



**Dr. SHAIK TAJ MAHABOOB, M.Tech., Ph.D**

Associate Professor of ECE

Jawaharlal Nehru Technological University Anantapur College of Engineering  
Pulivendula– 516 390, Andhra Pradesh, India

---

**Bio-data**

Name : Shaik Taj Mahaboob  
Official Address : A2-4, JNTU Staff Quarters,  
JNTUA College of Engineering  
Pulivendula, Y.S.R. Dist.516 390.

Residential Address : A2-4, JNTU Staff Quarters,  
JNTUA College of Engineering  
Pulivendula, Y.S.R. Dist.516 390.

E-mail : [shaiktajmahaboob@gmail.com](mailto:shaiktajmahaboob@gmail.com)  
[taj.ece@jntua.ac.in](mailto:taj.ece@jntua.ac.in)

Nationality : Indian

Religion : Muslim

### Educational Qualifications:

S. No.	Qualification	University/Institution	Specialization	Year of award
1	Ph.D	SV University, Tirupati	Digital Image processing. –Human Emotion Recognition And Performance Evaluation Through Facial Expressions Using Hybrid Gabor Filter And Adaboost Classifier	July 2020
2.	M.Tech	Jawaharlal Nehru Technological University, Hyderabad. (Sree Nidhi Institute of Science and Technology, Hyderabad).	Digital Systems and Computer Electronics	2009
3.	B.Tech	Osmania University, Hyderabad. (Muffakham Jah College of Engineering and Technology, Hyderabad)	Electronics and Communication Engineering	2004

### Professional Experience:

S.No.	Institution/Organization	Position held	Duration
1.	JNTUA College of Engineering, Pulivendula	Assistant Professor (Selection Grade) in the Department of ECE	August 2016– till date
2.	JNTUA college of Engineering, Kalikiri	Assistant Professor (Senior Lecturer)	July 2015 to August 2016
3.	JNTUA College of Engineering, Pulivendula	Assistant Professor (Senior Lecturer) in the Department of ECE	February 2011 to July 2015
4.	Sree Nidhi Institute of Science and Technology, Ghatkesar	Assistant Professor, Department of ECM	February 2010 to February 2011.

5.	Sree Nidhi Institute of Science and Technology, Ghatkesar	Assistant Professor, Department of ECM	June 2004 to February 2010
----	---	--	----------------------------

**Teaching Experience:** 18+ years of teaching UG & PG Courses

### Subjects Taught:

Undergraduate courses	Labs Handled
<ul style="list-style-type: none"> <li>❖ Digital Image Processing</li> <li>❖ Microprocessor and Interfacing &amp; -Interfacing Through Microprocessors</li> <li>❖ Embedded and Real Time Systems</li> <li>❖ Digital Integrated Circuits and Applications</li> <li>❖ Digital Logic Design</li> <li>❖ Computer Organization</li> <li>❖ Switching Theory and Logic Design</li> <li>❖ Linear Integrated Circuits</li> <li>❖ Electronic Devices and Circuits</li> </ul>	<ul style="list-style-type: none"> <li>❖ Microprocessor &amp; Microcontrollers lab</li> <li>❖ Digital Logic Design Lab</li> <li>❖</li> </ul>

### Administrative Work Experience:

- Head of the department, Department of ECE, JNTUACEP, Pulivendula since August 2023.
- Member, Executive council, JNTU Anantapur university from March 2020 to May 2023.
- Dy. Controller of examinations, JNTUA CEP from January 2021 to May 2022.
- College Timetable coordinator, JNTUA CEP from July 2019 to February 2021
- Head of the department, Department of ECE, JNTUACEP from July 2017 to March 2019.
- BOS member for ECE Department syllabus revision for Under Graduate and Post Graduate Syllabus of Department of ECE, JNTUA college of Engineering, Pulivendula.
- Working as Staff Coordinator for E-Chip activities of Department of ECE, JNTUA college of Engineering, Pulivendula.
- Working as Lab in-charge for MPMC (Microprocessors and Microcontrollers) Lab at JNTUA college of Engineering, Pulivendula
- Worked as Head Of the Department (i/c), JNTUA College of Engineering, Kalikiri.
- Worked as assistant coordinator TEQIP, JNTUA College of Engineering, Pulivendula.
- Worked as coordinator AICTE, JNTUA College of Engineering, Pulivendula.
- Worked for NBA Accreditation process, JNTUA College of Engineering, Pulivendula.
- Worked as Deputy Warden, Girls Hostel, JNTUA College of Engineering, Pulivendula.
- Acted as Session Chair for Various Technical Symposiums.

- Worked as Program officer for the second unit of NSS at JNTUA College of Engineering, Pulivendula.

