

**Dr. Srinivasarao Udara**

Assistant Professor

Department of Electronics &amp; Communication

S.T.J Institute of Technology,

Ranebennur-581115.

**VISION:**

To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the computing and research field with cheer determination, dedication and hard work.

**EDUCATIONAL QUALIFICATIONS:**

1. Ph.D. in E&CE @ VTU, Belagavi-2015-2019.
2. MTech in Bio Medical Instrumentation @ SJCE-VTU, Mysore. 2003-2005.
3. B Tech in Electronics and Instrumentation @ AUCET-JNTU, Hyderabad. 1998-2002.
4. Bachelor of Science @ SKBR-Nagarjuna University, Guntur. 1996-1998.

**PROFESSIONAL DETAILS:****TOTAL EXPERIENCE AFTER M.TECH (16 YEARS)**

Name of the Institute/Organization	Place	Year
STJ Institute of Technology	Ranebennur	June 2006 To till Today (16 Years)
AIISH@ AIMH	Mysore	2005-2006
AUCET@ JNTU	Andhra Pradesh	2002-2003
Research	STJIT	2014-2019

**Received DISTNGUISHED SCIENTIST AWARD FROM (ELSEVIER SSRN-2020)**

**Reviewer for International journals:**

- 1. Advances in Science, Technology and Engineering Systems Journal (ASTESJ) USABASED SCOPUS JOURNAL.**
- 2. International journal of Materials Science and Applications (IJMSA) – USABASED SCOPUS JOURNAL.**
- 3. Seventh Sense Research Group (SSRG)-USA BASED SCOPUS JOURNALS**

#### ***B.Tech DETAILS:***

**Title of the Project: “Fire Sensing System”.** (Implemented at Host College, 2001-2002).

**Qualified Gate – 2002** (Rank-571)

**Subjects Studied:**

1. Digital Signal Processing
2. Signals And Systems and Control Systems
3. Biomedical Instrumentation
4. Analog Communication
5. Industrial Instrumentation
6. Database Management System
7. Linear ICs Applications.

#### ***M.Tech DETAILS:***

**Title of the Project: “Wireless Cross Hearing Aid for Deaf People”.** (Implemented @ AISHMysore - 2004-2005 With Stipend).

**Subjects Studied:**

1. Digital Signal Processing
2. Biomedical Signal Processing
3. Digital Image Processing
4. Speech Processing

### **Ph. D DETAILS:**

**Title Of the Project: "Increasing Selectivity and Sensitivity of MEMS / NEMS Based GasSensor for The Detection of Explosives in Humidity Conditions".**

#### **Course Work Details:**

1. Research Methodology
2. Sensors And Applications
3. Sensor For Ranging and Imaging
4. Biomedical Signal Processing **Year**

**of Registration:** 2015-2019.

**University** : VTU.

**Carried Out Work:** STJIT, IISC, IIT

**Submission** : 15-10-2017 (PhD defense conducted on 24-08-19)

**Research Area** : MEMS/NEMS Cantilevers, Nano Materials.

### **PROJECTS AND WORKSHOPS CONDUCTED (UNDER DST FUND):**

1. Ph.D. Research project sanctioned by DST in the year of 2015-2018 (Granted by DST 36 lakhs).
2. National workshop conducted on "Recent Trends in Nano Electro Mechanical Systems (NEMS) And Its Applications" was held from August 7<sup>th</sup> -8<sup>th</sup> -2015 (Granted by DST ONE lakh).
3. National workshop conducted on "Trends in Nano Electro Mechanical Systems (NEMS) Cantilever with Omni Can't and Intellisuite" was held from June 16<sup>th</sup> -17<sup>th</sup> -2016 (Granted by DST ONE lakh).
4. National workshop conducted on "Big Data and IOT Applications" was held from June 12<sup>th</sup> - 13<sup>th</sup> -2017 (Granted by DST ONE lakh).
5. International workshop conducted on recent trends in Engineering Technology and Science" from 12<sup>th</sup> and 13<sup>th</sup> August at S.T.J.I.T, Ranebennur (Organizing Committee Member).
- 6. Applied two Research proposals to VGST (WORKSHOP)..... (UNDER PROCESS- 2021)**
- 7. Applied one proposal to VGST (YOUNG SCIENTIST AWARD) ..... (UNDER PROCESS-2021)**

