Message by Academic Director

Dear Faculty Members!

Hope all of you and your family members are in good health and safe places.

As this has been an unforeseen long vacation, you have to spend your time meaningfully. Your duty towards students

1. As a counselor or teacher contact your students once in every four days, remind them and motivate them towards better usage of time.
2. If they require any assistance like doubts, scheduling of works try to do it at the earliest.
3. If they need any material send your notes through online, encourage them towards self learning mode.

Your duty towards your career growth:

1. Work on writing research papers at-least two during this long vacation.
2. Work on NPTEL courses or in emerging areas like AI, Machine Learning, I oT etc.
3. Prepare the lecture notes for the next semester

Dear Students!

Hope you and your family members are healthy & safe, taking all the preventive steps to avoid the spread of COVID-19. As this is a long vacation, you can use your time meaningfully and purposefully. You can convert this disadvantage to an advantage.

If you have any backlogs try to work on those subjects by following steps.

1. Make out a self schedule allotting at-least 5 to 6 days for each subject.
2. Study at-least one unit every day.
3. Write important concepts, equations, and definitions to keep your concentration for long duration.
4. At the end of the completion of units recollect the same by closing your books.
   All this takes minimum of 5 to 6 hours a day and rest of the time you may enjoy with your family members, T.V and social media.

Those students do not have backlogs (Advanced Learners)

To be ahead in the competition bracing for better career opportunities, try to work on the following:

1. Improve your coding skills by entering into Hackathon ranking or working on that.
2. Workout at least on one course from NPTEL or Coursera where you will be awarded monitory incentive on one hand or the chain-edge for placements.

If you don't have a text book with you, download one or contact your teacher, so that they will send their notes to your mobile.

Hope you understand this with all positive spirit and this is the mode of the self learning.
With best wishes....

Prof. A. Sesha Rao

Vission

To emerge as a center of excellence in and allied streams of electronics & communication engineering to produce competent women engineers with ethical values

Mission

To provide quality education through effective teaching - learning process, Laboratory skills and value added courses;

To make the students employable in diversified fields and promote research initiatives through continuous industry interaction and skill development programs;

To train the students to be successful leaders and innovators capable of meeting technological challenges through extra and co-curricular activities;

To provide value based education by promoting activities addressing the societal needs.

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Message by Principal

The world is going through tough times with the outbreak COVID-19 pandemic. As we are under lockdown to control the spread of virus, everyone should stay safe at home. Ensure social distancing, avoid touching face, washing hands periodically, wearing mask are necessary. All should use this time for productive work. I am happy that all the Departments are in full swing with digital teaching and learning. Wishing you all the best.

Dr. B. Prakash

Message by Head of the Department

As concerns for COVID-19 continue to rise, we are all confined to our homes undertaking teaching and learning activities from remote. We are reaching out to students through online classes. The Department has conducted online essay competitions and poster presentation on COVID_19. Virtual tool workshop on Tinker CAD has been organized successfully for 180 students. Our focus is to ensure the safety of all students & staff and continue to learn and teach educate through online. Some of these activities find mention in this news letter for your eyes.

