S.KUMUDA
Assistant Professor
M.Tech
Department of Electronics & Instrumentation
Engineering
BMS College of Engineering, Bangalore
Experience: 13 years
Teaching experience: 13 years
Date of Joining this Institution (BMSCE):
14.09.2011
Mail: Kumudamohan.intn@bmsce.ac.in
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PERSONAL SUMMARY:

My vision is to emerge as an Ambitious and Independent Engineer capable of solving societal problems through technical knowledge.
To help young engineers to improve their lives through an educational process that uses research based knowledge focused on issues and needs of the society.

Possessing excellent communication skills & having the ability to communicate professionally with colleagues and Students. Interested to work in a challenging position that provides ample opportunities to learn, achieve professional excellence and contribute to the growth of my work place.

Apart from academics, I am active with various activities of professional body ISA (International Society of Automation) a non-profit organization. I am one of the **member** of **Executive Committee** of ISA and currently taken up the responsibility of **News letter Editor of ISA**.

My association with **ISA** has enabled me to update myself with current technology, interact with various industry experts, providing opportunities to students in the form of internships, projects based on their interests in Instrumentation domains.

EXPERIENCE:

- ➢ Worked as a Lecturer in Electronics Department at Seshadripuram Degree College from 4th July 2003 to 5th October 2009.
- ➢ Presently Working as Assistant Professor in BMSCE, Bangalore, since 14/09/2011.

ACADEMIC QUALIFICATION:

1) *Visveswaraiah Technological University*   *2009-2011*
  M.Tech in **Biomedical Signal Processing and Instrumentation**
     at R.V.College of Engineering, Bangalore.

2) *Visveswaraiah Technological University*   *1999-2002*
   Bachelor of Engineering in **Electronics and Communication**
   at H.K.B.K College of Engineering, Bangalore.

ACADEMIC AWARDS & DISTINCTIONS:
1) Third Rank in M.Tech   *2011*
2) M.tech First class with Distinction   **2009-2011**

RESEARCH ACTIVITIES & PRESENTATION:

Sl. No	Title of the Paper	National/International	Year and Month of Publication	Conference/Journal
1.	"Biotelemetry Over TCP/IP in LabVIEW",	**International conference**	2018	Remote Engineering and Virtual Instrumentation REV2019 2019: Cyber-physical Systems and Digital Twins pp 661-673
2	"AquaPredicto—Freshwater quality management system for lakes",	**International conference**	2016	Humanitarian Technology Conference (R10-HTC), 2016 IEEE Region 10, 1-8
3	"Low cost eye based human computer interface system (Eye controlled mouse",	**International conference**	2016	India Conference (INDICON), 2016 IEEE Annual, 1-6
4	LPG detection, measuring and booking system	**International Journal**	Nov- 2014	IJRSI-online Journal, pg no 07-10,vol-1,issue- VI, Nov 2014
5	Translator for 'Deaf and Dumb'"	**International Journal**	July 2014	PISER Journal, ISSN 2347-6680(E), PISER 14, Volume.02, Issue: 04/06, July-August, July 2014
6	Mail Sorter Using LabVIEW	**International**	14th July 2012	"International Conference on Computer Science and Information Technology-ICCSIT-2012" at pune,IRNet
7	Self-balancing robot using Android	**International**	15th JULY 2012	"International conference on computer science and engineering-ICCSE-2012" at Pondicherry
8	Quantification of HRV data using Symbolic Entropy	**National**	12th-13th May-2012	"Computational Control System and Optimization-CCSO-2011" organized by

| 9 | Review of HRV data | **National** | 26th February-2011 | Dr.Ambedkar Institute of Technology,Bangalore |
| | | | | "Emerging Trends in Biomedical Signal Processing-ETBMSP-2011" Organized by RVCE,Bangalore |

PROJECTS GUIDED:

Sl. No	Project Title	Year of completion
1.	Digital Oscilloscope using QT on Raspberry Pi	2013
2	Automatic LPG Leakage detection, Measurement and booking system	2014
3	Digital Stethescope	2015
4	Thermal and RGB image based Robotic system to identify victims and active fire regions in disaster hit areas	2015
5	Aquapredicto- fresh water analysis	2016
6	Low cost eye based human computer interface system (Eye controlled mouse)	2016
7	Real time conversion of printed text to Braille	2017
8	Establishing Acoustic channel for underwater communication	2017
9	Smart assistant for deaf and dumb	2018

WORKSHOPS /SEMINARS ATTENDED:

Sl. No.	Workshops / Seminars	Date & Venue
1.	One week GIAN Course on **"Integrated water resource management"**	Dept of CIVIL, BMSCE during 11th February – 15th February 2019
2	Organised TEQIP III sponsored two days workshop on **"Advanced Muti-Domain System Modelling using OpenModelica"**	26-27 Nov., 2018
3		
4	One week workshop on Internet of Robotic Things	16th to 21st January 2017, Ramaiah Institute of Technology, Bangalore
5	One week workshop on Industrial Automation	11th - 16th July 2016,BMSCE, Bangalore
6	One week Workshop on MEMS Based Biomedical Engineering	13th – 18th June 2016, R.V. College of Engineering, Bengaluru.
7	National Workshop on Recent Advances in Industrial/Process Automation and Controls	30th May- 4th June 2016,BMSCE

