



Jan-Mar 2022

# 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
- Prof. Namrata Agrawal

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- Sakshi Talreja (0901IT191052)

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# Award/Prize/Recognition Received by Department

- Department of IT received certificate of recognition for securing Second Rank in the conduction of the “Off line Campus Connect Programme” on 2nd and 14th March 2022.



Innovation is the ability to see change as an opportunity not a treat  
-Steve Jobs

## **Award/Prize/Recognition Received by Faculty Members**

- Dr. Akhilesh Tiwari, Prof. & Head, IT Department received certificate of recognition for “Preparing the scheme and structure of phase-II of flexible curriculum conforming to NEP 2020 guidelines” awarded by MITS,Gwalior on MITS Day.
- Dr. Akhilesh Tiwari, Prof. & Head, IT Department received certificate of recognition for “Achieving High Administrative Efficiency Index, AEI (8.56 out of 10) for IT Department, highest in July-December 2021 semester” awarded by MITS,Gwalior on MITS Day.
- Dr. Tej Singh, Assistant Professor, Department of Information Technology, Madhav Institute of Technology & Science, Gwalior has been awarded for two commendable research excellence award on 3rd March 2022, organized by Delhi Technological University, New Delhi.
- Dr. Saumil maheshwari, Assistant Professor, IT department received certificate of recognition for scoring average FFI>4.25 in both semesters of the july-june 2021 session in ‘Database Management System’ and ‘Data Structure’ awarded by MITS,Gwalior on MITS Day.

## **Talks Delivered Outside the Institute**

- Dr. Sanjiv Sharma delivered an invited talk and guest or expert lecture on “Advanced Security Tools” at 8 Feb 2022 organized by Computer Science & Engineering , IFTM University Muradabad.

## **Expert Talks Organized at Institute Level**

- Dr. Vikram Rajpoot and Prof. Rajeev Kumar Singh organized an expert talk on topic “Intellectual Property Rights: Patent, Design, Copyright, Trademarks and Geographical Indication” on 27/01/2022. The resource person for the talk was Mr. Md. Atiqullah, Assistant Controller of Patent & Design, Government of India.

## **FDP/STC Attended (Outside the institute)**

- Dr. Tej Singh, Assistant Professor of Madhav Institute of Science and Technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on “Wireless Sensor Networks and IoT” from 10/01/2022 to 14/01/2022 organized by Delhi Technological University, Delhi.
- Dr. Tej Singh , Assistant Professor, Department of Information Technology, Madhav Institute of Technology & Science, Gwalior participated in Short Term Course on “Remote Sensing and its Applications” organized by Lovely Professional University from January 31, 2022 to February 04, 2022 and obtained “A” Grade.
- Dr. Saumil Maheshwari has successfully completed NPTEL-AICTE Faculty Development Programme funded by the Ministry of HRD on Patent Drafting for Beginners with a consolidated score of 78%.

# Activities Organized (Workshop/Conference/FDP/STC)

- Dr. Sanjiv Sharma, Dr. Saumil Maheshwari, Dr. Tej Singh & Prof. Namrata Agrawal conducted Inhouse training for faculty members of the IT department on “Identification of slow and advanced learner” on 3/2/2022

## NPTEL/ATAL/COURSERA/INTERNSHALA

Dr. Saumil Maheshwari successfully completed the Database Management System Course offered through NPTEL with a consolidated score of 82% ( Elite Silver).

## Book Chapter/Books Published with DOI number

Dixit, A., Tiwari, A., Gupta, R.K. (2022). Exploring Current Trends and Challenges in Hesitation Mining. In: Tiwari, S., Trivedi, M.C., Kolhe, M.L., Mishra, K., Singh, B.K. (eds) Advances in Data and Information Sciences. Lecture Notes in Networks and Systems, vol 318. Springer, Singapore. [https://doi.org/10.1007/978-981-16-5689-7\\_37](https://doi.org/10.1007/978-981-16-5689-7_37).

**"It has become appallingly obvious that our technology has exceeded our humanity." — Albert Einstein.**

# Patent Filed

- Devendra Mishra, Arvind kumar Upadhyay, Sanjiv Sharma filed a patent with application number: 202211002260 titled "A SYSTEM FOR MULTILINGO ABOMINATION DETECTION USING MACHINE LEARNING" on Jan 2022.
- Devendra Mishra, Arvind kumar Upadhyay, Sanjiv Sharma filed a patent with application number: 202211005251 titled: A SYSTEM FOR DETECTION OF CONCEPTUAL LEVEL PLAGIARISM AND CORRECTNESS OF FILE FORMATTING USING MACHINE LEARNING' on Jan 2022.

