

Name : Dr.R.Manjula Sri

Designation: Professor and Head

Department: EIE

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Experience (in years): Teaching:19 Research: 10 Others (If any, Specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	PhD	2017	Biomedical instrumentation
2	ME	1997	Electronic Instrumentation
3	BTech	1994	ECE
4	DECE	1990	ECE

2. Teaching and Learning:

2.1. Teaching Interests: Circuit Theory, Electronic Devices and Circuits, Electronic circuit analysis, Switching theory and Logic design, Computer Organization, Microprocessors and Microcontrollers, Digital and Linear IC applications, VHDL, VLSI Design, PC based Instrumentation, Bio-Medical Instrumentation, Image processing, Principles of communications.

2.2. Novel Teaching & Learning Techniques adopted: learning and teaching through you tube, TED videos and MOOCs, Implementing WIT &WIL for 80% of the content and POGIL for few topics.

2.3. Involvement in curriculum updating / Design: Involvement in curriculum updating of UG during autonomous curriculum design and updation.

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

To promote efficiency and discipline among the students

To promote work efficiency and good attitude towards work in organizations.

3.2. CCA/ECA Organized:

Coordinator for Convergence 2K8, Convergence2K9 and Convergence 2K10.

Advisor for ISOI student Chapter, VNRVJIET.

Involved in organizing women's day celebrations

3.3. CCA/ECA participated:

Participated TEDx VNRVJIE in 2016.

World yoga day celebrations at VNRVJIET.

3.4. Counseling and Mentoring Activity: Involved in mentoring twenty students every semester from the past five years.

3.5. Committees involved in:

Department level: DDC,DAC,DBC,CRC,BoS

Institute Level: Governing Council, Academic Council, IAC, DC, F&PDC, FSC BoS, IQAC.

Member, BoS: EIE,ICE,BME_,JNTUH during 2016.

Chair_finance for IACC2017,

Session co-chair for a technical session during IACC2017.

Chair_Refreshments comm. During convergence and Sintillashunz 2017.

4. Conference / Workshop / Seminar / Guest Lectures:

- Conducted:
 - Conducted a three day workshop on Process control Instrumentation during 2007
 - Conducted a three day workshop on Biomedical Image Processing during April, 2008.
 - Conducted 2 day workshop on Lab VIEW during June 2011.
 - Conducted Micro Teaching for newly recruited faculty during July 2011.
 - Conducted two certification courses during December 2014.
 - Conducted 4 day refresher course on virtual instrumentation lab during June 2015.
 - Conducted work shop on Real Time Applications using LabVIEW during July 2015
 - Conducted guest lecture on Raspberry Pi and its Applications during September 2015
 - Arranged a visit to IV B.Tech students to Industrial instruments Expo, Hitex, Hyderabad during Sep 2015
 - Conducted work shop on - “Design, Development and Applications of Advanced Robotics” during Nov 2015
 - Conducted work shop on - “Applications of computer networks and security” during Nov 2015
 - Conducted 40 hrs Certification course on PLCs and SCADA during Dec 2015
 - Conducted 40 hrs Certification course on Digital design through Verilog during Dec 2015.
 - Conducted four work shops ,eight guest lectures and three local industrial visits for students during 2016.
 - Conducted one FDP –a 3 day workshop on nanomaterials and their applications for sensors during Nov 2016.
 - Conducted 40 hrs Certification course on Lab VIEW during Dec 2016
 - Conducted 40 hrs Certification course on SQL during July 2016
 - Conducted 40 hrs Certification course on PLC and SCADA during Dec 2016
 - Conducted one day preconference workshop on Lab VIEW During IACC2017.
 - 3Day Workshop on Nano materials and their applications for sensors, October 2016
 - Conducted 40 hrs Certification course on PLC and SCADA during June 2017

- Attended:
 - UGC Sponsored Refresher course on VLSI Design & Embedded Systems during 29th Oct 2003 -18th Nov 2003 at JNTU, Hyderabad.
 - Two day national workshop on Engineering Embedded solutions using Lab view and Virtual Instrumentation on 9th and 10th Dec 2004, at G. Pulla Reddy Engineering College, Kurnool.
 - Five day workshop on MATLAB programming and its Applications during 2nd-6th Jan 2007, at JNTU, Hyderabad.

- Work shop on Image and Speech Processing WISP-2008 on 13th Dec 2008 at IIT, Hyderabad
- Two day workshop on Research methodology and data analysis, during 26th-27th Dec 2008 at VNRVJIET, Hyderabad.
- Two day workshop on Biomedical Engineering during 29th-30th April 2009, at Osmania University, Hyderabad.
- 3 day Workshop on Embedded Linux on Beagle Board organized by C-DAC, Hyderabad during 14th to 16th June 2012.
- IEEE Two day work shop on Advances in Image processing and application during 26th-27th October 2013, at BITS, Hyderabad.
- Three day workshop on POGIL during July 2013, at VNRVJIET.
- Two day workshop on creative teaching during Feb, 2013 at VNRVJIET.,
- One day workshop on advances in video processing and applications on 9th Feb 2014 at BITS, Hyderabad.
- Two day work shop on ICT in Space, Defense and Industrial Applications at Visweswaraya Bhavan, Hyderabad, during July 2015.
- Open House poster presentation at VNRVJIET during Feb-March 2016.
- 7day FDP on sensor networks and Internet of Things during Nov-Dec 2016.
- Attended one day seminar on outcome based education on 18-12-2016 at OU ,Hyderabad.
- Attended ISOI gold medal award function at OU, Hyderabad.
- 7 day FDP on recent trends in signal processing and its applications during June-July 2017.
- 8 week online FDP on Foundation program in ICT for education by IIT Bombay during Aug-Sep 2017.
- 8 week online FDP on Pedagogy for Online and Blended teaching learning process by IIT Bombay during Oct-Nov 2017.
- Dev Con developers conference ,Hyderabad during Oct 2017.
- 2 Day online refresher course on Machine Learning Dec 17-18, 2017.
- NPTEL certification course during Jan-April 2018, on Introduction to Internet of Things.
- NPTEL certification course during Jan-April 2018, on Machine Learning.
- One week AICTE FDP on Intelligent Computation and Deep learning, during March 2018.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: 02

