Profile

Matam Munisankar Sri Padmavati Mahila Visva Vidyalayam
Assistant Professor Tirupati – 517502
Department of ECE Email:munisankar404@gmail.com
School of Engineering and Technology Contact: +91 9949843729

Academic Qualifications

Class	Board/University	Year of Passing	Specialization/Area
Master	Sree Vidyanikethan Engineering College, Tirupati, JNTU Anantapur	2009-11	Digital Electronics & Communication Systems
Bachelor	Sri Kalahasteeswra Institute of Technology, Chittoor, JNTU Hyderabad	2005-08	Electronics & Communication Engineering
Diploma	S.V.Govt.Polytechnic,Tirupati, S.B.T.E.T, A.P	2001-04	Electronics and Communication Engineering
S.S.C	Chandragiri Govt.High school, Chandragiri	2001	

Total Teaching Experience: 9Years

Organization	Position	From	To	No. of Years
Sri Padmavati MahilaVisvavidyalayam, School of Engineering and Technology	Assistant Professor	June-2014	Till Date	6Years
Siddharth Institute of	Assistant Professor	June-2012	June-2014	2 Year

Engineering & Technology,Puttur				
Takeoff Group, Tirupati	Team Leader (Embedded System and Image Processing)	January-2011	May-2012	1year 5months

List of Subjects Taught: Microprocessors & Microcontrollers, Digital Image Processing, Analog Communication, Digital Communication, Embedded systems , Radar Engineering, Pulse and Digital Circuits**,** Digital Signal Processing

Areas of Research Interest:

- **Digital Image Processing**

Projects applied/sanctioned/ongoing:

S. No.	Project Title	Applied to (Funding Agency)	Applied on Month and Year	Estimated Cost (Rs)	Status
1.	Mosquito repeller circuit using IOT for biomedical applications	Hapikey, Hyderabad	January-2020	20,000	Running

Number of PG Projects Guided   : 11

Number of UG Projects Guided   :23

Books published:2

S.No.	Name of the Authors	Title of the Book	Publisher Name	ISBN/ISSN	National/ International	Year of Publication
1.	M.Munisankar, Dr.G.Suresh Babu	An Approach for Device Localization Using Audio Fingerprinting Based on Hierarchical Cluster Analysis	Lap-lambert, Germany	978-3-330-03303-0	International	2017

2.	M.Munisankar, Dr.S.A.K.Jilani	Human Activity Recognition System using Accelerometer and Zigbee	Lap-lambert, Germany	978-3-659-28592-9	International	2012

Faculty Research Publications:

Year	Papers Published in International Journals	Papers Published in National Journals	Total	International Conference Publications	National Conference Publications	Total
Upto Feb 2020	13	3	**16**	3	3	**6**

List of Publications in International Journals:

1. Hermite Cut-OQAM Algorithm Based FBMC System (IJAEMA and Volume XII, Issue I, January,2020 ISSN NO: 0886-9367)
2. Accomplishment of HARQ-IR for Energy scavenging wireless sensor networks **(IEEE Xplore Compliant Part Number:CFP18N67-ART; ISBN:978-1-5386-2456-2,Febrauary 2019)**
3. A Novel Improved Fingerprint Recognition Using Minutiae Matching And Gabor Filter For Person Identification(IJSSR,ISSN NO: 2279-543X,Vol.7,Issue 8,September 2018)
4. The Role of ICT in Education: New Challenges in Teaching Physics and Possible Solutions Through Simulation Softwares(IJRAR, October 2018, Volume 5, Issue 4)
5. Improvement of Fog Removal in Video Utilizing Guided Filter (ISSN 2319-8753, Vol. 6, Issue 8, August 2017)
6. Enhancement of Fog Degraded Video Sequences utilizing Guided Filter(IJSETR, ISSN NO: 2319-8885 Vol.06,Issue 26,August-2017)
7. Wi-Fi Based Remotely Operated Smart Home Automated System using the Concept of Internet of Things (ISSN: 2454-356X, Volume.3,Special Issue.1,March 2017)
8. Diagnosis of Phyto Pathology in Pomegranate Plant Diseases using Fuzzy-C-Means Algorithm (ISSN 2278-2540,Volume V, Issue X, October 2016)
9. Device Position Estimation Based on Acoustic Energy Distribution on Clustering Technique (ISSN:2455-1651,Volume 2, Issue 5,Sep-Oct 2016)
10. Efficient Quality Analysis of MRI Images Using Pre-Processing Techniques (ISSN 2348-697X,Vol. 3, Issue 3,July-Sep 2015)

11. A New Efficient Algorithm for Removal of High Density Salt and Pepper Noise Using Modified DBUF Median Filter for Video Restoration (ISSN: 2320-9801, Vol. 3, Issue 5, May 2015)

12. Comparison of Automatic Image Contrast Enhancement Using Gaussian Mixture Model and Global Histogram Equalization (ISSN: 2347-8578 ,Volume 2, Issue 5, Sep-Oct 2014)

13. White Spot Syndrome Virus Detection in Shrimp Images using Image Segmentation Techniques (ISSN: 2277 128X, Volume 3, Issue 9, September 2013)

14. New BEC Design For Efficient Multiplier (ISSN:2230-8547; e-ISSN: 2230-8555 , Vol 04, Special Issue01; 2013)

15. Four Quadrant Chopper Control of DC Motor using AT89S52 Microcontroller (ISBN: 978-93-81583-72-2,Sep 2012)

16. CT Scan Reconstruction from Back Scattering Images for Maximum Convergence (ISSN: 2278-4721, Vol. 1, Issue 2 , Sept 2012)

17. Transportation Mode Recognition with Zigbee Using Accelerometer (ISSN 2250-2459, Volume 2, Issue 5, May 2012)

List of Publications in International/National Conferences:

1. Presented a Paper in International conference titled as "Home Automation Through Android App From Any Smart phone Using ARDUINO and Wi-Fi", IAEIT-2017 in SPMVV, Tirupati on 1-2 Febraury,2017

2. Presented a Paper in International conference titled as "Study on Microcalcifications Detection in Mammograms using DFT and DWT", ICCMBM16 in SPMVV, Tirupati on 25 – 26th March, 2016.

