



VISHNU
UNIVERSAL LEARNING

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**ELECTRICAL&ELECTRONICS
ENGINEERING**

NEWS LETTER

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Vishnu Institute Of Technology
Vishnupur, Bhimavaram
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VISHNU INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi: Affiliated to JNT University, Kakinada.
Vishnupur, Bhimavaram – 534202 :: West Godavari Dist. A.P.

Department of Electrical & Electronics Engineering

VISION OF THE DEPARTMENT

To be recognized as a Centre of Excellence in the field of Education and Research so as to produce Competent & Ethical Engineers capable enough to contribute to the society.

MISSION OF THE DEPARTMENT

- To develop innovative, efficient and proficient electrical engineers.
- To keep the curriculum industry friendly, with due regard to the University curriculum.
- To be a place for innovative blended learning and entrepreneurship development in multi-disciplinary areas.
- To promote ethical and moral values among the students so as to make them emerge as responsible professionals.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO.1: To produce Electrical and Electronics Engineering graduates who have strong foundation in Mathematics, Sciences and Basic Engineering.

PEO.2: To provide intensive training in problem solving, laboratory skills and design skills to use modern engineering tools through higher education and research.

PEO.3: Ability to pursue higher studies and to seek employment in a variety of engineering technology positions and work successfully in their chosen career aspirations and generate entrepreneurs

PEO.4: To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context through life-long learning.



Illuminations

FDP on "RECENT TRENDS IN ELECTRICAL ENGINEERING"

Day	Date	Speaker	Topic
Day-1	8th June 2020	Dr. Sidhartha Panda, Professor, Veer Surendra Sai University College of Technology, Odisha	Improved and Hybrid Optimization Techniques for Power System Control
Day-2	9th June 2020	Dr. C.V.V.S. Bhaskara Reddy, Professor, Andhra University, Visakhapatnam	Voltage Stability: Monitoring and Control
Day-3	10th June 2020	Dr. Subhansu Sekhar Dash, Professor & HOD, Govt. College of Engineering, Keonjhar, Odisha	Role of Renewable Energy in Smart Grid
Day-4	11th June 2020	Dr. Satish Kumar P, Professor, Osmania University, Hyderabad	Space Vector PWM & Multi Level Inverter
Day-5	12th June 2020	Dr. K. Vijay Kumar, Professor & HOD, SRM University, Chennai	Power Converters for Smart Grid Applications

Faculty coordinators:
Mr. P. Naveen, Assoc. Professor, Dept. of EEE, VIT, Bhimavaram
Mr. V. Surya Manoj, Asst. Professor, Dept. of EEE, VIT, Bhimavaram
Dr. R. V. D. Rama Rao, Professor & HOD, Dept. of EEE, Vishnu Institute of Technology, Bhimavaram

The Department of Electrical and Electronics Engineering (EEE), Vishnu Institute Of Technology, has organized a Five Day online Faculty Development Program on "RECENT TRENDS IN ELECTRICAL ENGINEERING" from 8th June 2020 to 12th June 2020. The registered participants to the FDP were around 1350 from 23 different states across the country and few from other countries. The FDP was carried out in MICROSOFT TEAMS meeting App and was organized by Mr. P. Naveen, Assoc. prof, EEE Dept, VITB; Mr. V. Surya Manoj, Asst. Prof, EEE Dept, VITB. The daily attendees to the FDP are on an average of 170 to 200 participants on Microsoft Teams App and an average of 500-600 viewers on YOUTUBE live.

The Speakers for the five days are :

- Dr. Siddhartha Panda, Professor, Veer Surendra Sai University College Of Technology, Odisha on "Improved and Hybrid Optimization Techniques for Power System Control".
- Dr. Ch. V. V. S. Bhaskara Reddy, Professor, Andhra University, Vishakapatnam on "Voltage Stability : Monitoring and Control".
- Dr. Subhansu sekhar Dash, Professor & HOD, Govt. college of Engineering, Keonjhar, Odisha on "Role of Renewable Energy in Smart Grid".
- Dr. Satish kumar P, Assoc. Professor, Osmania University, Hyderabad on "Space Vector PWM and Multi Level Inverter".
- Dr. K. Vijay Kumar, Professor & HOD, SRM University, Chennai on "Power Converters for Smart Grid Applications".

Webinar on "Managing References in a Research

"Managing References in a Research Article Using Mendley"

DESCRIPTION: If MENDLEY PLUGIN is added to Microsoft Word and whenever we are rewriting the lines in content making, it will automatically updates the reference number and reference position. Setting appropriate reference style of journal manually is not an easier task. In MENDLEY once we click the paper, the entire data is absorbed from PDF and adjusted according to our requirement without mistakes and also we can customize our own reference style. The session will eye opens on the clarity of using MENDLEY for our research.

