

## THIS ISSUE

*Brings you  
Awareness about  
Department activities  
Done by staff and  
students*



## ABOUT THE INSTITUTE:

Sagi Rama Krishnam Raju Engineering College (S.R.K.R Engineering College) is a co-educational, independent and a self-financed Engineering College. It is one of the oldest seminaries formed in 1980's by S.R.K.R. Engineering college Association provide to a better quality technical education to students. President Sri. S. Prasada Raju is carrying forward the vision of his father Late Sri Sagi Rama Krishnam Raju guiding the society on its path of excellence. The college is located with a science beauty in a 30 acres plot in Chinna -Amiram on Bhimavaram-Vijayawada state highway; just 2 miles from Bhimavaram town, that is well known A Second Bardoli and is famous for Pancaharamas (Somaramam). This college is affiliated to JNT University, Kakinada, recognized by AICTE, New Delhi. And Offers 6 UG Courses, 7 PG Courses and 5 Ph.D. Programs. Was accredited thrice by National Board of Accreditation (NBA). And accredited by the National Assessment and Accreditation Council (NAAC). Centre of Excellence namely Water and Environment Technology (WET) research centers and Geospatial Information Centre (GIC) are established.

## ENCENDER-2

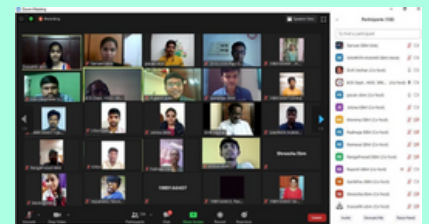
Date: 01/05/2021

Coordinator: Prof. D.V.R. Mohan, IETE Counsellor, Professor, Dept. of ECE

Beneficiaries: Students

Number of Participants: 133+

It is a IETE Student Forum online event. IETE Student Forum (ISF) of 3by4 ECE students under the event called "Encender" welcome the 1st and 2nd year students and give guidance regarding ISF activities, study of Engineering subjects, new technologies, higher studies, career etc.



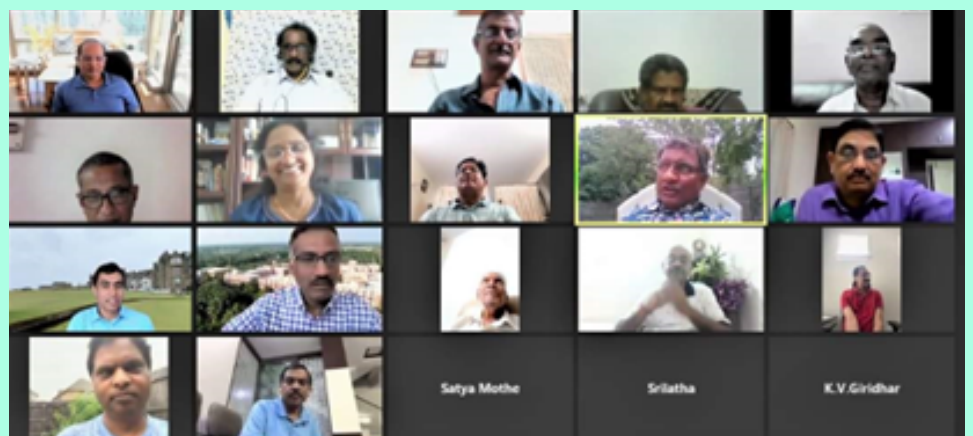
## AACHAARYADEVOBHAVA (ONLINE ALUMNI MEET)

Coordinator: Prof. D.V.R. Mohan, Professor, Dept. of ECE

Conducted by 1988 outgoing batch of ECE students.

Beneficiaries: Teachers and Students

Number of Participants: 40



# PRE-QUEST (2K21)

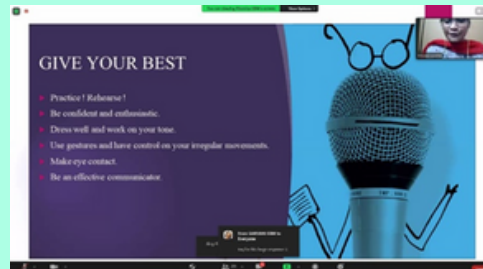
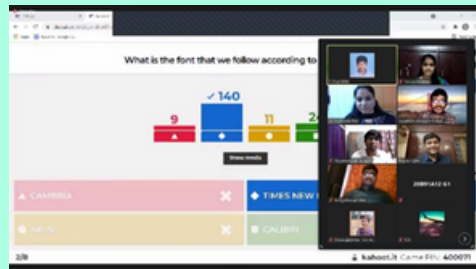
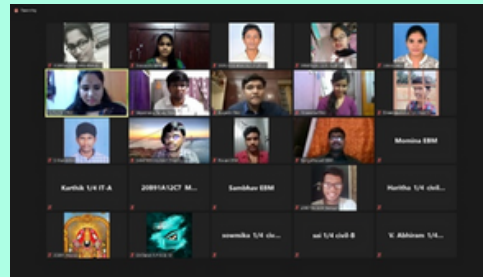
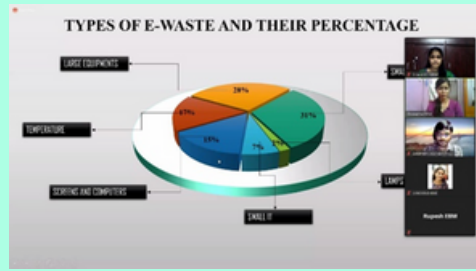
Date: 22/05/2021