- 1) **Srinivasarao Udara**, Udara Yedukondalu, low power codec circuits for ultra-portable devices vol. 11, no. 7, April 2016 ISSN 1819-6608 ARPN Journal of Engineering and Applied Sciences ©2006-2016 Asian Research Publishing Network (ARPN). All rights reserved.
- 2) **Srinivasarao Udara** Harish H M, An Improvement of Energy Efficient and Extending Life Time of WMSN through Data Fusion Method International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-9, July 2019.
- 3) **Srinivasarao, Udara** Yedukondalu, A FinFET Based Adaptive Filter Design Using Evolutional Algorithm for Noise Suppression International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-8 June, 2019.
- 4) **Srinivasarao Udara**, Dr. P H S Tejo Murthy, "MEMS/NEMS Cantilever coated with Material and response with analyte for the Detection of Explosives in Humidity Conditions using Omni cant experimental analysis", International Journal Of Control Theory And Applications (IJCTA) ISSN (9-28) Vol.09, Volume: No.9 (2016) Issue No. :32 (2016) Pages: 329-333 November 2016.
- 5) **Srinivasarao Udara**, Dr. P H S Tejo Murthy, "Fabrication of MEMS/NEMS Cantilever Material Coating Systems for the Detection of Response and Analysis with Analytes Using Omni Cant", Advanced Science Letters. Adv. Sci. Lett. 24, 5508–5513 (2018).
- 6) **Srinivasarao Udara**, Lokesh D," Design and Fabrication of MEMS /NEMS based Piezoresistive Cantilever for improving Sensitivity and Selectivity of the detection of biomedical signals" International Journal for innovative Engineering and Management Research (IJIEMR) ISSN (2456-5083) Vol.08, Volume: No.8 (2019) Issue No. :09 (2019) Pages: 29-33 September-2019.
- 7) Pooja Krishnamurthy Revankar, Dr. H C Hadimani, **Dr. Srinivasarao Udara** "Low Power and Area Efficient 64-Bit Floating-Point Vedic Multiplier Design for High Speed

Operation In DSP Applications Using 90 Nm Technology", Waffen-Und Kostumkunde Journal ISSN (0042-9945) Vol. XI, Volume: No. IX (2020) Issue No.: II (2020) Pages: 58-68 February 2020- WEB OF SCIENCE.

- 8) A.V Subba Rao, Dr. H C Hadimani, **Dr. Srinivasarao Udara** "Implementation of DSL classifier for performance and evaluation of automatic cloth pattern and color detection for visually impaired people ", Waffen-Und Kostumkunde Journal ISSN (0042-9945) Vol. XI, Volume: No. IX (2020) Issue No.: II (2020) Pages: 58-68 August 2020- WEB OF SCIENCE.
- 9) A.V Subba Rao, Dr. H C Hadimani, **Dr. Srinivasarao Udara** "A Novel Approach for Recognizing Clothes Pattern and Colors for Blind People using DSL-CNN Classifier", International Journal of Future Generation Communication and Networking (IJFGCN) ISSN: 2233-7857 IJFGCN Vol. 13, No. 4, (Sept-2020), Pages:709-717- WEB OF SCIENCE.
- 10) A.V Subba Rao, Dr. H C Hadimani, **Dr. Srinivasarao Udara** "literature survey on recent trends in cloth pattern and classification for blind people using deep learning ", International Journal for Innovative Engineering and Management Research (IJIEMR) Vol 09 Issue03, Mar 2020 ISSN 2456 – 5083, Pages: 177 – 182-ELSEVIER SSRN.
- 11) A.V Subba Rao, Dr. H C Hadimani, **Dr. Srinivasarao Udara** "An Identification of Automatic Clothing Pattern and Color Recognition through Voice Recognition for Visually Impaired People", **Journal of Critical Reviews (JCR)** ISSN- 2394-5125 VOL 7, ISSUE 16, 2020 Pages: 2488-2493 July 2020- SCOPUS.
- 12) **Rajaramesh Desella**, Dr. H C Hadimani, **Dr. Srinivasarao Udara** "Recent Trends And Literature Review On Enhanced Video Compression By Using H.265/AVC Standard", International Journal for Innovative Engineering and Management Research (IJIEMR) Vol09 Issue03, Mar 2020 ISSN 2456 – 5083, Pages: 171– 176 -ELSEVIER SSRN.
- 13) **Rajaramesh Desella, Dr. H C Hadimani**, "Functional Verification of Enhanced Video Compression by Using H.265/HEVC Standard Using 45nm Technology", International

