WHO CAN ATTEND

- Faculty members working in AICTE approved institutes, Research Scholars and PG students are invited to register.
- Free online registration for 200 participants on first-come-first-serve basis.

REGISTRATION PROCESS

- Participants are required to fill the online registration form by clicking on the following link:

  https://forms.gle/A5HEt7nmZ8n6bvwC8

- The shortlisted members from the registered participants will be communicated through e-mail.

GENERAL INFORMATION

- There is no registration fee.
- 80% attendance and 60% marks in the final exam are desirable to get an e-certificate.

RESOURCE PERSONS

Sessions will be conducted by experienced academicians and experts from reputed institutions and industries.

CHIEF PATRONS

Sri K. V. Vishnu Raju, Chairman, SVES
Sri R. Ravichandran, 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*

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One-Week online Faculty Development Program On

Data Science and Machine Learning Applications for Engineering and Sciences

21.10.2024 to 27.10.2024

Organized by
Department of Information Technology
SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN
(Autonomous)
(Accredited by NBA & NAAC with 'A+' Grade)
Bhimavaram - 534202
W. G. District, AP, India
www.svecw.edu.in

ABOUT THE COLLEGE

Shri Vishnu Engineering College for women was established during the academic year 2001-2002 to empower women in professional education. The campus is located in Vishnupur which is 3 km from Bhimavaram on Tadepalligudem Road. The campus spreads around 100 acres landscape known for its salubrious climate and presents congenial atmosphere to pursue higher studies. This institute has witnessed significant growth within a period of 23 years and stands out as one of the best engineering colleges in Andhra Pradesh. This institution is accredited by NAAC with 'A+' grade. This institution is under autonomous status from the academic year 2014-2015 and it is the first women's college under JNTUK to get such an autonomous status. It is permanently affiliated to JNTU Kakinada.

ABOUT THE DEPARTMENT

The Department of Information Technology was established in the academic year 2001-02 with an initial intake of 60 students, which was later increased to 180 from the academic year 2020-21. The program is approved by the AICTE and the Government of Andhra Pradesh, and is affiliated with JNTUK, Kakinada. The B.Tech. in Information Technology program was accredited by the National Board of Accreditation (NBA), AICTE, under Tier-I in June 2019, reflecting the department's commitment to maintaining high educational standards. The department offers excellent infrastructure and learning facilities, including a range of well-equipped laboratories. To enhance the academic experience, the department regularly organizes seminars, symposia, workshops, guest lectures, personality development programs for the benefit of both students and faculty. Through its comprehensive approach to education, the Department of Information Technology ensures that its graduates are equipped with both technical expertise and personal development, ready to contribute effectively to the IT industry.

ABOUT THE FDP

The Faculty Development Program (FDP) on "Data Science & Machine Learning Applications for Engineering and Sciences" is a comprehensive 6-day course tailored for faculty, researchers, and professionals. This program is designed to impart advanced knowledge and hands-on experience in the rapidly evolving fields of Data Science and Machine Learning.

Participants will dive into key topics such as classification and clustering—core techniques in ML used to uncover insights from complex datasets. The program emphasizes a practical, hands-on approach, ensuring attendees gain a deep understanding of ML algorithms, their applications, and future potential. By the end of the course, participants will not only understand current applications of ML but also explore its future feasibility and scope across various fields.

OBJECTIVE OF THE PROGRAM

The FDP on "Data Science & Machine Learning Applications for Engineering and Sciences" aims to connect academic institutions with industry professionals. It provides engineering faculty with knowledge of the

Topics to be covered

- Introduction to Data Science and Machine Learning including real-time examples and applications.
- Classification techniques: Decision Trees, Random Forest (RF), Multi-class classification, K-Nearest Neighbors (K-NN), Logistic Regression, and their applications.
- Supervised Learning: Regression techniques and hands-on implementation using Python.
- Feature Engineering: Techniques for Feature Selection and Filter Methods.
- Linear Regression with multiple variables, focusing on practical implementations.
- Regularization models: Understanding underfitting, overfitting, best fit, and the application of Ridge and Lasso Regression algorithms.
- Ensemble approaches: Bagging, Random Forests, Boosting methods such as AdaBoost, Gradient Boosting, and their applications.
- Data Visualization techniques for effective analysis and interpretation & clustering