



Knowledge, Skill, Value

**IPS ACADEMY**

16 Colleges, 71 Courses, 58 Acre Campus

## **ENGROSSER' 25**

### **Title: “Role of Artificial intelligence on Environmental Monitoring and Pollution Control”**

#### **Introduction:**

Artificial Intelligence (AI) has the potential to significantly enhance environmental monitoring and pollution control efforts. AI offers a powerful toolkit for enhancing environmental monitoring, pollution control, and sustainable resource management. By exploiting its ability to process vast quantity of data, recognize patterns, and make predictions, AI can improve the efficiency, accuracy, and scalability of monitoring systems and environmental management practices. AI can significantly reduce the environmental impact of human activities and contribute to more effective pollution control strategies. As AI technologies continue to evolve, they are likely to play an even more central role in tackling the growing environmental challenges of the 21st century.

Below are some key roles that AI plays in environmental monitoring and pollution control:

- Real-time Pollution Monitoring and Data Collection
- Pollution Prediction and Early Warning Systems
- Optimizing Pollution Control Systems
- Pollution Source Identification
- Policy and Regulation Support

We are happy to announce the upcoming annual technical paper writing competition on “**Role of Artificial intelligence on Environmental Monitoring and Pollution Control**” under banner of Students’ Chapter Indian Institute Chemical Engineers (IICChE). The objective of this competition is to bring to glare, the emerging area of research and development for sustainable environment.

#### **Topic to be covered:**

1. Artificial Intelligence for Air Quality and Control Systems
2. AI for Sustainable Agriculture and Land Management
3. AI for Wastewater Treatment and Resource Recovery
4. Climate Change Mitigation and Adaptation
5. Environmental and Social Impact

#### **Instructions for Paper Writing:**

Team of maximum four members can participate in competition, paper should be typed in Times New Roman (Font size 12) 1.5 line spacing on A4 size paper leaving 1" margin from all sides. The title should be in bold followed by authors’ name and affiliation as center alignment along with the Email id. Maximum pages allowed are ten including figures, tables and references.

### **INSTITUTE OF ENGINEERING & SCIENCE**

(An Autonomous Institute)

### **DEPARTMENT OF CHEMICAL ENGINEERING**

Approved by AICTE, New Delhi, Affiliated to RGPV Bhopal

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Knowledge Village, Rajendra Nagar, A.B. Road, Indore (M.P.), 452012



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**Registration:**

The participants have to send hard & soft copy of their full length paper along with registration form.

Email id for correspondence- [iiche.engrosser@gmail.com](mailto:iiche.engrosser@gmail.com),

[jitendrapatidar@ipsacademy.org](mailto:jitendrapatidar@ipsacademy.org)

**Prizes & Certificates:**

Three best papers of participating students will be awarded with the 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> Prize and remaining all students will get certificate of participation.

**Important Dates:**

1. Last date for submission of paper : 15-03-2025
2. Declaration of results : 25-03-2025

**Convener**

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Under the Banner of Students' Chapter IChE

**REGISTRATION FORM**

Author's Full Name:

1.....

2.....

3.....

4.....

Branch and year: .....

Address: .....

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Phone/Mobile No: .....

Email Address: .....

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Institute Name: .....

Title of the Paper: .....

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Certified that above information is true to the best of my knowledge

Signature of Participants

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