



చెల్లి ...నీ నవ్వు భారను కూడా నవ్వించాలి.
నీ జీవితం దాపుని కూడా బ్రతికించాలి.
నీ విజయపాఠాభినవకవన చూసి,
నీ ప్రేమ ఎంతటి విరోధాన్నెలా తొలగించాలి,
ఈ అన్నమనసులో వెలుగులా ఎప్పటికీ బ్రతికివుంటాలి.

Sujatha
III EEE



"Your x-ray showed a broken rib, but we fixed it with Photoshop."



Humor
is a universal
language

Sujatha
III EEE

VISION

To be a center of excellence for producing proficient and socially responsible women electrical engineers for industry outreach through quality education and research

MISSION

M1: To empower the students with skills in current trends through effective teaching- learning process for professional growth. M2: To foster an eco-system for higher education and research in Electrical Engineering through constant industry interaction. M3: To facilitate practical expertise in enterprise development and energy environment by promoting innovation and social consciousness.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to
PEO1: Possess strong educational foundation in Electrical Engineering for making successful careers in core and allied industry.
PEO2: Develop solutions for realistic problems in the society through innovation and lifelong learning.
PEO3: Exhibit communication skills, leadership qualities, social and environmental responsibility, ethical values in successful career.

WHAT'S INSIDE

- Faculty Portal
- Students' Corner
- Fun & Facts

KEY DATES

- 17-02-2021

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Message by Academic Director:

This COVID 19 Pandemic has been an unprecedented situation testing our endurance, determination and dedication to our life. This year has come to an end with a mixed bag of achievements and failures but teaching us important lessons in life.

Prof. A. Seshu Rao

From the Principal's Desk:

The faculty and students of this Institution worked remarkably during the past few months through challenging times with their talent and hard work bringing amazing outcomes.

Dr. J. Sudhakar, Principal



Thoughts from the Head of the Department :

Work is worship. Do the work with passion, dedication and like worship but not due to force or compulsion, you will love and enjoy the work. Wishing you all the very best.

Dr. K. Durga Syam Prasad, HoD, EEE

Bulletin

Wireless transfer of electricity

The wireless transfer of electricity was invented in the USA at the Massachusetts Institute of Technology. Behind this invention were Professor Marin Soljatic and his team. This technology allows electricity to be transmitted over distances through the air, wood, granite, plastic, and grass. Although still in its primitive stages, a lot of its application has been seen in 2020. Most electronic companies could leverage wireless transfer of electricity in making wireless charging devices for smartphones, laptops, and earphones. Car manufacturers, including Toyota, Thoratec, and Intel, also licensed this technology in their electric vehicles & wearable devices.



ELECTRICITY IS PRESENT IN
OUR BODIES – OUR NERVE
CELLS USE IT TO PASS SIGNALS
TO OUR MUSCLES.



1. The bearings used to support the rotor shafts are generally
- ball bearings
 - bush bearings
 - magnetic bearings
 - needle bearings
2. In a four-pole D.C. machine
- all the four poles are north poles
 - alternate poles are north and south
 - all the four poles are south poles
 - two north poles follow two south poles

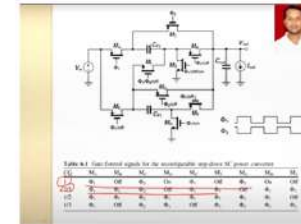
Answers: 1.a 2.b

"Life is what happens when you're busy making other plans."



VIGNAN'S
INSTITUTE OF ENGINEERING FOR WOMEN

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TECH
news

Charge Pump parameters

$$\eta = \frac{P_{out}}{P_{in}} \times 100\% = \frac{P_{out}}{P_{in} + P_{sw}} \times 100\%$$

conversion gain (CG)

$$CG = \frac{V_{out}}{V_{in}}$$

Line Regulation = $\left(\frac{\Delta V_{out}}{\Delta V_{in}}\right)_{I_{out} = const.} \left(\frac{mV}{V}\right)$

Load Regulation = $\left(\frac{\Delta V_{out}}{\Delta I_{out}}\right)_{V_{in} = const.} \left(\frac{mV}{A}\right)$

To give the insight into Power Electronics and Drives , Our department has conducted a webinar on Power Electronics and Drives Dr. P. Devendra, Associate Professor, GVP College of Engineering for Women on 14th April 2021.

The facilitator gave an overview of power electronic converters and intelligent control in power electronics and drives. Also, explained fault-tolerant control strategies in power electronic converters and drives. The members who attended gained ideas on the importance of the Application of the Control techniques in Power Electronics and Drives to develop real-time projects. They also interacted with the facilitator and achieved knowledge on industrial drives, renewable energy systems and smart grid technologies.

