ABOUT JNTUA

The College of Engineering, Anantapur was started at Guindy, Madras in 1946 and shifted to Anantapur in 1948. The college was initially affiliated to Madras University during 1946–1955 and to Sri Venkateswara University, Tirupathi during 1955–1972. In 1972, by an Act of State Legislature, JNT University was established at Hyderabad and the College of Engineering, Anantapur went into the fold of JNTU. Later in the year 2008, by an Act of AP State Legislature, JNTU was trifurcated into three independent universities viz., JNTU, Hyderabad, JNTU, Kakinada and JNTU Anantapur. JNTU College of Engineering, Anantapur became a constituent college of JNTUA and was renamed as JNTUA College of Engineering, Anantapur. The JNTUA College of Engineering, Pulivendula, established in the year 2006 and Oil Technology Research Institute (OTRI), Anantapur, established in the year 1948 also became constituent units of JNTUA. A new constituent college JNTUA College of Engineering, Kalikiri established in 2013 also came under the fold of JNTUA. The OTRI was later renamed as Oil Technology and Pharmaceutical Research Institute (OTPRI), in 2016. In addition to the above four constituent colleges, the JNTUA has 70 Engineering Colleges, 46 Pharmacy Colleges and 26 stand-alone MBA/MCA colleges affiliated to it. Since its inception, JNTUA is committed to develop and nurture technological education and intends to produce technical manpower of high quality, comparable to the best in the world.

About college

Santhiram Engineering College (SREC) is sponsored by M/s Sri Shirdi Sai Educational Academy, Nandyal. SREC is established under the able guidance of Dr. M. Santhiramudu, Chairman in the year 2007 with a noble motto "Education for peace and progress".

Vision

To become a nucleus for pursuing technical education and pool industrial research and developmental activities with social-conscious and global standards.

Mission

- To provide Advanced Educational Programs and prepare students to achieve success and take leading roles in their chosen fields of specialization by arising a self-sustained University.
- To establish postgraduate programs in the current and Advanced Technologies.
- To establish an R&D Consultancy through developing Industry Institute Interaction, building up exceptional infrastructure.
- To propel every individual, realize and act for the technical development of the society.

About CSE department

The Department of Computer Science and Engineering was established in the year 2007 with a B.Tech program and an initial intake of 60 students. In response to growing demand and consistent development, the intake was progressively increased to 120 in 2014, and currently stands at 300.
The department is accredited by NBA, AICTE, New Delhi, and has established active student chapters such as ISTE, CSI, and IEEE to encourage student involvement in technical and co-curricular activities, fostering a vibrant academic culture.

Chief Patron

Prof. H. Sudarsana Rao
Hon'ble Vice Chancellor, JNTUA, Ananthapuramu

Patron

Prof. S. Krishnaiah
Registrar, JNTUA, Ananthapuramu

Programme Director

Prof. G. Prasanthi
Director, Faculty Development Center
JNTUA, Ananthapuramu

Chair Person

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Mr. K. V. Saiphani - Assistant Professor
Assistant Professor, Department of CSE, SREC

SANTHIRAM ENGINEERING COLLEGE (AUTONOMOUS)

A Five-Day Faculty Development Programme
on

AI Foundations and Intelligent Systems: Exploring Artificial Intelligence & Machine Learning

23-09-2025 to 27-09-2025

Organized by
Department of Computer Science and Engineering
and

Faculty Development Center

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR (JNTUA)

Ananthapuramu

About FDP

The Faculty Development Programme (FDP) on "AI Foundations and Intelligent Systems" is a comprehensive initiative aimed at upskilling faculty members in the rapidly evolving domain of Artificial Intelligence (AI) and its core areas—Machine Learning (ML), Deep Learning (DL), and Natural Language Processing (NLP). As AI technologies become central to innovation in industries such as healthcare, finance, education, and smart systems, there is a growing need for educators to deliver academic content that is both conceptually strong and practically relevant.

