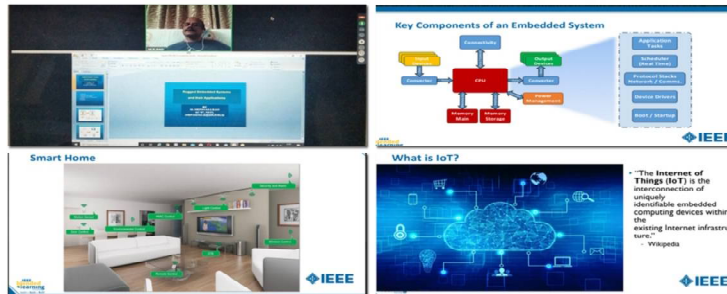


FDP Conducted by the Dept of ECE

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 Telangana 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.



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 Systems 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:



COVID-19 Poster Presentation Winners



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*.

VISION

To be a leading institution of women empowerment producing internationally accepted professionals with psychological strength, emotional balance and ethical values

MISSION

- M1: To empower women engineers through innovative teaching-learning practices.
- M2: To encourage for higher education and research with well-equipped laboratories.
- M3: To promote entrepreneurship through creativity and innovation.
- M4: To promote environmental sustainability and inculcate ethical, emotional and social consciousness.

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AWARENESS PROGRAM ON PERSONAL HYGIENE MARCH14, 2020



From the Principal's Desk:

Dear Friends! The worst fears have been confirmed! India is in the midst battling the pandemic that has enveloped the world over. We have shifted ourselves into online mode of teaching. It has been a learning experience for the students as well. We are trying to try new ways of handling the class through zoom and teams. Stay safe.

Dr. B. Prakash

Message by Academic Director:

I am satisfied that the teaching and student community has adapted well to the online environment of learning and teaching. We have to be extra cautious for a while as the pandemic is on the rising curve. With best wishes!

Prof. A. Sesha Rao



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, IoT 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 monetary 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

ECE

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 Gerghy 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.

IT

Publications by Faculty

Dr. Prakash Bethapudi:

1. Automatic Solar Tracker, *International Journal of Creative Research Thoughts*, Volume 8, Issue 5, May 2020, PP 642-650 (UGC, Thomson Reuters), <https://orcid.org/0000-0002-1709-5208>
2. Wireless Smart Wheelchair, *International Journal of Creative Research Thoughts*, Volume 8, Issue 5, May 2020, PP 1042-1050 (UGC, Thomson Reuters), <https://orcid.org/0000-0002-1709-5208>
3. Interactive Assistant Using Face Recognition, *International Journal of Creative Research Thoughts*, Volume 8, Issue 5, May 2020, PP 1123-1128 (UGC, Thomson Reuters), <https://orcid.org/0000-0002-1709-5208>

Mr. Mohan Ganesh:

1. Mr. Mohan Ganesh has published a paper on “Hepatic Diseases prediction using Machine Learning” in “*Journal of Emerging Technologies and Innovative Research [JETIR]*”, 2349-5162, Vol. 7 Issue 5, 2020
2. Leaf diseases detection and suggesting pesticides using conventional neural network, “*International Journal for Technological research in Engineering*”, 2347-4718, vol 7 issue 9, 2020
3. Vehicle Speed Detection and Accident Rescue System in “*International Journal of Creative Research thoughts*”, 2320-2882, Vol. 10 Issue. 10, 2020

Mr. Ajay Kumar Badhan:

1. Evolution of Human –Computer Interaction to Presume Human Disposition Feature in Human-Robot Social Communication in *Journal of Xidian University*, 1001-2400, Vol. 14, Issue 5, 2020.
2. Enthusiastic Knowledge or man-made brainpower – Emotional Intelligence in *Journal of Xidian University*, 1001-2400, Vol. 14, Issue 5, 2020.

3. Currency Counting for Visually impaired through voice using Image Processing in “*International Journal of Engineering Research & Technology (IJERT)*”, 2278-0181, Vol. 9 Issue 05, 2020

Y. Laxmana Rao:

1. Mr. Y. Laxmana Rao has published a paper on “Leaf diseases detection and suggesting pesticides using conventional neural network”, “*International Journal for Technological research in Engineering*”, 2347-4718, vol 7 issue 9, 2020
2. Self operating railway level crossing system using IoT in “*International Journal for Scientific Research and Development*”, 2321-0613 Vol.8 Issue 3, 2020
3. “Hepatic Diseases prediction using Machine Learning” in “*Journal of Emerging Technologies and Innovative Research [JETIR]*”, 2349-5162, Vol. 7 Issue 5, 2020

Ch. Rama Suri:

1. Sign Language recognition and speech conversion using Raspberry PI in “*International Journal of Creative Research thoughts [IJCRT]*”, 2320-2882, Vol. 8, Issue. 5, 2020
2. Voice Based Smart Navigation System for Blind people in “*International Journal of Creative Research thoughts [IJCRT]*”, 2320-2882, Vol. 8, Issue. 5, 2020

Mrs. Vanitha Sri

1. **Text Recognition on Various Product Labels for Visually Impaired People**, in *International Journal of creative Research Thoughts*, Volume 8, Issue 5, May 2020

Mr. Netaji Gandhi:

1. Mr. Netaji Gandhi has published a paper entitled “Automatic Ferrule Concealment for BoreWell” in “*International Journal of Current Engineering and Scientific Research [IJCESR]*”, 2394-8374, Vol. 7, Issue 5, 2020.

