



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

“TECH SAGA”

A Newsletter of CSE & IT Department



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Editorial board -

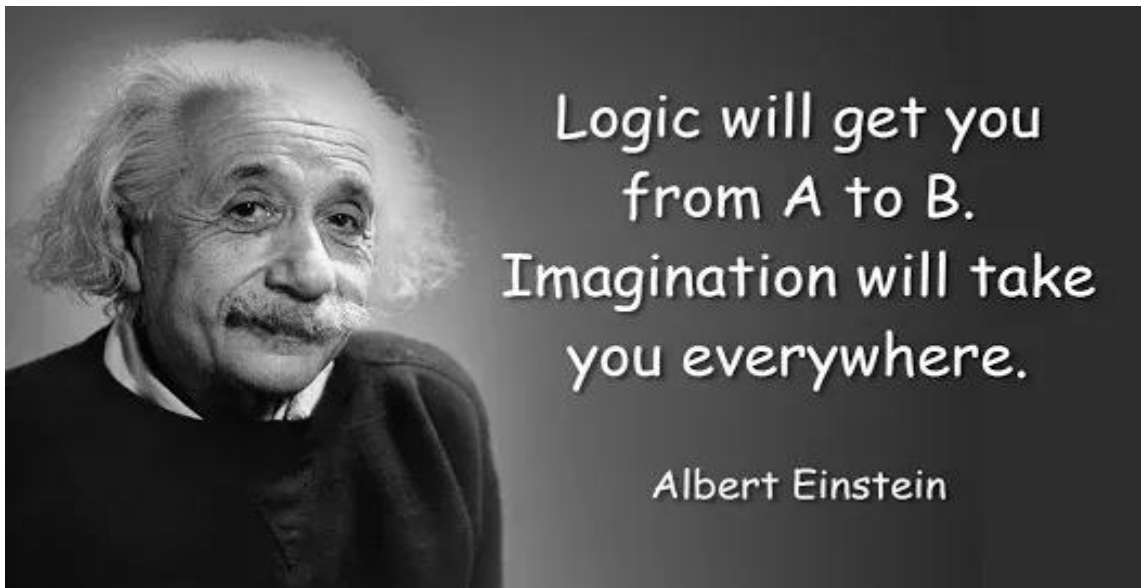
Faculty Members -

- Prof. Punit K. Johari.
- Prof. Amit Kumar Manjhvar.
- Prof. Aishwarya.
- Prof. Pooja Agarwal.
- Prof. Ram Parvesh Das.

Student Members -

- Sudipti Banerjee, CSE M.Tech-Final year.

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PUBLICATIONS IN JOURNALS

1. Pragati Sharma and **Sanjiv Sharma** "Mining Educational Data using Filter based Feature Selection Method" International Journal for Research in Applied Science & Engineering Technology Volume 6 Issue IX, 304-312, Sep 2018. ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887.
2. Abhishek Bajpai and **Sanjiv Sharma** "An Expert System for Type-2 Diabetes Mellitus Risk Stratification: Data Mining Techniques" International Journal for Research in Applied Science & Engineering Technology Volume 6 Issue IX, 448-460, Sep 2018. ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887
3. Deepika Tyagi and **Sanjiv Sharma** "An Expert System for Credit Risk Stratification using Data Mining" International Journal for Research in Applied Science & Engineering Technology Volume 6 Issue IX, 293-303, Sep 2018. ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887
4. Elisa Cuadrado-Godia, Pratistha Dwivedi, **Sanjiv Sharma**, Angel Ois Santiago, a Jaume Roquer Gonzalez, Mercedes Balcells, John Laird, Monika Turk, Harman S. Suri, Andrew Nicolaidis, Luca Saba, N. N. Khanna, Jasjit S. Suri, " A Focus on Pathophysiology, Biomarkers, and Machine Learning Strategies in Cerebral Small Vessel Disease", Journal of Stroke, pISSN: 2287-6391 , eISSN: 2287-6405 (accepted).

