PROFILE

Dr. SURESHA V.

B.E., M.Tech, Ph.D., MISTE, MIETE

Principal

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• Educational Qualification

Degree	Specialization	Year of Passing	College & University
B.E	Instrumentation Technology (Passed with a first-class degree with 62.8 %.)	1994	SJCE Mysuru, Mysuru
M. Tech	Digital Electronics and Communication (DE&C) (Passed with a First class with Distinction Degree with Aggr. 81.14 %., Secured 1st Rank, Gold Medal)	2006	KVGCE Sullia, VTU
Ph.D.	Mobile Broadband Communication & Heterogeneous Wireless Networks (HetNet)	2020	RC - SJCE Mysuru, VTU

• Work Experience

Teaching	Research	Industry
26+Experience	7+Experience	---------

- Total teaching experience of **Twenty Eight years in E& C Dept**, since 1994.
    - Experience of **Twenty Eight** years in UG, since 1994.
    - Experience of **Sixteen years** in PG, since 2006.
- As a **Lecturer** in the E&C department in S.B Polytechnic, Shravanabelagola from 1994 to 2000.
- As a **Lecturer** in the E&C department in K.V.G College of Engineering, Sullia from 2000 to 2007.
- As an **Assistant professor** in the E&C department K.V.G College of Engineering, Sullia, from 2007 to 2009.
- As a **Professor** in the E&CE department K.V.G College of Engineering, Sullia, since 01-08-2009.
- **Heading** the department of E&CE, K.V.G College of Engineering, Sullia, since 08-04-2021.
- **Principal,** K.V.G College of Engineering, Sullia, since 06-06-2022.

• Area of Interest

Mobile Broad band Wireless Communication & Networks	Wireless Channel Modelling	Data science, AI, ML & Deep learning.	IoT & Cloud Computing	Heterogeneous Networking (HetNet)	Digital Signal Processing

• Subject Taught

- Biomedical Electronics
- Analog Electronics Circuit
- Signal And System
- VLSI Design
- CMOS VLSI Design
- Low Power VLSI
- Digital Signal Processing

- Analog Communication
- Digital Communication
- Optical Fiber Communication
- Satellite Communication
- Cellular Mobile Communication
- Wireless Communication
- Wireless cellular & LTE 4G Broadband
- Machine Learning

- Computer Communication Network
- IoT and Wireless Sensor Network
- Advanced Digital Communication
- Wireless and Mobile networks
- Wireless Broadband Communication
- Advanced Computer Communication Networks

• Membership in Professional Bodies/University Bodies/Organizations

- **Member of Indian Society for Technical Education (MISTE):** LM – 32284 (2001)
- **Member of Institute of Electronics & Telecommunication Engineering (MIETE):** L-217107 (2010)

• Publications

International Journals	National / International Conferences
04	19

• Publications: International Journals

1. Suresha V and Dr. Shankaraiah, *"Performance Analysis of Vertical Handoff in Heterogeneous Wireless Networks Based On Game Theory" International Journal of Science Engineering and Technology (IJSET),* vol. 03, no.6, pp. 31 – 37, 2015.

2. Suresha V and Dr. Shankaraiah, *"Multi-Attribute Vertical Handoff Algorithm for Heterogeneous Networks" International Journal of Advances in Computer and Electronics Engineering (IJACEE),* vol. 02, no. 3, pp. 22 – 27, 2017.

3. Suresha V and Dr. Shankaraiah, *"Enhanced Vertical Handoff Decision Approach for the Multimedia Data in Heterogeneous Wireless Network"* International Journal of Computer Networks and Wireless Communications (IJCNWC), vol. 08, no. 1, pp. 18-15, 2018.

4. *Suresha V and Dr. Shankaraiah "Energy Efficient Vertical Handoff Model for Wireless Body Area Networks (WBANs) in Ubiquitous Healthcare System"* International Journal of Scientific & Engineering Research (IJSER), vol. 9, no. 7, pp. 131-138, July 2018.

• Publications : National / International Conferences

1. Re-Emergence of Nuclear Energy and Rural Development, "*Technical Education for Sustainable Development in Rural India*", 18-11-2005.

