Mukhar

A NEWSLETTER OF DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Vision of the Department

The Department envisions to nurture students to become technologically proficient, research competent and socially accountable for the welfare of the society.

Mission of the Department

- To provide high quality education through an effective teaching-learning process emphasizing active participation of students.
- To build scientifically strong engineers to cater to the needs of industry, higher studies, research and startups.
- To awaken young minds, ingrained with professional and behavioral ethics for the betterment of the society.

Program Educational Objectives

- Our graduates will employ capabilities of solving complex engineering problems to succeed in research and/or higher studies.
- Our graduates will exhibit team-work and leadership qualities to meet stakeholders' business objectives in their careers.
- Our graduates will demonstrate application of comprehensive technical knowledge for innovation and entrepreneurship.
- Our graduates will evolve in ethical and professional practices and enhance socio-economic contributions to society.

MESSAGE FROM HOD

Prof. Dr. Rishi Soni

Dear Students

I wish you all are doing well wherever you are at home.

The COVID-19 pandemic has badly affected our lives. We are witnessing an incomparable situation which none of us have seen in the past and will probably never be seen again in the future. The health and well-being of students and staff is our top priority for ITM. We are working tirelessly to meet the challenges and best interests of our employees, students. You all are aware that in the current pandemic situation, ITM has followed the instructions issued by the government and other agencies. We are extremely proud of our committed faculty members and support staff members who have excelled in moving towards new ways of working. We have seen the situation of lock down before and this time also we have dealt with it very wisely. ITM is taking gradual steps to bring the students to the campus but the safety of the students and staff remains the biggest concern. It is good news that we are ending the academic year 2020-2021. This year has been one of the most challenging. However, this year has been good in terms of learning and teaching. COVID-19 scared us and improved our routine, but it didn't stop us.

So thank you to all the students, teachers and staff members for your hard work and achievements.

A Three Days
Faculty Development Programme
on
Cyber Security: Challenges And Solutions

A three-day Faculty Development Programme was organized by the Department of Computer Science at ITM Gwalioron 18-20 March 2021 under TQIP-III of RGPV, Bhopal. More than 100 faculties and researchers from across the state participated in this workshop. On the first day of the event, Dr. B. K. Chaurasia from IIIT Lucknow focus on the topic of Foundation of Cryptography.He told that in view of the impact of COVID-19, the use of computer and mobile has increased due to online medium. At such a time, all the user's information becomes available on the Internet. Which hackers can also use wrongly,and can cause a lot of social and economic loss to the users, so we should be careful while working online on the Internet.

Dr. Chaurasia explained how messages are secured with cryptography. On the second day of the workshop, Professor Dr. Shekhar Verma fromIIIT Allahabad spoke about Block-chain technology.Dr. Verma explained Block-chain at many aspects. The program was started by Professor Rashmi Pandey and Professor Neelam Joshi. The program was presided over by Professor S. S. Bhakhar, Vice Chancellor, ITM University. Director of the institute Dr. Meenakshi Muzumdar told that ITM Institute has been organizing such workshops from time to time to maintain the quality of education.Dean Academics Dr.S.S. Chauhan expressed his views to be aware of online frauds in the COVID-19 environment. On this occasion, Dr. Rishi Soni expressed his gratitude to all the eminent speakers and attendees.

AICTE Training And Learning (ATAL)
Faculty Development Programme
on
Internet of Things

ITM Gwalior organized a five day AICTE sponsored Atal Online FDP on "Creating Innovation and Start-ups with Internet of Things" from 7th June 2021. The FDP was organized by the Department of Computer Science Engineering. More than 200 participants participated in this FDP. The objective of the FDP was to make the faculty members aware of the usefulness of the applications of IoT.

The FDP was inaugurated by Prof. Lalit Kumar Awasthi, Director, NIT Hamirpur, Dr. Meenakshi Mazumdar, Director, ITM Gwalior, Dr. Daulat Singh Chauhan, Pro-Chancellor ITM University, Gwalior, Dr. Rishi Soni, Head of CSE Department and other senior faculty members were present in the inauguration of FDP.

The FDP included essential principles along with practical experiments on various simulation software by experts from academic institutions to improve the understanding of technical field.

At the beginning of the inaugural session of the FDP, Course Coordinator Dr. Rishi Soni along with other dignitaries welcomed the Chief Guest and gave a brief introduction to the course to the participants. He highlighted the need for such techniques and courses organized to learn new technologies. The coordinator briefly listed the application of IoT in our daily life, the benefits of using technology. He explained that the main objective of this course is to emphasize on practical sessions for the implementation of theoretical concepts.

