



ATAL Online 6 Days Faculty Development Programme 2024-25 Schedule



FDP Thrust Area: Engineering

FDP Title: **ARTIFICIAL INTELLIGENCE APPLICATIONS IN RENEWABLE ENERGY SOURCES**

Start Date: 9-12-2024

End Date: 14-12-2024

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
6:00 PM to 6:30 PM InauguralSession	6:00 PM to 7:30 PM Session3 Topic: Solar Panel Optimization using ML Mr.T.Muthukumaran, Deputy Manager NSIC-TSC, Hyderabad,Industry Expert.	6:00 PM to 7:30 PM Session5 Topic: Artificial Intelligence Applications in Energy Sources Prof.JayadevGyani Professorand DeanAcademics CSE AlMajmaUniversity,KSA-SaudiArabia	6:00 PM to 7:30PM Session7 Topic: AI for Predictive Maintenance Mr.Vijay Shanthagiri, Founder & CEO Analogica SDP LTd,Bangalore	6:00 PM to 7:30 PM Session9 Topic: Energy Policy and AI-Driven Decision Making Dr Ramulu Ch, Assistant Professor NIT Warangal.	2:00 PM to 3:30 PM Session11 Topic: Explainable AI for Renewable Energy Dr. M.M. Irfan, Head & Associate Professor Dept. of EEE, SR University Warangal
6:30 PM to 8:00 PM Session1 Topic: Introduction to AI and ML in Renewable Energy Systems Dr.Surender Reddy Salkuti Department of Railroad and Electrical Engineering, Woosong University, Republic of korea	7:30 PM to 9:00 PM Session4 Topic: Hydroelectric Power Plant Automation Dr. Pothuraju Ramakrishna Assistant Professor NIT JALANDHAR	7:30 PM to 9:00 PM Session6 Topic: Renewable energy Generation Forecasting Dr.Madan Kumar Das Assistant Professor-NIT-Jalandhar	7:30 PM to 9:00 PM Session8 Topic: AI and ML in Distributed Energy Resources (DERs) Dr.Venkataramana Veeramsetty Associate Professor,Center for AI and deep learning, SR University wgl.	7:30 PM to 9:00 PM Session10 Topic: Enhanced Geothermal System (EGS) Design and Biomass YieldPrediction using ML Dr.K.Ranjith kumar, Associate Professor VCE-Warangal	3:30 PM to 5:00 PM Session12 Topic: Develop AI/ML models for renewable energy optimization . Dr.Yogesh Pundalik Professor &HOD-EEE , KITS Huzurabad
8:00 PM to 9:30 PM Session2 Topic: Wind Turbine Optimization using ML Dr. D.Vinod Kumar Professor & Dean SR University Warangal					5:00 PM to 7:30 PM Session13 Topic: Environmental Impact andAI's Role in Sustainability P.Venkata Sarath, CO-Founder & CEO, Enflare Technologies-Nellore
					6:30 PM to 7:30 PM Onlinetest&feedback
					7:30 PM to 8:00 PM ValedictorySession

About Institution

Jayamukhi Institute of Technological Sciences Sponsored by the Jayamukhi Educational Society, the Jayamukhi Institute of Technological Sciences came into being in 2001 to provide quality and contemporary education with social relevance in the engineering faculty with an ultimate vision to maintain global standards in higher learning and research. The Institute has the approval of AICTE and recognized by the Government of Telangana. It is permanently affiliated to Jawaharlal Nehru Technological University (JNTU), Hyderabad UGC Autonomous & accredited by NBA. The Institute has come upon 40 acres of green pastures in Narsampet, about 30km away from the historic city of Warangal and presents a picturesque and panoramic view. JITS offers a four-year B.Tech. Programme in the disciplines of CSE, CSE (DATA SCINCNES),CSIT ,CSE(AL&ML) ECE, EEE, CIVIL and ME.

About Department:

The Department of Electrical and Electronics Engineering was established in 2002.the Department offers a 4 years degree Program in Electrical and Electronics Engineering with an Intake of 60 Students. the department as received a grant Of RS.3.983 lakh from AICTE Sponsored STTP in the Academic year 2020-2021.The specialization of the faculty Includes power systems engineering, power electronics & Drives and control systems.

About FDP

The Faculty Development Program (FDP) on Artificial Intelligence Applications in Renewable Energy Sources aims to equip faculty members with the knowledge and skills necessary to integrate AI and ML into renewable energy Sources education and research. this FDP Improves teaching, research skills and also useful Networking opportunities with experts. Artificial Intelligence (AI),well known from computer science disciplines are beginning to emerge in the renewable energy sources.

Objectives

1. To Understand AI/ML fundamentals and applications in renewable energy.
2. To understand the new features of Machine Learning Model for primary solar Resource application of AI.
3. To meet the challenges of Machine learning model for wind direction and speed prediction
4. To focus on solving old problems such as estimation accuracy and resource allocation optimization in Renewable energy sources.
5. To Design of AI technology into Renewable energy sources such as how to reduce the complexity of AI algorithm to make it suitable for optimal design of renewable energy sources and so on are also important directions in the future.
6. To Develop AI/ML models for renewable energy optimization.

