degree	Specialization	Year of Passing	College & University
M.Sc.	Electronics	1998	HemaGangothri, Hassan, Mysore University.
M. Tech	Computer Cognition & Technology	2008	Manasa Gangothri , Mysore. Mysore University.
Ph.D.	Video Processing	2022	K.V.G.C.E, Sullia, VTU,Belagavi.

•	Work Experience					
	Teaching	Research	Industry			
	25 Years	8 Years	-			
•	• Date of Joining to the College					
	7 th September 1998					

			Du	ration			
Des	ignation	From		1	Ĩ0	Department	
Leo	cturer	07-09-199	98	01-02	2-2009	E & C	
Asst. I	Professor	02-02-200	09	26-02	2-2012	E & C	
Associate	e Professor	27-02-202	12	5-06-	2022	E & C	
Pro	fessor	06-06-020	022	Till th	ie date	E & C	
• Area of I	nterest						
Image and Video processing	Multimedia communication Network	Digital Signal Processing	E comn	alog and Digital nunication ystems		in digital	
• Subject T	'aught						
For UG 1.Basic Electronics 2.Analog Electronics 3.Digital Electronics 4.Electronics Circuits & Devices 5.Microprocessor 6.Advanced Microprocessor 7. Microwave Communication 8.Transmission lines and Waveguides 9.Analog communication 10.Antenna & Wave propagation		 11. Satellite Communication 12. Microcontroller & Application, 13. Operation research & Management 14. Image Processing 15. Principles of communication Systems 16. Microwave & Antennas 17. Introduction to electronics Engineering. 		 For PG 1. Embedded System Design 2. Antenna Theory & Design 3. Wireless & Mobile networks 4. Multimedia & Communication Networks 5. Advances digital image processing 6. Multimedia Over Communication Link 			
	ship in Professio f Indian Society fo ons		-		, ,		
Nationa	al / International J	ournals]	National / I	nternational	Conferences	
13					14		

• Publications : International Journals

- Bhagya H.K and Dr. Keshaveni N, "Review on Video Enhancement Techniques" International Journal of Engineering Science Invention Research & Technology, 23rd August 2016
- Bhagya H.K and Dr. Keshaveni N, "Contrast Enhancement Techniques for foggy Videos" International Journal of Graphics and Multimedia(IJGM), International Journal of Graphics and Multimedia, Vol.9, Issue 1, pp.1-11, 2019. (UGC- Approved)
- Bhagya H.K and Dr. Keshaveni N, "Video Enhancement using Histogram Equalization with JND Model" International Journal of Recent Technology and Engineering (IJRTE), Volume 8, Issue2. pp. 2506-2511, July 2019. (Scopus Indexed)
- Bhagya H.K & Keshaveni N, "Enhancement on Edge and Reduction of Noise in Low Light Videos using Discrete Wavelet Transform with JND Model", International Journal of Solid State Technology, vol. 63, no.6, Nov. 2020. (Scopus Indexed)
- Bhagya H.K & Keshaveni N, "Contrast Enhancement Technique using Discrete Wavelet Transform with Just Noticeable Difference Model for 3D Stereoscopic Degraded Video", International Journal of Innovative Technology and Exploring Engineering (IJITEE), vol.10 no.3, Jan. 2021. (Scopus Indexed)
- 6. Dr. Bhagya H K, Dr. Kusumadhara S and Thejas A. V, "IOT Based Intruder Detection using Real Time Object Detection", International Journal of Innovative Research in Technology (IJIRT), vol 9, Issue 10, March 2023.
- Dr. Bhagya H K, Aruna PG and Ramya C, Lung Cancer Detection System Using based on deep learning, International Journal of Novel Research and Development (IJNRD), vol 8, Issue 5 May 2023
- 8. Dr. Bhagya H K, Aruna PG and Ramya C, "IOT Based-Soil Parameters Analysis System Using Solar Energy", International Journal of Research Publication and Reviews(IJRPR), vol 4, no 5, pp 6263-6266 May 2023.
- Dr. Bhagya H K and Guruprasanna J K, International Journal of Innovative Research in Technology (IJIRT), vol 10, Issue 1, June 2023.
- 10 Dr. Bhagya H K, Dr. Savitha M and Shalini M C, "Detection of banana grading stages using image processing and Machine learning", International Journal of Innovative Research in Technology (IJIRT), vol 10, issue 1, June 2023.
- 11 Dr. Bhagya H K, Jagadeesh M and Shwetha K, "Lifi Based Smart Street Light for Navigation Over Remote Place", International Journal of Creative Research Thoughts, vol 11, issue 6, June 2023.
- 12 Dr. Bhagya H K, Dr. Kusumadhara S, Dr. Savitha M, Adarsha D and Prathima M, "Implementation of heart rate and temperature monitoring device using wireless system", International Journal of Creative Research Thoughts, vol 11, issue 7, July 2023.
- 13 Dr. Bhagya H K, Dr. Kusumadhara S, Dr. Savitha M and sahana S M," Skin Cancer detection using Machine learning and Image Processing "International Journal of Creative Research Thoughts, vol 11, issue 7, July 2023.