- 14) **Rajaramesh Desella, Dr. H C Hadimani**, "Optimization of Area and Power Analysis of Video Compression by using H.265/HEVC standard using 45nm Technology ", Solid State Technology, Vol 63, Issue 04, 2020, ISSN: 0038-111X, Pages: 8655-8660, Dec 2020- SCOPUS.
- 15) **Rajaramesh Desella, Dr. H C Hadimani**, "Implementation and Development of High Accuracy H.265/HEVC Standard Using 45nm Technology", European Journal ofMolecular & Clinical Medicine (EJMCM), Vol. 7, Issue-11, Dec 2020, ISSN 2515-8260 Pages: 5787-5792- SCOPUS.

#### **LIST OF UGC JOURNALS-06:**

1. **Srinivasarao Udara, Dr. P H S Tejo Murthy**, "Characterization of Polyvinylpyrrolidone material coated Piezoresistive MEMS/ NEMS cantilever analysis and experimentation using OmniCant for high Sensitivity and selectivity", International Seminar on Materials Science and Technology, International Research Journal of Engineering and Technology (IRJET) e- ISSN: 2395-0056 Volume: 04 Special Issue: 09 | Sep -2017 www.irjet.net p-ISSN: 2395- 0072Tamilnadu, India (IRJET).
2. **Srinivasarao Udara, Dr. P H S Tejo Murthy**, "Design and Fabrication of MEMS/NEMS Cantilever material coating (3-APTES) with Analytes Analysis Response Using OmniCant Experimentation "International Journal of Engineering and Manufacturing Science. ISSN 2249-3115 Volume 8, Number 1 (2018) pp. 151-157 © Research India Publications <http://www.ripublication.com>,(IJEER).
3. **Srinivasarao. Udara, Dr. H C Hadimani** "Characterization of Polyvinylpyrrolidone Material coated Piezoresistive MEMS/ NEMS cantilever analysis and experimentation using OmniCant for high sensitivity and selectivity" e-ISSN: 2395-0056. P: 2395-0072 (IRJET)

4. **Srinivasarao Udara**, Dr. Hadimani H C, "Fabrication of Piezoresistive MEMS/NEMS nano Material coated cantilever and their resistance response based on analytes OmniCant Experimentation" (IJIEER ).
5. **Srinivasarao Udara**, Dr. P H S Tejo Murthy," Fabrication and Characterization of NEMS based Piezoresistive Cantilever using Ominicant Experimentation" Volume 3 Issue 4 International Journal of IEEE www.ijiee.com e-ISSN: 2321-0621 p-ISSN: 2321-063X.
6. **Srinivasarao Udara**, Hadimani H C Fabrication of MEMS/NEMS Cantilever material coating (6-MNA) with Analytes Real Time Analysis Resistance Response Using Omnicant Experimentation" International journal for innovative engineering and management research" (IJIEMR) Volume 07, Issue 06, Pages: 23 – 32.
7. **Srinivasarao Udara**, Harish H M" Security Enhancement in Wireless Sensor Network using Artificial Neural Network" International Journal of Scientific Research and Review Volume 8, Issue 6, 2019 ISSN NO: 2279-543X Volume 8, Issue 6, 2019 Page No: 1035.
8. **Srinivasarao Udara**, Pooja Revankar "Implementation of novel hierarchical routing protocol techniques energy efficient in wireless sensor network" for" International journal for innovative engineering and management research" (IJIEMR) Volume 07, Issue 05, Pages: 42 – 48.
9. **Srinivasarao Udara**, A V Subbarao Dr H C Hadimani" Implementation of machine learning based pattern recognition for blind people" journal of Engineering Science Volume 11, Issue 1, 2020 ISSN NO: 0377-9254, Page No: 220-223.

<b>RESEARCH WORK HIGHLIGHTS: (2015-2018)</b>	
<b>Sl. No.</b>	<b>HIGHLIGHTS</b>
1	Sponsored by D.S.T (Department of science and Technology <b>(36 Lakhs Granted)</b> Guide awarded as <b>YOUNG SCIENTIST</b> .
2	Two national workshops conducted on proposed current research work ( <b>sponsored by D.S.T 2 Lakhs Granted</b> ).
3	Fabrication carried out at <b>I.I.S.C Bangalore</b> Hands on Training <b>Attended(15days)</b> .