2. Analysis of node Isolation probabilities in wireless sensor Networks for Nakagami fading space-time block coding, "*National Conference on Recent Trends in Computational Sciences and Engineering (RTCSE-11)*", 12-02-2011.

3. Implementation and Performance Analysis of AMC Schemes in WiMAX OFDM (802.16d)-based System, "*National Conference on Recent Advances in Electronics & Communication Engineering (RAECE-12)*", 18-05-2012.

4. Performance Analysis of MC- CDMA System under Clipping Noise, "*Advanced communication Trends-ACT-12*", August 23- 24, 2012.

5. Dynamic Subcarrier Allocation for Real-Time Traffic over Multiuser OFDM Systems, "*Advances in Computer Applications –NCACA 2O12*", May 10-11, 2012.

6. Channel optimization for uncoordinated WLANs, "*Emerging Trends in Electronics & Communication Engineering ETECE-13*", May 12 -2013.

7. Design and implementation of 16b/20b encoder/decoder on an FPGA, "*Emerging Trends in Electronics and Communication Engineering –NCETECE*", 2013.

8. Design of power-efficient and high-speed adders Subsystem, "*Recent trends in Electronics & Communication Engineering (NCRTEC-13)*", 2013.

9. Efficient soft error detection and correction for memory applications, "*Trends in Computers, communication and Information Technology*", 2013.

10. Design of power-efficient Divided by 2/3 Counter using e-tspc based flip-flops, "*National Conference on Recent Trends in Electronics and Communication Engineering –NCRTEC*", 2103.

11. Handoff management using signal to interference ratio for a next-generation wireless system, "*Technika-2014*", May 2014.

12. Signal to interference ratio based handoff management for a next-generation wireless system, "*Recent trend in electronics and communication engineering*", 2014.

13. LDPC coded pilot tone assisted MPSK co-OFDM System, "*Emerging trends in electronics and communication (NCETEC)*", 2015.

14. ERITCC Protocol: An efficient approach to energy reduction in cluster-based wireless sensor networks, "*Computer communication and networks (i3CN)*", 2015.

15. MDP based optimized vertical handoff for vehicle Hetnet, "*Thrantrajna -Vision -16*", 2016.

16. A vertical handoff between WLAN_UMTS based on CRI Algorithm in heterogeneous networks, "*Thrantrajna -Vision -16*", 2016.

17. Vertical Handoff Decision Approach for the Multimedia Data in Heterogeneous Wireless Network, "*Thrantrajna -Vision -17*", 2017.

18. Energy-efficient VHO in WBAN networks, "*Alternative methods to resolve energy crisis (NCAMREC)*", 2018.

19. Smart Bus System using IoT, "*Jnanasangma -2019, VCET Puttur*", 2019.

• Professional Activities: NPTEL Course

	Subject	Year of Certification	Result
NPTEL (National Program on Technology Enhanced Learning)	1. Teaching and Learning in Engineering (TALE) (Prof. N J Rao, IISc, Bangalore)	March-2019 (4weeks. FDP)	75% (Silver Medal)
	2. Technical English for Engineers (TEE) (Prof. Aysha Iqbal, IIT, Madras)	Sept-2019 (8weeks. FDP)	72%
	3. Introduction to the Internet of Things (IoT), (Dr. Sudip Misra. IIT, Kharagpur)	Nov-2019 (12weeks. FDP)	77% (Silver Medal)
	4. Principles of Modern CDMA / MIMO / OFDM Wireless Communications (Prof. Aditya K. Jagannatham. IIT, Kanpur)	Nov-2019 (8weeks. FDP)	92% (Gold Medal)
	5. Electronic Waste Management - Issues And Challenges 6. Introduction to Industry 4.0 and the Industrial Internet of Things 7. Cloud Computing	Feb-2020 (4 weeks FDP) Feb-2020 (12 weeks FDP) Feb-2020 (8 weeks FDP)	Internal Scoring 98% 95% 100% Exam postponed Due to COVID-19
	8. Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning. (Prof. Aditya K. Jagannatham. IIT, Kanpur)	(12 weeks FDP) Jan - 2021	Internal Scoring 100% Exam postponed Due to COVID-19

