



**NARSIMHA REDDY
ENGINEERING COLLEGE**

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Accredited by NBA & HAAC with "A" Grade



Volume: 6

Issue: 1



C@NNECT

Department of Electronics and Communication Engineering News

Bulletin Half Yearly

July- December 2021

Vision

To evolve into a center of excellence in Electronics & Communications Engineering through creative and innovative practices in teaching-learning and Research in consonance with the contemporary and future needs of the society.

Mission

Mission 1: Inspire and encourage development of key ideas and innovations that can contribute to socio-economic development of India as well as society.

Mission 2: Identify and collaborate with experts, professionals, academicians, commercial and various governmental bodies and develop an environment conducive to research and develop an environment conducive to research and development.

Mission 3: Offer state-of-the-art programs that inspire and motivates students in perusing the role of researchers and developers through higher learning programs.

Head of the Department



Welcome to the July - December 2021 edition of our Electronics and Communication Engineering (ECE) department's newsletter. Inside, you will find articles and achievements of our students and faculty members. This newsletter also includes details about guest lectures, workshops, student chapter events, etc., offering insights into the current industry requirements. This ensures that our students and faculty are well-informed about real-world developments and are equipped to meet them.

As we strive to adopt new teaching methods and integrate the latest technologies, I'm confident in our ability to continue excelling. I thank all the students and faculty members who have worked hard and brought about this newsletter.

Dr. Honey Durga Prasad Tiwari

Awards & Participation

Changa Vineetha, Gaddam Navya, Karanam Sai Teja Sri , M Sri Vidya Participated In National Level Technical Fest SYMPO AAGNYA 2021 Conducted At St Martins Engineering College



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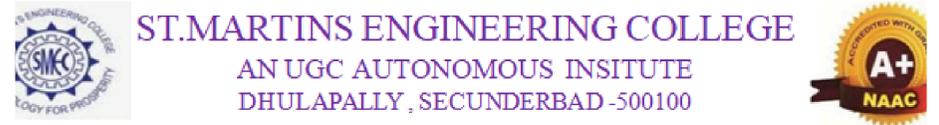
Certificate Of Participation

This is to certify that Mr./Ms. GADDAM NAVYA of NRCM College has Participated in Tech Expo event during SYMPO AAGNYA 2020-A Two Day National Level Technical Symposium Held at St Martins Engineering college on 17th & 18th December 2021

Dr Simha Sahu
Convener

Dr B Hari Krishna
HOD-ECE

Dr P Santhosh Kumar Patra
Principal



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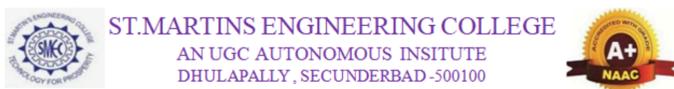
Certificate Of Participation

This is to certify that Mr./Ms. CHANGA VINEETHA of NRCM College h Participated in Tech Expo event during SYMPO AAGNYA 2020-A Tv Day National Level Technical Symposium Held at St Martins Engineering college c 17th & 18th December 2021

Dr Simha Sahu
Convener

Dr B Hari Krishna
HOD-ECE

Dr P Santhosh Kumar
Principal



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Certificate Of Participation

This is to certify that Mr./Ms. MALLELA SRI VIDYA of NRCM College has Participated in Tech Expo event during SYMPO AAGNYA 2020-A Two Day National Level Technical Symposium Held at St Martins Engineering college on 17th & 18th December 2021

Dr Simha Sahu
Convener

Dr B Hari Krishna
HOD-ECE

Dr P Santhosh Kumar Patra
Principal



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Certificate Of Participation

This is to certify that Mr./Ms. KRANAM SAI TEJA SRI of NRCM College has Participated in Tech Expo event during SYMPO AAGNYA 2020-A Two Day National Level Technical Symposium Held at St Martins Engineering college on 17th & 18th December 2021

Dr Simha Sahu
Convener

Dr B Hari Krishna
HOD-ECE

Dr P Santhosh Kumar Patra
Principal

Boothkur Chandra Shekar Reddy, Ontela Vyshnavi, Challa Varshini, Karanam Sai Teja Sri, Nagireddypet Vaishnavi Achieved Third Prize In National Level Project Expo "VERVE 2021" At Vardhaman College Of Engineering



Vardhaman College of Engineering

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Affiliated to JNTUH , Approved by AICTE, Accredited by NAAC with A+ Grade,
And ISO 9001:2015 certified (JNTUH college Code:88)

CERTIFICATE OF PARTICIPATION



This is to Certify that

ONTELA VYSHNAVI
Of

Narsimha Reddy Engineering College

Has Participated In E-poster Presentation Competition Organized By IEEE-MTTs Vardhaman College Student Chapter ,Department Of Electronics And Communication Engineering At Vardhaman College Of Engineering , Hyderabad Held On 09-09-2021 And Has Secured 3rd Prize In Project Expo.