Dr. Ch. Ramesh Babu

Congratulation to Ph.D Awardees : Dr. P. Sudhakar, Dr. Ch. Ramesh Babu

FACULTY SPHERE

FDPs & Short Term Courses Attended by ECE Faculty during April-May-June 2020

- ❖ 14 faculty members of ECE did courses on *Image and Embedded Processing, Technological Interventions Using Wireless Communication, Research Trends in VLSI Design, Programming Using MATLAB, Applications of IoT conducted by* NITTR Chandigarh.
- ❖ 12 faculty members of ECE did courses on *Applied ML and DL, Embedded Systems, IoT* conducted by APSSDC during April- June 2020.
- ❖ 17 faculty members of ECE attended an FDP on *Embedded System & IoT Applications, Artificial Intelligence* conducted by the Departments of ECE, CSE & IT, VIEW.
- ❖ 10 faculty members of ECE did courses on *Remote Sensing in Crop Monitoring and Assessment, Basics of SAR Remote Sensing, Machine Learning for Remote Sensing Data Classification, Remote Sensing & GIS Technology and Applications* conducted by Indian Institute of Remote Sensing, Mumbai.
- ❖ 12 faculty members of ECE did courses on *Introduction to Programming in MATLAB, Industrial IoT on Google Cloud Platform, Introduction to Cloud Identity Getting Started with AWS Machine Learning, How to Write and Publish a Scientific Paper, Computer Vision Basics* conducted by Coursera.
- ❖ 7 faculty members of ECE attended an FDP on *Introduction to Internet of Things* conducted by Stanford University.
- ❖ 7 faculty members of ECE attended an FDP on *Image Processing and Computer Vision* by the Dept. of ECE, ANITS Visakhapatnam.
- ❖ 3 faculty members of ECE attended an FDP on *Basics of PLC* conducted by APSSDC Siemens.
- ❖ Two faculty members of ECE attended an FDP on *Artificial Intelligence* conducted ATAL Academy.
- ❖ One faculty member of ECE attended an FDP on *Innovation Opportunities in Emerging Electronics and Communication* conducted by DVR and Dr HS MIC College of Technology.
- ❖ One faculty member of ECE attended for *Wagon R Series on Remote Sensing and Crop Monitoring and Assessment* conducted by MGIT.
- ❖ One faculty member of ECE attended an FDP on *Cyber Security* conducted by NIT Warangal
- ❖ One faculty member of ECE attended an FDP on *Machine Learning Using Python* conducted by AICTE skyfilabs.
- ❖ One faculty member of ECE attended an FDP on *Artificial Intelligence and Machine Learning through Case Studies* conducted by Raghu Institute of Technology.
- ❖ One faculty member of ECE did a course on *Introduction to IoT and Introduction to AI* conducted by simplilearn.
- ❖ One faculty member of ECE did a course on *Research Challenges and Opportunities Post Covid-19 and Research Trends in Speech Processing, VLSI, Antenna, IoT* conducted by Sri Vasavi Engineering College.
- ❖ One faculty member of ECE did a course on *Modern Trends in Electrical Devices* conducted by NIT Nagpur.
- ❖ One faculty member of ECE attended an FDP on *Cutting Edge Technologies for Electrical Engineering* conducted by Andhra Loyola Institute of Engineering and Technology.
- ❖ One faculty member of ECE attended an FDP on *Introduction to IoT* conducted by Ilearn.
- ❖ One faculty member of ECE attended an FDP on *Principles on Modern Radar* conducted by rice Krishna Group of Institutions.
- ❖ One faculty member of ECE attended an FDP on *Python for Beginners* conducted by ICT IIT Roorkee.
- ❖ One faculty member of ECE attended an FDP on *Introduction to Python Programming, Arduino Workshop Step-by-Step How to Guide* conducted by Udemy.
- ❖ One faculty member of ECE attended an FDP on *Python 3.4.3* conducted by Vagdevi College of Engineering in Association with IIT Bombay.
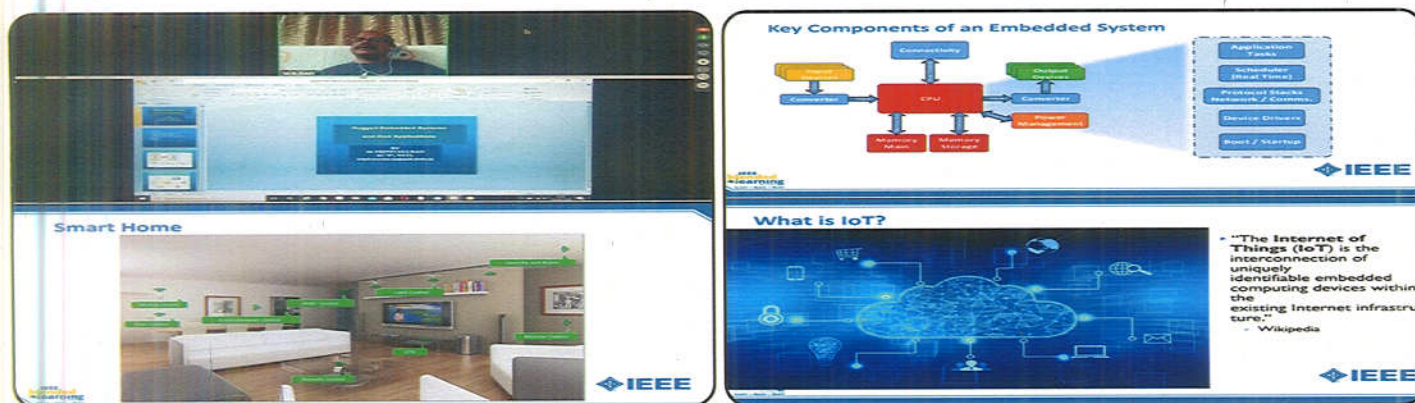
Published Papers by Faculty:

