

National workshop on Advances in Energy Storage Devices and Digital Electronics

National workshop was organised by department of Physics and Electronics on "Advances in Energy Storage Devices and Digital Electronics" at Govt College for men, Kadapa on **29/11/2024**.

This program is sponsored under DBT Star College Scheme.

Objectives:

1. To motivate participants towards acquisition of knowledge through hard work and sustained effort that leads to success.
2. To understand the latest advancements in energy storage technologies and their potential to support carbon-neutral energy systems.
3. To provide participants with a strong understanding of the basic principles in digital electronics, including number systems, binary arithmetic, logic gates.
4. To provide hands on experience in digital electronics to participants.

The Workshop begins with inaugural ceremony. The Principal of the college as president, Chief guest Dr Veera Sudarsan Reddy, Principal of S.V College of Engineering, Kadapa, Vice principal Dr M. Ramesh, Dr Y Savitri, coordinator of DBT star college scheme, faculty members and student participants.

This program was organised in 4 sessions.

In first session Dr. R.Veera Sudarsana Reddy, Principal, S.V. College of Engineering., Kadapa delivered a talk on "*Success Formula*" by focusing on hard work and Intelligence between brilliant and dull students with the help of personal time-table effectively. In Second session Dr.S.Zahiruddin, Professor, Dept. of ECE, S.V. College of Engineering, Kadapa delivered a talk on "*Principles of Digital Electronics*" and explained basics of Number systems and their conversions, Logic gates and flip-flops.

In third session Dr.N.Guru Prakash, Associate Professor, Yeungnam University, South Korea delivered a talk on "*Advances in Energy Storage Devices: Driving Applications to Mitigate CO₂ Emissions*" in Online mode regarding Energy storage devices by enabling the integration of renewable energy, reducing reliance on fossil-fuel power plants. They store excess renewable energy for later use, ensuring clean power during high demand. It enhances industrial energy efficiency by balancing supply and demand, reducing carbon-intensive backup power use. As renewable energy adoption grows, energy storage will play a crucial role in decarbonizing global energy systems.

In fourth session hands on training given on logic gates in digital electronics. In this session faculty members demonstrated Experiments related to digital electronics.

The feedback also taken by students and the students are interacted with the resource persons. The certificates also issued to participants. The under graduate students are benefited a lot by this workshop.

No. of participants: 100 students and 12 faculty

Program outcome: The program is mainly a bipolar process between the participants and the speakers. The students interacted about learning and memory techniques useful for them. In the second session students learnt about different systems of numbers and their interconversions. The acquired broad understanding about logic gates. In the third session students interacted through online and asked about possible ways for abroad study.

The fourth session discussion cum demonstrations experiments related to digital electronics in which students acquired the skills of handling apparatus and interpretation of truth tables.



Inaugural address by the Principal Dr.G.Ravindranath



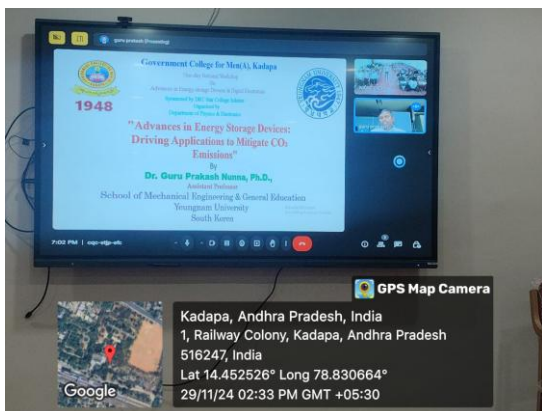
Felicitation to chief guest Dr. R.Veera Sudarsana Reddy



Invited talk by Prof. R.V.S Reddy



Invited talk by Prof. S.Zahiruddin



Invited talk by Dr.N.Guru Prasad



Hands on Experience