



K.V.G. COLLEGE OF ENGINEERING

Kurunjibhag, Sullia, D.K.-574 327, Karnataka, INDIA
E-mail: office@kvgegg.com website: www.kvgegg.com

Department of Electronics and Communication Engineering

FACULTY PROFILE

Name of the Faculty	BHAGYA H.K	
Designation	Associate Professor	
Contact Numbers	Office: 08257- 235124 Mobile: +91 - 9482622635	
E-mail ID	bhagyahk74@gmail.com	

• Educational Qualification

Degree	Specialization	Year of Passing	College & University
M. Sc	Electronics	1998	Hema Gangothri, Hassan, Mysore University.
M. Tech	Computer Cognition & Technology	2008	Manasa Gangothri, Mysore. Mysore University.
Ph.D.	Video Processing	Waiting for Viva-Voce exam	K.V.G.C.E, Sullia, VTU.

• Work Experience

Teaching	Research	Industry
23+Experience	4+Experience	-----

• Date of Joining to the College

7th September 1998

• In-House Experience

Designation	Duration		Department
	From	To	
Lecturer	07-09-1998	01-02-2009	E & C
Asst. Professor	02-02-2009	26-02-2012	E & C
Associate Professor	27-02-2012 - Till the Date		E & C

• Area of Interest

Image and Video processing	Multimedia communication Network	Digital Signal Processing	Analog and Digital communication systems	Antenna Theory and design	Advances in digital image processing
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• Subject Taught

<p>For UG:</p> <ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 11. Satellite Communication 12. Microcontroller & Application, 13. Operation research & Management 14. Image Processing 15. Principles of communication Systems 16. Microwave & Antennas 	<p>For PG:</p> <ol style="list-style-type: none"> 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
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• Membership in Professional Bodies/University Bodies/Organizations

– Member of Indian Society for Technical Education (MISTE) : LM - 32282 (2001)

• Publications

National / International Journals	National / International Conferences
03	14

• Publications : International Journals

1. Bhagya H.K and Dr. Keshaveni N , “*Review on Video Enhancement Techniques*” International Journal of Engineering Science invention Research & Technology, 23rd August 2016.
2. 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)
3. 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)
4. Bhagya H.K & Dr. 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)
5. Bhagya H.K & Dr. 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)

• Publications : National / International Conferences

1. Image compression Techniques, “*Recent Trends in emerging Technologies*”, 2008.
2. 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 E&C", 2014
12. An effective encryption of CAVLC for H.264/AVC Video, "Electrical and Electronics Engg", 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

NPTEL (National Program on Technology Enhanced Learning)	Subject	Year of Certification	Result
	1. Digital Image processing (DIP) (Prof. B.N Biswas IIT Kharagpur)	Oct 2018 (12weeks. FDP)	77%
	2. Teaching and Learning in Engineering (TALE) (Prof. N J Rao, IISc, Bangalore)	March-2019 (4weeks. FDP)	76% (Silver Medal)

• 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)

• Workshops / Short-term Course Attended

SL. No.	Workshop Title	Place	Date & Year
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1.	Recent Trends in communication engineering	M.C.E Hassan	12-09-2005 (3 days)
2.	Mathematical tools for engineering Applications	K.VG.C.E Sullia	13-05-2006 (one day)
3.	Microwave Integrated circuits	A.I.T Chikmagalur	28-02-2009 (one day)
4.	Opportunities for Sponsored Research & Collaboration with IT Industries	K.VG.C.E Sullia	11-12-2009 (one day)
5.	INSPIRE- The faculty Contest Series	Infosys, Bangalore	2012 (Two days)
6.	Intellectual Property & Innovation management in Knowledge era	K.VG.C.E Sullia	12.11/2013 (one day)
7.	Research Projects and Technical Paper Writing	K.VG.C.E., Sullia	25-02-2014 (one day)
8.	VISION -14	K.VG.C.E., Sullia	25-04-2014 (one day)
9.	Research Methodology & Latex Documentation	REVA University, Bangalore	09-01-2017 (Two days)
10.	Biomedical Image & Signal Processing using MATLAB	BMS Institute of Technology and Management, Bangalore	06-02-2017 (Two days)
11.	TEQIP - III Sponsored STTP	NITK, Surathkal.	20-08-2018 (Five days)

• No. of Project Guided

UG	PG
24	17

• 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	Secretary	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	Till the date
Women Grievance Redressal cell	Chairman	2015	Till the date
College Internal Complaints Committee	Chairman	14-03-2018	Till the date
Student Grievance Redressal cell	Member	2015	Till the date
Reception Committee of KVG Science Talent Hunt	Member	15-12-2018	Till the date
NBA	Coordinator for Criteria -5	2018	Till date
Library	Chairman	2021	Till date
Online Examination	Co-ordinator	29-06-2021	Till date

• Responsibilities Taken in Department Level

Event	Role	Duration	
		From	To
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- congregation	Chair person	2009	2010
7. Seminar	Co-ordinator	2010	2013
8. Analog Communication Lab	In charge	2012	2017
9. Mini Project for III EC	Guide	2011	Till date
10. Internship for VII EC	Guide	2018	Till date
11. PG	Co-ordinator	2021	Till date
12. Advanced Communication Lab	In charge	2021	Till date

• Participation details in the college level activities

SL .No.	Event	Position / Role
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1.	College day function	Decoration Committee
2.	College day Sports function	Member
3.	Ayudha pooja celebration	Reception Committee
4.	College day function	Discipline Committee
5.	Talent Hunt Program	Coordinator for Reception committee

• Participation details in the Department level activities

SL .No.	Event	Role / Responsibilities
1.	ENCEA activities	Judges for cultural activities
2.	ENCEA -09	Chairman of Invitation Committee
3.	ENCEA activities	Judges for technical paper presentation
4.	e-congregation -9 to 12	Member of screening Committee
5.	ENCEA inaugural function 6 th Oct 2009	Chairman of Abhivyakthi Committee
6.	Counseling	Counselor for EC Students

• 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.	Communication Lab	V E&C	2006
5.	Digital electronics Lab Manual	III E&C	2009
6.	Analog communication +LIC Lab Manual	IV E&C	2012

• No. of Labs handled for UG and PG

SL. No.	Lab Title	Year	Semester & Branch
1.	Analog Electronics Lab	1998	III E&C
2.	Analog Electronics Lab	1999	III E&C

3.	Analog Electronics Lab	2000	III E&C
4.	Digital Electronics Lab	2002	III E&C
5.	Digital Electronics Lab	2003	III E&C
6.	Microprocessor Lab	2004	V E&C
7.	Communication Lab	2007	V E&C
8.	Communication Lab	2008	V E&C
9.	Microcontroller & VLSI Lab	2009	VII E&C
10.	Advanced Communication Lab	2009	VI E&C
11.	Digital signal Processing	2010	V 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

• 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 (Three days)
2.	Member of panel of judges for Srishti 2012	Sahyadri College of engineering.	12-05-2012 (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.

PROF. BHAGYA H.K, E &C DEPT., KVGCE, SULLIA, D.K - 574 327

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