- .Worked as Associate HOD for department of ECM at Sree Nidhi Institute of Science and Technology.
- In-Charge of NBA Accreditation process for department of ECM at Sree Nidhi Institute of Science and Technology, and played key role in attaining five years Accreditation for the Department.
- In-charge of student mentoring and counseling, for department of ECM at Sree Nidhi Institute of Science and Technology.
- Worked as Student Project coordinator for final year projects, for department of ECM at Sree Nidhi Institute of Science and Technology.
- Lab-In charge of Embedded Systems Lab and played key role in its establishment for basic microcontroller based design practice.
- In charge of development of course material and instructional aid for the microprocessors and microcontrollers subject.
- Part of departmental committee for syllabus revision for the curriculum of the branch.
- One of the members of BOS for autonomous syllabus framing for departments of ECE and ECM for both Under-graduate and Post-graduate programs of the departments at SNIST Hyderabad.

### **Areas of Research Interests:**

- Microprocessor and Microcontroller (general and Special Purpose) Architecture.
- Embedded systems
- Digital Image Processing.
- FPGA applications.
- Digital Speech Processing.
- Internet of Things (IOT).

### **Software Skills:**

- Knowledge of operating systems like Unix and Windows 9x, programming in C, Assembly Language Programming (8085, 8086, 8051), Designing and Analyzing using Software's like Tina-pro, VHDL, MATLAB, MATHEMATICA and P-spice, Data Processing software like MS-office, LATEX.

### **Projects:**

- -Human Emotion Recognition and Performance Evaluation through Facial Expressions Using Hybrid Gabor Filter and Adaboost Classifier as research project for award of Ph.D.
- -Study of Payment systems and design of EFT terminal as curriculum project at graduation level.
- -Automatic Speaker Recognition using MFCC as curriculum project at Post graduation level.
- Guided 30 projects for graduation students.
- Guided 15 projects for post graduate students and 7 are in progress.
- In-charge of mini-projects for many students.

### **Additional Duties Handled:**

- Dy. Controller of examinations, JNTUA CEP from January 2021 to till date.
- College Timetable coordinator, JNTUA CEP from July 2019 to February 2021
- Head of the department, Department of ECE, JNTUACEP from July 2017 to March 2019.
- BOS member for ECE Department syllabus revision for Under Graduate and Post Graduate Syllabus of Department of ECE, JNTUA college of Engineering, Pulivendula.
- Working as Staff Coordinator for E-Chip activities of Department of ECE, JNTUA college of Engineering, Pulivendula.
- Working as Lab in-charge for MPMC (Microprocessors and Microcontrollers) Lab at JNTUA college of Engineering, Pulivendula
- Worked as Head Of the Department (i/c), JNTUA College of Engineering, Kalikiri.
- Worked as assistant coordinator TEQIP, JNTUA College of Engineering, Pulivendula.
- Worked as coordinator AICTE, JNTUA College of Engineering, Pulivendula.
- Worked for NBA Accreditation process, JNTUA College of Engineering, Pulivendula.
- Worked as Deputy Warden, Girls Hostel, JNTUA College of Engineering, Pulivendula.
- Acted as Session Chair for Various Technical Symposiums.
- Worked as Program officer for the second unit of NSS at JNTUA College of Engineering, Pulivendula.
- .Worked as Associate HOD for department of ECM at Sree Nidhi Institute of Science and Technology.
- In-Charge of NBA Accreditation process for department of ECM at Sree Nidhi Institute of Science and Technology, and played key role in attaining five years Accreditation for the Department.
- In-charge of student mentoring and counseling, for department of ECM at Sree Nidhi Institute of Science and Technology.
- Worked as Student Project coordinator for final year projects, for department of ECM at Sree Nidhi Institute of Science and Technology.
- Lab-In charge of Embedded Systems Lab and played key role in its establishment for basic microcontroller based design practice.
- In charge of development of course material and instructional aid for the microprocessors and microcontrollers subject.
- Part of departmental committee for syllabus revision for the curriculum of the branch.
- One of the members of BOS for autonomous syllabus framing for departments of ECE and ECM for both Under-graduate and Post-graduate programs of the departments at SNIST Hyderabad.

### **Number of Research publications:**

<b>International journals:</b>	<b>31</b>
<b>International Conferences:</b>	<b>11</b>
<b>National Conferences:</b>	<b>04</b>