3. Presented a paper titled "Automatic Detection of Diabetic Mellitus Using Image segmentation", NCACT-2K15 in AITS, Tirupati on 18th April -2015.

4. Presented a paper titled as "New BEC design for Efficient multiplier",CSEA-2012,SPMVV,Tirupati on 9-10th November-2012.

5. Presented a paper titled as "Four Quadrant Chopper Control of DC Motor using AT89S52 Microcontroller" NCES-12, AITS , Rajampet on 7th and 8th September 2012.

6. Presented a paper titled as "Transportation mode recognition with zigbee using accelerometer" AICTE&DRDO, CMR College of engineering and technology, Hyderabad on 8th – 10th July 2011.

As a resource person in various events (Conferences – session chair/Seminars/Workshops/FDPs/Training Programs/Guest Lectures…)

S.No.	Name of the Event	Organized by	Date	Number of Days
1	Embedded System Design Using 8051 & Arduino	**Siddharth Institute of Science & Technology,Puttur**	17th &18th April, 2017	2

Faculty Development Programs: International-01, National-18

International:

1. **Participated in Applied Robotics Control Lab at APS GmbH-European Centre for Mechatronics, Aachen/Germany from 16th May 2019 to 24th May 2019.**

National:

1. Participated in Applied Robotics Control Lab Faculty development program 2.0 from 5th August 2019 to 12th August 2019 Conducted by APS GmbH-European Centre for Mechatronics, Germany at VIT-AP , Amaravathi

2. Signal Processing and Applications organized by S.V University College of Engineering , S.V.University, Tirupati from 27th July to 28th July 2019.

3. Short term course on NBA Accreditation organized by NITTR, Kolkata from 22-04-2019 to 26-04-2019

4. Short term course on "Enabling Technologies to aid Smart City Framework organized by Pondicherry Engineering College, Puducherry from 6th February to 10th February 2017.

5. Two day training program on Life Skills Education in Sri Padmavati Mahila Visva Vidyalayam , Tirupati from 28th &29th March 2016.

6. Participated two week program on Nanotechnology & MEMS in SVCET, Chittoor during 18th -30th May 2015.

7. Participated in On Campus Programme on Consulting Skills Development for Academicians held on 27th April 2015 organized by Sri Padmavati Mahila Visva Vidyalayam , Tirupati.

8. NIDAYS 2014-11th Annual conference, NI India, Nimhans Convention Center,Bangalore,18th September 2014

9. Embedded Systems, SVEC, A.Rangampet, Tirupati,10-11 October 2014.

10. 2014 IEEE Global Early Career Faculty virtual mini-conference: Effective teaching,12th December 2014.

11. Two-week STTP workshop on Design of Algorithms , IIT Kharagpur , May 2015

12. Electromagnetic Field Theory & transmission lines, SVEC, A.Rangampet, Tirupati, from 21st -22nd February 2014

13. Matlab & Simulink for engineering education –Mathworks India,Tirupati,Feb 2014

14. Two-week ISTE workshop on Analog electronics –IIT Kharagpur, June 2013

15. Empowering faculty on life skills , SVEC, A.Rangampet, Tirupati, April 2013

16. NPTEL awareness Program, MITS , Madana palli, Feb 2013

17. Research Methodologies-SIET, Puttur, 9th Nov-2012

18. Embedded systems and its applications- JNTU-Anantapur ,Oct-2012

Administrative Experience

- University SPOC for Smart India Hackathon-2020
- Worked as examination in-charge in School of Engineering & Technology from June 2016 to September 2017.

Honors & Awards

- Qualified in CBSE-NET exam during the year 2014.
- Secured 1st rank in SVUCET-2008.
- Completed 4 NPTEL online courses.
- Completed 5 IIRS online Courses on Remote sensing and GIS.

Other Contributions

- Appointed as Judge for "Jawaharlal Nehru National Science, Mathematics and Environment Exhibition(JNNSMEE)- District level Project Exhibition for High School Children's conducted on 16-12-2019 to 17-12-2019 December, 2019 at Tirupati, conducted by Director State Council of Education Research and training , A.P
- Appointed as Adjudicator for "Inspire Award scheme-District level Exhibition cum Project competitions -2018-2019 on 28-30, January, 2019 at Tirupati, conducted by DST, Govt.of.India.
- Judge in Technical events in VIRINCHI-2K19,2K18,2K17(3Years) at School of Engineering & Technology, Sri Padmavati Mahila Visva Vidyalayam, Tirupati.
- Mentor at "Anveshana", Science and Engineering fair in January 2018 at Hyderabad.
- Mentor at Smart India Hackathon conducted by MHRD & AICTE in April 2017 at Nagpur
- Member in Transportation Committee in the PADMOSTAV, 34th Inter University South Zone Youth Festival hosted by c during 7th -11th October, 2018.

- Member in Quiz & Screening of films Committee, in 104th Indian Children Science Congress -2017 from January 3-6, 2017 at Sri Padmavati Mahila Visva Vidyalayam, Tirupati.
- Member in technical committee, Andhra Pradesh State level 27th National Children Science Congress -2019 from November 24th & 25th, 2019 at Sri Padmavati Mahila Visva Vidyalayam, Tirupati