5. KK Yadav and **Sanjiv Sharma** "Design and Analysis of Efficient Collaborative Filtering Based Optimization Approach", International Journal of Information Technology, published by springer (accepted).
6. Pragati Sharma and **Sanjiv Sharma** "Data Mining Techniques for Educational Data: A Review." International Journal of Engineering Technologies and Management Research, 5(2:SE), 166-177. DOI: 10.5281/zenodo.1195065,2018.
7. Abhishek Bajpai and **Sanjiv Sharma** "Big Data Analysis in Health Care Domain: A Systematic Review" International Journal of Engineering Technologies and Management Research, 5(2:SE), 1-8. DOI: 10.5281/zenodo.1195065, 2018.
8. Deepika Tyagi and **Sanjiv Sharma** "An Approach to Crime Data Analysis: A Systematic Review" International Journal of Engineering Technologies and Management Research, 5(2:SE), 67-74. DOI: 10.5281/zenodo.1197513, 2018.
9. Neelam Mishra , Hemant Kumar Soni, **Sanjiv Sharma**, A.K. Upadhyay, "Development and Analysis of Artificial Neural Network Models for Rainfall Prediction by Using Time-Series Data" I.J. Intelligent Systems and Applications, 2018, 1, 16-23.
10. Rajeev Goyal, Arvind K Upadhyay, **Sanjiv Sharma**, "Trust Prediction Using Ant Colony Optimization and Particle Swarm Optimization in Social Network", Proceeding Title: Emerging Trends in Expert Applications and Security, Proceeding Series Title: Advances in Intelligent Systems and computing, Editor: Vijay Singh Rathore, Marcel Worrying, D K Mishra, A Joshi, S Maheshwari, published in Springer, Jaipur Engineering College and Research Center, International Conference on Emerging Trends in Expert Applications & Security (ICETEAS), 2018,485-491, ISBN : 978-981-13-2285-3,Vol: 841.
11. Pragati Sharma, Sanjiv Sharma "Impact Of Social Media Analysis On Educational Data: A Survey Of Techniques, Tools And Platform", National Conference On Smart Materials: Energy and Environment for Smart Cities Organized by Amity University Madhya Pradesh Gwalior, 28 February 2018.
12. Rati Bhan, Mir Shahnawaz Ahmad, Mohit Jain, Aditya Singh, "VM Availability in Presence of Malicious Attacks in Open-Source Cloud", in Confluence-2019: **9th International Conference on Cloud Computing, Data Science & Engineering** Organized by Amity University Noida, Utter Pradesh.

ACTIVITIES ORGANIZED

1. INDUSTRY VISIT to INFOSYS CAMPUS PUNE

Prof. Amit Kumar Manjhvar, Prof. Neha Bhardawaj, Prof. Punit Kumar Johari & Prof. Dheeraj Gurjar, CSE & IT department and 41 students from different branches of pre final year visited Infosys Campus Pune, on 24th July 2018.



2. Plantation program under National Service Scheme at MITS Gwalior

Plantation programme “**Plant a Tree**” under National Service Scheme was organized on 15th August, 2018. During the event, Dr. R. K. Pandit (Director MITS), Dr. Manjaree Pandit (Dean Academics), Dr R. Kansal (Dean Students Welfare), Dr. Akhilesh Tiwari (Head of CSE & IT), Dr. Manish Kumar Sagar (NSS Coordinator), Prof. Jamvant Singh Kumare and Prof. Neha Bhardwaj (NSS Coordinators CSE & IT), faculty members of the department and students were present.



3. **Prof. R. R. Singh Makwana receiving top performing mentor recognition certificate for mentoring SWAYAM / NPTEL courses on 15th Aug 2018.**



4. **Dr. Manish Dixit, Faculty Coordinator SPIC MACY Society organized Kalbalia Dance, A folk dance of Rajasthan on 7th Aug 2018 in the Institute.**





5. One Day National Seminar on Digital Transformation organized by IEEE and IETE on 16th Sep 2018, Er. Kuldeep Singh Kushwah, Registrar, Hon'ble High Court of Madhya Pradesh, and Dr. G. S. Tomar, Director IHET-THDC have joined as Speaker.



6. MOTIVATIONAL TALK

IEEE and Department of CSE & IT jointly organized an expert talk of Mr. Ashish Khare (Alumni), software developer at Symantec (Norton Anti Virus Division), on 18th September 2018.



