

Name :Dr.K.SudhaRani  
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 Department:EIE  
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Experience (in years): Teaching:14 Research: 5 Others :--

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D.	April,2018	Bio Medical Instrumentation
2	M.Tech	2005	Industrial Process Instrumentation
3	B.Tech	2001	EIE

2. Teaching and Learning:

2.1. Teaching Interests: Virtual Instrumentation, Image Processing, Bio Medical

2.2. Novel Teaching & Learning Techniques adopted: Pogil

2.3. Involvement in curriculum updating / Design:

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

3.2. CCA/ECA Organized: Member of Invitation Committee for Cultural and Annual Day

3.3. CCA/ECA participated:Convergence

3.4. Counseling and Mentoring Activity: Mentor

3.5. Committees involved in: Technical Committee member and Session manager for Video calls in IACC 2017

Department level:

IV B.TECH Technical Seminar Member,Show and Tell In-charge,Lab Protocol Incharge, EEEE LabIn charge,Department Bos Member.

Institute Level: IQAC Department Coordinator, Academic Committee Departmental in-charge

4. Conference / Workshop / Seminar / Guest Lectures:

- Conducted: Guest Lecturer on“Applications of Instrumentation &Control in Process Industry “, on 6<sup>th</sup> of February , 2017

Conducted : 1.Refresher course on Lab view 2.Organizd PCB Design and Fabrication Workshop on 5-1-2016 to 8-1-2016.

Conducted Guest Lecture on “Image Fusion techniques in Biomedical Applications” on 27<sup>th</sup> January 2016, for 4<sup>th</sup> B.Tech EIE,M.Tech students and faculty members

- Attended:

➤ Real Time Embedded system development conducted by ECE Dept, Nov 2013

➤ Research Methodology, JNTU Kakinada1-5-2014 To 15-5-2014

➤ Intellectual Property Rights, JNTU Kakinada,16-5-2014 To 30-5-2014

➤ Pogil Workshop, 7-12-2014 To 8-12-14

➤ 3D Printing,VNRVJIET, 19-3-2015 To 20-3-2015

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

Given invited talk on “ Medical Image Procssing” in Banasthali Vidyapith,Rajasthan on 01-04-2018.

5.2. Articles / Chapters published in Books:

5.3. Books published as single author or as editor:

5.4. Projects Guided:

a) UG:8 Mini Projects, 30+ Major projects

b) PG:7Mini Project, 6 Minor Projects

5.5. Research Interests: Bio Medical Instrumentation

5.6. Ph.D students:

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/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Discrete Cosine Transform in Image Compression Using Lab view 8.6	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875	1.686	International
2.	“Brain Tumor Detection Using Texture Characterisation and Classification Based on the Grey-Level Co-Occurrence Matrix”	International Journal of Electrical & Electronics Research (IJEER)	Volume 4, Issue 2, Pages 35-39, June 2016 ISSN:2347-470X	1.63	International
3.	Identification and Classification of Benign and Malignant Tumors in Brain using k-NN and NN intelligent algorithms	International Journal of Computer Science and Information Security (IJCSIS)	Vol. 14, No. 10, Oct-16, ISSN 1947-5500	0.519	International
4.	Histogram Related Threshold Technique for Region based Automatic Brain Tumor Detection	Indian Journal of Science and Technology	Volume - 9, Issue- 48, Pages 1-9	1.63	International
5.	3D Multimodal MRI Brain Tumor Segmentation:A Volume Rendering Approach	International Journal of Current Trends in Engineering & Research (IJCTER)e-ISSN 2455–1392	Volume 2 Issue 6, June 2016, pp. 290 – 294.	Impact Factor 3.468	International

6.	Face Recognition Office Security System Using Lab View 8.6	International Journal of Electronics, Communication & Instrumentation Engineering Research and Development (IJEIERD)	Volume 3, Issue 2, Pages 195-200	<b>6.7847</b>	International
7.	Text File Encryption Using FFT Technique In Lab View 8.6	International Journal of Research in Engineering and Technology(IJRET),	Vol. 1 Issue 1, Pg. 29-45.		International

**5.8. Papers presented at National / International Journals:**

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	A novel energy management system In sugar industry at co-generation plant	IEEE Proceedings	International	2014
2	“Advanced morphological technique for automatic brain tumor detection and evaluation of statistical parameters”	International Conference on Emerging Trends in Engineering, Science and Technology (ICETEST 2015)	International	December 18-20, 2015, Trichur, Kerala
3	“Extended Pillars K-Means Clustering for Automatic Brain Tumor Technique”	Recent Trends in Power, Control and Instrumentation Engineering, PCIE	International	December 26 <sup>th</sup> , 2015, Kerala.
4	“ Brain Stroke Detection using K-Nearest Neighbor and Minimum Mean Distance Technique”	“2015 International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT,	International	December 22 <sup>nd</sup> to 24 <sup>th</sup> , 2015, Kanyakumari Tamilnadu.

5	“Intelligent Brain Tumor Lesion Classification and Identification from MRI Images Using k-NN Technique”		International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT),	December 22 <sup>nd</sup> to 24 <sup>th</sup> , 2015, Kanyakumari, Tamilnadu.
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5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received: NIL

7. Motto: