

Name : Dr.S.Pranavanand

Designation: Associate Professor

Department: EIE

Mail.I.D: pranavanand_s@vnrvjiet.in



Experience (in years): Teaching:16 Research: 10 Others :

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	PhD	2018	Control system
2	M.E	2005	Electronics & Control Engineering
3	B.E	2002	Instrumentation & Control Engineering

2. Teaching and Learning:

2.1. Teaching Interests:

- Electronic Devices and Circuits, Control Systems, Virtual Instrumentation, Intelligent Control, Electronic Circuits Analysis, IoT

2.2. Novel Teaching & Learning Techniques adopted:

- POGIL, Learning by Doing

2.3. Involvement in curriculum updating / Design:

- BoS: Chairman of EIE from 2012 to 2015

3. Co-curricular and Extra-Curricular Activities

3.1. Professional Society memberships:- ISOI

3.2. Interests and Hobbies: Innovation and project development

3.3. CCA/ECA Organized:

Coordinator Convergence 2k19

- Member: Sports Fest 2012,13,14,2015
- Coordinator: Scintillation 2k23

3.4. CCA/ECA participated:

3.5. Counseling and Mentoring Activity:

- Mentor for eight students each from II, III and IV years

3.6. Committees involved in:

Department level:

- Coordinator Convergence 2k19 and pre convergence activities
- Member of convergence team as ISOI faculty coordinator
- Security committee member- Scintillations since 12 years
- Institute Innovation Council activities from 2018 to 2020
- Faculty coordinator – ISOI for 3 years

- As a member of Industry Institute Interaction cell, secured internship cum placement for students at M/s ZF India Technology Center, Hyderabad for two consecutive years, 2018 and 2019
- Secured internship for 13 students of CSE, IT, AE and EIE at M/s ZF India Technology Center during 2018
- Secured internship for UG and PG students at IIT Hyderabad during the year 2013 and 2014

Institute Level:

- Convener- Institute Innovation Council
- Coordinator – Convergence 2k19
- Coordinator- Intramural Innovation Challenge- 2k19
- Member of BoS from 2011 onwards and supporting the establishment of new curriculum at the Dept. as well as the institute level
- Chairman BoS of the Dept.
- Member Academic Council
- Member BoS of JNTU Hyderabad
- Special Invitee to BoS, JNTU H
- As a member of Industry Institute Interaction cell, secured internship cum placement for students at M/s ZF India Technology Center, Hyderabad for two consecutive years, 2018 and 2019
- Secured internship for 13 students of CSE, IT, AE and EIE at M/s ZF India Technology Center during 2018
- Secured internship for UG and PG students at IIT Hyderabad during the year 2013 and 2014
- Established National Instruments, USA Academy at the Institute

4. Conference / Workshop / Seminar / Guest Lectures:

4.1. Conducted:

- Delivered Webinars on Introduction to G- Programming and Introduction to Patent Writing and associated protocol during May and June 2020 respectively.
- Conducted more than 10 training programs for students during the last 3 years
Was a member IIAC

4.2. Attended:

- **2018 IEEE Conference on Systems, Process and Control (ICSPC 2018)**, 14–15 December 2018
- **IEEE International Symposium on Robotics and Intelligent Sensors (IEEE-IRIS2015)**, Langwaki, Malaysia, Oct 2015
- **12th IEEE INDICON**, organized by Dept of Electrical Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, India, Dec 2015
- **IEEE International conference on Control, Communication and Computing**, Organized by College of Engineering, Trivandrum, Kerala, India, Nov 2015

- **Innovation Ambassador Training organized by MHRD during Feb, 2020.**
- Tutorial workshop on applied nonlinear and intelligent control, organized by IISc, Bangalore, during 11th May 2009 to 15th May 2009.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

- Conducted and delivered expert lecture in IEEE sponsored workshop at University Technology Petronas, Malaysia
- Conducted and delivered expert lecture in IEEE sponsored workshop at University Technology Petronas, Malaysia
- Conducted and delivered expert lecture in IEEE sponsored workshop at University Technology Petronas, Malaysia
- Delivered guest lecture at Quest International University, Ipoh, Malaysia during 2016
- Organized more than six certificate course for the students of EIE Department

5.2. Articles /Chapters published in Books: -03-

5.3. Books published as single author or as editor:

5.4. Projects Guided:

- a) UG: 30+ b) PG: 05

5.5. Research Interests:

Developed three new devices

- Manual Roti-making machine
- Arm movement stricter to fight COVID-19
- Low Hypochlorite generator
- Working in novel face shield.