5.2. Articles / Chapters published in Books: 01

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

5.4. Projects Guided:

a) UG: 32 b) PG: 5

5.5. Research Interests:

Biomedical Image Processing, Bio-Medical Instrumentation, Embedded systems

5.6. Ph.D students: nil

a) Enrolled: b) Submitted: c) Awarded:

5.7. Papers published in reviewed Journals:

S. No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISS N No.	Impact Factor/ Citation Index	National/ International
1	Automatic detection of Age Related Macular Degeneration from Retinal Images-	Technia–International Journal of Computing Science and Communication Technologies, Volume5,issue2 ,January 2013,pp821-825.	0974-3375	0.87	International
2	Image Processing for Identifying Different Stages of Diabetic Retinopathy-	IJRTET by ACEEE, Volume11, June 2014,pp83-92.	2158-5563	2.27	International
3	Hardware implementation of Detection of Glaucoma from retinal images-	Book series of Advances in Engineering and Technology series,2013, volume 7,pp340-345	2214-0344		International
4.	Review of image processing and tele-ophthalmology research projects world over-	Technology Spectrum Journal, Nov 2010, pp42-48	0974–6854		national

5.8. Papers presented at National / International conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Novel Image Processing Techniques to Detect Lesions using Lab VIEW-	IEEE Proceedings of 2011 Annual IEEE India Conference INDICON 2011,at BITS-PILANI, Hyderabad campus. (<i>IEEE Xplore</i>)	International	16th-18th December 2011
2	Measurement of diameters of Retinal Blood vessels using LabVIEW.	Proceedings of ICACCT-2012, at APIIT SD, Panipat.	International	on 3rd November 2012
3	Review of Image Processing Techniques for Automatic Detection of Eye Diseases-	IEEE Conference proceedings of ICST 2012, Kolkata,pp320-325.(<i>IEEE Xplore</i>) .	International	19th-21st December 2012
4	Applications of Image Processing Techniques for Automatic Detection of Eye	International conference on Bio-signals, Images and Instrumentation (ICBSII2013) at Chennai, India.	International	14th -16th March 2013,

	Diseases-			
5	Lab VIEW based assessment of CDR for the detection of Glaucoma-	IEEE International Conference on Emerging trends in Computing, Communication and Nanotechnology(ICECCN-2013) at Tuticorin, Tamilnadu..(IEEE Xplore)	International	March 25th -26th ,2013
6	Hardware implementation of Detection of Age related macular degeneration from retinal images-	IEEE International Conference on control, computing ,communication and materials – ICCCCM 2013, at United Institute of Technology, Allahabad, INDIA.	International	August 3rd -4th , 2013
7	Detection of Age related macular degeneration using Open CV for image processing applications-	2nd International conference on Innovations in electronics and Communication engineering(ICIECE-2013) at GNIT, Hyderabad,AP, INDIA.	International	August 9th -10th ,2013,
8	Hardware implemntation of Detection of Glaucoma from retinal images	Third International Conference on Computational Intelligence and Information Technology CIIT 2013, Mumbai, India.	International	- October 18-19, 2013
9	Advanced Biomedical Instrumentation System For Rural Health Care Needs.	National Symposium on Instrumentation (NSI-33), ,Organized by AUCE &ISOI, At AUCE, Visakhapatnam	National	8th-10th December 2008
10	Lab VIEW Based Remote Patient Monitoring System National Conference-	Sixty years of Transistor &its impact, Organized by ATRI, at OU,Hyderabad.	National	23rd -24th October 2009.
11	Novel Telemedicine System for Rural Healthcare	-44th Mid Term Symposium on ICT in Space, Defense and Industrial applications, at Hyderabad.	National	21st -22nd April 2013
12	Detection of Glaucoma using open CV for image processing applications at 29th national convention of electronics and tele communications and	National seminar on Emerging Trends in Electronics and Telecommunications Engineering , at Hyderabad.	National	29th -30th October 2013
13	Image Processing for the Detection of Retinal Diseases - Diabetic Macular Edema,	IETE Zonal Seminar-cum-National Symposium Speech, Video & Image Processing & Applications, at IETE ,OU, Hyderabad	National	29th -30th March, 2014

14	Early detection of diabetic retinopathy from retinal fundus images using Eigen value analysis	IEEE International Conference on Control, Instrumentation, Communication and Computational Technologies, (ICCICCT-2015)", Kanya Kumari, Tamilnadu ,India.	International	18 th -19 th Dec2015
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5.9. Sponsored research Projects and Grants:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1.	Implementation of biomedical image processing on embedded hardware	UGC	2 years	3 lakhs	Completed
2.	Seminar Grant	AICTE	6 Months	1 Lakh	In progress

5. Awards / Honors received: Technical publications Reviewer for CIT Journals.
BoS member in the Board of EIE,ICE,BME at JNTUH.
Conference paper presentations co chair during IACC 2017.
1st Prize winner in Yoga on International Yoga Day, during 2016,2018.
6. Motto: To improve research environment in the department.