## List of publications:

### International /National Journals:

2023

- Shaik Taj Mahaboob et al., published a paper titled -IMAGE AND VIDEO DEBLURRING USING CONVOLUTIONAL NEURAL NETWORKS FOR REMOVING BLURRNNESS FROM IMAGES|, in Industrial Engineering Journal ISSN: 0970-2555 Volume : 52, Issue 5, No. 5, May : 2023, UGC CARE Group-1, PP. 116-124.
- Shaik Taj Mahaboob et al., published a paper titled -SERVER BASED AUTHENTICATION USING TACACS SERVER|, in Industrial Engineering Journal: ISSN 0970-2555 Volume : 52, Issue 4, No. 1, April : 2023 UGC Care Approved, Group I, Peer Reviewed Journal with IF=6.82
- Shaik Taj Mahaboob et al., published a paper titled -BUILDING NEXT-GENERATION MOBILE APPLICATIONS WITH WIRELESS APPLICATION PROTOCOL|, in Industrial Engineering Journal ISSN: 0970-2555 Volume : 52, Issue 4, No. 1, April : 2023 UGC CARE Group-1, 173-183.
- Shaik Taj Mahaboob et al., published a paper titled -AUTOMATIC SPEECH TO TEXT CONVERSION ALONG WITH SPEAKER RECOGNITION USING GMM|, in Industrial Engineering Journal, UGC Care Approved, Group I, Peer Reviewed Journal ISSN: 0970-2555 Volume : 52, Issue 4, No. 4, April : 2023.
- Shaik Taj Mahaboob et al., published a paper titled -THE COMPREHENSIVE STUDY OF AUTOMATIC SPEECH TO TEXT CONVERSION ALONG WITH SPEAKER RECOGNITION SYSTEM|, in Juni Khyat ISSN: 2278-4632 (UGC Care Group I Listed Journal) Vol-13, Issue-04, No.04, April : 2023.

2022

- Shaik Taj Mahaboob et al., published a paper titled -A Comprehensive Study of Authentication and Confidentiality for Tacacs Server|, in International Journal of Research in Engineering and Science (IJRES) ISSN (Online): 2320-9364, ISSN (Print): 2320-9356 www.ijres.org Volume 10 Issue 101 October 2022 PP. 373-374.

2019

- Shaik Taj Mahaboob, S. Narayana Reddy, P. Jagadamba, -A Hybrid Emotional Facial Expression Recognition Algorithm using Enhanced Gabor Filter with Adaboost Classifier|, *Journal of Engineering and Applied Sciences*. ISSN 1816-949x September 2019, vol-14, issue-18,pp 6634-6641 [Scopus Listed Journal]

2018

- G Mahesh Babu, Shaik Taj Mahaboob, S. Narayana Reddy, -Face Emotion Recognition Using ADABOOST vs Radial Basis Function Neural Network (RBFN)|, *Suraj Punj Journal For Multidisciplinary Research(SPJMR)*, ISSN 2394-2886 October 2018,vol-8,issue-10,pp 105-115. [ICI Indexed Journal] [UGC Listed Journal].
- Shaik Taj Mahaboob et al., published a paper titled -Channel wise gradient method for single image super resolution|, in International Journal of Technical Innovation in Modern Engineering and Science (IJTIMES) e-ISSN 2455-2585 volume 4, Issue 09, September 2018, PP. 502.
- Shaik Taj Mahaboob et al., published a paper titled -A New Color Image Sharing Based on Compressed Sensing|, in International Journal of Research ISSN NO: 2236-6124 Volume 7, Issue IX, September/2018 Page No:262



- Shaik Taj Mahaboob et al., published a paper titled –Low-light image enhancement method based on Non-Local means using illumination map estimation, in International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES) Impact Factor: 5.22 (SJIF-2017), e-ISSN: 2455-2585 Volume 4, Issue 9, September-2018, Page No:241.
- Shaik Taj Mahaboob et al., published a paper titled –A Novel Technique for Detection of Blood Cancer in Microscopic Imagery, in International Journal of Research ISSN 2236-6124, September/2018, Volume 7, Issue IX, Page No:253.
- G Mahesh Babu, Shaik Taj Mahaboob, S. Narayana Reddy, –Facial Expression Analysis Applied To Emotion Recognition: A Survey, *International Journal of Research(IJR)*, ISSN 2236-6124 September 2018, vol-7, issue-IX,pp 877-883. [ICI Indexed Journal] [UGC Listed Journal].
- ShaikTajMahaboob, Dr. S. Narayana Reddy, –*An Integrated KFKT-LDA mechanism for facial emotion extraction and recognition with SVM as classifier*, International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 9,Issue 4, July - August 2018, pp. 315-324.
- ShaikTajMahaboob, K. Siva Chandra, B. Shiva Kumar published a Paper on –*Lora Based Smart City Frame Works* in International Journal of Computational Engineering Research (IJCER), ISSN (e): 2250 – 3005, Volume 08, Issue 5, May – 2018, pp. 58-72.
- Shaik Taj Mahaboob et al., published a paper titled –Design and Implementation of serial peripheral interfacel, in International Journal of Advance Engineering and Research Development e-ISSN 2348-4470 Volume 5, Issue 04, April-2018, PP. 2250.  
2017
- Shaik Taj Mahaboob et al., published a paper titled –PRECISE IMAGE REGISTRATION BASED ON SIFT WITH RANSAC ALGORITHM, in International Journal of Advance Engineering and Research Development Impact Factor: 4.72 e-ISSN (O): 2348-4470 p-ISSN (P): 2348-6406 December -2017, Volume 4, Issue 12, Page No:456.
- Shaik Taj Mahaboob, S. Narayana Reddy, –A Comprehensive Literature Survey on Automatic Facial Expression Recognition Techniques, *International Journal of Engineering and Science Research(IJESR)* , ISSN 2277-2685 may 2017,vol-7,issue-5,pp 46-53. [UGC Listed Journal].
- Shaik Taj Mahaboob, S. Narayana Reddy, –Comparative Performance Analysis of LBP and LTP based Facial Expression Recognition, *International Journal of Applied Engineering Research(IJAER)* , ISSN 0973-4562, Volume-12,issue-17 2017, pp 6897-6900. [Scopus Listed Journal].
- ShaikTajMahaboob, Dr. S. Narayana Reddy, “*Comparative Performance Analysis of LBP and LTP based Facial Expression Recognition*”, International Journal of Applied Engineering Research ISSN 0973-4562, Volume 12, Issue -17, 2017, PP 6897 – 6900. [ Scopus Listed Journal]
- ShaikTajMahaboob, V.U.Hari Priya, –*Image Denoising and visibility restoration using bi-orthogonal wavelet transform*, International journal of Electronics, Electrical and Computational systems (IJECS) ISSN 2348-117x August 2017,vol-6, Issue-8,PP 809-814. [ UGC Listed Journal]
- ShaikTajMahaboob, A Sree Madhuri, –*Evaluating The Performance Of Free Space Optical Link In Tropical Climate*, International Journal of Advanced Engineering and Research Development (IJAEDR), ISSN 2348-4470 August 2017,vol-4, Issue-8,PP 273-278. [ UGC Listed Journal]
- ShaikTajMahaboob, Shaik Baba Fakruddin, –*Reversible Data Hiding (RDH) Algorithm For .Jpg*