- Patent Granted:

- Automatic Airlock removal system and thereof #201841022148
- Modular Enclosure for Chemical Processing #342237-001
- A non-invasive device for modulus measurement of pavement layers #353540-001
- Cooking appliance #376991-001
- Automatic Water Dispenser #369341-001

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/IS SN No.	Impact Factor/ Citation Index	National/ International
1.	A novel method to optimize the power utilization of Single Fluid Heat Transfer System”,	Journal of Engineering Science and Technology, Vol. No. 12, Issue No. 12, pp. 3299-3214.	1823469 0	0.79	International
2.	Tuning of PID Controller for DC Servo Motor using Improved	International Journal of Simulation, Systems, Science and Technology ,Vol. No.	14738 031	0.60	International

	Cuckoo Search Algorithm	18, Issue No. 2, pp. 6.1-6.9.			
3.	Wireless Sensor Network (WSN) based control of Level Control Module of Single Fluid Heat Transfer System	Journal of Instrumentation Society of India. Vol 47, Issue 1, pp. 10-14.	ISSN 0970998 3	0.5	National
4.	Optimization of the thermal transfer capability of Single Fluid Heat Transfer System (SFHTS) using LabVIEW,.	Journal of Instrumentation Society of India, Vol 45, Issue 3, September 2015, pp. 171-175	ISSN 0970998 3	0.5	National
5.	Mathematical modeling and simulation of a new technique for mortar preparation system using Virtual instrumentation”,	International Journal of Engineering Science and Research Volume 02, Issue 04, July 2011	ISSN: 2277-3916	0.2	International
6.	A new automated technique to control the anaerobic digestion process using Virtual Instrument	International Journal of Engineering Science and Research January-April 2012, pp 473-477	ISSN: 2277-3916	0.2	International
7.	Design and Development of a Low Cost Miniaturized Wind-Solar Hybrid Plant and Performance Optimization using Virtual Instrument	Journal of Instrumentation Society of India, Vol 26, Issue, September 2012, pp 425-428	ISSN 0970998 3	0.5	National
8.	Control of process variables for Remote Applications using LabVIEW and Internet	CVR Journal of Science and Technology Volume 2, June 2012, pp 380-384	ISSN: 2472-9326	0.5	National
9.	Regulating the level of Boiler Drum using LabVIEW	Journal of Instrumentation Society of India Volume# 44, Issue# 3, September 2014, pp 185-188	ISSN 0970998 3	0.5	National
10.	Optimization of the thermal transfer capability of Single Fluid Heat Transfer	Journal of Instrumentation Society of India, Vol	ISSN 0970998 3	0.5	National

	System (SFHTS) using LabVIEW	45, Issue:3, September 2015, pp 171-175			
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5.8 Papers presented at National / International Conference:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1)	Experimental Analysis of Novel Control Scheme Developed for Single Fluid Heat transfer system	2018 IEEE Conference on Systems, Process and Control (ICSPC 2018), 14–15 December 2018, Melaka, Malaysia	International	Dec 2018
2)	Mathematical modelling and development of intelligent controllers for ameliorating the performance of Single Fluid Heat Transfer	IEEE International Symposium on Robotics and Intelligent Sensors (IEEE-IRIS2015), Langwaki, Malaysia	International	Oct 2015
3)	Implementation of SM Controller and NHFL Controller to control the operation of SFHTS using LabVIEW	12th IEEE INDICON, organized by Dept of Electrical Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, India	International	Dec 2015
4)	Development of different controllers using Virtual Instrument to bolster the performance of Single Fluid Heat Transfer System	IEEE International conference on Control, Communication and Computing, Organized by College of Engineering, Trivandrum, Kerala, India	International	Nov 2015
5)	Data Acquisition and control of Level process at remote location using LabVIEW”	International Conference on Advanced Computing, Communication and Networks [ICACCN-11]	International	Nov 2011
6)	MEMS based Micro Needles	National Conference on Power Engineering & Process -2008	National	Dec 2006
7)	Image Reconstruction Algorithm for Electrical Impedance Tomography	National conference on Instrumentation, Control Systems and Automation -2006	National	Jan 2006

5.9.Sponsored research Projects:

S.No	Title	Agency	Period	Grant amountIn INR	Ongoing / Completed
1	Weapon Tracking and locking system	DRDL,Pune	1 year	10.00 Lakhs	Completed

2	ROtiBOT	MSME, Govt. of India	1 year	7.35 Lakhs	Ongoing
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6.Awards / Honors received:

Major Achievements during the tenure as In charge: Head of the Department March 2012 to Oct 2014

- Got the Department accredited by All India Council of Technical Education (AICTE), Government of India for a period of two years.
- Got the Department accredited by National Assessment and Accreditation Council (NAAC), Government of India for a period of six years.
- Got the Department autonomous status from University Grants Commission Government of India for a period of five years.
- Established Virtual Instrumentation Lab and Embedded and Microprocessor lab in the department.
- Secured the National Instrument's Academy School award for the department.
- Conducted 10+ certificate/ training courses/ workshop to faculty members and students of the Institute.

Honorable/ Distinguished post held

- Board of Studies member of Jawaharlal Nehru Technological University, Government of Andhra Pradesh, Hyderabad, India
- Member of Institute Academic council which finalizes the curriculum for the entire Institute.
- Chairman of Department Development committee
- Chairman of Department Academic committee
- Chairman of Project Review committee
- Member of Institute Research and Development committee
- Mentor for graduate students who were granted scholarship by World Bank under Technical Education Quality Improvement Program (TEQIP)

7.Motto:

Work is worship