4	Characterization of the materials using LDV, SEM done at <b>I.I.S.C Bangalore (oneweek)</b> .
5	Part of the fabrication done at <b>Mumbai</b> with material coating done for various materials <b>(one month)</b> .
6	Characterization of the various materials using Omni Cant Experimental investigations done at S.T.J.I.T Ranebennur <b>(three months)</b> .
7	Final testing of various explosives done at <b>Nano Sniff Technologies I.I.T ResearchPark center... (one weeks)</b> .
8	Attended Conferences at, <b>I.I.T, I.I.S.C, Deemed universities level total:13</b> .
9	Two Free <b>SCOPUS</b> Journals published with good Impact factor and one more journal <b>under review (approved by U.G.C)</b> .
10	<b>Elsevier proceeding, IEEE EXPLORE, ISSS, IRJET Carme light</b> with good Impact factor journals are published.
11	One <b>ELSEVIER</b> paper and <b>S.C.I</b> paper under review.

#### **CONFERENCES ATTENDED (2015-2018):**

- 1) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy “Fabrication and characterization of Piezoresistive Cantilever using OmniCant Experimentation”, International Journal of **IEEE**, Institute of Smart Structures and Systems, AP Chapter, Department of Instrumentation Technology, Volume 3, Issue 3, Dec 8<sup>th</sup>, and 10<sup>th</sup> 2015.
- 2) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy “Fabrication and Characterization of NEMS based Piezoresistive Cantilever for the detection of change in resistance with time at different experimental conditions using OmniCant” Conference on Emerging Trends in Engineering, Technology and Science, International Sponsored by **IEEE** Computational Intelligence Society Madras Chapter, Dec 19<sup>th</sup> and 20<sup>th</sup> 2015.
- 3) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy “Increasing sensitivity and selectivity of Nano Electro Mechanical System based cantilever based on materials and analytes using OmniCant experimental set up”, National Conference of Emerging Engineering Technologies, Belgaum (**E.E.T-2016**), Energy, Environment, February 5<sup>th</sup> and 6<sup>th</sup> 2016.



- 4) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy “Characterization of Piezoresistive Cantilever using Omnicant Experimentation”, International Conference of Nano science and **Technology (ICONSAT-2016)**, Indian Institute of Science Education and Research (IISER), Pune, from February 28<sup>th</sup> to March 2<sup>nd</sup> 2016.
- 5) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy “Characterization of MEMS/NEMS based Piezoresistive cantilever using OmniCant experimentation”, National Conference on Nano Science (**N.S-2016**), Department of Electronics, Carmelite. 12(1): 144-155, 2016, February 10<sup>th</sup> to 11<sup>nd</sup> 2016.
- 6) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy “Fabrication and Characterization Of MEMS/NEMS Based Piezoresistive Cantilever for The Detection Of Change In Resistance With Time At Different Experimental Conditions Using OmniCant”, International Conference on Nano Technologies (**IC NANO-2016**), Energy, Environment, Health, and Agriculture April 21<sup>st</sup> to 23<sup>rd</sup> 2016.
- 7) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy “Fabrication and characterization of Piezoresistive MEMS/NEMS cantilever analysis and experimentation using Omnicant for high Sensitivity and selectivity”, International Conference on Emerging Materials (CEMAT- 2016), materials, devices, July 18<sup>th</sup> and 19<sup>th</sup> 2016.
- 8) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy “Design and Fabrication of MEMS/NEMS Cantilever with Analytes Analysis Response Using OmniCant Experimentation”, International Conference on Recent Trends in Engineering, Technology and Science (ICRETS-2016), August 12<sup>th</sup> and 13<sup>th</sup> 2016.
- 9) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy, “MEMS/NEMS Cantilever coated with Material and response with analyte for the Detection of Explosives in Humidity Conditions using OmniCant experimental analysis”, International Conference on New Trends in Multidisciplinary and Practice (NTMRP-2016) October 7<sup>th</sup> and 8<sup>th</sup> 2016.
- 10) **Srinivasarao. Udara**, Dr. P H S Tejo Murthy “Fabrication of MEMS/NEMS Cantilever material coating Systems for the Detection of Response and Analysis with Analytes Using OmniCant Experimentation”, International Conference on Nano Science and Nano Technology (ICNAN-2016), October 19<sup>th</sup> to 21<sup>st</sup> 2016.

