

Volume 1 | December 2019

# NEWSLETTER



GROUP OF INSTITUTIONS

GWALIOR • MP • INDIA

“THINK BIG... THINK BEYOND”

## INSTITUTE OF TECHNOLOGY AND MANAGEMENT, GWALIOR

AICTE Approved Technical Campus /  
Affiliated to RGPV, Bhopal (Estd. 1997)



# Mukhar

## MESSAGE FROM DIRECTOR



It gives me immense pleasure to introduce the first edition of the half-yearly newsletter 'MUKHAR'. I heartily congratulate the Department of Computer Science Engineering for initiating a new concept in the form of your departmental newsletter. ITM Gwalior was established in 1997. ITM is an A-Grade institute. ITM is an AICTE, Govt. of India approved institution, and recognized by Govt. of M.P. and affiliated to Rajiv Gandhi Pradyogiki Vishwavidyalaya (the University of Technology of M. P.), Bhopal. The institute is envisioned to impart quality education in the field of Engineering and Technology so that it can emerge as a world-class institution and produce top-class engineers and technologists. The main achievement of ITM GOI is the higher placements of the students. One of our greatest strengths is our highly qualified and dedicated faculty members and staff. Our students are always eager to learn new concepts. The annual Technical Festival (KRONOS) is successfully organized every year, in alliance with students and teachers. I once again congratulate the members of the editorial board of the Department of Computer Science and the faculty and staff members, and especially the students who helped make the first issue a reality.

**Dr. Meenakshi Mazumdar**  
Best Wishes

## MESSAGE FROM HOD



It's a great feeling of joy and satisfaction to wish for the first half-yearly newsletter 'MUKHAR' released by the Department of Computer Science & Engineering. The newsletter is a new academic venture to encourage students and faculty members to indulge in academically friendly and institutionally approved activities. This newsletter is to disseminate information on different activities of the Department. Here you will find the news about the department, the programmes successfully conducted by the department like the workshops, seminars organized with the support of various industry experts, also students and faculty achievements, etc. This newsletter is intended to bring out the hidden literary talents in the students and faculties to inculcate strong technical skills among them. The newsletter is a new educational venture to encourage students and concerned faculty members and involve them in academically friendly and institutionally approved activities. The department is focusing on providing high-quality engineering education to students with adequate practical training.

I congratulate the entire team of editors and the designing team of 'MUKHAR' for putting their valuable efforts into the newsletter and making it reader-friendly. I congratulate the faculty, staff, and students who have contributed to publishing this newspaper.

**Prof. Dr. Rishi Soni**  
Best Wishes

# ABOUT THE DEPARTMENT

Department of Computer Science and Engineering has been successfully functioning since 1997. It offers B.Tech (Computer Science and Engineering) and M.Tech (Computer Science and Engineering). The Department of CSE has good interactions and MOUs with Training & Development Industries. Department of CSE under ITM GOI, signed pacts in the form of MoUs with IT industries for student placements. It organizes Symposia, Exhibitions, Conferences, Seminars and Workshops, Faculty Development Programme for students and Faculty. The Department comprises nine computer labs with more than 400 computer systems, state of art computing facilities with sufficient power supply backup. Our students are placed in various top MNCs like Infosys, IBM, Tech Mahindra, Accenture, MindTree, Wipro, Hexaware, TCS, Amazon, etc., for deserving & esteemed packages. The Department of CSE takes care of the Software & Hardware requirements of the entire Institute. The strength of the CSE Department is its Alumni, which adds a good amount of perception rating to the department by being most illustrious. Department is committed to encouraging students/researchers to carry out innovative research in the field of Computer Science & Engineering, keeping excellence in focus and delivering quality services to match the needs of the technical education system, industry, and society. Students of the CSE department are motivated to be innovative in their thinking while being strong in the Computer Science Core Knowledge. The department of CSE as a whole aim at the development of Ace Computer Science Professionals with ethical values & societal concerns.