- ☞ **Mr. B. Sai Bharadwaj** Asst. Prof., published a paper on *"Cardiac Telemetry Monitoring of Sensor Based Pulse Oximeter"* in Test Engineering & Management (WOS) Vol.83, pp: 14271-14277 April 2020.
- ☞ **Mr. B. Sai Bharadwaj** Asst. Prof., published a paper on *"Detection of Third Heart Sound Using Intrinsic Time Scale Decomposition"* in International Journal of Grid & Distributed Computing (WOS), Vol.13, issue:1, pp:568-576 April 2020.
- ☞ **Mrs. T. Sandhya Kumari** Assoc. Prof., published a paper on *"Adaptive Window Based Fractal Dimension Estimation of Weight Maps in Contrast Improved Multi Sensor Fusion"*, in Journal of Engineering Science & Technology, Vol.15, pp: 1317-1337, Apr 2020.
- ☞ **Mr. G.Lakshmana** Asst. Prof., published a paper on *"Automatic LPG Cylinder Leakage Detection and System Using Arduino"* in IRJET (UGC), Vol-7, Issue-4 April 2020.
- ☞ **Mr.D.A.Tatajee** Asst. Prof., published a paper on *"Common Fixed Point Theorems of Gerghty Type Contraction Maps for Digital Metric Spaces"* in IRERA (UGC), Vol-10, issue-3, Apr 2020.
- ☞ **Mrs. Ch. Padmavani** Asst. Prof., published a paper on *"Investigation on Split Ring Resonator for GPR Antenna"* in IJAST, Vol-29, no.9s, pp: 3129-3138, May 2020.
- ☞ **Mrs. T. Sandhya Kumari** Assoc. Prof., published a paper on *"Performance Comparison of Image Enhancement Techniques"* in Journal of engineering sciences, Vol-11, no.6, June 2020.

FDP Conducted by the Dept of ECE

A **Three-day online FDP** on **"Embedded and IoT applications"** was organized by **Mr.Ch.Ramesh Babu, Mrs.T.Sandhya Kumari**, Dept. of ECE in association with **Embedded Systems Solutions Pvt Ltd (ESS) Bangalore** for the faculty of Engineering colleges of Andhra Pradesh and Telengana states from 4th -6th June, 2020. **Dr. B. Seetha Ramanjaneyulu**, Prof., Vignan University, **Mr. M. Srinivasa Rao**, Scientist-F, NSTL and **Mr. Gautham Sriprakash**, Product Manager, IEEE-Blended Learning Program are the resource persons for this program. 124 faculty from ECE, CSE, IT & EEE streams actively participated in the programme.

Faculty Achievements

Congratulations Ph. D Awardees

Mr. Ch. Ramesh Babu, Assoc. Professor for his work for his Doctoral Dissertation with thesis title *"A Novel Architecture for the Realization of IoT Enabled ECG Signal Quality Assessment Using Hilbert Vibration Decomposition"*, 26th June , 2020 from GITAM University.

Mr. P. Sudhakar, Asst. Professor for his work for his Doctoral Dissertation with thesis title *"Adaptive Residual Gaussian Weighted Unscented Particle Filter for Tracking"*, 27th June, 2020 from GITAM University

Emotional Balance during Lockdown…Some thoughts.

The sudden and sharp rise of pandemic COVID-19 has been upsetting our living and lives very painfully. The whole world is under isolation in contrast to the pre-COVID context. Staying in isolation has got its own pitfalls and benefits. I feel the age group of 18 to 24 faces this kind of mental illness and anxiety. Self control and disciplined way of living is the need of the hour. Normally when we are with people our mental state will be different. When we are single, our thinking will be different; due to loneliness some may succumb to depression. When isolated most of them were addicted to mobiles without having an idea of how extensively they consume our time. This may lead to unwanted discomfort and anxiety with their entry into social networking sites. Restraining oneself from anxiety and balancing our emotional well being is more important during lockdown. In order to keep in control of yourself, start engaging yourself in emotionally and physically satisfactory work. Like gardening, growing plants at home, getting closer with the nature, enjoying sunrise and sunset which lets you drive into happiness. Start reading some interesting books and admire something that makes you interested in doing in a positive and practical work. Try your hand at cooking. Bring your art into play with sketches and painting. Everything is in our hands, we should inscribe our own story no else will write, so keep yourself from restraining anxiety and mental health during the isolation period. Self-love is more important to fight this battle period.