- 11) **Srinivasarao. Udara, Dr. P H S Tejo Murthy** “Fabrication of MEMS/NEMS Cantilever material coating(6-MNA) with analytes real time analysis resistance response using OmniCant Experimentation”, International Conference on recent advances in material chemistry (ICRAMC-2017-SRM University Chennai), Feb 15<sup>th</sup> to 17<sup>th</sup> 2017.
- 12) **Srinivasarao. Udara, Dr. P H S Tejo Murthy** “Increasing sensitivity and selectivity of Nano electro Mechanical system based Cantilever based on materials and analytes using OmniCant experimental setup” National Conference on Emerging Engineering Technologies (E.E.T-2016), Feb 5<sup>th</sup> to 6<sup>th</sup> 2016.
- 13) **Srinivasarao. Udara, Dr. P H S Tejo Murthy**” Study of piezoresistive NEMS Cantilever and their response based on their volatile organic compounds and gases using OmniCant experimentation” (ICONSAT-2016-pune), Jan 27-01-2016.
- 14) **Srinivasarao. Udara, Dr. P H S Tejo Murthy** “Design and Fabrication of MEMS/NEMS Cantilever material coating with Analytes Analysis Response Using OmniCant Experimentation 3<sup>rd</sup> International Conference on Emerging Electronics 27<sup>th</sup> – 30<sup>th</sup> December2016.
- 15) **Srinivasarao. Udara, Dr. P H S Tejo Murthy** “Fabrication of MEMS/NEMS Cantilevers with different material coatings analysis and response using OmniCant experimentation” International Conference on functioning materials 7<sup>th</sup> – 10<sup>th</sup> Sept 2016.
- 16) **Srinivasarao. Udara, Dr. H C Hadimani** “Characterization of Polyvinylpyrrolidone material coated Piezoresistive MEMS/ NEMS cantilever analysis and experimentation using OmniCant for high sensitivity and selectivity” International seminar on Material Science and Technology (IMST-Kodaikanal) 4th August 2017.
- 17) **Srinivasarao. Udara, Dr. H C Hadimani** “Fabrication of Piezoresistive MEMS/NEMS Nano Material Coated Cantilever and their resistance response based on analytes OmniCant experimentation” National conference on Recent advances in Electronics and Communication (BIET-Davangere) 13<sup>th</sup> October 2017.
- 18) **Srinivasarao. Udara, Dr. H C Hadimani** “sensitivity and selectivity enhancement of fabricated MEMS/NEMS Cantilever by coating of Polyvinylpyrrolidone” International

Conference on Advanced Materials for Technological Applications (PGSR- Coimbatore)3rd to 5<sup>th</sup> Jan-2018.

- 19) **Srinivasarao. Udara, Dr. H C Hadimani** “**Fabrication** of MEMS/NEMS Cantilever material coating (6-MNA) with analytes Real time analysis resistance response using OmniCant experimentation” International conference march 22<sup>nd</sup> to 24<sup>th</sup> at Hyderabad.

**PAPERS / PUBLICATIONS OF THE RESEARCH WORK (2015-2019):**

- 1) **Srinivasarao Udara, Dr. P H S Tejo Murthy**, “Fabrication and characterization of Piezoresistive Cantilever using Omnicant Experimentation”, International Journal of **IEEE**, Institute of Smart Structures and Systems, AP Chapter, Department of Instrumentation Technology, Volume 3, Issue 3, Dec 8<sup>th</sup>, and 10<sup>th</sup> 2015(**online available**).
- 2) **Srinivasarao Udara, Dr. P H S Tejo Murthy**, “Fabrication and Characterization of MEMS/NEMS Based Piezoresistive Cantilever for the Detection of Change in Resistance with Time at Different Experimental Conditions Using OmniCant”, **Materials Today Elsevier journal online available**).
- 3) **Srinivasarao Udara, Dr. P H S Tejo Murthy**, “Fabrication and characterization of NEMS based piezoresistive cantilever for the detection of change in resistance with time at different experimental conditions using Omnicant”, IEEE Explore-Digital library ISBN: 978-1-4673- 6725-7 Vol.09, Volume: No.13 (2016) Pages: 1-5 October 2016 (**IEEE-EXPLORE-onlineavailable**).
- 4) **Srinivasarao Udara, Dr. P H S Tejo Murthy**, “Characterization of MEMS/NEMS based Piezoresistive Cantilever Using OmniCant Experimentation”, *Carmelight*. 12(1): 144-155, 2016-**online available**.
- 5) **Srinivasarao Udara, Dr. P H S Tejo Murthy**, “Fabrication and characterization of Piezoresistive MEMS/ NEMS cantilever analysis and experimentation using OmniCant for high Sensitivity and selectivity “, 5th Nano Today conference (**Materials Today-Elsevier**) **Submitted and accepted**.