*Colour Images*], International Journal of Advanced Engineering and Research Development (IJAEDR), ISSN 2348-4470 August 2017, vol-4, Issue-8, PP 225-231. [ UGC Listed Journal]

- ShaikTajMahaboob, V.U.Hari Priya, *-Survey On Image Denoising Techniques*], International Journal of Advanced Engineering and Research Development (IJAEDR), ISSN 2348-4470 July 2017, vol-4, Issue-7, PP 718-723. [ UGC Listed Journal]
- Shaik Taj Mahaboob, Dr. S. Narayana Reddy *-A Comprehensive Literature Survey On Automatic Facial Expression Recognition Techniques*”, International Journal of Engineering & Science Research (IJESR), Volume 7, Issue 5, May 2017, pp.46-53.(ISSN Online 2277 2685).
- Shaik Taj Mahaboob, A. Sree Madhuri *-A Review on Atmospheric Effects on Free Space Optical Link*”, International Journal of Engineering Research in Electronics and Communication Engineering(IJERECE) Special Issue, Volume 4, Issue 3, March 2017, pp.142-146.(ISSN Online 2394 2320).
- Shaik Taj Mahaboob, Shaik Baba Fakruddin, *-A Survey on Reversible Image Data Hiding with Contrast Enhancement*”, International Journal of Engineering Research in Electronics and Communication Engineering(IJERECE) Special Issue, Volume 4, Issue 3, March 2017, pp.142-146.(ISSN Online 2394 2320).

2015

- Shaik Abdul Sattar, Shaik Taj Mahaboob, Dr. S. Narayana Reddy *-Analytical Approach for Local Prediction Based Difference Expansion Reversible Watermarking*” International Journal of Emerging Technology and Innovative Engineering (IJETIE), Volume 1, Issue 10, October 2015 (ISSN 2394 6598).
- P. Srikanth, Shaik Taj Mahaboob, P.Sailaja *-An High Equipped Power Constrained Algorithm for OLEDs based on SDMSR for Display of High Definition Videos*” International Journal of Emerging Technology and Innovative Engineering (IJETIE), Volume 1, Issue 8, August 2015, pp. 1-5 (ISSN 2394 6598).
- P. Sailaja, Shaik Taj Mahaboob, P.Sreekanth *-Secure Image Transmission Using Secrete Fragement Image Mosaicing and pixel color Transformation*” International Journal of Emerging Technology and Innovative Engineering (IJETIE), Volume 1, Issue 8, August 2015, pp. 6-10 (ISSN 2394 6598).

2014

- Y. Haribabu, Shaik Taj Mahaboob, Dr. S. Narayana Reddy *-Resolution Enhancement of Satellite Image Using DT-CWT and EPS*” International Journal of Science and Research (IJSR) Volume 3, Issue 11 November 2014, pp.735-739.(ISSN Online 2319 7064).
- S. Mohaddeesh, Shaik Taj Mahaboob, *-Power System's Transmission Lines Relaying Improvement Using Discrete Wavelet Transform*” International Journal of Engineering Research and Applications (IJERA) Volume 4, Issue 8 (Version 4) August 2014, pp.12-17.(ISSN 2248 9622).
- K. Ravindra Reddy, Shaik Taj Mahaboob, K. Siva Chandra, T.S. Mahammed Basha *-Secured Data Transmission Using Wavelet Based Steganography and Cryptography*”, International Journal of Engineering Research and Applications (IJERA) Volume 4, Issue 2 (Version 5) February 2014, pp.45-50.(ISSN 2248 9622).