Coordinator: Prof. D.V.R. Mohan, IETE Counsellor, Professor, Dept. of ECE

Beneficiaries: Students

Number of Participants: 410+

It is a IETE Student Forum online event. QUEST is a technical paper presentation contest conducted by ISF for 2nd & 3rd year students. They were given guidance regarding technical topic selection, preparation of slides, presentation skills, time management etc...in Pre-QUEST.



# CRACK THE DRIVE

Date: 20/06/2021

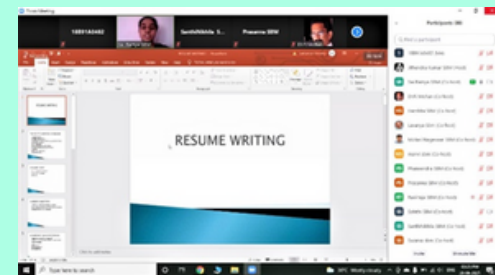
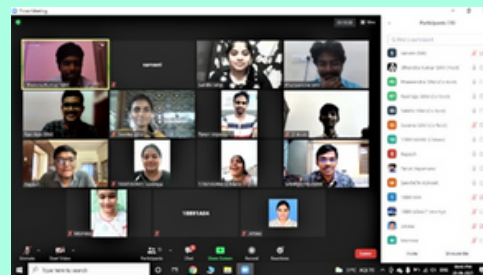
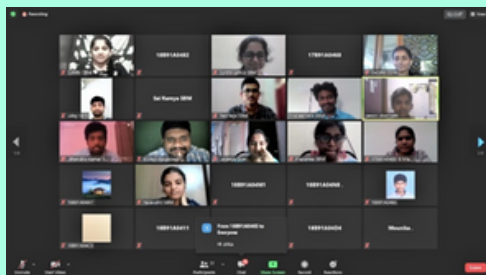
Coordinator: Prof. D.V.R. Mohan, IETE Counsellor, Professor, Dept. of ECE

Beneficiaries: Students

Number of Participants: 120+

It is a IETE Student Forum online event.

Aim of the Program: Final year students who got placement have guided their 3by4 students by giving their experiences in Written Tests and Interviews they faced. They have also given guidance regarding Resume preparation, Written tests and Interview preparation.



# QUEST (2K21)

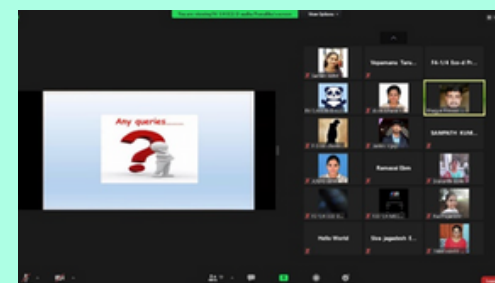
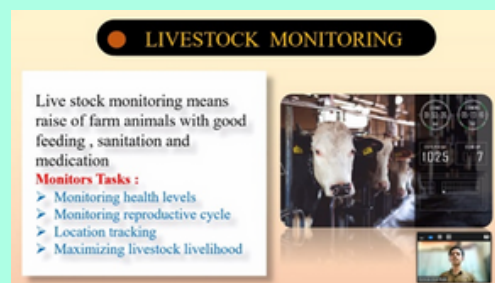
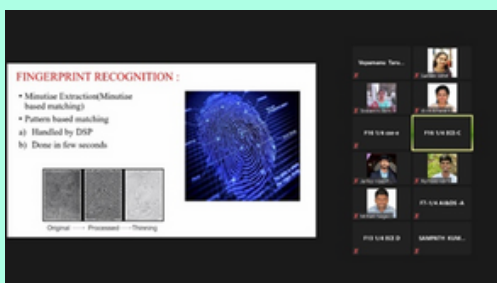
Date: 04/06/2021 to 06/06/2021

Coordinator: Prof. D.V.R. Mohan, IETE Counsellor, Professor, Dept. of ECE

Beneficiaries: Students

Number of Participants: 250

It is a IETE Student Forum online event. Under the QUEST event, the final technical paper presentation contest is conducted. All the participating students are divided into groups and the corresponding paper presentation sessions are conducted with faculty being the judges.