• Faculty Development Programmes (FDP) Participated

SL. No.	Program Title	Venue	Date & Year
	FDP on "A Pedagogy for Effective use of 5G Communication Network for Cloud Applications."	ATAL, New Delhi & JNNCE,, Shimoga.	13-07-2021 to 17-07-2021 (Five days)
1.	Online FDP on "Artificial Intelligence for Smart And Sustainable Energy Systems"	ATAL, New Delhi & MIT, Manipal	07-12-2020 to 11-12-2020 (Five days)
2.	Online Masterclass on "Patent Drafting"	Turnip Innovation Pvt. Ltd, Mumbai	28th Nov 2020 (One day)

3.	Online FDP on "Towards 5G Communications & Beyond with IoT, Machine Learning".	ATAL, New Delhi & Goa College of Engineering,	23-11-2020 to 27-11-2020 (Five days)
4.	Online FDP on "Data Science and Machine Learning"	ATAL & KIET, New Delhi	17-11-2020 to 21-11-2020 (Five days)
5.	Online FDP on "Python"	Dept. E&C, JSSATE, Noida	22nd June to 4th July 2020 (Two Weeks)
6.	Faculty Development Program	KVGCE-ISTE chapter	23-06-2001 (Two days)
7.	FEEL Teacher Training program	KVGCE-ISTE chapter	16-08-2001 (3 days)
8.	Staff development program on wireless communication	NMAMIT, Nitte	12-03-2009 (Two days)
9.	FDP on wireless sensor network- hands-on session- Qualnet	SJBIT, Bangalore	27-7-2010 (five days)
10.	FDP mission 10X	KVGCE, Sullia	20-12-2010 (five days)
11.	Participate In Microsoft Dream Park Yatra- 2011	KVGCE, Sullia	21-03-2011 (one day)
12.	Orientation Programme for NSS program officer	VTU, Belgaum	13-7-2011 (one day)
13.	Challenges and opportunities in the implementation of NSS in the present scenario	BMSCE, Banglore	26-09-2018 (One day)

• Workshops / Short-term Course Attended

SL. No.	Workshop Title	Place	Date & Year
1.	VLSI Design.	BVBCE, Hubli	15-09-2001 (8 days)
2.	8086/VHDL/8051 Design Labs Including Theory and Hands-on Sessions	SJCE, Mysore	10-09-2004 (3 days)
3.	Technology Trends in Mobile Computing and Communication	BNMIT & IIIT-B Bangalore(IISce)	10-04-2004 (one day)
4.	Mathematical tool for engineering application	KVGCE, Sullia	13-05-2006 (one day)
5.	Advanced signal processing technologies	BNMIT, Bag, and IEEE signal processing society.	07-04-2006 (2 days)
6.	Matlab,simulink & DSP processor	Dr.AIT, Bangalore	06-03-2006 (3 days)

7.	Wireless communication-past, present & future	GSSSIETW ,Mysore	05-02-2010 (one day)
8.	Essential of LaTex	SJCE, Mysore	5-09-2014 (two days)
9.	Research methodology	VCET, Puttur	23-07-2016 (Five days)
10.	Challenges and opportunities in the implementation of NSS in the present scenario	BMSCE, Bangalore	26-09-2018 (One day)
11.	The aspect of LTE 4G	Sahyadri, College of Engg, Mangalore	22to 24 Mach-2019
12.	Webinar: "Unravvelling the Covid-19 Pandemic and its management"	Brindavan College of Engineering , Bangalore	15-05-2021
13.	Webinar on "Trustworthiness & Reliability of Engineering and IT Professionals"	Dr. Ambedkar Institute of Technology, Bangalore	12-07-2021

