



K.V.G. COLLEGE OF ENGINEERING

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

Department of Computer Science and Engineering

FACULTY PROFILE

Name of the Faculty	Dr. SMITHA M L	
Designation	Professor	
Contact Numbers	Office: 08257- 231141 Mobile: +91 9448376228	
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• Educational Qualification

Degree	Specialization	Year of Passing	College & University
Ph.D	Image Processing and Pattern Recognition	March 2017	Mangalagangothri, Konaje Mangalore University
MCA	Computer Applications	July 2001	KVG College of Engineering, Sullia Visveswaraya Technological University, Belagavi
B.Sc	Statistics, Mathematics, Computer Science	June 1998	St. Philomena College, Puttur Mangalore University

• Work Experience

Teaching	Research	Industry
21 years	6 years	-

• Date of Joining to this College : 25 - 09 - 2001

• In-House Experience

Designation	Duration		Department
	From	To	
Professor	10-03-2017	till date	CS&E
Professor & Head	10-07-2016	10-03-2017	IS&E
Professor & Head	01-07-2015	09-07-2016	MCA
Associate Professor	03-03-2012	30-06-2015	MCA
Assistant Professor	01-04-2005	02-03-2012	MCA
Lecturer	25-07-2001	31-03-2005	MCA

• Area of Interest

Image and Video Processing	Machine Learning	Pattern Recognition	Artificial Intelligence
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• Subject Taught

PG		UG
<ul style="list-style-type: none"> ▪ Digital Electronics ▪ Programming Concepts and C Language ▪ Data Structures using C ▪ Business Data Processing with COBOL ▪ Systems Simulation and Modeling ▪ Systems Programming ▪ Computer Organization 	<ul style="list-style-type: none"> ▪ Artificial Intelligence ▪ Management Information Systems ▪ Database Management Systems ▪ Computer Networks ▪ Operations Research ▪ Professional Communication and Ethics 	<ul style="list-style-type: none"> ▪ Systems Software ▪ Design and Analysis of Algorithms ▪ Digital Image Processing ▪ Data Structures and Applications

• Membership in Professional Bodies/University Bodies/Organizations

- **Member of Indian Society for Technical Education (MISTE):** MISTE-58414
- **Life Time Member of Computer Society of India (CSI):**01222222
- **Member of IEEE:** 92618338

• Patents Received: 02

Patent ID	Field of Invention	Title of the Patent	Date/ Year of Publication
202111016924	Bio-Medical Engineering	Internet of Things Sensor Based Smart and Intelligent Wheel Chair System	16-04-2-21
202141026147	Electronics	Intelligent Video Monitoring System based on Deep Learning Techniques on Automatic Surveillance	02-07-2021

• Publications

National / International Journals	National / International Conferences
14	0

1. Illumination Invariant Text Recognition System Based On Contrast Limit Adaptive Histogram Equalization in Videos/Images, Third International Symposium on Women in Computing and Informatics (WCI-2015), ACM Publications, pp. 249-254, August 2015.
2. An Intelligent Road Navigator for Visually Impaired Persons Using MSER", Emerging Research in Computing, Information, Communication and Applications (ERCICA 2015), Springer, DOI: 10.1007/978-81-322-2550-8_38, ISBN: (online) 978-81-322-2550-8, Volume 1, pp 395-405, July 2015.
3. Document Image Analysis Using Imagemagick and Tesseract-ocr", International Advanced Research Journal in Science, Engineering and Technology (IARJSET), Vol. 3, Issue 5, ISSN (Online) 2393-8021, DOI 10.17148/IARJSET.2016.3523, May 2016.

4. Discrete Wavelet Transform and Gradient Difference based approach for text localization in videos, Fifth International Conference on Signals and Image Processing, IEEE, DOI 10.1109/ICSIP.2014.50, pp. 280-284, January 2014.
5. Skeleton Matching based approach for Text Localization in Scene Images, Eighth International Conference on Image and Signal Processing, Elsevier Publications, ISBN: 9789351072522, pp: 145-153, July 2014.
6. Video Text Localization with an emphasis on Edge Features, Eighth International Conference on Image and Signal Processing, Elsevier Publications, ISBN: 9789351072522, pp: 324-330, July 2014.
7. Gradient Difference based approach for Text Localization in Compressed domain, Second International Conference on Emerging Research in Computing, Information, Communications and Applications, Elsevier Publications, ISBN: 9789351072638, vol. III, pp: 299-308, August 2014.
8. Morphological Gradient Based approach for Text Localization in Video/Scene images, Third International Conference on Advances in Computing, Communications and Informatics, IEEE Conference Publications, DOI: 10.1109/ICACCI.2014.6968426, pp. 2426 - 2431, September 2014.
9. Text Localization in Video Using Multiscale Weber's Local Descriptor, IEEE SPICES, IEEE Conference Publications, Feb 2015.
10. Phase Congruency and Morphology Based Approach for Text Localization in Videos, Fourth International Conference on Advances in Computing, Communications and Informatics, IEEE Conference Publications, pp. 2211 - 2215, August 2015.
11. Text Localization in Video/Scene Images using Kirsch Directional Masks, Fourth International Conference on Advances in Computing, Communications and Informatics, IEEE Conference Publications, pp. 1436 - 1440, August 2015.
12. Video clip retrieval: An integrated approach based on WLD and SFTA, International Conference on Electronics, Communication and Aerospace Technology (ICECA), DOI: 10.1109/ICECA.2017.8203728, IEEE *Xplore* , pp 468-473, April 2017.
13. Video clip retrieval: An integrated approach based on KDM and LBPV, International Conference on Advances in Computing, Communications and Informatics (ICACCI), IEEE *Xplore*, DOI: 10.1109/ICACCI.2017.8126073, pp 1613-1618, Manipal, September 2017.
14. Semantic Segmentation for Areca nut Classification using Support Vector Machine, International Journal of Innovative Research in Computer and Communication Engineering, e-ISSN: 2320-9801, p-ISSN: 2320-9798, DOI:10.15680/IJIRCCE.2022.1002039, Vol: 10, Issue: 2, Feb-2022.