2013

- Arun Kumar Mayari, Shaik Taj Mahaboob, *-Error-Compensated Adder Tree in Image Compression*” International Journal of VLSI and Embedded Systems (IJVES) Volume 4, Issue 12 December 2013, pp.692-695.(ISSN 2249 6556).

- Y. Satheesh, Shaik Taj Mahaboob, *-Encryption of Text File in a Video Using Adaptive Compression of Video*” International Journal of Science and Research (IJSR) Volume 2, Issue 11 November 2013, pp.348-351.(ISSN Online 2319 7064).  
2012
- Shaik Taj Mahaboob et al., Presented a paper entitled –Adaptive down sampling approach using Haar wavelet for low bit rate image compression in the International technologies (ICECIT=2012) conducted by srinivasa ramanujan institute of technology, Anantapur during 21<sup>st</sup> to 23<sup>rd</sup> December 2012,

### International /National Conferences:

- 2023
- Shaik Taj Mahaboob et al.,Presented a paper titled –A REAL-TIME FACIAL EXPRESSIONS RECOGNITION USING DEEP NEURAL NETWORKS in –International Conference on Emerging Research in Science, Engineering and Management (ERSEM)-2023 during 19.05.2023 to 20.05.2023 at SRIT, Proddatur, YSR Dist ISBN: 978-81-962735-0-7.  
2022
- Shaik Taj Mahaboob et al., presented a paper along with co-author on –A REVIEW OF NETWORK DESIGN AND SECURE ROUTING PROTOCOLS in International Conference on Recent Trends in Engineering and Technology (ICRTET-2022) Organized by KSRM College of Engineering, Kadapa, Andhra Pradesh, India held on 29th December, 2022.  
2019
- Shaik Taj Mahaboob et al., presented a paper along with co-author on –Literature Review on Convolutional Regression for Visual Tracking in International Conference on Future Communication and Internet of Things (ICFCIoT- 2019), held at Aditya college of Engineering, Madanapalle, AP., during 15th – 16th March 2019.
- Shaik Taj Mahaboob et al., presented a paper along with co-author on –A Literature Review on Visual Tracking with Weighted Adaptive Local Sparse Appearance Model via Spatio-Temporal Context Learning in International Conference on Future Communication and Internet of Things (ICFCIoT- 2019), held at Aditya college of Engineering, Madanapalle, AP., during 15th – 16th March 2019.  
2017
- Shaik Taj Mahaboob et al., presented a paper along with co-author on –Image Denoising and Visibility Restoration using Bi-Orthogonal Wavelet Transform in the 7th International Conference on Research Trends in Engineering, Applied Science and Management (ICRTESSM-2017), held at MCCIA, Pune, Maharashtra, on 27<sup>th</sup> august 2017.
- Shaik Taj Mahaboob et al., presented a paper along with co-author on “**A Survey on Reversible Image Data Hiding with Contrast Enhancement**” in the ICETEST -2017 held at S.V. University Tirupati, during 18<sup>th</sup> – 20<sup>th</sup> March 2017.
- Shaik Taj Mahaboob et al., presented a paper along with co-author on “**A Review on Atmospheric Effects on Free Space Optical Link**” in the ICETEST -2017 held at S.V. University Tirupati, during 18<sup>th</sup> – 20<sup>th</sup> March 2017.  
2016
- Shaik Taj Mahaboob et al., presented a paper on “**A survey of different approaches for human emotion recognition using speech and image processing**” at IEEE-EDS Kolkata Chapter Sponsored 5th International Conference on 'Computing, Communication and Sensor Network',(CCSN 2016), during 24<sup>th</sup>,25<sup>th</sup> December, 2016 in Kolkata, India.  
2014
- Shaik Taj Mahaboob et al., presented a paper along with co-authors on –**Data security using HAAR wavelet based LSB-DES approach in data transmission** in AICTE sponsored

National conference on emerging trends in wireless communications and systems (NCETWCS-2014), 978-93-83083-62-6 (ISBN), March 7-8, 2014.

2012

- Shaik Taj Mahaboob et al., **published** paper along with co-authors on **-Adaptive down sampling approach using Harr Wavelet for low – bit rate image compression** in International Conference on Emerging trends in Electrical, Communication and Information Technologies (ICECIT -2012), December 2012.