• No. of Project Guided

UG	PG
34	30

• Responsibilities Taken in College Level

Event	Positions	Duration	
		From	From
NSS & RRC	Program officer	01-02-2008 -Till the date (Organizing 100+ programs)	
Youth Red Cross unit	Program officer	10-08-2012	Till the date
NSS	Secretory: (NSS &YRC unit advisory cell)	2014	Till the date
NAAC	Criteria- 3: Coordinator (Extension Activities and institutional social responsibility)	2014	Till date
Technical Fest (Vsion & Thantrajna -16)	Program coordinator	2016	
NBA	Coordinator for Criteria -7	2018	Till date
NBA	Convener: NSS, RRC & YRC	2018	Till date
AICTE: Activity Point Programs	Chief Coordinator	2019	Till date
Alumni meet	Chairman-Liaisoning committee	2017	---

College Anti-ragging committee	Member-Chairman	2012	2017
Science Talent Hunt Program	Coordinator for Science Model Exhibition	2018	Till date
College Website	Chief_Coordinator	2021	-----
Alumni Association	Adviser	2021	---
Admission Activity-college	Chief Coordinator	2021	----

• Responsibilities Taken in Department Level

Event	Role	Duration	
		From	To
1. Project work (UG)	Co-ordinator	2000	2004
2. Communication/DSP lab	In- charge	2000	2004
3. Seminar	Co-ordinator	2000	2004
4. Project work (UG)	Co-ordinator	2006	2008
5. PG Co-ordinator	Co-ordinator	2007	Till date
6. PG Project co-ordinator	Co-ordinator	2010	2015
7. CCN Lab	In- charge	2017	Till date
8. Project Work (UG)	Co-ordinator	2019	Till date
9. Mini-project work 3rd semester Students	Mentor	2018	Till date

• Program Guidelines Prepared

SL. No.	Guidelines Title	Semester and branch	Year
1.	Guidelines for NSS, RRC & YRC Program	NSS & YRC Unit	2012
2.	Guidelines for PG Program	M. Tech	2014
3.	Guidelines for DAC committee	NBA program	2019
4.	Guidelines for Activity Point Program	AICTE- APP Program	2019

• Interaction with Outside World / Invited Lectures

Sl.No.	Program	Venue and Organizer	Date
1.	Technical Talk, Resource person. (Students welfare program)	P.A Polytechnic, Mangalore	28.09.2016
2.	Judge for Project exhibition	KVGP, Sullia	12.02.2017
3.	Technical Talk, Resource person. (Students welfare program)	KVGP, Sullia	06.10.2017
4.	Judge for Science model exhibition	KVG PUC, Sullia	18.12.2017
5.	Teacher Training Workshop: Resource person. (Value Education)	KVGIPS, Sullia	26.04.2019
6.	3rd National Conference on Communication and Data science (NCCDS-2021): Chaired a session	GSSSIETW, Mysuru	10-07-2021

• Awards / Recognition / Achievements/ Others

- Updated **Skillset** in fields of Computer Science, Advanced Communication and Networking
- Appeared for **GATE Examination** and qualified to perceive the post-graduation with scholarship (2004).
- Secured **1st Rank** in M.Tech and was awarded a **Gold medal from V.T.U** with the august presence of the president of India Dr. A.P.J Abdul Kalam (2007).
- Awarded with **Dr. K.V.G Meritorious Gold Medal** for excellence in M. Tech Program (2007).
- **Letter of Appreciation** for excellence in teaching since 2016.
- Served as S. B. Polytechnic **Hostel Warden** for 5 years from 1995 to 2000.
- Served as S. B. Polytechnic **Sports Officer** for 2 years from 1994 to 1996.
- **Co-ordinator** of VTU Digital Valuation Centre, KVGCE, Sullia for the digital Valuation work of UG/PG answer scripts May/June/July 2016-2017 Examination.
- Served as **External Deputy Chief Superintendent**, **Squad member, and chai**rmen of VTU examination Work.
- BOS member of Electronics and Instrumentation board at VTU for the year 2022-2025
- 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, PES @ Mandya, PESIT@ Bangalore, MIT @ Manipal, SJCE@ Mysore, MCE@ Hassan, Sahaydri@ Mangalore.

Personal Details

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I hereby declare that the particulars given above are true to the best of my knowledge and belief.

(Dr. SURESHA V.)