FACULTY ACCOLADES

Dr. Manish Dixit, Associate Professor, CSE&IT Department delivered speech on Moral Values, Closing Ceremony on last date of Swachhata Pakhwada at IHM (Institute of Hotel Management, a central govt. institution) on 29th Sep. 2018.

FACULTY OUTREACH (TRAINING PROGRAM/FDP ATTENDED/INDUSTRIAL VISIT)

1. Prof. Jamvant Singh Kumare, has Delivered a Lecture in Induction Programme for newly admitted student on “**Prime Minister Special Scholarship Scheme**” on **20th August, 2018** at **MITS Gwalior**.
2. Prof. Jamvant Singh Kumare, have attended One Day Workshop on “**Gender Sensitization**” on **28th July, 2018** at **MITS Gwalior**.
3. Prof. Jamvant Singh Kumare, has attended NPTEL Online Certification Course on “**Database Management System**” during **August-September, 2018**.
4. **Prof. Abhilash Sonker & Prof. Mahesh Parmar**, have attended Faculty Enablement Program on “ Agile Software Development” conducted by Infosys Limited at Pranveer Singh Institute of Technology ,Kanpur during 16 to 20 July 2018.
5. **Prof Abhishek Dixit & Prof. Biswas Shrivastava** have attended one week FDP on “**Soft Computing and Programming for Science and Engineering Research**” conducted by the PDPM IITDM Jabalpur during **September 15-20 , 2018**.

STUDENT ACTIVITIES/ACHIEVEMENTS

1. SKYROADS CLUB ACTIVITY

Ortrun was an intra college event held on 16/09/17, organized under Skyroads club. 190 students participated in the in pair. 20 volunteers were allocated in the event. The event encouraged team work among students along with building analytical, lateral and out of the box thinking in students. There were two rounds, the first rounds were an online quiz round checking the lateral thinking and second round included clues and puzzle solving. Prizes and certificates were given to the winner and runner up contestants and along with that certificates were given to students who qualified first round.



2. **PUBG (Player Unknown Battle Group)** was held up on 16th September, 2018 in the MITS campus. It was the first inter college gaming of the year with 30% participation from other colleges and remaining participation from MITS. Around 180 students participated in the event through offline as well as online registration. The participation was done among the three different

Categories:- Solo, Duo and Squad. Prizes were distributed to the first, second holders in each category. Participation certificate was given to winner students from each category.



MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

PLAYERUNKNOWN'S BATTLEGROUNDS

16TH SEPTEMBER
Intercollege Tournament

Only LIMITED ENTRY

Win Cash Prizes

Entry Fee:
Solo - 70 RS
Duo - 150 Rs
Squad - 300 Rs

SKYROADS CLUB **Registration Link:** tiny.cc/MITS-pubg **CONTACT:** **YOGESH :** 9039513961
LAKHAN : 8982522658



ABHIGYAN ABHIKAUSHALAM STUDENTS'

This event 20/09/2018, was organized by AASF, MITS with the help of AASF, IIITM Gwalior. This was the first event organized by AASF, MITS in our college. This event was a teaching session on 'Data Structure and Algorithm'. Student coordinators and member from IIITM, Gwalior came to MITS for the event and delivered the session. 90 Students attended this session.