- 6) **Srinivasarao Udara**, Dr. Hadimani H C, “Sensitivity and selectivity enhancement of MEMS/NEMS Cantilever by coating of Polyvinylpyrrolidone “, **(Springer-Journal) Revised& re-submitted.**
- 7) **Srinivasarao Udara**, Dr. Hadimani H C,“Fabrication of Piezoresistive MEMS/NEMS nano Material coated cantilever and their resistance response based on analytes OmniCant Experimentation” **(IJEER –UGC APPROVED JOURNAL) submitted and accepted (online available).**
- 8) **Srinivasarao. Udara, Dr. Hadimani H C** “sensitivity and selectivity enhancement of Fabricated MEMS/NEMS Cantilever by coating of Polyvinylpyrrolidone” **ACCEPTED 18(2019) pages-1610-1619 (MATERIALS TODAY- ELSEVIER JOURNAL) online available).**
- 9) **Srinivasarao Udara**, Dr. P H S Tejo Murthy, “Experimentation and Characterization of A MEMS/NEMS Integrated Coated Cantilever Surface for Explosive Detection **Applications “**, **(MEMS-S.C. I journal) Revised & re-submitted.**

**ACADEMIC JOURNAL PUBLICATIONS (2012-2018)**

<b>SI No.</b>	<b>Title of Paper International Journals:</b>	<b>Name of the Journal</b>	<b>Year, Issue No, Month</b>
<b>1.</b>	An Enhanced Approach for Providing EES in Bluetooth Network	IJST	Vol 2 Issue 4 April, 2014 PP 223-227
<b>2.</b>	Implementation of novel hierarchical routing Protocol techniques for energy efficient in Wireless sensor network	IJIEMR	Vol 07 Issue 05 May 2018 ISSN 2456 - 5083 PP 42-48
<b>3.</b>	Fabrication of Piezoresistive MEMS/NEMS Nano Material Coated Cantilever and Their Resistance Response Based on Analytes Using OmniCant Experimentation	IJEMS	ISSN 2249-3115 Volume 8, Number 1 (2018) pp. 151-157
<b>4</b>	Health Monitoring System Using IOT	IJEMS	ISSN2249-3115 Volume 8, Number 1 (2018) pp. 177-182

5	Communication Speed Boosting for TV White Space	IJSRT	Vol. 4, Issue 10, 2016   ISSN (online): 2321-0613
6	Low Power Codec Circuits for Ultra-Portable Devices	ARNP	Vol. 11, no. 7, April 2016 ISSN 1819-6608
7	Design and Development of Text-independent Speaker Identification System	IJASCSA	Volume 2, Issue 3, 2013-PP-07-14
8	Design and implementation of efficient low-power and compact codec system for portable devices	IEEE EXPLORE	ISBN: 978-1-4673-6725-7 Vol.09, Volume: No.13 (2016) Pages: 1-5 October 2016
9	Error tolerant adder	IJST	ISSN2249-3115 Volume 8, Number 1 (2014) pp. 17-22
10	A Dynamic Resources Allocation by Data Migration within Cloud Resources by Gossip Protocol in Cloud Environments	IJIRCCE	ISSN(Online): 2320-9801 ISSN (Print): 2320-9798 Vol. 2, Issue 5, May 2014
11	Detection and Localization of Text from Natural Images with Hybrid Method	IJST	Vol 2 Issue 4 April, 2014 ISSN 2321 –919X
12	Static Characterization of DAC	ICCTEM	Page No: 297-301, ISBN 978-93-5051-905-9, 12-14th July2012.

#### WORKSHOPS ATTENDED (2020-ONLINE WORKSHOPS-COVID)

1. Ten days workshop on “VLSI design tools techniques and Applications” @NationalInstitute of Technology, Warangal from August 10<sup>th</sup> to 19<sup>th</sup> -2020.
2. Seven days’ workshop on “ASIC physical design and Verification” @ EntupleTechnologies, Bangalore from April 27<sup>th</sup> to 2<sup>nd</sup> -2020.