This FDP is structured to offer a balanced mix of theoretical insights, hands-on sessions, pedagogical strategies, and research perspectives, all mapped to the AI syllabi of undergraduate and postgraduate programs. Faculty participants will be exposed to modern AI tools and frameworks such as Python, Scikit-learn, TensorFlow, PyTorch, and NLTK, along with case studies and demonstrations that highlight real-world applications of AI.

Objectives of FDP

1. Equip faculty members with up-to-date knowledge and practical skills in AI, ML, DL, and NLP.
2. Enhance their ability to design, implement, and evaluate intelligent systems.
3. Enable integration of modern AI tools into undergraduate/postgraduate syllabi.
4. Support the development of lab content and student projects related to AI.
5. Foster research capability through the understanding of advanced AI algorithms and frameworks.
6. Promote effective teaching strategies tailored to complex AI topics.

Outcomes of FDP

1. Understand foundational and advanced concepts of AI, ML, DL, and NLP.
2. Apply state-of-the-art tools (e.g., Scikit-learn, TensorFlow, PyTorch) in classroom and lab sessions.
3. Develop and deploy AI applications aligned with curriculum outcomes.
4. Guide students in AI projects, internships, and research publications.
5. Enhance curriculum delivery with practical demonstrations and project-based learning.
6. Initiate interdisciplinary AI research and contribute to publications in AI-related areas.

Resource Persons

The Faculty Development Programme will be enriched by contributions from eminent experts representing academia, research institutions, and industry. Their wide-ranging knowledge will ensure that participants benefit from a holistic learning experience that bridges theoretical foundations, technological progress, and hands-on applications

Session Topics

Day 1: Introduction to AI: Definitions, History, Foundations, and Applications, Agents and Environments, the Concept of Rationality, the Nature of Environments, Structure of Agents, ProblemSolving Agents, Problem Formulation

Day 2: Uninformed Search Strategies, Search with Partial Information, Game Playing – Adversarial Search, Hands-on: BFS, DFS, and Game Playing

Day 3: Knowledge Representation Issues, Predicate Logic , Semantic Nets, Bayes' Probabilistic Inferences and Dempster, Hands-on: Build Semantic Net or Rule-based KB + Bayes Classifier

Day 4: First Order Logic, Inference in First Order Logic, Unification, Forward Chaining, Backward Chaining, Resolution, Inductive Learning, Decision Trees, Explanation-Based Learning, Statistical Learning Methods, Reinforcement Learning, Hands on

Day 5: Architecture of Expert Systems, Roles of Expert Systems, Knowledge Acquisition, Meta Knowledge, Heuristics, Expert Systems Shells

Relevance

The rapid evolution of Artificial Intelligence (AI) and its subfields—Machine Learning (ML), Deep Learning (DL), and Natural Language Processing (NLP)—has made it imperative for educators to stay ahead of the curve. This FDP is highly relevant in today's academic and industrial landscape, where intelligent systems are driving innovation across domains such as automation, smart environments, predictive analytics, robotics, and language technologies.

By providing faculty members with both theoretical grounding and hands-on exposure to modern AI tools and frameworks, this program empowers educators to bridge the gap between curriculum and cutting-edge advancements. The sessions are carefully aligned with current AI syllabi across engineering and computer applications programs, ensuring maximum classroom and lab applicability.

Instructions to Participants

Target Audience

The participant must be a teaching faculty from constituent and affiliated colleges of JNTUA, Ananthapuramu, as well as faculty from other institutions.

Guidelines

- No Registration Fee.
- Participants will be selected on First-Come First-Serve basis.
- An evaluation test will be conducted at the end of the FDP.
- Certificates will be issued based on the attendance percentage, test score and submission of feedback.
- Accommodation will be provided on request.

To register for the FDP Scan the QR Code

Registration

Click on the below Link

https://tinyurl.com/JNTUAFDP-SREC-CSE

Event Details

Mode of Conduct	: Offline
Timing	: 9:30 AM to 5:00 PM
Venue	: Seminar Hall, SREC
Last date to apply for FDP	: 18-09-2025
Confirmation to participants	: 19-09-2025
Acceptance from participants	: 20-09-2025

https://www.srecnandyal.edu.in