



ESTD. 1981

# Reflections

## ECE News Letter Maturi Venkata Subba Rao (MVSR) Engineering College

(Sponsored by Matrusri Education Society – ESTD: 1980)

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Dr. S.P. Venu Madhava Rao, HOD

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Department of Electronics and Communication Engineering of the college offers B.E. program in Electronics and Communication Engineering stream. The department also offers a postgraduate program M.E. (Embedded Systems & VLSID).

**Vision**

To impart technical education of highest standards in Electronics and Communication Engineering, producing technically competent engineers.

**Mission**

The department strives to provide the engineering foundation as well as professional, innovative and leadership skills to the students through the following activities:

- M1. To impart adequate fundamental knowledge in Electronics and Communication Engineering.
- M2. To maintain a creative balance of academic, professional and extracurricular activities.
- M3. To create climate conducive to excellent Teaching Learning Process with highest standards of Engineering and Technology.
- M4. To nurture creativity in students with excellent communication skills and teamwork.
- M5. To contribute to advancement in Electronics and Communication Engineering with educational collaborative efforts.
- M6. To make positive contribution to meet societal needs and promote the value of ethical behaviour.

**INSIDE THIS ISSUE:**

Journal/Conference papers by

Faculty

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Student Achievements

## 1. Department Highlights

- Total 68% of students placed in different companies through campus recruitment.
- Department organized A two-day National level student technical fest 'Technovanza 2021' on 24<sup>th</sup> and 25<sup>th</sup> April 2021.

## 2. Editor's Desk



**Dr.S.P.Venu Madhava Rao,  
Professor & HOD**

I congratulate the Editorial committee of ECE Department Newsletter for their untiring efforts in bringing out this volume of "REFLECTIONS" giving the details of activities and achievements of faculty and students of ECE Department for the year 2021. My pleasure in bringing out the editor's note on the activity which are compiled by the Editorial board.

I am happy to note that DRDO has awarded one consultancy project for execution at a cost of approximately 9.8 Lakhs. This gives tremendous confidence to the faculty in their capability. I am sure the faculty and staff put their maximum efforts for all round development of ECE Department. I congratulate Bade Satya Harika, Peri Priyanka, Beecha Sudeepthi, Rapolu Siva Prasad, Swapnil Kangralkar and YepuruRishika for getting OU Ranks 1<sup>st</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> & 9<sup>th</sup>. I wish the students of final year all success in their careers.

### **PROGRAM EDUCATIONAL OBJECTIVES**

Electronics and Communication Engineering is a broad discipline that incorporates skills and expertise in the areas which are essential to most sectors of Industry.

PEO1: Excel in comprehension of basic sciences and engineering facilitating professional accomplishments and/or pursue higher qualification with an appreciation to lifelong learning.

PEO2: Provide solutions to real time problems by designing, analyzing, demonstrating creativity and innovations to enable the development of State of Art equipment and technologies of multidisciplinary nature for societal requirements.

PEO3: Inculcate positive attitude, professional ethics, effective communication and interpersonal skills to succeed in chosen profession, as a team member and as a Team leader.

### PROGRAM SPECIFIC OUTCOMES

1. To design and investigate complex Electronics and communication systems for multi disciplinary tasks.
2. To use modern Electronic Design Automation (EDA) tools and state of art softwares to synthesize and implement Electronics and Communication Systems.

### Journal paper publications

S.No	Name of the Staff	Title of the Paper	Name of Journal	ISSN NO & P.P NO, Vol.& Issue	Month & Year	National / International
1	E.V. Naga Lakshmi	Design and analysis of reversible array divider using reversible gates	Compliance Engineering Journal	ISSN:0898-3577, PP-492-501, Vol-12, Issue-14.	April, 2021	International
2	Dr.S.P Venu Madhava Rao	Design of Encoder and Decoder Modules for BCH Codes with High Decoding Efficiency	Journal of Engineering Sciences	0377-9254	October, 2021	International
3	Dr.S.P Venu Madhava Rao	Data Leakage Combat and Security Enhancement in ASIC Applications	Journal of Engineering Sciences	0377-9254	October, 2021	International
4	Dr.B.Sarala	System Onchip implementation of pipelined based advanced encryption standard and rand shifter for secure memory	Journal of Engineering Sciences	ISSN:0377-9254, Vol-12, Issue-10, PP-134-141	October, 2021	International
5	Dr.B.Sarala	Implementation of pipelined based MAC using two speed Radix 4 serial parallel multiplier and SQRT carry select adder	Journal of Engineering Sciences	ISSN:0377-9254, Vol-12, Issue-10, PP-185-195	October, 2021	International

6	B. Bhavani	a 32-bit FPGA based true random number generator using programmable delays in oscillator rings	Journal of Engineering Sciences	ISSN:0377-9254, PP-92-97, Vol-12, Issue-10.	October, 2021	International
7	Smitashree Mohapatra	An Area Efficient Modular Adder Designs Based on Thermometer and One-Hot Coding	Journal of Engineering Sciences	ISSN:0377-9254, PP-142-148, Vol-12, Issue-10.	October, 2021	International
8	S.Ravi Kumar	An IOT and ML Based Covid-Safe System for Automated Health Monitoring and Surveillance	International journal of creative research thoughts	ISSN:2320-2882, PP-835-842, Vol-9, Issue-10.	October, 2021	International
9	S.SreeHari	Modified SRAM Based TCAM for High Search Performance by Error Detection and Correction on FPGA	Journal of Engineering Sciences	ISSN:0377-9254, PP-86-91, Vol-12, Issue-10.	October, 2021	International