3. Seven days' workshop on "ASIC synthesis and Static Timing Analysis "@ Entuple Technologies, Bangalore from April 27<sup>th</sup> to 2<sup>nd</sup> -2020.
4. Two days' workshop on "Trends in VLSI design & Cloud computing "@ Entuple Technologies, Bangalore from July 3<sup>rd</sup> to 4<sup>th</sup> -2020.
5. Two days' workshop on "System Design using Verilog HDL "@ Entuple Technologies, Bangalore from May 18<sup>th</sup> to 20<sup>th</sup> -2020.
6. One day workshop on "Entrepreneurship "@RGCMS, Mumbai from May 15<sup>th</sup> - 2020.
7. Five days' workshop on "Trends in Electronics and Communication Engineering "@ Sri Vasavi Engineering college, Tadepalligudem from May 22<sup>nd</sup> to 26<sup>th</sup> -2020.
8. Three days' workshop on "Research Methodology "@ LTCE, Mumbai from June 20<sup>th</sup> to 22<sup>nd</sup> - 2020.
9. Six days workshop on "Signal processing Techniques for advanced Wireless Communication "@ JITS, Warangal from August 24<sup>th</sup> to 29<sup>th</sup> -2020.
10. Seven days' workshop on "NAAC Awareness program for Faculty "@ MMIT, Warangal from May 8<sup>th</sup> to 14<sup>th</sup> -2020.
11. Fifteen days' workshop on "CISO routing and switching" @ MMIT, Bangalore from April 1<sup>st</sup> to 15<sup>th</sup> -2020.
12. Two days' workshop on "International Webinar on Video editing "@STJ University, Nagaland from September 10<sup>th</sup> to 11<sup>th</sup> -2020.
13. Five days' workshop on "Research Challenges and Opportunities "@ Sri Vasavi Engineering College, Tadepalligudem from May 4<sup>th</sup> to 9<sup>th</sup> -2020.
14. Five days' workshop on "Cognitive Radio-Wireless Sensor Networks Applications, Challenges and Research Trends "@Vivekananda College of Engineering for Women Tamil Nadu from July 4<sup>th</sup> to 9<sup>th</sup> -2020.
15. Five days' workshop on "Emerging Trends & Technologies in Data Science, Challenges and Research Trends "@GMR Institute of Technology Rajam from August 24<sup>th</sup> to 29<sup>th</sup> - 2020.
16. Five days' workshop on "E-Content Development "@ACCAS Coimbatore from June 22<sup>nd</sup> to 26<sup>th</sup> - 2020.
17. Two days' workshop on "Open-Source Online Tools and Software for Online Teaching "@Sri Vasavi Engineering College, Tadepalligudem from May 18<sup>th</sup> to 19<sup>th</sup> -2020.

18. Two days' workshop on "NBA-OBE: Attainment of Course Outcomes (COs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) "@Bharat Institute of Engineering and Technology, Ibrahimpatnam, Hyderabad from July 4<sup>th</sup> to 5<sup>th</sup> -2020.
19. One day workshop attended on Research Methodology-5, communication-2, other areas-08.

#### **WORKSHOPS ATTENDED:**

1. Two days' workshop on "Faculty development programme" @STJIT, Ranebennur from April 7<sup>th</sup> to 8<sup>th</sup>-2007.
2. Thirteen days workshop on "Mixed Signal VLSI Design" @AEC, Hyderabad from June 18<sup>th</sup> to 30<sup>th</sup> - 2007.
3. Two days' workshop on "P-SPECE, VHDL/VERILOG@JNNCE, Shimoga from October 5<sup>th</sup> to 6<sup>th</sup> -2007.
4. Two days' workshop on "artificial neural networks and its applications" @STJIT, Ranebennur from September 17<sup>th</sup> to 18<sup>th</sup> -2010.
5. Two days' workshop on" VLSI Design Verification" @RITM, Bangalore from July 29<sup>th</sup> to 30<sup>th</sup> -2010.
6. Three days' workshop on" Introduction to VLSI Design using CADENCE Tool" @BVBCET, Hubli from August 1<sup>th</sup> to 3<sup>rd</sup> -2013.
7. One day workshop on "LATEX for Documentation@ GMIT Davangere on November 9<sup>th</sup> -2013.
8. Ten days workshop on" Signals and Systems @AITM, Belagavi from January 2<sup>nd</sup> to 12<sup>th</sup> -2014.
9. One day workshop on "Architecture to silicon to systems" @ Entuple, Bangalore December 6<sup>th</sup> - 2016.
10. Three days' workshop Open-source network experimentation @NIT, Suratkal from June 6<sup>th</sup> to 8<sup>th</sup> - 2016.
11. One day workshop on "ISRO Satellite Remote sensing based societal applications on the Web march 11<sup>th</sup> -2017.
- 12.
13. Five days short term course on "Operation Research Principles and Methodology at IIT Varanasi from 30-12-2019 to 3-01-2020.