• Faculty Development Programmes (FDP) Participated

SL. No.	Program Title	Venue	Date & Year
1.	Data Science & its Applications	Electronics & ICT Academy, NIT Warangal & Raipur	7 th to 16 th March 2022(10 Days Online)

2.	Research :Methodology , Process and Tools	Canara Engineering College, Benjanapadavu Mangalore	18 th to 23 rd Jan, 2016 (06 Days)
3.	Participated in the Faculty Empowerment Programme, “MISSION 10X Advanced Workshop” conducted by WIPRO Technologies	KVG College of Engineering, Sullia	25 th to 24 th March 2011
4.	Faculty Empowerment Programme, MISSION 10X conducted by WIPRO Technologies	KVG College of Engineering, Sullia	20 th to 24 th December 2010
5.	Emerging Technologies in Data Mining and Wireless Sensor Networks	NITK, Surathkal	21 st to 25 th July,2008 (05 Days)
6.	Faculty Development Program	Seminar Hall, KVGCE, Sullia	2008

• Webinars/Seminars/Workshops / Short-term Course Attended

SL. No.	Workshop Title	Place	Date & Year
1.	State Level Seminar on Teaching Learning and Assessment Process as per OBE in Higher Education Institution in line with NEP 2020	Sahyadri College of Engineering, Mangalore	2 nd & 3 rd September 2022
2.	National Webinar on Machine Learning and its Applications	NAM College, Kallikkandy	23 rd October 2021
3.	International Webinar on Cloud Computing	R. Sankar Memorial SNDP Yogam Arts & Science College, Koyilandy	08 th October 2021
4.	Webinar on The Potential for Artificial Intelligence in Health Care	Shree Devi Institute of Technology, Mangaluru	30 th July 2020
5.	Webinar on Artificial Intelligence and Machine Learning	Shree Devi Institute of Technology, Mangaluru	27 th July 2020
6.	Workshop on Machine Learning Techniques	KVGCE, Sullia	2019
7.	Workshop on Android Application Development	KVGCE, Sullia	2018
8.	Mobile Application Development fundamentals	KVGCE, Sullia	2017
9.	Workshop on Latex	KVGCE, Sullia.	2014
10.	Intellectual Property and Innovation Management in Knowledge Era by NRDC and KVGCE	KVGCE, Sullia	12 th November,2013
11.	BITES Neural Networks and Applications	Canara Engineering College, Bantwal	9 th February, 2013

12.	Machine Learning	Mangalore University, Konaje	15-05-2013 to 16-05-2013
13.	Analysis and Design of Algorithm	Mangalore University, Konaje	11-05-2013 to 12-05-2013
14.	Object Oriented Analysis and Design using UML with essentials of Rational Software Architect	Seminar Hall, KVGCE, Sullia	28 th to 31 st Jan, 2012
15.	IBM – Rational Software Architecture	KVGCE, Sullia.	2012
16.	Work Shop on Robotics	KVGCE, Sullia.	2012
17.	National Conference on Recent Trends in Computational Sciences and Engineering (NCRTCSE-2011)	KVGCE, Sullia	12 th February 2011
18.	IBM – DB2 Training	KVGCE, Sullia.	2011
19.	Opportunities for Sponsored Research and Collaboration with IT Industries organized by BITES	KVGCE, Sullia.	2009
20.	Signal Image and Speech Processing	NITK Surathkal	08 th to 13 th Sept ,2008 (05 Days)
21.	Mathematical Tools for Engineering Applications	Seminar Hall, KVGCE, Sullia	13 th May2006
22.	Eight State Level Convention of ISTE-Karnataka	KVGCE, Sullia	18 th and 19 th , November 2005
23.	SATITAS	Seminar Hall, KVGCE, Sullia	2005
24.	Student Internet World -2004	Auditorium, KVGCE, Sullia	2004
25.	Web Programming Using JAVA	SSI Ltd, Mangalore	2000