8	"Three days TEQIP II sponsored National Level workshop on Research Methodologies and Report Writing"	21–23 April. 2016, SV University, Tirupati
9	Workshop on "Electronics System Design, Manufacturing And" Testing (ESDMT)	27 - 31 July 2015,BMSCE
10	Workshop on " The freedom Lab in a Box" by ARM University Program, "Problem based Learning" and "Engineering Projects in Community Service"	ICTIEE-2015, BMSCE
11	Classical control Theory & Design using Matlab/Simulink-TEQIP-II	22nd & 23rd May 2014, BMSCE
12	Two week ISTE workshop on "Signals & Systems"	2nd to 12th January 2014
13	"Digital Signal Processing and information processing with hands on"	19th to 23rd August 2013,NTTE Meenakshi Institute of Technology,Bangalore
14	Analog & Embedded Processing	1st – 6th July 2013Dept., of Medical Electronics, BMSCE
15	Outcome Based Education – The science of being a teacher	10th – 15th June 2013Dept., of IT, BMSCE
16	Modelling , Simulation & Analysis of Biomedical Systems	15th – 16th March 2013, M S Ramaiah School of Advanced Studies
17	Brain & Cognition: Neuroscience – Signal & Image Analysis	7th -12th Jan 2013, Dept., of Medical Electronics, BMSCE
18	NEN Faculty Development Course on Building Technology Ventures	August 8-10,2012 at Dayanand Sagar College of Engineering, Bangalore
19	Workshop on "SCILAB"	August 1st and 2nd ,2012, at RVCE, Bangalore
20	Explore VIN research areas	July 24th-26th, 2012 at VKIT, Bangalore
21	3-Day Workshop on Digital Image Processing	At BIT, Bangalore
22	Workshop on Implementation of Process Control Concepts on LabVIEW	November 30th ,2012 at BMSCE, Bangalore

COURSES HANDLED/LIST:

1. Elements of Electronics Engineering
2. Signals and systems
3. Data acquisition & Virtual Instrumentation
4. Laser and optical fibre instrumentation
5. Analytical instrumentation
6. MEMs and Sensors
7. PCB design
8. Simulation Techniques

OTHER INFORMATION:

1.Secured **Third Rank** in M.Tech-2011,RVCE, VTU, Belgaum.

2. **Second Best Guided Project award at Institution level for the Project titled " Real time conversion of printed text to Braille"**

3. Completed Research consultancy work from GTRE titled "An Engineering approach to determine Sampling rate and Word length in a Digital Control System"

4. Currently involved in **FOSSEE project-IIT Bombay**, which is a part of the National Mission on Education through Information and Communication Technology (ICT), Ministry of Human Resource Development (MHRD), Government of India.

5. Life Member of **ACCS**(Advanced Computing and Communication System).
6. Executive member of ISA (International Society of Automation) a non-profit organization.

TECHNICAL SKILLS:
1. C Programming
2. C++ Programming
3. Embedded system-Microcontroller –Keil Software
4. MatLab programming and modelling
5. NI- Lab VIEW-Graphical Programming
6. NI- Multisim
7. Circuit Design and simulation using Orcad Capture(Pspice)
8. SCI LAB open source platform

NPTEL Course completed with Certification:

Sl.NO	Course Name	Year	Offered by
1	Effective engineering Teaching in Practice	2018	IIT-Madras
2	Fabrication Techniques for MEMS-based Sensors: Clinical Perspective, 12 weeek Course during Feb-Mar 2018	2018	Indian Institute of Science, Bangalore
3	MOOC Course on **"Lifeskills for Engineers(level-1)** 15/05/2018 to 28/06/2018	2018	Commonwealth Educational Media Centre for Asia (CEMCA) and University of Hyderabad(UOH)
4	MOOC Course on **"Lifeskills for Engineers(level-2)** during 06/11/2018 to 20/12/2018	2018	Commonwealth Educational Media Centre for Asia (CEMCA) and University of Hyderabad(UOH)
5	SWAYAM- NPTEL course on **"Descriptive**	2019	IIT Kanpur

statistics with R Software" with ELITE SILVER certification, 8-Week Course during February-April 2019.		

STRENGTHS:

- ❖ Self Motivated and Determined
- ❖ Success Oriented
- ❖ Hardworking
- ❖ Intelligence and Self Confidence
- ❖ Team Player

WEAKNESS:

- ❖ Getting Nervous around people
- ❖ Being a Debater
- ❖ Sensitive person
- ❖ Too helpful
- ❖ Trying to be more Perfectionist

HOBBIES & INTERESTS:

Most of my spare time in the evening or weekend is taken up with socialising with my close friends ,family or doing activities that I enjoy, such as reading books, listening to music, Yoga, Meditation and walking. Team sports or games are a favourite past time of mine as they give me a chance to meet new people and make friends.

LANGUAGES KNOWN:

English, Hindi and Kannada – reading, writing and speaking.

PERSONAL DETAILS:

Name	:	S.KUMUDA.
Father's Name	:	Somashekara. M.R.
Date of Birth	:	14.09.1979
E-Mail ID	:	kumudaksha2002@gmail.com
Mobile No.	:	98443 68800
Passport No.	:	J0341527
Gender	:	Female
Nationality	:	Indian
Permanent Address:		#496, 1st G Cross, 8th Main Road,
		3rd Stage, 4th Block, Basaveshwaranagar,
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