### Conference Papers:

S.No	Name of the Faculty	Topic	Name of the Conference	ISBN number/ Volume No., Page No.	Date
1	G.Mahender	The effects of Generalized $k-\mu$ and $n-\mu$ fading distributions on ergodic channel capacity	International conference on Advanced computing & communication systems	978-1-6654-0520-1	19-03-2021 & 20-03-2021
2	Dr.K.Usha	Face Mask detection using feature extraction	Lecture notes on Data engineering and communication technologies	978-981-16-0081_46	May, 2021
3	V.SureshKumar , M .Sarath Chandra	Design and Implementation of Three Transistor SRAM Cell using 45nm CMOS Technology	Third International Conference on Intelligent Sustainable Systems [ICISS 2020]	978-1-7281-7089-3	June,2021

4	Dr.D.R.V.A.Sharath Kumar	CMOS phase detector and frequency detector power and delay estimation using nano dimensional MOS transistors	Fifth International Conference on Electronics, Communication and Aerospace Technology	978-1-6654-3523-9	Dec,2021
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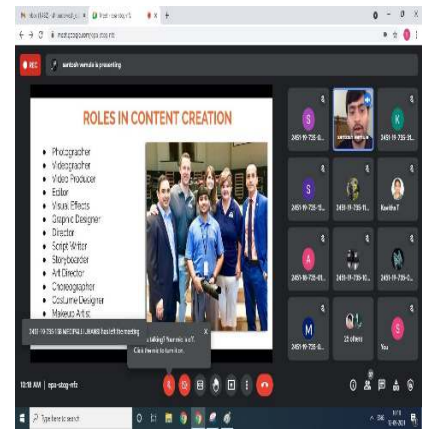
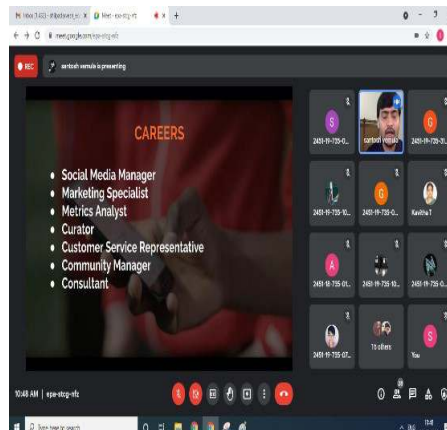
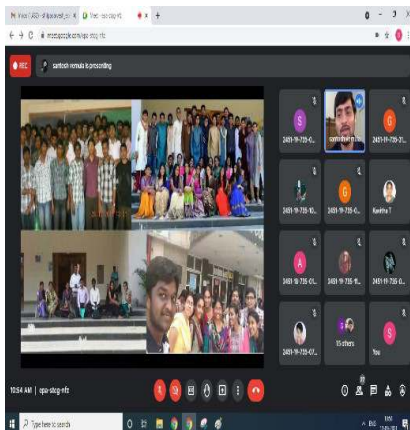
## EVENTS ORGANIZED BY THE DEPARTMENT:

### 1) Two day National level student technical fest (TECHNOVANZA 2021)

AANVIK 2K21 is an annual technical fest conducted by the Department on 24<sup>th</sup> and 25<sup>th</sup> April, 2021. It is a two day event comprising a number of technical, Robotic and fun events. Technovanza 2021 poster was released two weeks before the event by our college treasurer, principal and staff of the Department. In technical fest many technical events like Paper presentation, Poster presentation, Project Expo, Robotics, Wire-O-Thon etc. along with Fun events like Snake and Ladder. The Wire-O thon and Paper presentation events got huge response. Students from various colleges participated in all the events.

### 2) Department Updates on Guest lecturers / Training session / Seminars /FDPs/Workshops

- Department organized seminar on ‘A Guidance Program on Career Opportunities after B.Tech’ on 05-01-2021.
- Department organized Guest lecture on ‘Making Career in VLSI Functional Verification’ on 15-4-2021.
- Department organized Guest lecture on ‘AI Fundamentals’ on 14-2-2021
- Department organized Guest lecture on ‘Satellite Link Budget’ on 31-1-2021
- Department organized Faculty development program on ‘State of art technologies in industry’ on 12-09-21.





- Autonomous inspection successfully completed on 13-07-2021.



- Department organized a seminar on 'High Quality Rubrics' on 27-03-2021.
- In the department total 3 professors are eligible to guide Ph.D. work.
- Women's day celebrated on 8<sup>th</sup> March 2021.



## FACULTY UPDATES:

- . Mr. Nuli. Namassivaya has received Engineering Seva Ratna excellence Award - 2021 from Elder's Club International Foundation Hyderabad on 05-12-2021.
- . Fly. Offr. DVSR. Sesidhar received best covid campaign for the Coordination, formation and functioning of five student volunteer teams from Dept. of Higher Education, Ministry of Education Govt. of India in June 2021.
- . Ms. SVR. Manimala awarded Ph.D degree from JNTUA in the area of biomedical signal processing in July 2021

## STUDENT ACHIEVEMENTS:

### 1. OU Ranks

The following final year students of batch 2017-2021 secured OU ranks as stated below

Student name	Hall ticket number	OU rank
Bade Satya Harika	2451-17-735-128	1
Peri Priyanka	2451-17-735-001	4
BeechaSudeepthi	2451-17-735-045	5
Rapolu Siva Prasad	2451-17-735-070	6
Swapnil Kangralkar	2451-17-735-105	7
Yepuru Rishika	2451-17-735-134	9

### 2. Placement Record

year	No. of Companies Visited	No. Of Students Selected	Salary Per annum	
2021	30	133	CORE 14.95 Lakhs Max (CISCO)	IT 7.6 Lakhs Max (Deloit)



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