

Target Audience

The UG Students and PG Students of the AICTE approved institutions are eligible to attend this programme

Registration details

There is registration fee for participants. Maximum number of participants is 30. Eligible candidates have to register through

<https://forms.gle/gt8JJFBYFcVUvs4DA>

Important Dates

Last date for registration: 20-06-2024

Intimation of selected candidates:

28-06-2024

Resource Persons

- ❖ Dr. V. Sandeep, Dept of EEE, NIT AP
- ❖ Mr. L N Sastry Varanasi, Founder & Director, Radhanu Technologies Pvt Ltd.

Chief Patrons

Sri K. V. Vishnu Raju, Chairman, SVES
Sri Ravichandran R, Vice-Chairman, SVES
Sri K. Aditya Vissam, Secretary, SVES
Sri K. Sai Sumant, Joint Secretary, SVES

Patrons

Dr. G. Srinivasa Rao
Principal, SVECW
Prof. P. Venkata Rama Raju
Vice-Principal, SVECW

Convener

Dr. S. M. Padmaja
Professor & HOD
EEE Department

Coordinators

Mrs. G Bharathi
Senior Assistant Professor in EEE
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SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN (AUTONOMOUS)

(Permanently affiliated to JNTUK, Accredited by NBA and NAAC with A+ Grade)
Vishnupur, Bhimavaram - 534202



One Week Student Development Programme

On

Machine Learning Applications to Electrical Vehicles

01st – 06th July 2024

Organized by

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

&

SVECW INSTITUTION'S INNOVATION COUNCIL (IIC)

About the Institution



Shri Vishnu Engineering College for Women (SVECW), Bhimavaram, is one of the foremost Institutions founded by Late Padma Bhushan Dr. B. V. Raju. It was established in the year 2001-2002 to empower women in professional courses. The college has the vision to develop the students with a disciplined and integrated personality and to achieve academic excellence. SVECW has witnessed significant growth within a period of over 20 years and stands out as one of the best engineering colleges in A.P. SVECW was Accredited by NBA and NAAC with A+ grade.

About the Department

The Electrical and Electronics Engineering department, established in 2002, has been structured in terms of experienced staff and excellent laboratory facilities. The department is committed to the professional development of its students, offering numerous opportunities for learning beyond the classroom. This includes workshops, seminars, guest lectures, and industrial

visits that connect students with industry professionals and help them build valuable networks. The department has equipped with cutting-edge laboratories and modern equipment, the department provides an ideal environment for students to explore and innovate. The department offers both B. Tech and M. Tech (Power Electronics). The Department is accredited by NBA. The Department has executed several DST and AICTE sponsored Projects.

Objective of the SDP

The Student Development Program (SDP) on " Machine Learning Applications to Electrical Vehicles " aims to provide in the field of Electrical Engineering with a comprehensive understanding of the integration of artificial intelligence (AI) and machine learning (ML) techniques into various applications. Through practical sessions and workshops, participants will have the opportunity to gain hands-on experience in implementing ML techniques with EV's using relevant tools and platforms.

TOPICS TO BE COVERED

- Introduction to Machine Learning: basics and applications in EV
- Data sources in EV, Data Preprocessing Techniques
- Predictive modeling, Optimization Techniques in EV Charging

- Control Strategies: Vehicle- to- Grid (V2G), Demand Response and smart Charging.
- Integration of machine learning for autonomous EV: perception, planning and control.
- Applications and challenges in industry
- Opportunities in integrating ML for EV, Models for EV Battery health prediction.
- Hands on Session's: Basic machine learning algorithms using python, building machine learning models for autonomous EV Navigation

Organizing members

Dr. S. Dileep Kumar Varma

Dr. SSSR Sarathbabu Duvvuri

Dr. J. Rohit Balaji

Dr. K. Kalyan Sagar

Dr. M. V. Srikanth

Mr. K. P. Swaroop

Mr. K. Omkar

Mrs. Y. T. R. Palleswari

Mr. S. Veera Babu

Dr. B. Ramu

Mr. B. Mahendra Chand

Mr. R. Pradeep Sudha

Mr. M. Siva Rama Ganesh

Mr. A. Siva