# DEPARTMENT VISION

Envision of diverse, stimulating and consistent academic research ambience for student community and shaping them into competent professionals in the field of Electronics and Communication Engineering and cater to the needs of society with a keen sense of environmental consciousness.

# DEPARTMENT MISSION

1. Educating the students with the state of the art technologies in ECE to meet the ever growing challenges of the industry.
2. Nurturing the spirit of innovation and creativity in the faculty and students in order for them to carry out research in collaboration with research organizations and industry.
3. Providing ethical and value based education that promotes activities pertaining to societal needs.

# NIPUNA - 21

Date: 25/06/2021 to 26/06/2021

Coordinator: Prof. P. Subba Rao, Faculty Advisor (ISTE), ISTE Students' Chapter (AP-10), Professor, Dept. of ECE.

Number of Participants: 55

It is a ISTE Student Forum online event. NIPUNA is a two-day national level Techno-management Symposium organized by SRKR ISTE. The theme of NIPUNA'19 is CHRONOMANCY. NIPUNA'19 was conducted on 25th and 26th JUNE. The inauguration was held on 25th JUNE and the inaugural was delivered by the Chief guest Mr. Madhav Talari is the Executive Director and Chief Enterprise Architect for NCR and the Guest of honor by Mr. D Shashi Dhar Reddy is the Manager Employee Relations - Infosys LTD.

The aim of providing a platform for the Indian student community to develop and showcase their technical prowess, it has now grown into AP's Largest technology and management symposium. The activities culminate in a grand two-day festival event in the campus of SRKR Bhimavaram which attracts people from all over the states, including students, academia, corporates and the general public.



## Doctorate from ECE

Date of Achievement: 02-08-2021

Sri G. Nagaraju, Assistant Professor in Dept of ECE, SRKREC, qualified for the award of the Degree of Doctor of Philosophy (Ph. D) in Electronics and Communication Engineering from the Faculty of Engineering of Koneru Lakshmaiah Education Foundation (KLEF), Deemed to be University, under the supervision of Dr. P. Pardhasaradhi, Professor, Department of ECE, KLEF. He completed his BTech from SRKR Engineering College, ME from Govt College of Engineering Pune, Pune University. His Ph. D thesis entitled "AN OPTIMIZED SECURE HYBRID WATERMARKING IN MEDICAL IMAGING". This work aims to improve security of medical data transmission based on a hybrid encryption algorithm to get a highly secure healthcare system. Main objective of this thesis is to secure patient's medical and personal information. With a new encrypting and embedding algorithms, hiding this information into any non-medical cover image is possible. Simulation results shows how the imperceptibility, robustness, security and embedding capacity in the image watermarking system are significantly improved. This model is very useful for diagnosis centers to secure their patient's data. After getting Patent for this model, it could be implemented in any diagnosis centers. Already process is going on. This is the 6th Doctorate in ECE department.



## ABOUT OUR DEPARTMENT

The department of ECE came in to existence in 1980 when the institute was established with an intake of 35 which was subsequently raised to 240 over a period of time. M.Tech course in Communication Systems was started in 2006. The department is presently offering 4 year B.Tech program in ECE, 2 year M.Tech in Communication Systems and Ph.D. program. The department has highly qualified, experienced and dedicated staff members. The department has dedicated technical and non teaching staff members. The department has good infrastructure facilities. The department was accredited thrice by National Board of Accreditation (NBA). The department has student chapters of professional bodies like IEEE, IETE and college level ISTE, which conduct various student technical activities. Students of ECE participate in National level technical paper and hardware competitions being organized at various other colleges and some of them are awarded with prizes. They have been obtaining good scores in GRE, TOEFL and CAT. Students are placed in companies like TCS, Polaris, CTS, IBM, Infosys, Texas Instruments, BSNL, BEL, ISRO and DRDO.

ECE department has been identified as research center by JNT University. The research center provides required facilities for carrying out research work for scholars. The department is associated with organizations like DRDO, NSTL, BEL, ISRO, BSNL, NRSA and RTTC. The department has MOUs with Vector India Pvt. Ltd., AMSYS Technologies, Innovation Communication Systems Ltd. and TCS for collaborative work and faculty improvement programs. Faculty published and presented about 175 research papers in technical journals and conferences.