# Publications SCI/UGC/SCOPUS with DOI number

- Dhananjay Bisen, Rishabh Shukla, Narendra Rajpoot, Praphull Maurya, Atul Kr. Uttam & Siddhartha kr. Arjaria, "Responsive human-computer interaction model based on recognition of facial landmarks using machine learning algorithms"., published in Multimedia Tools and Applications (2022), <https://doi.org/10.1007/s11042-022-12775-6>
- Rahul Mishra , Manish Kumar Gupta , Vikram Rajpoot, "An Iot Based Environmental Strategic Solution For Fire And Air Pollution Using Cloud Computing Platform" published in 5th International Conference on Information Systems and Computer Networks (ISCON) DOI 10.1109/ISCON52037.2021.9702349. (Scopus Indexed)
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- Rahul Mishra , Manish Kumar Gupta , Vikram Rajpoot "Identifying the Future Security Issues Methods for Secure Data in the Cloud Computing" published in 5th International Conference on Information Systems and Computer Networks (ISCON) DOI: 10.1109/ISCON52037.2021.9702420. (Scopus Indexed)

**"Education is the manifestation of perfection present already in man.  
Divinity is the manifestation of religion already in man"- Swamy  
Vivekanada**

# Student Chapters Activities Organized

- A one-day "ReactJS Workshop" session was conducted by MITS ACM Student Chapter in the Department in virtual mode on 6th February 2022 (Sunday). The Workshop Speaker was Mr. Saral Shrivastava, Associate Software Engineer at DigiMonk. 150+ Students have registered and 103 students have actively participated. The Objective of this workshop is to make students aware of Trending Web Technologies



"Success can come to you by courageous devotion to the task lying in front of you."- CV Raman

# Student Chapters Activities Organized

- A one-day “Career Prep Workshop” session was conducted by MITS ACM Student Chapter in the Department, in virtual mode on 13th February 2022 (Sunday). The Workshop Speakers were Mr. Yash Jain (Placement Guidance), Mr. Tushar Dhyani (MS Abroad), Mrs. Niharika Poddar (IIIT-Delhi), Mrs. Abhida Jain (IIIT- Hyderabad), Mrs. Divya Chandron (Placement Guidance), Mrs. Rupali Patel (Placement Guidance). 110+ Students have registered and 80 students have actively participated. The objective of this workshop is to clear the doubts of the student regarding career planning and guide them to various career options for their bright future.

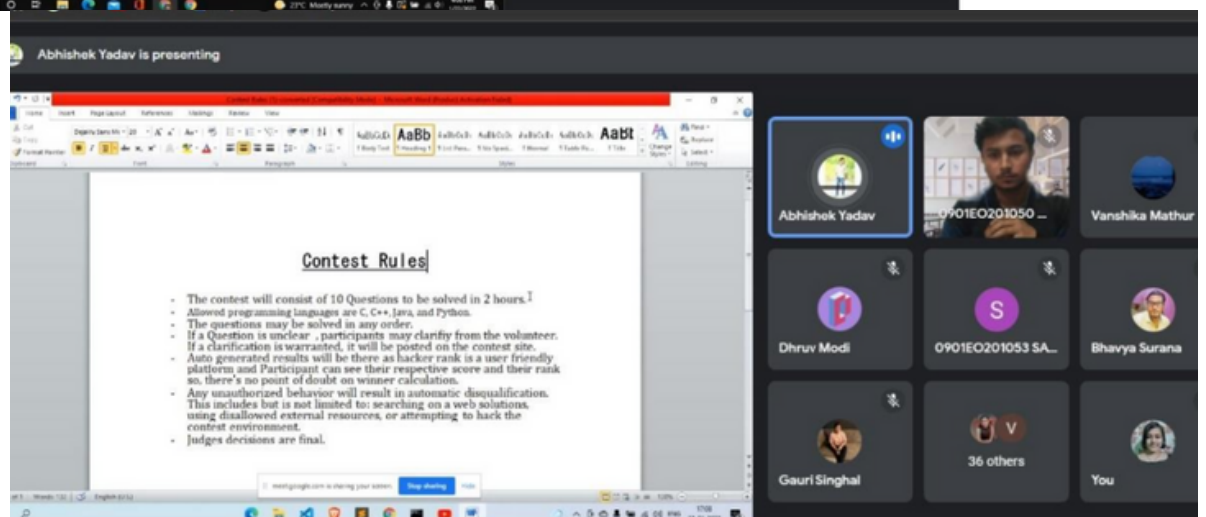
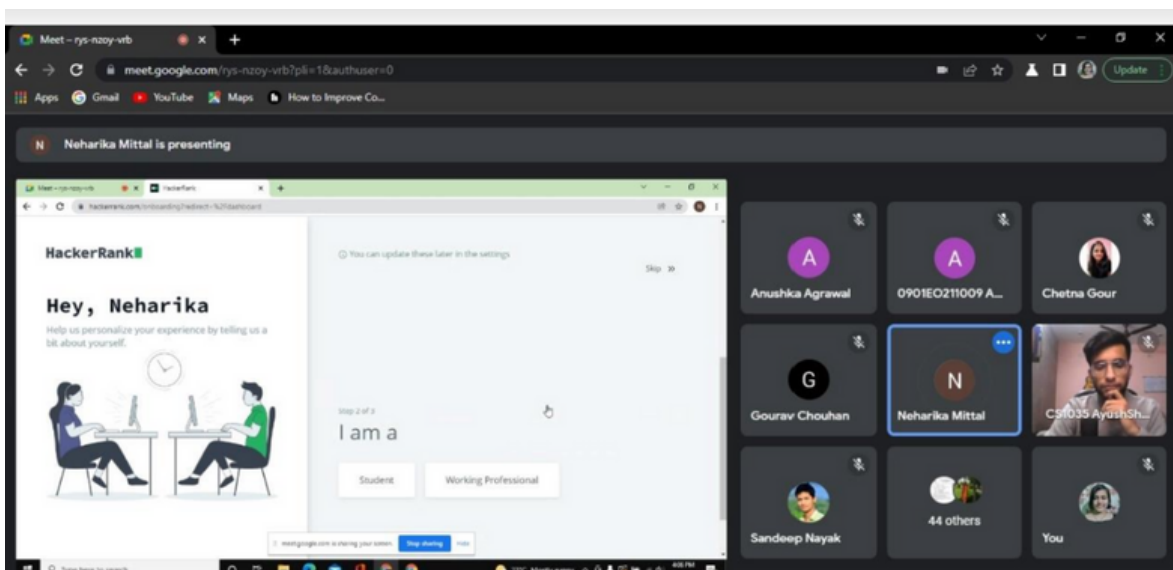


