॥ बहुजन हिताय बहुजन सुखाय ॥
Dwarka Bahuuddeshiya Gramin Vikas Foundation's
Rajarshi Shahu College of Engineering, Buldana
Approved By AICTE New Delhi, NAAC Accredited, Affillated to Sant Gadge Baba Amravati University

Department Of Electrical Engineering

Notice

All the students of Electrical Engineering are hereby informd that we are going to conduct Expert Lecture on "Artificial Intelligence & Machine Learning in Power Systems"to get informative knowledge regarding to Artificial Intelligence in Electrical System On dated 15-10-2024 at 12.30 PM.

So all students remain present for the Expert Lecture at Seminar Hall.

Incharge Of Event

HOD
HOD
Department of Electrical Engineering
Rajarshi Shahu College of Engineering
Buldhana.

Principal
Principal
Rajarshi Shahu College of Engineering, Buldana

॥ ऋते ज्ञानान्न मुक्तिः ॥

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Department Of Electrical Engineering

To,

Mr.Rajesh Naik,

Assistant Engineer (MSEDCL)

Dist-Buldana(Maharashtra)

Subject:Invitation as a Resource Person for Expert lecture.

Respected Sir,

It's our immense pleasure to inform you that,we are going to organize expert lecture on "Artificial Intelligence & Machine Learning in Power Systems" on 15 October 2024 at 12:30 pm onwards for the students of Electrical Engineering.

So,we are kindly requesting you,please accept our invitation and give your valuable time & enlighten us.

Thanking you

Principal

Principal
Rajarshi Shahu College of Engineering, Buldana

|| कृते ज्ञानान्न मुक्तिः ||

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Department Of Electrical Engineering

Letter Of Appreciation

This is to certify that **Mr.Rajesh Naik** delivered an informative and thought provoking lecture as a Expert speaker on "Artificial Intelligence & Machine Learning in Power Systems" to be held on 15 October 2024 in association with Rajarshi Shahu College of Engineering,Buldana.

It was really splendid presentation which expose to implement best practices for understanding need to Artificial Intelligence in electrical system.

All the students appreciated and benefited from your views on subject. Looking forward for your cooperation in future as well.

Incharge of Event | **HOD** | **Principal**

Department of Electrical Engineering
Rajarshi Shahu College of Engineering
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Engineering, Buldana

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Date-15/10/2024

Summary Report

EXPERT LECTURE

Topic-Artificial Intelligence & Machine Learning in Power Systems

Guest Of Honour-Mr.Rajesh Naik Assistant Engineer(MSEDCL) Buldana. Dist-Buldana(MS).

Event Date-15/10/2024

Time-12.30 PM TO 3.00 PM

Event Organizer-Prof.R.B.Mole

Faculty Coordinator-Prof.P.W.Rasal

Beneficiary-40 Students

About the expert lecture-

The expert lecture was organized by Electrical Engg department For second year,Third year & Final year Electrical Engineering students.

The guest for this lecture is Mr.Rajesh Naik,Assistant Engineer(MSEDCL) Buldana Dist-Buldana(MS)

This lecture covers the informative knowledge about Artificial Intelligence & Machine Learning in Power Systems.

Topic Covered

The integration of artificial intelligence (AI) and machine learning (ML) in power systems is transforming the way we generate, transmit, and distribute electricity. This lecture will explore the applications of AI and ML in power systems, including predictive maintenance, fault detection, and optimization of renewable energy sources.

I. Introduction

- Overview of AI and ML
- Applications in power systems

II. Predictive Maintenance

- Condition monitoring of power equipment
- Predictive models for maintenance scheduling
- Case studies: predictive maintenance in transmission and distribution systems

III. Fault Detection and Diagnosis

- Real-time monitoring of power systems

- Machine learning algorithms for fault detection
- Case studies: fault detection in transmission lines and distribution feeders

IV. Optimization of Renewable Energy Sources

- Integration of solar and wind power into the grid
- Predictive models for renewable energy output
- Optimization algorithms for scheduling and control

V. Conclusion

- Future directions for AI and ML in power systems
- Challenges and opportunities

Key Takeaways

1. AI and ML can improve the efficiency and reliability of power systems.
2. Predictive maintenance can reduce downtime and extend the lifespan of power equipment.
3. Fault detection and diagnosis can improve the speed and accuracy of fault response.
4. Optimization of renewable energy sources can reduce greenhouse gas emissions and improve grid stability.

