



January-March 2023

# CLAIRVOYANCE

## E-NEWSLETTER OF IT DEPARTMENT

MADHAV INSTITUTE OF TECHNOLOGY  
& SCIENCE, GWALIOR

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- Dr. Akhilesh Tiwari,  
Prof. & Head of Department
- Dr. Saumil Maheshwari
- Dr. Ashish Soni

### Students

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- Tarun Sahu (090IIT201062)
- Anishka Soni (090IAI201010)

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## Award/Prize/ Recognition by Faculty Members

- **Dr. Tej Singh, Assistant Professor, IT,** received '**Certificate of Recognition**' on MITS DAY (10th March 2023) for publishing one paper in SCIE Index Journal.
- **Dr. Vikram Rajpoot, Assistant Professor, IT,** received '**Certificate of Recognition**' on MITS DAY (10th March 2023) for publishing four papers in SCIE Index Journal.
- **Dr. Vikram Rajpoot, Assistant Professor, IT,** Invited as a **Session Chair** in **12th IEEE International Conference on Information Systems and Computer Networks(ISCON 2023)**, being held during 03-04 March, 2023 organized by Department of Computer Engineering and Applications GLA University, Mathura, India
- **Dr. Abhishek Dixit, Assistant Professor, IT,** invited as a **Session Chair** in **12th IEEE International Conference on Information Systems and Computer Networks (ISCON 2023)**, being held during 03-04 March, 2023 organized by Department of Computer Engineering and Applications GLA University, Mathura, India.
- **Dr. Vibha Tiwari, Assistant Professor, IT** Invited as a Session chair in '1st IEEE International Conference on Innovations in High-Speed Communication and Signal Processing (IEEE-IHCSP 2023)' organized at Maulana Azad National Institute of Technology, Bhopal from 4th-5th March, 2023. The conference is sponsored by IEEE MP Section.
- **Dr. Saumil Maheshwari, Assistant Professor, IT,** received '**Certificate of Recognition**' on MITS DAY being among 1% topper of the NPTEL course: Database Management System.
- **Dr. Abhishek Dixit, Assistant Professor, IT,** received '**Certificate of Recognition**' on MITS DAY (10th March 2023) for publishing two papers in SCIE Index Journal in the year 2022.

## Talk Delivered Outside the Institute

- **Dr. Sunil Kumar Shukla, Assistant Professor, IT:** Delivered an online expert session on the topic "Application of Artificial Intelligence in Power System" during the Short term faculty development program on Recent Trends in Power Electronics and their Applications in System on 25/03/2023 organized by Sandip University, Nashik.

## FDP/STC Attended (Outside the Institute)

- **Rajeev Kumar Singh, Department of IT,** attended one week FDP on DEMYSTIFYING INTELLECTUAL PROPERTY FOR RESEARCH INTEGRITY AND ECONOMIC DEVELOPMENT from March 13 to 17, 2023 organized by Department of Computer Science & Engineering, Delhi Technological University, Delhi
- **Dr. Pawan Dubey** participated & completed successfully SERB Sponsored 6 Days Seminar on "ARTIFICIAL INTELLIGENCE TECHNIQUES FOR HEALTHCARE APPLICATIONS (AITHA-2023)" from 2023-02-22 to 2023-02-27 at National Institute Of Technology, Delhi.

## **NPTEL/ATAL/COURSERA/INTERNSHALA course attended by the faculty**

- **Dr. Tej Singh, Assistant Professor, IT**, qualified a NTTTR course on “ **Professional Ethics and Sustainability**” on 3rd March 2023.
- **Dr. Tej Singh, Assistant Professor, IT**, attended 4 NPTEL courses on multidisciplinary subjects for the academic session Jan-July 2023.
- **Dr. Vikram , Assistant Professor, IT**, qualified a 4 NTTTR course on multidisciplinary subjects on 3rd March 2023.
- **Dr. Abhishek Dixit , Assistant Professor, IT**, qualified Four NTTTR course on multidisciplinary subjects on 3rd March 2023.
- **Dr. Vibha Tiwari, Assistant Professor, IT** successfully completed an NPTEL-AICTE FDP course on Python for Data Science.
- **Dr. Priyanka Garg, Assistant Professor, IT** successfully completed an NPTEL-AICTE FDP course on Python for Data Science.
- **Dr. Sunil Kumar Shukla, Assistant Professor, IT** successfully completed an NPTEL-AICTE FDP course on Python for Data Science.
- **Dr. Sunil Kumar Shukla, Assistant Professor, IT** successfully completed an NPTEL-AICTE FDP course on Soft Computing.

## **Publications SCI/UGC/SCOPUS with DOI number**

- **Vikram Rajpoot, Akhilesh Tiwari , Anand Singh Jalal**  
**“Automatic early detection of rice leaf diseases using hybrid deep learning and machine learning methods”**  
Multimedia Tools and Applications March 2023  
<https://doi.org/10.1007/s11042-023-14969-y> ( SCIE & Scopus).

## **Latest Technogies**

### **Mixed Reality**

Mixed reality (MR) is an immersive technology that combines elements of both virtual reality (VR) and augmented reality (AR). It allows the user to interact with both the physical world and digital objects in a seamless manner. In MR, virtual objects are anchored to the real world, which means that they are able to interact with and respond to physical objects in real-time.

One of the key features of mixed reality is the use of wearable devices, such as headsets, to create a fully immersive experience. These devices use cameras, sensors, and advanced software to overlay virtual objects onto the physical world, creating a highly realistic and interactive environment.

Mixed reality is being used in a variety of industries, including entertainment, education, and healthcare. In entertainment, it is being used to create immersive gaming experiences, while in education it is being used to enhance learning by providing interactive and engaging content. In healthcare, it is being used to provide training for medical professionals and to develop new surgical procedures.

## Power of TEXT

Text is a powerful form of data in the field of artificial intelligence (AI) as it can be used to generate a wide range of outputs, including images, 3D models, and voice. Text has become even more powerful, transforming the way we communicate and interact with digital media, like it can convey ideas, emotions, and information with the emergence of text-to-image, text-to-3D model, and text-to-voice technologies. These technologies have opened up new possibilities in various industries, making text an essential tool in today's digital age. Here are some points explaining the power of text in AI:

- **Text to Image:** Text to image refers to the process of generating images from textual input using machine learning algorithms. This technology can be used in a variety of applications such as generating images for e-commerce products, creating personalized avatars, and generating images for virtual and augmented reality.
- **Text to 3D Model:** Text to 3D model refers to the process of generating 3D models from textual input using machine learning algorithms. This technology can be used in a variety of applications such as generating 3D models for game design, creating personalized 3D avatars, and generating 3D models for virtual and augmented reality.
- **Text to Voice:** Text to voice refers to the process of generating speech from textual input using machine learning algorithms. This technology can be used in a variety of applications such as automated voice assistants, audio books, and assistive technologies for people with visual impairments.

**"If you want to live a happy life, tie it to a goal, not to people or things."  
- Albert Einstein**