Topics to be Covered:

- 1.Introduction to AI and ML in Renewable Energy Systems
2. Wind Turbine Optimization using ML.
- 3.Renewable energy Generation Forecasting
- 4.AI for Predictive Maintenance
- 5.AI and ML in Distributed Energy Resources (DERs)
- 6.Energy Policy and AI-Driven Decision Making
- 7.Environmental Impact and AI's Role in Sustainability

Coordinator :

Mr.Anil Gottimukkula

HOD-EEE. anilgottimukkula501@gmail.com
eeehod@jits.in 9885658384

Cocoordinator

Mr.L.Raju

Assistant Professor of EEE
rajulenkalapelly@gmail.com
7780662249



JAYAMKHI

INSTITUTE OF TECHNOLOGICAL SCIENCES

Narsampet, Warangal, Telangana, India-506332

www.jayamukhi.ac.in

**ATAL sponsored 6 days online
Faculty Development Program on**

**ARTIFICIAL INTELLIGENCE
APPLICATIONS
IN RENEWABLE ENERGY SOURCES**

09th DEC 2024 - 14th DEC 2024



Organized by

**Department of
Electrical and Electronics Engineering**



Registration Fee:

Free online FDP Sponsored by ATAL

Register Now:

<https://atalacademy.aicte-india.org/login>

Important Dates:

Last date for Registration :29th Nov 2024

Notification of Selection : 30th Nov 2024

After registration, selected participants will get online session details through registered emails.

Certificates will only be issued to those participants who have attended regularly and qualify in the online exam with minimum 70% marks.

Benefits to Participants:

This ATAL on Recent Artificial Intelligence applications in Renewable energy sources is a new technological development in the field of engineering .your association will benefit with an outstanding exposure to the technology.

Level of Participants

Faculty working in AICTE approved institute having a zeal to rigorous research in the field of artificial intelligence applications in Renewable energy sources industry and academia persons are eligible.

Chief Patron:

**Dr.Ch.Devender Reddy,
Secretary and Correspondant**

Patron:

Prof.V. Janaki

Coordinator:

**Mr.Anil Gottimukkula
Associate Professor and Head EEE**

Cocoordinator

L.Raju Assistant Professor of EEE JITS

Organizing Committee:

1. Mr.B.Praveen, Assistant Prof
2. Mrs.K.Sujatha, Assistant,prof.
3. Mrs.T.Anusha,Assistant Prof.
4. Mr.B.Sandeep Kum,Assistant Prof.
5. P.Kishore,Assistant Prof
6. B.ManiRaj,Assistant Prof.
7. V.Sudharshan,Assistant Prof.
8. M.Krishnaveni,Assistant Prof.
9. N.Vinod,Assistant Prof.
10. N.Ramadevi,Assistant Prof.
11. P.Sumitha,Assistant Prof.

Address for correspondance

Mr. Anil Gottimukkula

**Associate Professor and Head Department of
Electrical and Electronics Engineering
eeehod@jits.in, anil.g@gmail.com
+91-9885658384**

Resource Persons

1. Dr.Surender Reddy Salkuti
Department of Railroad and Electrical Engineering,
Woosong University, Republic of Korea
2. Dr. D.Vinod Kumar, Professor & Dean
SR University, Warangal.
3. Dr. Pothuraju Ramakrishna
Assistant Professor, NIT Jalandhar.
4. Mr.T.Muthukumaran, Deputy Manager
NSIC-TSC, Hyderabad , Industry Expert.
5. Prof.JayadevGyani, Professor and Dean Academics
CSE AlMajma University, KSA- Saudi Arabia
6. Dr.Madan Kumar Das Assistant Professor,
NIT-Jalandhar
7. Mr.Vijay Shanthagiri, Founder & CEO
Analogica SDP LTd, Bangalore
8. Dr.Venkataramana Veeramsetty
Associate Professor, Center for AI and
deep learning, SR University wgl.
9. Dr Ramulu Ch, Assistant Professor
NIT Warangal.
10. Dr.K.Ranjith kumar, Associate Professor
VCE-Warangal
11. Dr. M.M. Irfan,
Head & Associate Professor
Dept. of EEE, SR University Warangal
12. Dr.Yogesh Pundalik
Professor & HOD-EEE , KITS Huzurabad
13. P.Venkata Sarath, CO-Founder & CEO,
Enflare Technologies-Nellore
14. Mr.Ramchander.N, Director technical
EV Retron Energies india Private Ltd. Sangareddy
15. Prof.V.Janaki ,Principal, JITS



Prof.V.Janaki Professor of CSE and Principal Experience : 30 Years Jayamukhi Institute of Technological Sciences Narsampet, Warangal-506332



Mr.Anil Gottimukkula Associate Professor and Head Department of EEE



Mr.L.Raju Assistant Professor of EEE

Overseas Resource Person:



Dr.Surender Reddy Salkuti Department of Railroad and Electrical Engineering, Woosong University, Republic of Korea



Prof.Jayadev Gyani Professor and Dean Academics Computer Science and Engineering AlMajma University, KSA-Saudi Arabia

Industry Resource Person:



T.MuthuKumaran Deputy Manager NSIC -TSC, Hyderabad



Vijay Shanthagiri Founder & CEO Analogica SDP LTd, Bangalore



P.Venkata Sarath CO-Founder & CEO Enflare Technologies-Nellore



Mr.Ramchander.N, Director technical EV Retron Energies india Private Ltd. Sangareddy

Academic Resource Person:



Dr Vinod Kumar D M Professor and Dean Academics EEE SR University, Warangal



Dr Ramulu Ch Assistant Professor NIT Warangal



Dr.Venkataramana Veeramsetty Associate Professor, Center for AI and deep learning SR University.



Dr.K.Ranjithkumar Associate Professor EEE VCE Warangal



Dr YOGESH PUNDLIK Professor & Head KITS Singapuram



Dr. Pothuraju Ramakrishna Assistant Professor NIT JALANDHAR



Dr. M.M. Irfan, Head & Associate Professor Dept. of EEE, SR University Warangal



Dr Madan Kumar Das Assistant Professor NIT Jalandhar