• Publications : National / International Conferences

- 1. Image compression Techniques, "Recent Trends in emerging Technologies", 2008.
- A Lossless Image Compression Algorithms using fixed block size segmentation, "*Impulse 2008*", 2008.
- 3. Lossless compression Algorithms for general images, "Technovation", 2008.
- 4. Data hiding Scheme for Medical Images using Lossless Code for Mobile HIMS", "Advances in Computer Applications", 2012.
- 5. Motion and Based Person Tracking in Surveillance Videos, Advances in Computer Applications, 2012.
- 6. Exploring Duplicated Regions in Natural images, "Advances in Computer Applications", 2012.
- 7. Three stage pipeline VLSI architecture for computation of 2-D DWT, "*Emerging Trends in engineering and Technology*", 2013.
- 8. Fast Computation of the 2 D Discrete Wavelet Transform using Pipeline VLSI Architecture, "*Information and communication Technology*", 2013.
- 9. A Novel Approach for extracting Kannada Text in image, "Electrical, Electronics and Computer Science",2014
- 10. A Novel Approach for Partial Encryption for Video Encoding, "NCEEE", 2014
- 11. Smart Selective encryption for H.264/AVC Videos, "Advances in Electronics and Communication", 2014
- 12. An effective encryption of CAVLC for H.264/AVC Video, "Electrical and Electronics Engineering", 2014.
- 13. Satellite Image Enhancement using Singular value decomposition & Tophat Filter under wavelet domain, *"National Conference on signal and image processing (NCSIP-2015)"* 2015
- 14. NBPC Based Contrast Enhancement techniques for Fog videos, "International conference on Signal & Image processing (ICSIP)", 18th -19th August 2017.

Professional Activities: NPTEL Course					
Subject Year of Certification Resul					
NPTEL	1. Digital Image processing	Oct 2018			
(National (DIP)		(12weeks FDP)	77%		
Program on	(Prof. B.N Biswas IIT Kharagpur)				

Technology	2. Teaching and Learning in Engineering	March-2019	76%
Enhanced	(TALE)	(4weeks FDP)	(Silver Medal)
Learning)	(Prof. N J Rao, IISc, Bangalore)		(~~~~~~~~~~~,

• Facul	Faculty Development Programmes (FDP) Participated				
SL. No.	Program Title	Venue	Date & Year		
1	Faculty Development Program	KVGCE-ISTE chapter	23-06-2001 (Two days)		
2	FEEL teacher Training program	KVGCE-ISTE chapter	16-08-2001 (3 days)		
3	FDP mission 10X	KVGCE ,Sullia	20-12-2010 (five days)		
4	Participate In Microsoft Dream Park Yatra- 2011	KVGCE ,Sullia	21-03-2011 (one day)		
5	Cognitive Machine Intelligence and Data Mining	B.N.M.I.T Bangalore.	30/01/2012 (Three days)		
6	"Ability Enhancement courses in Electronics and Communication Engineering"	KVGCE ,Sullia	27 th to 29 th October 2022		
7	Faculty development Program on Python- A Practical Approach	KVGCE ,Sullia	13 th and 14 th June 2023		
8	Designing with Canva	KVGCE ,Sullia	8/7/2023 (one day)		
9	Ability Enhancement Course in Basics of C++	KVGCE, Sullia	27-07-2023 to 29-07-2023		

• Work	Workshops / Short-term Course Attended						
SL. No.	Workshop Title	Place	Date & Year				
	Recent Trends in communication engineering	M.C.E Hassan	12/09/2005				
1.			(3 days)				
	Mathematical tools for engineering Applications	K.VG.C.E Sullia	13-05-2006				
2.			(one day)				