Speaker

Mr. V S N Narasimha Raju

Assoc.Professor,Electrical Engg Dept, VIT,
Bhimavaram& Research Schloar, NIT-Trichy



E CERTIFICATE FOR ALL PARTICIPANTS

The setting of appropriate reference style of journal manually is not easy and it is very tedious task. If MENDELEY PLUGIN is added to Microsoft Word, in the process of rewriting the lines in content making, it will automatically updates the reference number and reference position. In MENDELEY once we add the paper to library and click the paper, the entire data is absorbed from PDF and adjusted according to our requirement without mistakes and also we can customize our own reference style. The session will eye opens on the clarity of using MENDELEY for our research.

Resource Person: V S N NARASIMHA RAJU

Hackwith Infy -Hiring Contest by Infosys

- ◆ 26 students are shortlisted in HackwithInfy (hiring contest by Infosys) round 2.
- ◆ In terms of number of shortlisted students, Vishnu Institute of Technology is in the 2nd position in the state of Andhra Pradesh.
- ◆ In terms of number of students in top 100, Vishnu Institute of Technology is in the first position in the state of Andhra Pradesh.

Publications

- ◆ B. Mallikarjuna, D. Rishabh, M. Jaya Bharata Reddy and D. K. Mohanta, "Synchronphasor Sensors Assisted Novel Algorithm for Power System Protection Reinforcement and Health Monitoring" IEEE Sensors Journal, vol. 20, no. 15, pp. 8213-8222, 2020.
- ◆ Saravanan, S., K. Karunanithi, and S. Pragaspathy. "A Novel Topology for Bidirectional Converter with High Buck Boost Gain" Journal of Circuits, Systems and Computers, vol. 29, no. 14, pp. 2050222, 2020.

5G ,Really We need it..?

The best thing that is happening today is Technology. It is making our works easier and faster. For every certain years the technology is changing that means upgrading. This will give us more comforts and vulnerabilities. 5G is one of the latest technologies that is happening. It is the successor to 4G(LTE). The speeds in 5G is very higher than 4G. The Bandwidth is high so the frequency will be higher. What evolution can it bring? Does that increase the radiation? The spectrum that is used for 5G network is millimeter wave spectrum. It has the frequency between 24GHz and 54GHz. As we know, higher frequency- shorter wavelength, so the waves can only travel for short distances and they are subjected to interferences like buildings or trees. Hence small size antennas called cells, will be fixed in the small geographical areas to overcome this problem. The bandwidth will be very high in that area that reduces the network traffics. Millions of devices per square kilo meter can be supported by 5G while 4G supports only one-tenth of that capacity. The 5G networks are implemented at three levels, Low-band(30-250 Mbps), Mid-band(100-900 Mbps) and High-band(upto 2 GBps).

The benefits of 5G technology are high bandwidth, high speeds and lower latency. With 5G speeds, We can download a 4K video in seconds. The main advantage that comes with 5G is Internet of Things (IoT). The latency in 5G is 10ms so, the time taken for the data can be shared from a device to another device is very low. Massive Machine-Type communications(mMTC) would be used to connect a large number of devices. 5G technology will connect some of the 50 billion connected IoT devices. Drones, Smart devices, Automation cars, Internet connected electronic devices would use 5G technology.

The robotic devices used in industries and medical things will work faster and gives quick responses. Every Technology has advantages as well as disadvantages. Due to the higher frequencies, the electromagnetic radiations are more. Though the spectrum is non ionised, long time exposure to these electromagnetic waves can cause radiation on animals and temporary heating of soft tissue. The heating effect due to higher frequencies can affect the bird and insect populations. The health hazards to the humans from mobile radiation are not yet conclusively clarified. The technical disadvantages are more transmission antennas are required, No proper infrastructure yet, Lack of widespread coverage and it is non encrypted. 5G is a digital revolution. With the introduction of 5G, the development of the country is strengthened. It can bring the evolutions in Artificial Intelligence and Machine Learning. Currently, Major telecommunication networks are working on N77 band to introduce 5G network in India. Hopefully we will use 5G speeds in future.

———— M.K.S.Pranay

Placement



COMPANY	NO. OF STUDENTS PLACED
TCS	08
Capgemini	37
Cognizant	02
IBM	01
Go Speedy Go - Indirect	02
Wipro	02
Greenko solar Pvt. Ltd	01

Broccoli



With free-radical-busting antioxidants, digestion-promoting fibre, plus a whole army of vitamins and minerals, broccoli along with kale, spinach and green cabbage are some of the most nutrient-dense foods you'll find in the supermarket. They are also a great source of folate (a natural-occurring folic acid), which is thought to be good for heart health and for women hoping to conceive.



Fitness benefits:

When it comes to bone-building calcium, plant based foods such as broccoli and kale offer a healthy dose and can be a good alternative to dairy products



- “Always Do What You Are Afraid To Do”

– **Ralph Waldo Emerson**

- “Believe and act as if it were impossible to fail.”

– **Charles Kettering**