Name: Dr. Harikrishna Mulam

Designation: Associate Professor

Department: Electronics and Instrumentation Engineering

Mail I'd: harikrishna_m@vnrvjiet.in

Experience (in years): 22   Teaching: 22   Research: 10   Others: ---

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D.)	Year of passing	Specialization
1	Ph.D.	2022	Biomedical Engineering
2	MTech	2010	Instrumentation and Control Systems
3	BTech	2001	Electronics and Instrumentation Engineering

2. Teaching and Learning:

2.1. Teaching Interests: Control Systems, Biomedical Instrumentation, LDIC, SS, DSP

2.2. Novel Teaching & Learning Techniques adopted: POGIL, WIT & WIL

2.3. Involvement in curriculum updating / Design: Member of Board of Studies, Reviewed Curriculum

3. 3. Co-curricular and Extra-Curricular Activities

3.1. Professional Society memberships

3.2Interests and Hobbies: Reading Books and Magazines

3.3 CCA/ECA Organized:

- Member of Venue Committee for Cultural and Annual Day
- Organized Industrial Visits to Elico Ltd and Kwality Photonics Pvt Ltd (2016-17)

3.4 CCA/ECA participated: Convergence, Yoga

3.5 Counseling and Mentoring Activity: Mentor for 32 students

3.6 Committees involved in:

Department level:

- Member of BoS,
- Project Coordinator,
- Shadow Engineering Coordinator
- National Instruments Academy Lab Incharge,
- Member of DDC, DAC, CRC

Institute Level:

- Member of Venue Committee for Cultural and Annual Day
- Stock Verification Committee in the Institute Level
- Actively involved in inspecting the EIE Department Labs for FFC Visit

4. Conference / Workshop / Seminar / Guest Lectures :

4.1Conducted:

- Guest Lecture on "Missile System Engineering" by K.ChandraSekhar, Scientist, DRDL, Hyderabad on 14th March,2016
- Guest Lecture on "Hardware Implementation using FPGAs" by K. Sudharsana Reddy, Scientist -E, RCI, DRDO, Hyderabad on 22nd October,2016

- Workshop/Training Program on " PCB Design and Fabrication" for II EIE-A and II EIE-B students during 24th to 27th October,2016.

4.2 .Attended:
- National Instruments webinars on temperature and vibration measurement
- Indo US Education - about effective teaching methodologies by Dr Krishna Vodula
- Workshop on Design of POGIL activities for Outcome based Education, organized at B-block seminar hall, VNRVJIET
- Facilitators are Richard Samuel Moog, Swetha Padma and KodeSandhya
- Workshop on WIT & WIL at DSP Lab of Department of ECE by the resource persons Dr C Kiranmai, Dr BNM Rao
- CAMS e-learning training at VNRVJIET
- National Instruments Technical Symposium 2014, , organized by National Instruments at Taj Deccan, Banjara Hills, Hyderabad
- National Workshop on Cognitive Sciences and Neuro Signal Processing, organized by Department of BME, OU in collaboration with Research and Training Unit for Navigational Electronics, OU under TEQIP-II
- Motivational Lecture by Dr. G.V. Rao organized by VNRVJIET
- IndiaLab Expo visit at Hitex, Hyderabad

5. Academic Contribution and Research & Consultancy:

5.1 Invited Lectures: Nil

5.2 Articles/Chapters published in Books: Nil

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided :
  a) UG : 30   b) PG : 5

5.5 Research Interests : Biomedical Signal Processing

5.6 Ph.D students :
  a) Enrolled : Nil   b) Submitted: Nil   c) Awarded: Nil

5.7 Papers published in reviewed journals :

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	High-performance compression-based brain tumor detection using lightweight optimal deep neural network	Advances in Engineering Software	Electronic ISSN 0965-9978	4.255 Web of Science, SCOPUS, Google Scholar, UGC-CARE List (India)	International September 2022
2	A computer aided diagnosis framework for detection and classifcation of interstitial lung diseases using computed tomography (CT) images	**Applied Nanoscience**	Electronic ISSN 2190-5517	3.869 SCIE, SCOPUS, Google Scholar, UGC-CARE List (India)	International July 2022

2	Optimized Multiwavelet Domain for Decomposed Electrooculogram based Eye Movement Classification	IET Journal of Image Processing, Volume 14, Issue 9, Pages 1862–1869	Online ISSN 1751-9667 Print ISSN 1751-9659	1.995, Indexed in SCI, WoS, SCOPUS, Google Scholar	International July 2020
3	EOG based eye movement recognition using GWO-NN Optimization	Journal of Bio-medical Engineering/ Biomedizinische Technik, Volume 65, Issue 1, Pages 11–22	ISSN 0013-5585	1.054, Indexed in SCI, WoS, SCOPUS, Google Scholar	International January 2020
4	LabVIEW controlled Flame Automizer for Atomic Absorption Spectrophotometer	International Journal of Innovation, Management and Technology	DOI: 10.7763/IJIMT.2013.V4.472	Indexed in Google Scholar	International December 2013

5.8 Papers presented at National / International Journals :

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Modeling a MIMO System with an ARX Model and Input Output Data with Noise	ICCICCT 2015	International	December 2015
2	Development of Motorized WheelChair control system using Electrooculography Signals	National Symposium on Instrumentation -40	National	October 2015
3	GSM and GPS based Elderly People Monitoring System	47th ISTE National Symposium	National	April 2010
4	Modeling a MIMO System with an ARX Model and Input Output Data with Noise	ICCICCT 2015	International	December 2015
5	Development of Motorized WheelChair control system using Electrooculography Signals	National Symposium on Instrumentation - 40	National	October 2015
6	Electrooculography based Human-Computer Interface	National Symposium on Instrumentation (NSI-38) organized by B.V.B. College of Engineering, Hubli in association with ISOI		24th – 26th October 2013
7	GSM and GPS based Elderly People Monitoring System	47th ISTE National Symposium	National	April 2010

5.9.Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1	ElectroOculoGram-based Eye Movements Classification and Codification for the Development of Assistive Technology for DIVYANG	DST	Applied on 31st Mar2017		Awaiting for Funding

6.   Awards / Honors received:

Award of Excellence – Best Paper Award in ICCICCT -2015 IEEE conference, organized by ICCICCT Committee, Noorul Islam Center for Higher Education

7.   Motto:

Perseverance is the light of life