	Microwave Integrated circuits		A.I.T Chikmagalur	28/02/2009
3.				(one day)
	Opportunities for Sponsored Research		K.VG.C.E Sullia	11/12/2009
4.				(one day)
5.	INSPIRE- The faculty Contest Series		Infosys, Bangalore	2012 (Two days)
	Intellectual Property & Innovation manage	ement in	KVGCE, Sullia	12.11/2013
6.	Knowledge era			(one day)
	Research Projects and Technical Paper W	riting	KVGCE, Sullia	25/02/2014
7.				(one day)
	VISION -14		KVGCE, Sullia	25/04/2014
8.				(one day)
	Research Methodology & Latex Documer	ntation	REVA University, Bangalore	09/01/2017
9.				(Two days)
	Biomedical Image & Signal Process	sing using	BMS Institute of Technology	06/02/2017
10.	MATLAB		and Management, Bangalore	(Two days)
11	TEQIP – III Sponsored STTP		NITK, Surathkal.	20/08/2018
				(Five days)
• No. o	of Project Guided			
	UG		PG	
	23		19	

• Responsibilities Taken in College Level					
Event	Positions	Duration			
		From	From		
College Flying Squad for Ladies Hostel	Staff in charge for Ladies Hostel	10-08-1999	Till the date		

Orientation Committee	Member	1-09-2007	6-07-2010
College Anti ragging Committee	Convener	5-07-2010	Till the date
Advisory Committee	Member	3-09-2009	5-07-2010
Infosys soft skills Committee	Member	7-09-2010	10-04-13
In charge for ladies hostel	Faculty advisor for ladies students	2-02-2009	05-06-2022
Women Grievance Redressal cell	Convener	2015	Till the date
College Internal Complaint Committee	Chairman	14/03/2018	8 Till the date
Student Grievance Redressal cell	Convener	2015	Till the date
Reception Committee of KVG Science Talent Hunt	Member	15-12-201	8 Till the date
NBA	Coordinator for Criteria -5	2018	Till the date
Hostels	Dean of Hostel	06-06-202	2 Till the date
Discipline committee	Member	08-06-202	2 Till the date
Anti-Drug Cell	member	18-07-202	3 Till the date
Student Welfare Committee	Member	17-07-202	3 Till the date
• Responsibilities Taken	in Department Level		
Event	Dala	Dur	ration
Event	Role	From	То
1. ENCEA	Staff Advisor	2000	2002
2. Seminar	Co-ordinator	2002	2003
3. Library	Co-ordinator	2007	2010
4. Test	Co-ordinator	2007	2009
5. Mini project	Co-ordinator	2008	2009

6. E- congr	regation C	Chair person		2009	2010
7. Seminar	(Co-ordinator		2010	2013
8. Analog co	ommunication Lab	n charge		2012	2017
9. Advanced	Communication Lab I	n charge		2021	2023
10. Mini	Project for III EC C	Guide		2011	Till the date
11. Intern	ship for VII EC C	Guide		2018	Till the date
12. M.Te	ech (DE&C) F	PG- Coordinator		2021	Till the date
13. Progra Committee		Aember		16/07/2021	Till the date
	tion Paper Scrutiny C	Chairperson		16/07/2021	Till the date
•			lege level ac		
SL .No.	Event			Position / F	Role
1.	College day function		Decoration Committee		
2.	College day Sports fun	ction	Member		
3.	Ayudha Pooja celebratio	on	Reception Com	nmittee	
4.	College day function		Discipline Committee		
5.	Talent Hunt Program		Coordinator for	Reception comm	nittee
6.	College day function		Judges for cultu	ural activities	
• Partici	ipation details in th	e Department	level activiti	es	
SL .No.	Event			Role / Responsi	bilities
1.	ENCEA activities		Judges for cultu	Judges for cultural activities	
2.	ENCEA -09		Chairman of Invitation Committee		e
3.	ENCEA activities		Judges for technical paper presentation		tation
4.	e-congregation -9 to 12		Member of screening Committee		
5.	ENCEA inaugural func	tion 6 th Oct 2009	Chairman of Abhivyakthi Committee		
	1		Chairman of Abhivyakthi Committee Counselor for EC Students		