## 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.





# Student Orientation Programme

The orientation program of B.Tech students at ITM Group of Institutions, Gwalior was conducted on 19-20 August 2019. Students were motivated by Vice-Chancellor Dr. K.K. Dwivedi, ITM University, Gwalior. Dr. Dwivedi focused on the relationship between Mentor and Mentee. He said that Mentoring is a relationship to provide personal and professional support to the mentee. The mentor is generally more experienced than the mentee and guides the mentee for their overall development. The role of a student mentor can be considered facilitating, supportive and developmental for the student community in general and first-year students in particular. Dr. Meenakshi Majumdar, Director of ITM Group of Institutions welcomed the students and gave them detailed information about the vision, mission, and values of the Institute. Then the students were addressed by the Dean Academics Dr. S. S. Chauhan, who welcomed the students and gave them an introduction regarding the academic disciplines. Dean Student Welfare Prof. Manoj Mishra, next discussed miscellaneous affairs of the institute namely scholarships, student welfare, code of conduct. Following next was a brief on the importance of sports in student life, its role in acceptance at various organizations, and the sports curriculum of the institute, by Prof. Nitin Dixit. This was followed by Mr. Rakesh Dhaka, Chief Warden, who discussed the housing environment at the institute, the facilities, and infrastructure activities in the hostels, mess, and hostel maintenance committees.



# One week Teachers Training Program

The Department of Computer Science & Engineering, ITM Gwalior, organized One week teachers training Program on 17th-21st December 2019 Under TEQIP-III on machine learning and artificial intelligence by using python. In the inaugural session, Chief Guest as well as the Expert of the first session Dr. D. K. Chaturvedi from Dayalbhag University, Agra, Dr. Daulat Singh Chauhan, Pro-chancellor, ITM University Gwalior, Dr. K. K. Dwevedi, Vice Chancellor, ITM University Gwalior, Dr. Meenakshi Mazumdar, Director ITM, Dr. S. S. Chauhan, Dean Academics, ITM GOI, Dr. Manoj Mishra, DSW, ITM GOI, Dr. Rishi Soni, HOD CSE, ITM GOI, all the faculty members of CSE & IT department and all participants of the workshop were present. Dr. D. K. Chaturvedi said that soft computing is useful for solving modern problems. He told that the loading and unloading of goods take more time at the ports of India, so the ship is being loaded and unloaded in Singapore. Man is becoming a machine and is also losing value. If you can infuse moral values and the ability to experience inside the robot, then it will be a great achievement for us. The way Alexa Robot does the tasks we have told, if common-sense pulses are given in it, then it will think like a human. Dr. Shekhar Verma of IIIT Allahabad said that the machine learns from the environment and can change its behavior accordingly. Machine learning algorithms are used for this, its benefits are being discovered. Experts Mr. Nipun Sachdeva and Siddharth Bhatia from M2R Technomations, Gurgaon discussed machine learning using python. Mr. Nipun Sachdeva explained the programming language methods in an experimental way. He told me how we can use machine learning in Python. He further told that the python language is very powerful and dynamic. With the help of this language, we can design all kinds of software. In this, with the help of Numpy and pandas can do data analysis work. All the participants did data analysis on the computer. On the last day of the program, Professor Mahua Bhattacharya of IIITM, Gwalior delivered his lecture on the topic of Machine Learning and Artificial Intelligence for Health Informatics. He told that machine learning is more capable than traditional programming. In machine learning, programs learn from the environment and create new learning models. He explained the use of machine learning algorithms to identify diseases and collect accurate data in medical science. He told that the help of wavelet transform is taken in machine learning because the multiresolution is detected by wavelet transform to sense the irregular growth of tissues inside the body such as brain tumors and cancer. In the next session, Dr. Manoj Mishra DSW, ITM discussed with all the participants about report writing. Dr. Meenakshi Mazumdar and guest Dr. Mahua Bhattacharya were present at the end of the program. Co-coordinator Manuj Mishra thanked the organizing team of the program and all the experts wholeheartedly.