2009

- Shaik Taj Mahaboob et al., presented a paper as co-author on **“Analysis of the Encoding Scheme for CS-ACELP Codec for Secured VoIP Communication”** at **IEEE international conference in computer science and information technology (ICSTE) 2009**, August 2009.
- Shaik Taj Mahaboob et al., presented a paper on **“Automatic Speaker Recognition MEL Frequency -Cepstral Coefficients (MFCC)”** at **National Conference on Advances in Communication Technologies (NCACT-09) - 2009**, at Sree Nidhi Institute of Science and Technology, Hyderabad, July-3-4, 2009.
- Shaik Taj Mahaboob et al., presented a paper on **“ITU-T standardized CS-ACELP algorithm based speech coding for VoIP and Multimedia Communication”** at **National Conference on Advances in Communication Technologies (NCACT-09) - 2009**, at Sree Nidhi Institute of Science and Technology, Hyderabad, July-3-4, 2009.
- Shaik Taj Mahaboob et al., presented a paper on **“Automatic Voice Recognition using MEL Frequency -Cepstral Coefficients (MFCC)”** at **National Conference on Signal Processing and Communications (SPCOM-09) - 2009**, at Malla Reddy college of Engineering and Technology, Hyderabad, December 4-5 2009.

2008

- Shaik Taj Mahaboob et al., presented and secured second prize for paper on **“Secured Speech encoding using viterbi coding”** at **National Student Symposium (SANKETHIKA-08) 2008** at Sree Nidhi Institute of Science and Technology, Hyderabad, April 18-19 2008.

### Patents:

- Mini IoT Audio Device. Application Number: 372224-001 Cbr Number: 206999 Cbr Date: 09/10/2022 19:05:00, Design Accepted and Published, Design Number 372237-001 Journal No is 02/2023 and Journal Date is 13/01/2023.
- AI BASED DEVICE FOR PREMISES SURVEILLANCE MANAGEMENT. Design No. : 380322-001 Date : 28/02/2023.

### STCs/Workshops/ Symposiums Conducted:

- **“1-week workshop on “Embedded Systems with Lab”** at SNIST, Hyderabad, in association with UTS Technologies Hyderabad during 1-6 Sept, 2008.
- **“Two day National workshop on Real Time Embedded System Design Concepts”** at JNTUA college of Engineering Pulivendula during 16<sup>th</sup> and 17<sup>th</sup> March 2012.
- **National level Student Symposium “SINTILLACE 2K12”** at JNTUA college of Engineering Pulivendula during 27<sup>th</sup> and 28<sup>th</sup> Septemper 2012.
- **“NRC – 2013 Zonal Level workshop cum Championship” in association with AIESEC, IIT Kharagpur and ARK technosolutions Mumbai, on 21<sup>st</sup> and 22<sup>nd</sup> Feb 2013.**

## STCs/Workshops Attended:

2022

- Participated in the Five Days National Level FDP on "Artificial Intelligence and Cloud Services" organized by Department of Information Technology and Computer Science, Sri Ramakrishna College of Arts and Science (Autonomous), Coimbatore, Tamil Nadu from 31-10-2022 to 04-11-2022.

2021

- Participated and successfully completed FDP on Embedded Systems from 16.08.2021 to 04.09.2021 Organized by Andhra Pradesh State Skill Development Corporation (APSSDC).

2020

- Participated in the NATIONAL WEBINAR ON "ADVANCED RESEARCH & FUNDING SCOPE IN THE EMERGING AREAS OF ENGINEERING, SCIENCE & TECHNOLOGY" organized by FDP Cell, ESCI on 24th July 2020.
- Participated the 3-Days Free Webinar FDP on "-Digital Era of Teaching" conducted by Diksoochi, Mysuru from 11th May to 13th May 2020.

2019

- Participated & completed successfully AICTE Training and Learning (ATAL) Academy FDP on "ARTIFICIAL INTELLIGENCE" from 02-12-2019 to 06-12-2019 at JNTUA College of Engineering (Autonomous), Pulivendula.

2018

- Participated in NPTEL Workshop Conducted on 15-12-2018 by IIT Madras, at —\_INTUACE, Pulivendula.
- Participated in the Faculty Induction Training Program supported by MHRD, under the scheme Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) and organized by Teaching Learning Centre, Indian Institute of Technology Hyderabad (IITH) from 12th November 2018 to 05th December 2018.

2017

- Three day National Level **Workshop** on “**Outcome Based Assessment & Accreditation Preparation of NBA - SAR**” during 24<sup>th</sup> – 26<sup>th</sup> March 2017 Organized by Engineering Staff College of India at Shimla (H.P).
- Three day national level workshop on “**Paper and Article Writing with LATEX**” during 17<sup>th</sup>-19<sup>th</sup> March 2017, at JNTUA College of Engineering, Pulivendula.
- Two day national level workshop on “**Teaching Dynamics for Engineering Faculty**” during 14<sup>th</sup>-15<sup>th</sup> March 2017, at JNTUA College of Engineering, Pulivendula.