• No. of Project Guided

UG	PG
10	15

• Responsibilities Taken in College Level

Event	Positions	Duration	
		From	To
Financial Assistance for VTU Innovative Projects	Institute Level Co-ordinator	2020	Till date
NBA Medical and First Aid Committee	Chairman	2018	2021

Alumni meet	Chairman -Registration Committee	April 2017	
Tantrajna	Member - Technical Committee	March 2017	
Tantrajna -Paper Presentation	Judge - PG Paper Presentation	March 2017	
Infosys Foundation Program	Faculty	2007 to 2017	
Training Students for Campus Interview	Member	2016 to 2018	
College Magazine	Chairman	2016	
Onam Celebration	Head of the Department, MCA	Aug 2015	
Teacher's Day Celebration	Head of the Department, MCA	Sept 2015	
SAMCA Inauguration	Head of the Department, MCA	Oct 2015	
College Magazine	Member	2013	2015
Wipro Mission10X	Member	2009	2014
Orientation Programme for Freshers	Faculty	2010	Till date
EDUSAT	Co-ordinator	2009	2011
Alumni Association	Member	2004 till date	

• Responsibilities Taken in Department Level

Event	Role	Duration	
		From	To
SSTP	Member	2009	2016
PG-fest	Judge-Paper Presentation	2015	
SAMCA-09	President	2009	2017
Effervescence-10	Committee	2010	

• Participation Details in the College Level Event

SL .No.	Event	Position / Role
1.	Student Orientation Programme	Resource Person
2.	Alumni Meet Publicity committee	Member
3.	Alumni Meet Registration Committee	Member

4.	NCRTCSE-2011	Registration Committee
5.	Science Talent Hunt for PU Students	Member
6.	Kannada Rajyotsava Stage committee	Chairman
7.	College Day Stage Decoration	Member
8.	Student Internet World -04	Awareness talk for school children
9.	College Magazine-2011	Editor: Collect, edit articles
10.	College Magazine-2007	Committee Member: Collect and scrutinize articles
11.	Anti-ragging	Committee Member: Visit girls' hostel
12.	RTAM	Registration Committee member
13.	College Day Sports	Committee Member

• Responsibilities in the University Level

SL.No.	Event	Role / Responsibilities	Year
1.	LIC Committee	Member	2020-2021
2.	LIC Committee	Member	2015-16
3.	LIC Committee	Member	2014-15
4.	LIC Committee	Member	2013-14

• No. of Lab Manual / Program Guidelines Prepared

SL. No.	Lab manual / Guide lines Title	Semester and Branch	Year
1.	Design and Analysis of Algorithms Laboratory	IV CS& E	2022
2.	Algorithms Laboratory	IV MCA	2013
3.	Systems Programming Laboratory	III MCA	2009
4.	Data structure Using C Lab	II MCA	2005
5.	COBOL Programming Laboratory	II MCA	2003
6.	IT and Digital Lab	I MCA	2001

• No. of Labs handled for UG and PG

SL. No.	Subject	Semester and Branch	Year
1.	Design and Analysis of Algorithms Lab	IV CS & E	2022

2.	Systems Programming Laboratory	III MCA	2009,2011,2013,2015
3.	Data structure Using C Lab	II MCA	2002, 2005, 2007, 2009
4.	IT and Digital Lab	I MCA	2001, 2002,2003,2004,2005
5.	Algorithms Laboratory	IV MCA	2011- 2015
6.	MINI Project Lab-I	IV MCA	2010,2012,2013
7.	Database Laboratory	V MCA	2004, 2005, 2006
8.	C Programming Laboratory	I MCA	2001-2006
9.	IT and Digital Electronics Laboratory	I MCA	2001-2015
10.	COBOL Programming Laboratory	II MCA	2002,2003,2004
11.	Mini Project-II	V MCA	2001-2016
12.	Java Lab	III MCA	2003-2012

• Interaction with Outside World

Sl.No.	Responsibility	Event and Organizer	Date/Year
1.	Resource Person for Computer Science students	KVG Polytechnic College, Sullia	2017
2.	Resource Person for PUC students	Nehru Memorial College, Sullia	2016
3.	Resource Person for Computer Science Students	Government Degree College, Sullia	2015
4.	Resource Person & Chief Guest for Association Inauguration	Shree Devi Institute of Technology, Mangalore	2010
5.	Resource Person for the Program	Kannada Sahithya Academy, Mangalore	2007
6.	Resource Person for student Internet World Program	Government of Karnataka, KVGCE, Sullia	26 Oct 2005

• Awards / Recognition / Achievements/ Others

Text Book published: SYSTEM SOFTWARE, 5th Semester CSE/ISE and 3rd Semester MCA in the year 2010 as per VTU syllabus

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