Events Organized

A Seminar ON EDC cell awareness Program is conducted on 20 July 2021 in Association with institute EDC cell and ECE Department



A Webinar on "Career Guidance in Embedded system Design" is conducted by ECE department in association with ISTE Student chapter



A Webinar on An Overview of Recent Advances in Image Processing is conducted by ECE department in association with ISTE Student chapter



A Workshop on Robotics Unplugged Sensors, Actuators and Control is organized by the ECE Department in Association with ISTE on November 9/1//2021



Welcome to
A Workshop on "Robotics Unplugged Sensors, Actuators and Control"
09th November 2021



Chief Guest
Dr Srinivas
Assistant Professor
MLRIT
Hyderabad



A Workshop on "Micro Controller Based Embedded System Design" is organized by Department of ECE in Association with ISTE



Welcome to
A Workshop on "Workshop on Micro Controller Based Embedded System Design"
08/12/2021



Dr K Vasu Babu
Professor
VVIT, Guntur



Organized By Department of ECE
IN Technical Association with Indian Society for Technical Education Hyderabad Chapter

Date & Venue : 08/12/2021 MG Block Seminar Hall



Faculty Development Program

A Faculty Development Program (FDP) on "Wireless Communication for Disaster Management and Remote Monitoring" was organized by the electronics and communication department with the objective of enhancing the knowledge and technical competencies of faculty members and researchers in emerging wireless communication technologies and their applications in disaster mitigation, emergency response, and remote monitoring systems. In the current era of climate change, urbanization, and increased vulnerability to natural and man-made disasters, reliable wireless communication plays a crucial role in ensuring timely information exchange and coordinated rescue operations. On 12/7/2021



One Week Faculty Development Programme (FDP) on
"Wireless Communication for Disaster Management and Remote Monitoring"
Faculty Development Programme (FDP)
Organized by
Department of Electronics and Communication Engineering

Resource Person :
D. Srinivasulu,
Associate Professor,
QIS College,
Andhra Pradesh

Monday : 12-07-2021
Time : 10.00 AM TO 5.00 PM

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Logos: AICTE, ATAL, NRCM, NBA, NAAC



A STTP Program On Outcome Based Education is conducted on 23/10/2021. The Purpose The STTP sessions were delivered by Dr./Mr./Ms. M. Anusha Rani, Assistant professor, Vignans Nirula Women's College, Hyderabad Designation, Organization/Institution, who has extensive experience in OBE implementation, curriculum design, and accreditation processes. The sessions were interactive and enriched with real-time examples and case studies.



Five day's Faculty Development Programme
"STTP on Outcome Based Education"
Faculty Development Programme
Organized by
Department of Electronics and Communication Engineering

Resource Person
M. Anusha Rani,
Assistant professor,
Vignans Nirula Women's College,
Hyderabad

Saturday:
Time : 10.00 AM TO 5.00 PM

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Logos: AICTE



Research and Development Activities

Mr Sachin Ahankari, A.Prutha Rani Assistant professor , D Yesha sree Assistant professor of ECE department has been Published in International Conference on Electronics and Renewable Systems (ICEARS) paper titled “wireless Underwater Communication : A Networking Approach for estimating First Order Lag in Routing the Data ”

Proceedings of the International Conference on Electronics and Renewable Systems (ICEARS 2022)
IEEE Xplore Part Number: CFP22AV8-ART; ISBN: 978-1-6654-8425-1

Wireless Underwater Communication: A Networking Approach for Estimating First Order Lag in Routing Data