Faculty Development Programmes/Workshops attended:

- Mr.P.V.Sarath, Asst Prof attended FDP on “Recent Trends in Control System Engineering (ReTreCSE).” at NIT, Patna from 31.05.2021 to 06.06.2021.
- Dr. K.Durga Syam Prasad, Assoc Prof attended FDP on “Technologies for Electrical Systems.” at Andhra Loyola College, Vijayawada from 29.06.2021 to 01.07.2021.
- Dr.Akanksha Mishra, Prof attended FDP on “Embedded systems and IoT Applications.” at Vignan’s Institute of Engineering for Women from 04.06.2021to 06.06.2021.
- Mr.V.Avinash, Asst Prof attended FDP on “Advancement in Data Analytics Using Informatica.” at Vignan’s Institute of Engineering for Women from 21.06.2021to 25.06.2021.
- Ms.V.V.Sai Santoshi, attended FDP on “Inculcating Universal Human Values in Technical Education.” Of AICTE from 14.06.2021 to 18.06.2021.
- Mrs.T.Sushma, Asst Prof attended FDP on “ Multi Technology.” at Vignan’s Institute of Engineering for Women from 28.06.2021to 03.07.2021.
- Ms.S.Kezia ,Asst Prof attended FDP on “ Multi Technology.” at Vignan’s Institute of Engineering for Women from 28.06.2021to 03.07.2021.
- Ms.S.Kezia ,Asst Prof attended FDP on “Application of Data Science and Machine Learning in Engineering .” at Sree Vidyanikethan Engineering College from 14.06.2021to 18.06.2021.
- Mr.K.Srinivasa Rao ,Asst Prof completed Online Course titled “ Excel Essential Training.” on 13.06.2021.
- Ms.S.Kezia Rao ,Asst Prof completed Online Course titled “ Introduction to Machine Learning.” on 25.05.2021.

Guest Lecture on “Power Electronics and Drives” Date: 14-04-2021

The presentation was given by **Dr. P. Devendra, Associate Professor, GVP College of Engineering for Women.** He delivered various ideas on the importance of the Application of the Control techniques in Power Electronics and Drives to develop real-time projects.

Charge Pump parameters

$\eta = \frac{P_{out}}{P_{in}} \times 100\% = \frac{P_{out}}{P_{in} + P_{loss}} \times 100\%$

conversion gain (CG)

$CG = \frac{V_{out}}{V_{in}}$

Line Regulation = $\left(\frac{\Delta V_{out}}{\Delta V_{in}} \right)_{I_{load} = const} \left(\frac{mV}{V} \right)$

Load Regulation = $\left(\frac{\Delta V_{out}}{\Delta I_{load}} \right)_{V_{in} = const} \left(\frac{mV}{A} \right)$

S. No.	Type of Activity	Topic	Date- Month- Year	Number of Students
1	Online training programme	Source Code Management using GIT and GITHUB	10-06-2021 to 12-06-2021	50
2	Online training programme	Python Programming	24-05-2021 to 12-06-2021	50
3	Workshop	Power Electronics Simulation in PSIM	22-04-2021 & 23-04-2021	86
4	Guest lecture	Power Electronics and Drives	14-04-2021	79

What are the lessons learnt from Covid?

The last couple of years had been trying times for everyone in this world irrespective of race, place and social status. The rich and poor were equally suffering, men and women, young and old no one was spared. The unprecedented pandemic in form of Covid 19 caused lockdown in major parts of the world and everything came to standstill.

We as a human race always boasted about many scientific advancements. There was almost nothing impossible except immortality. Then came this challenge of Covid 19. It raised questions about our intellectuality and capabilities. It took time for us to understand what was happening and how it was happening. We lost many precious lives before we could have an understanding of the disease and develop a vaccine for it. It brought the brightest minds in this world to work together and share information with each other to develop a vaccine to save lives. There is still a long way to defeat this disease but atleast we have a weapon to fight. Never in our lives or for that matter even our parents and grandparents have never experienced such a situation. We were confined to our homes for a long time. Our future was uncertain. People close to us and our own family members were suffering. There was hardly much we could do about the situation. There were many things we realised during this pandemic. Nature is very powerful and never underestimate it. Even though we have advanced so much in medical field there is still so much unknown and to conquer. Big problems too have simple solutions. The best way to protect ourselves was to follow proper hygienic and sanitation by wearing masks and hand sanitation. We neglect our health. Even the governments do not prioritize health allocating meagre budgets and facilities for health. India is a developing country where many people depend on government health facilities which were very lacking. We found new heroes in form of doctors and other health workers, sanitation workers etc who sacrificed their families, time and even lives to save people. Common people too came together to help each other. New ways of communication were sought and used to help each other. Even our animals were not forgotten. People served food and water to the needy with whatever they had. It made people spend more time with each other at homes. Unfortunately most of the children were confined to homes and were taking online classes. They got addicted to television, mobile games and other forms of social media. Finally a vaccine came but it was not available to everyone. The rich countries hoarded these vaccines while the poor countries were losing people to this disease. Then there was dissemination of false information regarding vaccines and disease which prevented people from taking it even though it was available. So many things happened in the last couple of years. Importantly Covid taught us important lessons of life. Life is unpredictable. Even money is not enough to save lives. Respect nature and preserve it else it will lead to destruction of human race. Humanity is above race, sex and creed. Science will definitely help to find solutions to the toughest problems. Lastly but most importantly live your life like there is no tomorrow because no one knows what will happen tomorrow.

By
 Dr V V Vijayalakshmi
 Assistant Professor,
 Department of Pediatrics
 Rangaraya Medical College