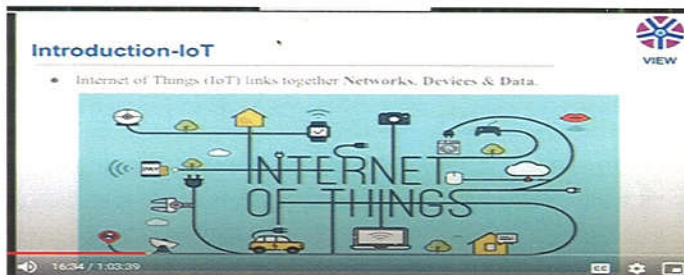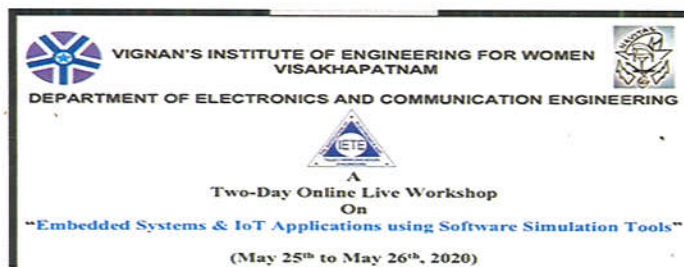## Hearty Welcome to newly joined faculty
Mr.Sk.Ahmed Ali on 15th June 2020

ARENA @ STUDENTS

A Two Day Online Workshop on Embedded systems

A two-day online Workshop was organized on "**Embedded & IoT Applications Using Software Simulation Tools**" by the ECE Association NAVITAS 2020, VIGNANS INSTITUTE OF ENGINEERING FOR WOMEN under IETE VIEW STUDENT CHAPTER on 25th & 26th May 2020. **Mr. Ch. Ramesh Babu, HoD-ECE** gave a presentation on applications of Internet of Things(IoT) and their use in Sanitizer applications in Embedded Systems during COVID-19. **Mr. B. SashiKanth Assistant Professor, ECE,** presented his view on Real time Applications of **Embedded Systems** and **Internet of Things (IoT)** using software simulation tools like Tinkercad and Keil Software. He highlighted the opportunities of self-employment in different sectors for women and provided them with fundamental knowledge of Embedded Systems Engineering. He encouraged the students to develop self-confidence by being aware of the day-to-day advances in technologies using different software applications.

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
VISAKHAPATNAM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A
Two-Day Online Live Workshop
On
"Embedded Systems & IoT Applications using Software Simulation Tools"

(May 25th to May 26th, 2020)

Webinar Conducted

One day online webinar on *Polarimetric Synthetic Aperture Radar Concepts* was conducted by **Dr. K.V. Ramana Rao**, Assoc. Prof., Dept. of ECE for 3rd year ECE students on 12th June 2020. 154 students attended the webinar.

A Two Day Online Workshop on Embedded systems

A Two Day Workshop on *Embedded Sytems and IoT Applications Using TINKER CAD Tool* for 2nd year ECE students Conducted by CH.Ramesh Babu, HOD-ECE, D.Tilak Raju, Asst.Prof.,K.Sunil Kumar Asst.Prof. & D.A.Tatajee Asst.Prof. on 12th and 13th June 2020

Virtual poster and essay competition on COVID-19

In the present global pandemic of **COVID-19**, the students have to remain at home in isolation. An attempt by the **ECE department association (NAVITAS)** utilized this lockdown period in a meaningful day. The **ECE Department** conducted a "**virtual poster and essay competition on COVID-19 spread**" under **IETE VIEW STUDENT CHAPTER**.

COVID-19 Essay Writing Competition Winners:

B.M.V.Chandana
1st prize - III ECE –A

Ch.Parimala
2nd prize –III ECE-A

K. Priyanka
3rd prize - III ECE-B

COVID-19 Poster Presentation Winners

K.Shivani
1st prize - II ECE-A

V.Uday Vardhni
2nd prize - II ECE-A

ECE STUDENT PARTICIPATION IN ONLINE COURSES

✓ APSSDC Conducted a Two Week Workshop on Advanced courses like *Embedded Systems and Internet of Things* for the students of ECE from **01.06.2020 to 13.06.2020**.

✓ 93 students Completed the online course on **Embedded systems & 108 students registered for IOT course**

✓ Nearly 180 students of ECE have completed **NPTEL** course *Internet of Things*.

VIGNAN'S
INSTITUTE OF ENGINEERING FOR WOMEN
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