### ***JOURNAL INFORMATION:***

1. Scopus -12 (Free)
2. Web of Science-04
3. IEEE Explore-02 (Free)
4. Elsevier Proceedings-03 (Free)
5. UGC Journals-18 (academic and research work Free)
6. Local Journals-10 (Free)
7. Elsevier SSRN-04

### ***SUBJECTS TAUGHT @B. E:***

1. Optical Fiber Communication.
2. Computer Communication Network.
3. Microwave Communication.
4. Analog Communication.
5. Digital Communication.
6. Digital Image Processing.
7. Biomedical Signal Processing.
8. Hardware Description Language.
9. Analog Electronic Circuits.
10. Management and Entrepreneurship.
11. Fundamentals of CMOS VLSI.
12. Analog and Mixed Mode VLSI.
13. Digital Switching Systems.
14. Internet Engineering
15. Electronics and Instrumentation
16. Power Electronics

### ***LABS HANDLED @BE:***

1. Hardware Description Language.
2. VLSI Lab.
3. LIC Lab.
4. CCN Lab.
5. Matlab.



## 6. Analog Electronics Circuits Lab.

### *SUBJECTS TAUGHT @M. Tech:*

1. Advanced Digital Communication.
2. Protocol Engineering.
3. Digital Image Processing.
4. RF And Microwave Circuits.
5. Error Control Coding.
6. Wireless Sensor Networks

### *PROJECTS HANDLED @ B. E & M. TECH:*

1. Number of Projects Guided for BE : **40.**
2. Number of Projects Guided for M. Tech: **25.**
3. Consultancy Projects Completed : **25.**

### *TEACHING ACHIVEMENTS:*

1. I got 100% results in the year of 2006 (Electronics and Instrumentation)
2. I got two times 100% results in the year of 2009 and 2010 (Optical Fiber Communication)
3. I got one time 100% results in the year of 2011 (Hardware description language).

### *INTERESTED RESEARCH AREAS:*

1. VLSI
2. MEMS/NEMS
3. Image Processing using Mat lab.
4. Wireless Sensor Network.

### *TECHNICAL PROFICIENCY:*

1. MEMS/NEMS real time Fabrication and experience on Intellisuite tool.
2. VLSI Cadence Tool Worked On 180nm, 90nm, 45nm, Technology (Simulation, Synthesis, Digital Implementation, **Physical Verification** Using Genus, Innovus).
3. CPLD, FPGA, Altium Nano Board.
4. Xilinx Tool 14.1 Version.
5. Tanner Tool.
6. CCN Lab Using Nctuns.

#### **DEPARTMENT RESPONSIBILITIES:**

1. Staff Coordinator.
2. PG Coordinator.
3. Placement Coordinator.
4. Test Coordinator.
5. Time Table Coordinator.
6. Lab In charge Coordinator.
7. Class Monitoring Coordinator.
8. In charge Head of the Department.
9. NBA college level coordinator for (**TWO CRITERIONS**)

#### **FUTURE ACTIVITIES AND PLANS FOR THE INSTITUTE:**

1. To conduct workshops and conferences on present technology.
2. To write Research proposals schemes to DST, VGST Funding organizations.
3. To establish CADENCE training center for the students to place in various industries.
4. To conduct motivation classes for the students (how to get success in the life).
5. To give fabrication Hands on training on MEMS technology to the students at IISCBangalore.

#### **MEMBERSHIP DETAILS:**

- |           |                  |
|-----------|------------------|
| 1. IAENG: | : 136593.        |
| 2. MISTE: | : LM-121034.     |
| 3. ISRD   | : M4150906102.   |
| 4. IRED   | : AM101000582180 |