7.	UG- Admission	Co-ordinator
8.	PG- Admission	Co-ordinator

9.	KVG Scholar ship Test Co-ordinator				
• No. of	Lab Manual / Program Guidelines	Prepared			
SL. No.	Lab manual / Guide lines Title	Semester and branch	Year		
1.	Analog Electronics Lab Manual	III E&C	2000		
2.	Microprocessor Lab	V E&C	2003		
3.	Digital Electronics Lab Manual 1V E&C		2002		
4.	4. Communication Lab V E&C		2006		
5.	5. Digital electronics Lab Manual III E&C		2009		
6.	Analog communication +LIC Lab Manual IV E&C		2012		
7.	Advanced Communication Lab	VII E&C	2021		
8	Communication Laboratory	VI E&C	2022		
• No. of	Labs handled for UG and PG				
• No. of SL. No.	Labs handled for UG and PG Lab Title	Year	Semester & Branch		
			Semester & Branch		
SL. No.	Lab Title	1998 II			
SL. No. 1.	Lab Title Analog Electronics Lab	1998 III 1999 III	I E&C		
SL. No. 1. 2.	Lab Title Analog Electronics Lab Analog Electronics Lab	1998 III 1999 III 2000 III	I E&C I E&C		
SL. No. 1. 2. 3.	Lab TitleAnalog Electronics LabAnalog Electronics LabAnalog Electronics Lab	1998 III 1999 III 2000 III 2002 II	I E&C I E&C I E&C		
SL. No. 1. 2. 3. 4.	Lab TitleAnalog Electronics LabAnalog Electronics LabAnalog Electronics LabDigital Electronics Lab	1998 III 1999 III 2000 III 2002 II 2003 II	I E&C I E&C I E&C I E&C		
SL. No. 1. 2. 3. 4. 5.	Lab TitleAnalog Electronics LabAnalog Electronics LabAnalog Electronics LabDigital Electronics LabDigital Electronics Lab	1998 III 1999 III 2000 III 2002 II 2003 II 2004 V	I E&C I E&C I E&C I E&C I E&C		
SL. No. 1. 2. 3. 4. 5. 6.	Lab TitleAnalog Electronics LabAnalog Electronics LabAnalog Electronics LabDigital Electronics LabDigital Electronics LabMicroprocessor Lab	1998 III 1999 III 2000 III 2002 II 2003 II 2004 V 2007 V	I E&C I E&C I E&C I E&C I E&C E&C		
SL. No. 1. 2. 3. 4. 5. 6. 7.	Lab TitleAnalog Electronics LabAnalog Electronics LabAnalog Electronics LabDigital Electronics LabDigital Electronics LabDigital Electronics LabCommunication Lab	1998 III 1999 III 2000 III 2002 II 2003 II 2004 V 2007 V 2008 V	I E&C I E&C I E&C I E&C I E&C E&C Z E&C		
SL. No. 1. 2. 3. 4. 5. 6. 7. 8.	Lab TitleAnalog Electronics LabAnalog Electronics LabAnalog Electronics LabDigital Electronics LabDigital Electronics LabMicroprocessor LabCommunication LabCommunication Lab	1998 III 1999 III 2000 III 2002 II 2003 II 2004 V 2007 V 2008 V	I E&C I E&C I E&C I E&C I E&C E&C Z E&C Z E&C		

12.	Microcontroller Lab	2011	IV E&C
13.	Analog communication +LIC Lab	2012	V E&C
14.	Analog communication +LIC Lab	2013	V E&C
15.	Analog Electronics Lab	2017	III E&C
16.	Digital Electronics Lab	2017	III E&C
17.	Digital signal Processing	2018	V E&C
18.	Lab-I	2018	I Sem M.Tech DEC
19.	Lab- II	2019	II Sem M.Tech DEC
20.	Analog devices and Instrumentation	2019	III E&C
21.	Digital signal Processing	2019	V E&C
22.	Advanced communication Lab	2021	VII E&C
23.	Advance Digital signal Processing Lab	2022	I Sem M.Tech DEC
24.	Communication Laboratory	2022	VI E&C

• Interaction with Outside World / Invited Lectures

Sl.No.	Program	Venue and Organizer	Date
1	HIV/ AIDS Awareness Programme	K.V.G.M.C., Sullia.	15-11-2002
1.		K. V.G.MI.C., Suilla.	(Three days)
2	Member of panel of judges for Srishti 2012	Sahyadri College of	12/05/2012
۷.		engineering.	(Two days)

• Awards / Recognition / Achievements/ Others

• Served/Serving as **Question Paper setter and Moderator** for UG and PG program for VTU and other reputed autonomous institutes and Universities like NMAMIT @ Nitte, MIT@Manipal.

• Reviewer for AICTE Sponsored IEEE International Conference on Networks, Multimedia and information Technology @ Nitte Meenakshi Institute of Technology, bengaluru.

• Reviewer for IEEE International Conference on data Science and Network security at Kalpataru Institute of Technology, Tiptur.

Dr. Bhagya H.K, Professor, E &C DEPT., KVGCE, SULLIA, D.K - 574 327 Reach me at bhagyahk74@gmail.com