# Faculty Achievement's

## Publications

- Jitendra Singh Kushwah, "Various Techniques used to Improve the Performance of Proxy Caching", December 25, 2019, EasyChair Preprint 2247.
- Aruna Bajpai, "Machine Learning and its Algorithms A Research", International Journals of Innovative Technology and Exploring Engineering (IJITEE), October 2019, Vol-8, Issue: I2S2, ISSN: 278-3075

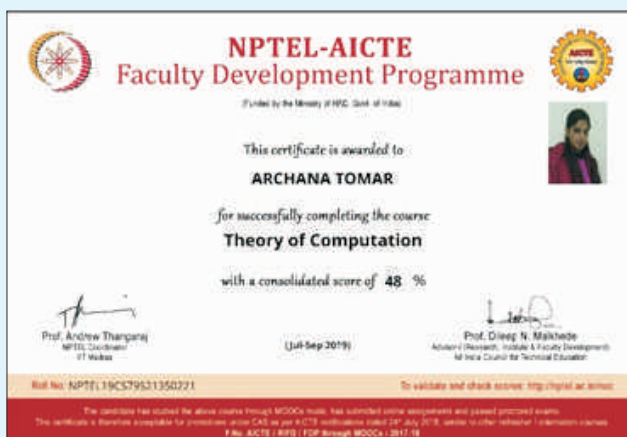
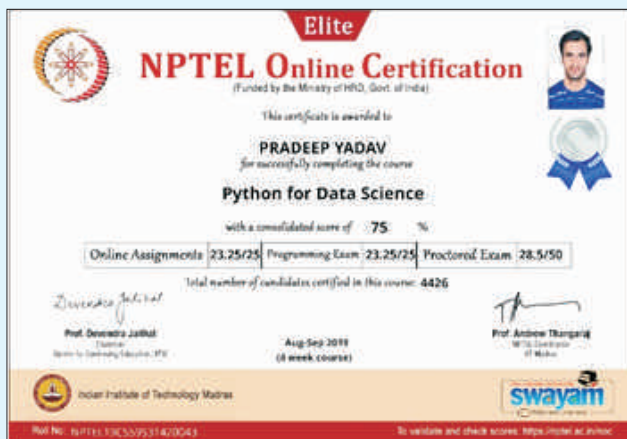
## Book/ Book Chapter

- Mr. Pradeep Yadav, "Evaluation of Model using J-48 and other Classifier on Kddcup 99 through Performance Metrics", October 2019, Publisher: ICAICR

## FDP/STTP Attended

S.No.	Name of Faculty	Nature of the program	Topic	Organized By	Approved By
1	Ms. Reena Chauhan	Faculty Development Programme	ML and AI by Using Python	RGPV, Bhopal	RGPV Bhopal under TEQIP-III
2	Mr. Shirish Mohan Dubey	Faculty Development Programme	Machine Learning and Ai with Python	RGPV, Bhopal	RGPV Bhopal under TEQIP-III
3	Ms. Anushree Chausalkar	Faculty Development Programme	ML and AI by Using Python	RGPV, Bhopal	RGPV Bhopal under TEQIP-III
4	Ms. Aruna Bajpai	Faculty Development Programme	ML and AI by Using Python	RGPV, Bhopal	RGPV Bhopal under TEQIP-III
5	Mr. Gaurav Dubey	Faculty Development Programme	Product to be Smart with Artificial Intelligence	RGPV, Bhopal	RGPV Bhopal under TEQIP-III
6	Mr. Gaurav Dubey	NPTEL (12 Weeks)	Computer Networks	SWAYAM	SWAYAM
7	Mr. Manuj Mishra	NPTEL (8 Weeks)	IIT, Kanpur	IIT, Kanpur	IIT, Kanpur
8	Mr. Gaurav Dubey	Faculty Development Programme	InfyTQ based foundation program	Infosys	Infosys

## Certification Course



## Congratulations

- On the occasion of Teachers Day, 5th September 2019, Mr. Jitendra Singh Kushwah was felicitated by the management of ITM-GOI Gwalior for Innovation in Teaching.
- On the occasion of Teachers Day, 5th September 2019, Ms. Aruna Bajpai was felicitated by the management of ITM GOI, Gwalior for Most Regular Teacher.



# Students Achievements

## Smart India Hackathon 2019 under Hardware Category

"Megatron" has been awarded by 1st runner up in Smart India Hackathon (Hardware Edition) 2019. Smart India Hackathon is the world's 1st nation-building innovation competition organized by Honourable MHRD, AICTE, Govt. of India, Indian innovation cell, KPIT, Deloitte, Doordarshan, and other recognized organizations to provide a platform for young engineers to solve real-life problems with innovative products.