2016

- One week National level **Faculty Development Program** on “**Choice Based Credit System, Outcome Based Education, Curriculum Design, IPR and Industry- Institute Partnership**” during 29<sup>th</sup> December 2016 to 02<sup>nd</sup> January 2017 Organized by Engineering Staff College of India at Alleppey, Kerala.
- Two day National Level **Faculty Development Program** on “**Pedagogy, Accreditation Research and Entrepreneurship**” during 22<sup>nd</sup> – 23<sup>rd</sup> November 2016 Organized by Engineering Staff College of India at Port Blair Andaman and Nicobar Islands.
- One week National Program for training of scientists and technologists **Creativity and Innovation Management in Research** from 24<sup>th</sup> to 28 October 2016 DST sponsored program by Engineering Staff College of India Organized at Hyderabad.
- One week Management Development program for **Improved R&D and III at TEQIP-II institutions** from 19<sup>th</sup> – 23<sup>rd</sup> September 2016 at Administrative staff college of India Bellavista, Hyderabad.
- One week TEQIP National course on “**Algorithms and Architectures for high efficiency video coding**” during 5<sup>th</sup> – 9<sup>th</sup> September 2016, Organized by center for educational technology IIT Guwahati under Technical Education Quality Improvement Program sponsored by Ministry of Human Resource Development Government of India..
- Two day National Level Workshop on “**VLSI Design Advancements Using Xilinx Tools**” during 26<sup>th</sup> – 27<sup>th</sup> August 2016, at JNTUA College of Engineering, Pulivendula.
- Two day National Level Hands-on Training Program on “**MSP 430 and TIVA Microcontrollers**” during 23<sup>rd</sup> – 24<sup>th</sup> July 2016, at JNTUA College of Engineering, Pulivendula.
- Three day UGC-SERO Sponsored National Workshop on “**Human Values an Professional Ethics(NWHVPEIFSN-2016)**” during 24<sup>th</sup>-26<sup>th</sup> January 2016, at Loyola Degree College, Pulivendula.

2015

- Three day Hands-on workshop on “**Embedded System Design Using MSP 430**” during 10<sup>th</sup>-12<sup>th</sup> September 2015, at JNTUA College of Engineering, Anantapur.
- One week workshop on “**MHRDs National Mission for Teachers and Administrators Management Capacity Enhancement Programme**” during 8<sup>th</sup> – 14<sup>th</sup> June 2015, at Indian Institute of Management, Indore.

2014

- One day industry visit at RCI Labs, Hyderabad on 23<sup>rd</sup> May 2014.
- UGC Sponsored Orientation Course “**40<sup>th</sup> Orientation Course**” from 15<sup>th</sup> September to 14<sup>th</sup> October 2014 Organized by UGC-Academic staff college JNTUH Hyderabad.



- Two day national level workshop on “**Human Values and Professional Ethics**” during 7<sup>th</sup>-8<sup>th</sup> November 2014, at JNTUA College of Engineering, Pulivendula.
- One week workshop on “**Advances in Image and Video Processing and Applications using MATLAB**” during 7<sup>th</sup> – 12<sup>th</sup> April 2014, at Sreenidhi Institute of science and Technology, Hyderabad.
- Two day national level workshop on “**Innovative Methods of Teaching Soft Skills**” during 27<sup>th</sup>-28<sup>th</sup> March 2014, at JNTUA College of Engineering, Pulivendula.
- Two day national level workshop on “**Research Applications in Digital Image Processing**” during 14<sup>th</sup>-15<sup>th</sup> March 2014, at JNTUA College of Engineering, Pulivendula.
- Three day workshop on “**Applications of MATLAB for Engineering Computations (AMEC)**” during 10<sup>th</sup>-12<sup>th</sup> January 2014, at PDPM Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Jabalpur.

2013

- Three day workshop on “**Training Program on TEQIP e-FMR and PMSS training**” by SPFU AP TEQIP during 15<sup>th</sup>-17<sup>th</sup> May 2013, at Osmania University, Hyderabad.
- One day workshop on “**Complementary Domains – VLSI and Embedded Systems (CDVES – 13)**” on 30<sup>th</sup> April 2013 at JNTUA college Of Engineering, Anantapur.

2011

- UGC Sponsored Refresher course on “**Image and Video Processing and its Applications**” from Nov 14<sup>th</sup> to Dec 3<sup>rd</sup> 2011, at Academic Staff College, JNTU Hyderabad.
- Seminar on “**MATLAB and Simulink for Engineering Education**” on 6<sup>th</sup> September 2011, organized by Math works India Pvt. Ltd.

2010

- **National Convention for Academics and Research** by free software movement of India (SWECHA) at Mahindra Satyam Technology Center, Hyderabad during 16<sup>th</sup> to 18<sup>th</sup> Dec 2010.
- Faculty Development Program on “**Embedded and Real Time Systems**” at Vignan Institute of Technology and Science, during 2<sup>nd</sup> to 4<sup>th</sup> Dec 2010.