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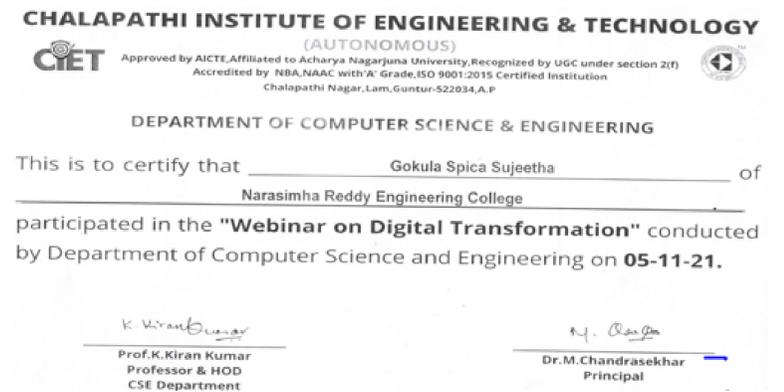
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Abstract: Unique features of underwater sensor nodes enabled with acoustic communications incur minimal attenuation and delay in multi-hop communication. The topology of sensor nodes transfers data in an upward direction towards the surface sink. The sensors are uses orthogonal frequency division multiplexing (OFDM) as it is

models outperforms conventional Depth Based Routing (DBR). The proposed routing protocol is a variant of DBR integrating vector auto regression model. It estimates the own lag and cross lag coefficients of two co-deployed sensors in forwarding to its neighbour of lesser depth. Simulation results show better delivery efficiency through lag estimation

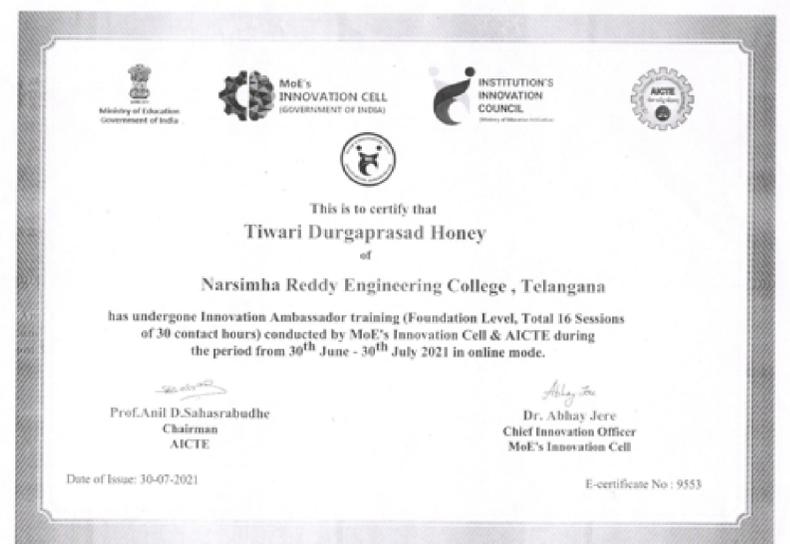
Mrs.Gokula Spica Sujeetha Assistant professor ECE Department Attended The webinar on digital Transformation at Chalapathi Institute of Engineering and technology Guntur AP



Mrs.Gokula Spica Sujeetha Assistant professor ECE Department Participated In business Plan/ Prototype competition to invite innovative business Model on 16th July 2021 at Bharath Institute of Engineering and Technology Hyderabad



Dr Honey Durga Prasad Tiwari Professor & Head of the Department ECE has Participated in Innovation Ambassador Training conducted BY MOEs Innovation & AICTE during 30th June and 30th July 2021



Journals/ Conferences/ Book Chapters

Dr Murgesan professor , ECE Department has published a Springer Journal titled “An Approach to Noisy synthetic color Image segmentation using unsupervised competitive self organizing map” in November 2021

Mrs.Gokula Spica Sujeetha Assistant professor ECE Department has published a Journal titled “Optimal Real node selection using MGA-ONS FOR WSN ” in September 2021

Chief Editor Message



“ECE CONNECT” is a demonstration of our dedication to outstanding quality and an acknowledgment of the remarkable abilities nurtured at our institution. It serves as a venue for exchanging insights, concepts, and motivation

**Assistant Professor
ECE Department**

EDITORIAL BOARD MEMBERS

**A Srinivas
Assistant Professor
ECE Department**

**Mr B Raju
Assistant professor
ECE Department**

**Sirinomula Sai Krishna
20X05A0437**

Enjoy your journey through this issue, and we hope it leaves you inspired and informed. Best wishes for delightful reading!

EDITORIAL Team