# STUDENT WORKSHOP ON “INTRODUCTION TO MATLAB & ANALOG COMMUNICATIONS LAB HANDS-ON PRACTICE”

Date: 07/06/2021 to 12/06/2021

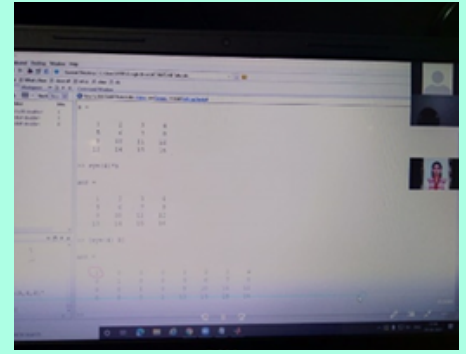
Faculty Coordinators & Instructors: Dr. BVSSN RAJU, HOD, Dept. of ECE, SRKREC, Bhimavaram

Prof. GVS. Padma Rao, Sri. P. KanakaRaju, Sri. T.V. Narayana, Sri. K. Venkat Rao, Smt. G. Prathima, Sri.V. Rama Krishna, Sri. K. Venkat Rao, Sri.Y.S.S. SriRamam, Sri. P.K.K. Varma

Beneficiaries: 2/4 ECE Students

Number of Participants: 200

ABOUT THE PROGRAM: Main aim of this program is to make students understand the main features of the MATLAB software development environment including Communications Toolbox functions, to enable their usage in higher learning. This will enable students to run simulations and export results for use in reports and presentations.



# A ONE WEEK ONLINE STUDENT DEVELOPMENT PROGRAM ON “FUNDAMENTALS OF VLSI DESIGN WITH SIMULATION”

Date: 12/07/2021 to 18/07/2021

COORDINATORS: Dr. BVSSN RAJU, HOD, Dept. of ECE, SRKREC, Dr. N. UDAYA KUMAR, Professor, Dept. of ECE, SRKREC.

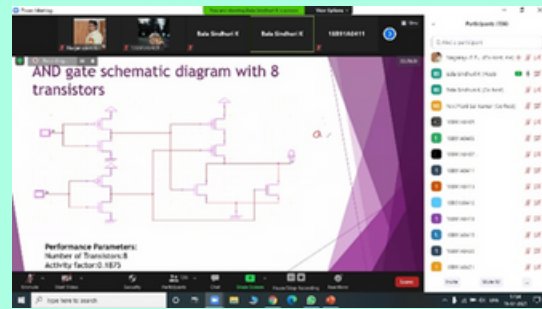
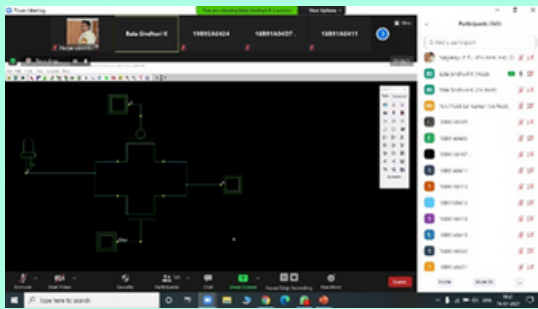
CO-COORDINATORS: Sri G. NAGA RAJU, Ms. K. BALA SINDHURI, Sri. K. YUGANDHAR, Sri. A. BHARGAV, Assistant Professor

ORGANIZING COMMITTEE: Sri. P. K. K. VARMA, Mrs. D.V. N. BHARATHI, Mrs. V. NAGA VALLI, Mrs. K.L. DIVYA, Sri N. PHANI SAI KUMAR, Assistant Professor

Beneficiaries: ¾ ECE Students

Number of Participants: 200

ABOUT THE PROGRAM: VLSI design is the one of the core subjects for Electronics and Communication Engineering Students. This program is intended to get awareness on optimization techniques of digital logic circuits. Students get exposure on Xilinx Vivado Design Tool. This program helps to design basic digital schematic circuits at transistor level. This program is very useful particularly for 3/4 ECE students. This program helps to carry out project work in VLSI domain.



## Doctorate from ECE

SRKREC proudly declares the 7th Doctorate and first woman Doctorate in the Dept. of ECE with Dr. T V Hyma Lakshmi getting awarded Ph.D degree on 18th Aug 2021 from Koneru Lakshmaiah Education Foundation (KLEF) for her work titled High Performance Models for Resolution and Contrast Enhancement of Satellite Images. Sri S V Ranga Raju, Secretary & Correspondent, and Prof. M Jagapathi Raju, Principal, Prof. Satyanarayana Raju, HOD, Dept. of ECE, congratulated her and appreciated her for her perseverance and passion towards research. Dr. Hyma Lakshmi worked under the guidance of Dr. T Madhu, Bhimavaram, and Prof. K Ch Srikavya, Dept. of E.C.E., KLEF, and her work bolsters the Military and Defence Services. She published free SCI, Scopus, Book chapters in various International journals.



“INTELLIGENCE PLUS CHARACTER – THAT IS THE GOAL OF TRUE EDUCATION.”

—MARTIN LUTHER KING JR.