**"Noone can destroy iron but its own rust can. Likewise noone can destroy a person but its own mindset can."- Ratan Tata**



# Student Chapters Activities Organized

- A one-day ultimate Coding Competition labeled under the title, CoderZest 2.0 (The better and harder) was conducted by MITS ACM Student Chapter in the Department in virtual mode on 27th March 2022 (Sunday). This event is the lineage event of the CoderZest series after the huge success and a Positive review of the first event.
- A one-day Coding Competition labeled under title, CoderZest was conducted by MITS ACM Student Chapter in the Department in virtual mode on 23rd January 2022 (Sunday). 200+ Students have registered and 177 Students have actively participated. The Objective of this Event is to enhance problem solving skills of students and nurture coding culture in MITS. Students of other institutes have also shown their interest and actively participated.



**"People throw stones at you and you convert them in to milestones."- Sachin Tendulkar**

# Extension Activity of the Institute

- The Institute organized a one-day online webinar on “National Youth Day” on January 12th, 2022 with the co-ordination of Prof. Punit Johari and Dr. Ashish Agrawal.
- The Institute organized “National Cleanliness Day” on January 30th, 2022 with the co-ordination of Prof. Punit Kumar Johari, Dr. Ashish Agarwal.
- The Institute organized “International Women's Day” on March 08th, 2022 with the co-ordination of Prof. Punit Kumar Johari, Dr. Ashish Agarwal.

# Latest Technologies

## Generative AI:

Generative AI refers to artificial intelligence algorithms that enable using existing content like text, audio files, or images to create new plausible content. In other words, it allows computers to abstract the underlying pattern related to the input, and then use that to generate similar content.

Generative AI is an innovative technology that helps generate artifacts that formerly relied on humans, offering inventive results without any biases resulting from human thoughts and experiences. This new tech in AI determines the original pattern entered in the input to generate creative, authentic pieces that showcase the training data features. The MIT Technology Review stated Generate AI is a promising advancement in artificial intelligence. Generative AI offers better quality results through self-learning from all datasets. It also reduces the challenges linked with a particular project, trains ML (machine learning) algorithms to avoid partiality, and allows bots to understand abstract concepts.



**"Man needs his difficulties because they are necessary to enjoy success"-  
APJ Abdul Kalam**

## Cybersecurity Mesh

Cybersecurity mesh is a flexible, composable architecture that integrates widely distributed and disparate security services.

The cybersecurity mesh is a key component of a zero-trust network philosophy, whereby any device is by default not trusted to access the broader network. Perimeter-focused security often fails because as much as 34 percent of data leaks and breaches originate on the inside of the network itself. A distributed cybersecurity mesh that utilizes zero trust adapts to emerging threats and changing access needs. Threats can be detected in real-time and assets such as data and devices can be protected better than simple VPN passwords. The mesh ensures that all data, systems, and equipment are treated equally and securely — it doesn't matter where they are located in (or out) of the network. Any connection to access data is by default considered “unreliable” until it is verified by the security protocol.

When it comes to rolling out large-scale applications in an enterprise environment, the concept of a service mesh is also catching on. Companies are increasingly deploying microservices (an architectural style that structures apps as a collection of services that are loosely coupled and independently delivered, rather than as one monolithic service).



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