Dr. Meenakshi Muzumdar, Director ITM Gwalior, welcomed the Chief Guest and highlighted the achievements of the Institute over the years. Dr. Daulat Singh Chauhan, Pro-Chancellor ITM University Gwalior congratulated and motivated the organizers for using the lockdown period in such a productive manner. He said that organizing such FDP online programs on huge digital platforms is the best use of time amid the COVID-19 pandemic.

Dr. P.N. Mahle, BOS Member, University of Pune, introduced about IoT (Internet of Things). He started the interactive session with a Q&A also explained how with the help of IoT. With the help of a video he explained about the use of IoT in our daily life. Dr. Debanjan Das, Assistant Professor (IIIT-Naya Raipur) explained about IoT and IoT-ficationDr. Tapan Jain, Assistant Professor (ECE), IIT Nagpur. He is also a senior member in IEE as well as faculty in-charge at IIIT Nagpur. The topic of the session was – IoT Overview: Application Development, Use Cases and Research Areas.He started the session with an example on the fundamentals of data science. He explained how data science can help organizations understand their environment, analyze current issues and uncover hidden opportunities.Similarly this FDP lasted for five days, in which many academicians from the country Delivered lectures about IOT applications.

Eminent Speakers

Dr. Parikshit N. Mahalle	Dr. Debanjan Das	Dr. Tapan K Jain	Dr. Vrijendra Singh	Dr. Vaibhav Soni	Dr. Suresh Babu E

Mr. Pratik Jani	Dr. Mohan Venkataramana	Mr. Siddhartha S. Tungare	Mr. Viknesh Vadivel	Dr. Nand Kumar

Faculty Publications

1. Deepak Gupta, "Image recognition of COVID-19 using Dark Covid Net architecture based on convolutional neural network", World Journal of Engineering, © Emerald Publishing Limited ISSN 1708-5284, DOI 10.1108/wje-12-2020-0655, Feb 2021.

2. Deepak Gupta et al., "Review of ECG arrhythmia classification using deep neural network", https://doi.org/10.1016/j.matpr.2021.05.249, Elsevier publication's Materials Today: Proceedings May 2021.

3. Neelam Joshi, "Machine Learning Applications in Medical Diagnosis", Virtual International conference on Technological Development in Computer Applications (VICTDCA-2021), Bhopal School of Social Sciences, 24-25 March 2021.

4. Kuldeep Singh Jadon, "An ensemble approach on scientific paper reviews for sentiment analysis", 10th IEEE international conference on communication system and network technologies (CSNT), 18 June2021.

5. Kuldeep Singh Jadon, "A hybrid unsupervised feature selection algorithm", 10th IEEE international conference on communication system and network technologies (CSNT), 18 June 2021.

6. Kuldeep Singh Jadon, "An analysis on data mining for sentiment analysis using different classification algorithms", 10th IEEE international conference on communication system and network technologies (CSNT), 18 June 2021.

7. Dr. Jitendra Singh Kushwah et al., "Analysis and Visulization of proxy caching using LRU, AVL tree and BST with supervised machine learning", 2214-7853/© 2021, Elsevier publication's Materials, June 2021.

Student Achievements

MEET THE QUALIFIER OF GATE

Divyansh Tiwari
Computer Science Engineering/
Information Technology

Vipin Sahu
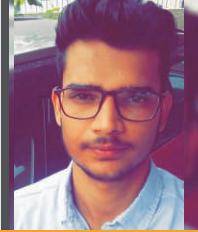Computer Science Engineering/
Information Technology
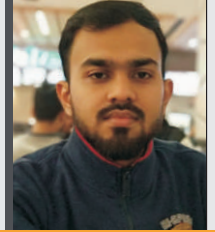
Placements

Priyanshi Gupta
Wipro

Pradeep Sharma
Hexaware

Swapnil Bandil
Hexaware

Vipul Tripathi
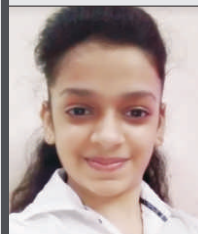Hexaware

Harshvardhan Tomar
InnoEye

Tejasvi Thorat
Wipro/ Inoeye,/
Tech Mahindra

Devanshi Chauhan
Hexaware

Muskan Agrawal
IndiaMart

Mansi Agarwal
Ingenuity Gaming

Priyanshi Saraswat
Whitehat Junior

Shreya Sharma
Infosys and Accenture

Divyansh Tiwari
HomeLane

Saurabh Goyal
Infosys

Sajal Chauhan
TCS and Infosys

Ashish Rathore
Innoeye Technologies

Ashi Gupta
Nagarro

Himanshu Shinde
TCS

Nivedita Tripath
Infosys

Shikha Gupta
TCS

Aman Chauhan
Infosys

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