Over 2 Lakhs engineering students/35000 teams from over 2500 technical colleges/Universities including IITs and NITs in the first round and from them only 250 teams made to the final round and only 3 teams at each nodal center are announced as winners. At our nodal center which is (Veltech Chennai), Team ARICS (Dayanad Sagar college of engineering) got the 1st position, Students team "Megatron" (ITM Group of institutions) got 2nd position and Team "Yuva Innovators" (NIT Srinagar) got the third place.



## Smart India Hackathon 2019 under the renewable energy category

Smart India Hackathon 2019 is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving. The Computer Science & Engineering student's team of ITM GOI was selected in the grand finale of hackathon 2019 among 100+ teams nationwide. Team modernity challengers of ITM-GOI innovated and implemented a new concept on renewable energy under the guidance of Ms. Aruna Bajpai and Mr. Kuldeep Singh Jadon. The team worked on the energy-efficient building. According to Team Leader Abhay Singh Bhadoriya, the concept of "Energy Efficient Building" was the building that are designed to provide a significant reduction of electrical energy consumption needed for heating, cooling, and lightning purpose. The "Energy Efficient Building" becomes one of the finest solutions for the reduction of energy consumption. According to government data buildings are responsible for one-third of India's total electrical energy consumption. With the energy-efficient buildings, we will be supposed to conserve about 15 percent of the total electricity consumed in India. The Model "Energy Efficient Building" was based on renewable energy from the sun, various technologies for insulation, ventilation, and home automation. Team members of modernity challengers were Aman Sharma, Aparna Tiwari, Manav Gupta, Deeksha Rajpoot, and Sanjay Kushawah





# PLACEMENTS



**Shivam Agrawal**  
(Placed in Infosys)



**Abhay Pratap Singh**  
(Placed in Infosys)



**Aman Singh Kaurav**  
(Placed in Infosys,  
Cognizant)



**Neeraj Batra**  
(Placed in Extramarks)



**Mayank Sharma**  
(Placed in Quickr  
India Pvt. Ltd.)



**Shreya Saboo**  
(Placed in IBM)



**Madhu Pal**  
(Placed in Cognizant)



**Sunny Kakrani**  
(Placed in Cognizant)



**Mehul Sharma**  
(Placed in Cognizant)



**Raja Ojha**  
(Placed in Cognizant)



**Rohan Pandey**  
(Placed in Hostbook)



**Praveen Kumar**  
(Placed in Hostbook)





# Alumni Speaks



**Uma Prateek Mishra**

ITM has changed my life completely. I have learned a lot of new things in this beautiful journey of 4 years. Tap cell has always been so supportive and provided the best platform to achieve my goals. I would like to thank Tap-cell and all the faculty for being a part of my success.



**Poorvi Agarwal**

The journey of ITM has been a very wonderful experience. Without the support of teachers, my journey won't be possible. And also, the Training conducted by TAP CELL played a major role in improving my skills and personality. So I would like to thank every teacher who supported me and guided me throughout these 4yrs and helped me grow. Thank You



**Pawan Verma**

I always aspired to pursue my Engineering in Computer Science at ITM. And now in these past 04 years, I have realized my dream every day. I am extremely grateful to the faculty and management with whose undivided support I have been able to accomplish my program in a very progressive environment. The guidance I have received at every milestone has helped me thrive to my best abilities. I would also like to extend my sincere thanks to TAP cell that has been very effective and instrumental in the placement processes. It has been a fulfilling and rewarding journey at ITM which provided me a great platform for a promising career.



**Hari Gurwani**

It's been an amazing journey with ITM Family. ITM gave me the perfect platform where I have explored my talent and improved my skills. The faculty of ITM gave support with care and helped me throughout my projects and internships. The Modules and Training Sessions of the TAP cell helped me to get success in Placement Process. I take this opportunity to thank all the academic and non-academic staff for providing sufficient support to my aspirations for becoming a successful person both at personal and professional front.



## Editorial Board

Editorial Team:

**Mr. Pradeep Yadav**  
Assistant Professor  
Dept. of CSE

**Ms. Archana Tomar**  
Assistant Professor  
Dept. of CSE

Student Representatives:

**Ms. Khyati Garg**  
CSE, 7th semester

**Mr. Neeraj Batra**  
CSE, 7th semester