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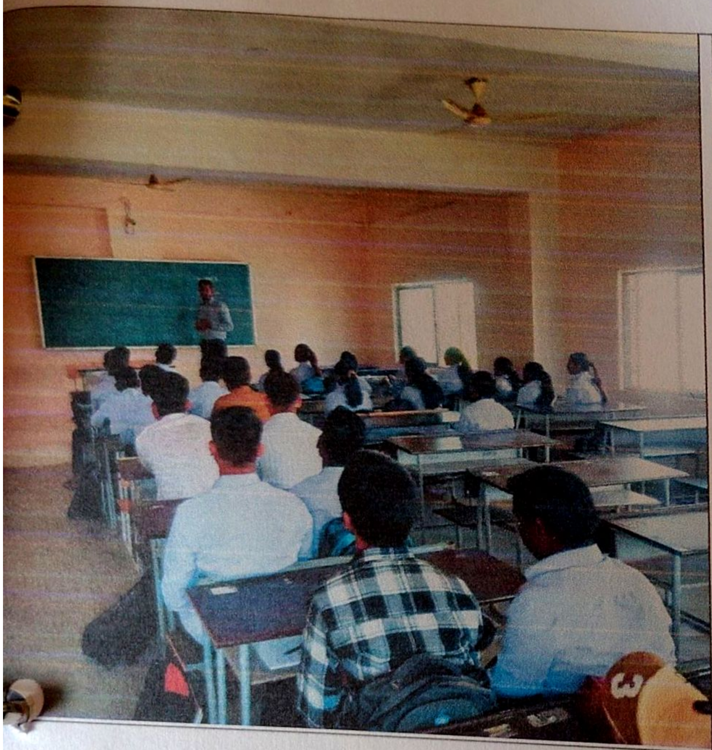

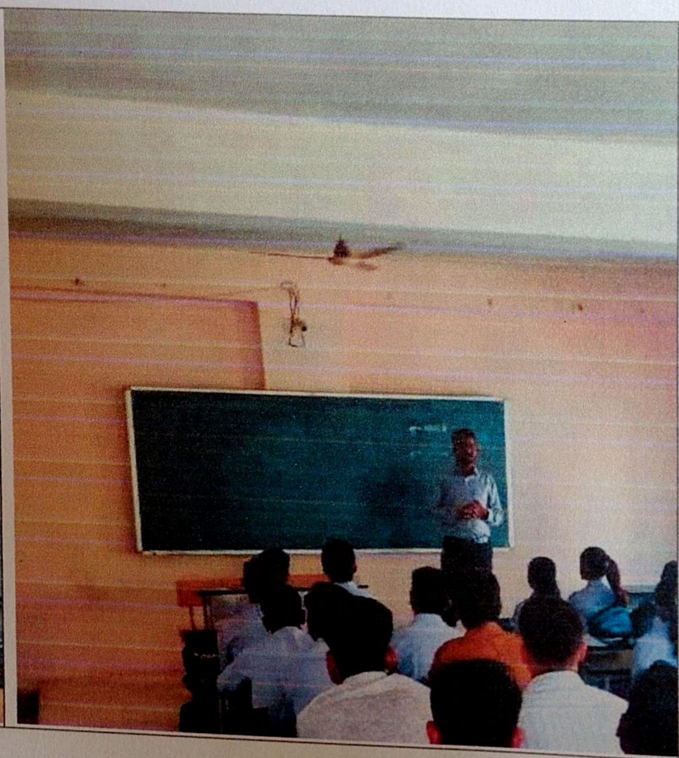

Incharge Of Event

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Principal

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