

03<sup>th</sup> to 07<sup>th</sup>  
June, 2024



## DEPARTMENT OF INFORMATION TECHNOLOGY & MASTER IN COMPUTER APPLICATION

Organizes

ISTE Self Sponsored

One week Faculty Development Program

on

**“Intelligent Automation through  
Artificial Intelligence, Machine  
Learning & Deep Learning”**

*(Hybrid Mode)*

In Association with



### INSTITUTE VISION

- “To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management”

### INSTITUTE MISSION

- To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability.
- To provide facilities and services to meet the challenges of Industry and Society.
- To facilitate socially responsive research, innovation and entrepreneurship.
- To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices.

### ABOUT INSTITUTE

Gaikwad-Patil Group of Institutions (GPGI) provides education in various sectors such as Engineering & Technology, Science, Management, Architecture & Health Science.

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self-financed Private Engineering College, which is affiliated to RTMNU, Nagpur and is approved by AICTE, New Delhi and DTE, Mumbai, Maharashtra State. The Institute is NAAC Accredited with A+ grade (3.32 CGPA). It is an Autonomous Institute affiliated to RTM Nagpur University, Nagpur. The College offers UG B.Tech programs in engineering such as Bio-Technology, Aeronautical Engineering, Computer Science and Engineering, Computer C.S.E. (Data Science), Information Technology, Electronics and Communication Engineering.

TGPCET offers Eight PG programs in engineering such as Computer Science and Engineering, Integrated Power System, Structural Engineering, Electronics Communication Engineering, Artificial Intelligence & Machine Learning, Mechanical Engineering Design, Aeronautical Engineering, Electric Vehicle Tech. & also offers PG programs in Master of Business Administration as well as Master in Computer Application.

Mechanical Engineering, Civil Engineering and Electrical Engineering. The institute also offers diploma courses in Mechanical Engineering, Civil Engineering, Computer Science and Engineering & Electrical Engineering.

### ABOUT NAGPUR

Nagpur city, popularly known as Orange city is a winter capital of the Maharashtra state. It is a fast growing metropolis and third largest city of Maharashtra. Nagpur is also known as education hub in central India. It is a month important cities known for IT sector in Maharashtra. It has recently been ranked as the cleanest city and the second greenest city of India. Nagpur is also declared as "Tiger Capital of India" as it connects many tiger reserve in India to the world.

### OBJECTIVES OF FDP

- ▶ To enhance the knowledge of faculties, researchers, and practitioners in recent developments in Intelligent Automation through Artificial Intelligence, Machine Learning & Deep Learning.
- ▶ To make the participant familiar with the machine learning and information retrieval techniques.
- ▶ To provide hands-on experience on Machine learning and Deep learning models using Python and R programming languages.

### ABOUT FDP

Intelligent Automation through Artificial Intelligence (AI), Machine Learning (ML) & Deep Learning (DL) was hosted with the prime intention to introduce the exciting applications of industrial - research works carried out using feature engineering and machine learning techniques regarding deep learning to the faculty and researchers. The main topics delivered were Convolution Neural Nets, Recurrent Neural Nets, Auto encoders, Restricted Boltzmann Machines, etc

## PATRONS

**Dr. Mohan Gaikwad-Patil,**

Chairman, Gaikwad-Patil Group

**Shri. Akash Gaikwad-Patil,**

Vice Chairman, Gaikwad-Patil Group

**Dr. Anjali Gaikwad-Patil,** President,

Gaikwad-Patil Group of Institutions

**Dr. Sandeep Gaikwad,** Treasurer,

Gaikwad-Patil Group of Institutions

**Shri. Vinod Gaikwad,** Member,

Gaikwad-Patil Group of Institutions

**Dr. Premanand Naktode,**

Principal, TGPCET

**Prof. Pragati Patil,**

Vice-Principal, TGPCET

## CONVENER

**Prof. Abhay Rewatkar**

Assistant Professor and HoD (IT)

hod.it@tgpct.com (83088 31373)

## CO-CONVENER

**Prof. Roshan Chandekar**

Assistant Professor and HoD (MCA)

hod.mca@tgpct.com (88888 40490)

## ORGANISING COMMITTEE

**Prof. Poonam Kacche,** Ass. Prof. IT, (9284954791)

**Prof. Pooja Patle,** Ass. Prof. IT (7507407944)

**Prof. T.P Raju,** Ass. Prof. MCA (9823162972)

**Prof. Shambhavi Hole,** Ass. Prof. MCA(8669035314)

## WHO CAN PARTICIPATE?

Faculty members from AICTE Approved Polytechnic/  
Engineering / MCA / Industry Person

## REGISTRATION FEES:

Faculty members/ResearchScholars

(Ph.D/M. Tech./ BE/B. Tech./ MCA): Rs. 300/-

Payments can be made in cash, Demand draft, NEFT,

Bhim or Google Pay

Account Holder : Tulsiramji Gaikwad Patil College  
of Engineering & Technology

Bank Name : Bank of India, Dongargaon branch nagpur

Account no : 875620110000125

IFSC code : BKID0008756



QR Code for Online payment Only

## IMPORTANT DATES:

Last date of registration: **25<sup>th</sup> May , 2024.**

Workshop Dates: **June 03<sup>rd</sup> - 07<sup>th</sup>, 2024.**

Registration Link: <https://forms.gle/MCdgjU6Lbcnk3Tsy9>



QR Code for Registration Only

## CERTIFICATE DETAILS

The certificates will be issued to participants by the institute having minimum 80% attendance in all sessions followed by feedback and valedictory.

## TOPICS

1. Fundamental concepts of Artificial Intelligence
2. Integration of Automation and Artificial Intelligence
3. Data Reconstruction using Deep Neural Networks
4. Natural Language Processing and Computer vision
5. Machine learning Tools & Techniques
6. Machine learning algorithm for real world application
7. Case study - Handson Session
8. Reinforcement learning and it's applications
9. Industry applications and future trends
10. Overview of the state of the art research in AI/ML

## RESOURCE PERSONS

**Dr. Arjit Mondal ,** IIT Patna

**Dr. Jitendra V. Tembhurne,** IIIT, Nagpur

**Dr. M. P. Kurhekar,** VNIT, Nagpur

**Dr. Nidhi Lal,** VNIT, Nagpur

**Dr. Latesh Malik,** GCOE, Nagpur

**Dr. Abhijeet Thakre,** Associate Technical Architect,  
Softcloud, Hyderabad

**Dr. G. K. Awari,** Head, Automobile Engineering  
Department, Gov.Poly, Nagpur

**Prof. Pragati Patil,** Vice Principal, TGPCET

**Dr. Sanjay Asutkar,** Professor, TGPCET