2009

- MHRD Sponsored faculty training program (Prepare Future) on “**System Design using FPGA**” by CDAC Hyderabad during 16<sup>th</sup> to 27<sup>th</sup> Nov 2009.

2008

- “**Real Time Embedded Systems**” organized by ISM, Bangalore at Hyderabad on Aug 2, 2008.
- Two weeks Refresher Course Sponsored by MHRD on “**Signal Processing**” Organized by National Institute of Technology, Warangal during 26<sup>th</sup> May to 7<sup>th</sup> June 2008.

➤ A workshop sponsored by TEQIP on “**Advanced Microprocessors and Microcontrollers**” jointly organized by Dept. of ECE, SNIST, Hyderabad and GIOE, Hyderabad during May 12-14, 2008.

➤ A short term training Program sponsored by TEQIP on “**Emerging Trends in Satellite Technology**” organized by Dept. of ECE, SNIST, Hyderabad during Feb 18-22, 2008.

2007

➤ “**Low power VLSI Design**” organized by Dept. of ECE, SNIST, Hyderabad during Dec 3-8, 2007.

➤ “**Mission 10X Program**” organized Wipro Technologies| at JNTU, Hyderabad during Dec 18-27, 2007.

➤ TEQIP sponsored short term course on “**Telecommunication Switching Systems, Networks and Protocols**” at SNIST during 26<sup>th</sup> Nov to 1<sup>st</sup> Dec 2007.

➤ “**Technology and Design of VLSI & Embedded Systems**” organized by Dept. of ECE, SNIST, Hyderabad during Aug 27-31, 2007.

2006

➤ “**DSP Processors and Applications**” organized by Dept. of ECE, Osmania University, Hyderabad during Oct, 16-20, 2006.

➤ TEQIP sponsored Short term training program on “**Microwave Techniques**” at SNIST during 9<sup>th</sup> to 11<sup>th</sup> Oct 2006.

➤ MHRD sponsored short term training Program on “**Digital IC Design**” organized by Dept. of ECE, National Institute of Technology, Warangal Feb 27 - Mar 4, 2006.

2005

➤ IODEVUNI (International organization for Developing Universities, U.S.A.), sponsored short term course on “**Effective Teaching Methodology**” organized by SNIST, Hyderabad during Jun 20-25, 2005.

➤ Two day workshop on “**Advances in Micro Electronics**” by Al-Habeeb college of Engineering and Technology Hyderabad during 28<sup>th</sup> and 29<sup>th</sup> Dec 2005.

➤ Short Term Course on “**Embedded Systems**” at SNIST during 6<sup>th</sup> to 11<sup>th</sup> June 2005.

➤ A certification course on “**Advanced Communication Skills in English for Professionals**” at English Language Training Center, Osmania University, Hyderabad, during July – September 2005.

2004

➤ One Day hands on Workshop on “**ARM processors for Embedded System Development**” by Nalanda Telematics and Informatics ltd. On 3<sup>rd</sup> Nov 2004.



- IODEVUNI Sponsored short term training program on “**Digital Integrated Circuit Applications using VHDL**” organized by Dept. of ECE, SNIST, Hyderabad during June 21-26, 2004.
- “**Student Professional Awareness Conference (S-PAC’03)** by IEEE Student Chapter at **MJCET Hyderabad.**

2003

- **Certification course on Personality Development at Vivekananda Institute of Human Excellence (Ramakrishna Matt) Hyderabad during Feb-Apr 2003.**

### **Special Appreciations/Achievements:**

- Received prestigious –Best Teachers Award from SNIST, Ghatkesar for three consecutive years.

### **Extra Activities:**

- Worked as membership committee head of IEEE student chapter of M.J.C.E.T.
- Volunteered for organizing technical festivals and other activities of IEEE at M.J.C.E.T.
- At school as a house captain lead my house to win best house of the year prize.
- At school won many prizes in sports, quiz competitions, Hindi and English skits and other co-curricular activities.
- At school participated actively in many social service activities like collecting funds for old age homes and leprosy rehabilitation center.

### **Certification :**

- ❖ Received prestigious –Best Teachers Award from SNIST, Ghatkesar for three consecutive years.
- ❖ Worked as membership committee head of IEEE student chapter of M.J.C.E.T.
- ❖ Volunteered for organizing technical festivals and other activities of IEEE at M.J.C.E.T.
- ❖ At school as a house captain lead my house to win best house of the year prize.
- ❖ At school won many prizes in sports, quiz competitions, Hindi and English skits and other co-curricular activities.
- ❖ At school participated actively in many social service activities like collecting funds for old age homes and leprosy rehabilitation center.

### **Declaration:**

I hereby declare that the information furnished above is true to the best of knowledge

**(Shaik Taj Mahaboob)**