EEE

Dr.K.DurgaSyam Prasad published a paper on Identification and classification of faults by S-transforms and wavelet entropy algorithm on Transmission line TEST Engineering and Management Vol 83 Scopus ISSN 0193-4120 May-June 2020

Dr. Akanksha Mishra published a paper on Recent advancements in the Power Electronics Technology Used in Electric Vehicles TEST Engineering and Management Vol 83 Scopus ISSN 0193-4120 May-June 2020

Ms. T. Sushma published a paper on Recognition of Power Quality disturbances utilizing wavelet Transform MukthShabd Journal Vol 9, Issue 5 UGC ISSN 2347-3150 May 2020

Ms. V. V. Sai Santoshi published a paper on Dynamic Modeling and Simulation of Electric Vehicles IJREAN Vol 6, Issue 2 UGC ISSN 2454-9150 May 2020

Mr. B.Naidu published a paper on Dynamic Model of Micro Turbine Generation System for Grid connected / Islanding Operation and Reduction of Harmonics in MTG System IARJSET Vol. 7, Issue 4 Google Scholar ISSN 2393-8021

MECH

Bhaumik, M. & Maity, K. P. (2020). Finite element simulation and experimental investigation of Ti-5Al-2.5Sn titanium alloy during EDM process. *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2020.05.135>.

Nagendrababu, M., Gopi, K. P., Gandhi, R. K. & Kuriti, R. (2020). Implementation strategy of mean and fuzzy filters in removing Gaussian noise from images. *Journal of Critical Reviews*, 7(14), 566-570. <http://dx.doi.org/10.31838/jcr.07.14.99>.

Nagendrababu, M., Swathi B. & Srikanth S.K.D. (2020). Transient analysis and optimization of annular elliptical fins with mixed boundary condition, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 10(3), 2975–2984.

Muddineni N., Dhanunjay K. A., Suresh Ch. & Pakanati A. K. (2020). Optimization of Productivity of seats using time study and assembly line balancing. *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 10(3), 3829–3838.

Satya Prasad S.V., Kumari P. P., Pradeep A.V., Vahini K. & Kiranmayi P. (2020). Optimization and comparative study of the turning parameters of DCT tool in the machining of commercial steel. *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 10(3), 3999–4012.

Ramana R. K.V., Nagendrababu M., Velanginisarat P. & Kallempudi V. (2020). Implementation strategy to minimise the speckle noise from polarimetric SAR data. *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 10(3), 5455–5466.

Kallempudi V., Kesava D., Ramesh N., Pradeep A. V. & Satya Prasad S. V. (2020). Experimental investigation on pitting corrosion resistance through nano coatings. *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 10(3), 5693–5704.

Suresh, C., Raju, A.N., Ravikiran, M. (2020). Design and Manufacture of 3D Model by using ArtCAM. *International Journal for Innovative Engineering and management Research*, 9(4), 177-181.

Suryam, L.V., Deepika, P.V., Keerthana, C. S., Deepthi, K., Chandrakala, C. (2020). Influence of Pre and Post Heating Conditions in Welding of AA6061 and AA6063 Alloys Using RSM. *International Journal of Advanced Science and Technology*, 29(5), 9688-9705.

Suryam, L. V., & Balakrishna, B. (2020). Inverse kinematic analysis of 5-axis hybrid parallel kinematic machine using CAD and regression analysis approach. *International Journal of Computer Aided Engineering and Technology*, 13(4), 475-507.

- Dr. T. Radhakrishna Murty published a paper on Presidential Moorings – The Morning of A Vision in *International Journal of Multidisciplinary Educational Research* Volume 9, Issue 6(5) June 2020
- Dr. T. Radhakrishna Murty published a paper on The Text of A President in The Context of Education in *International Journal of Multidisciplinary Educational Research* Volume 9, Issue 6(6) June 2020
- Dr. K.P Sushashini published a paper on Green synthetic approach to 1,7-bis(substituted phenyl) 1,6-heptadene -3,5-diones. *Journal of Information and Computational Science* Volume 10 Issue 3 April 2020 DOI:10.12733/JICS.2020.V113.535569.15601D
- Dr.R.S.S Srikanth Vemuri published a paper on Effect of Cetylammmonium bromide micelles on decolouration of rosaniline hydrochloride by periodate:Experimental and theoretical approach. *Journal of Indian Chemical Society* Vol.97, June 2020, pp.871-877 June 2020
- Dr. Chandra Sekhar Beera published a paper on Enhanced dielectric and magnetic properties in Mn-doped bismuth ferrite multiferroic nanoceramics in *Applied Physics A* (2020) 126:557 <https://doi.org/10.1007/s00339-020-03745-6>
- Dr. K. Jyostna published a paper on Cost and revenue analysis of an impatient customer queue with second optional service and working vacations *Communications in Statistics - Simulation and Computation* ISSN: 0361-0918 (Print) 1532-4141 (Online) 2020 DOI: 10.1080/03610918.2020.1752378