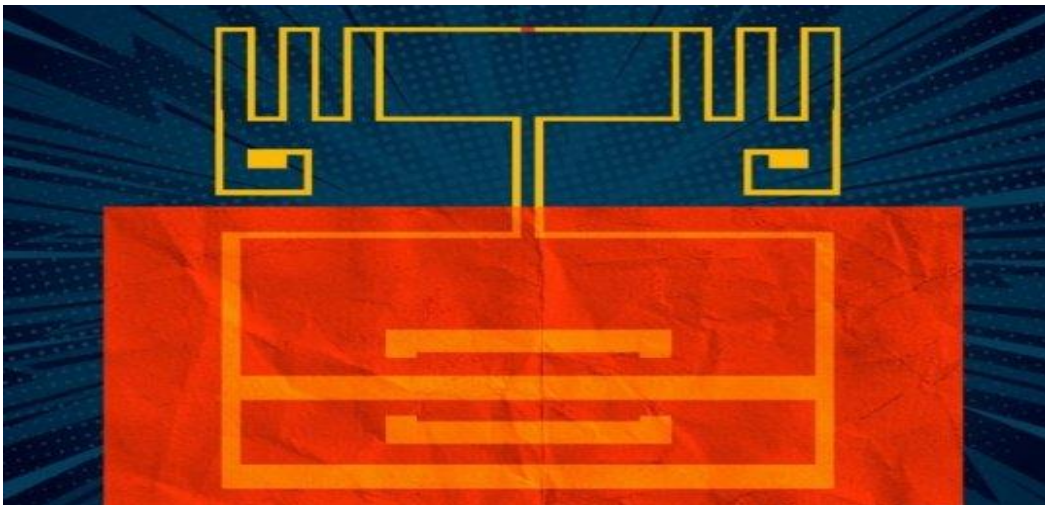
LATEST COMPUTER TECHNOLOGIES

1. Scientists develop first fabric to automatically cool or insulate depending on conditions



This new fabric being developed by University of Maryland scientists YuHuang Wang and Ouyang Min is the first textile to automatically change properties to trap or release heat depending on conditions. Despite decades of innovation in fabrics with high-tech thermal properties that keep marathon runners cool or alpine hikers warm, there has never been a material that changes its insulating properties in response to the environment.

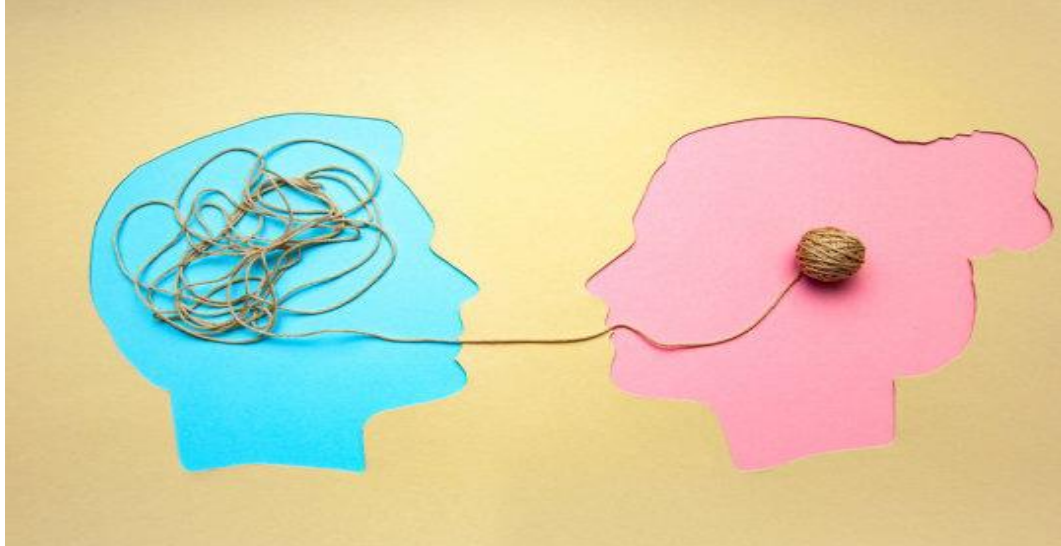
2. Converting Wi-Fi signals to electricity with new 2D materials



Imagine a world where smartphones, laptops, wearables, and other electronics are powered without batteries. Researchers have taken a step in that direction, with the first fully flexible device that can convert energy from Wi-Fi signals into electricity that could power electronics.

Researchers from MIT and elsewhere have designed the first fully flexible, battery-free "rectenna" -- a device that converts energy from Wi-Fi signals into electricity -- that could be used to power flexible and wearable electronics, medical devices, and sensors for the "internet of things."

3. Engineers translate brain signals directly into speech



In a scientific first, Columbia neuroengineers have created a system that translates thought into intelligible, recognizable speech. By monitoring someone's brain activity, the technology can reconstruct the words a person hears with unprecedented clarity. This breakthrough, which harnesses the power of speech synthesizers and artificial intelligence, could lead to new ways for computers to communicate directly with the brain. It also lays the groundwork for helping people who cannot speak, such as those living with amyotrophic lateral sclerosis (ALS) or recovering from stroke, regain their ability to communicate with the outside world.