



INSTITUTE OF TECHNOLOGY
& MANAGEMENT
GWALIOR • MP • INDIA

“THINK BIG... THINK BEYOND”

INSTITUTE OF TECHNOLOGY AND MANAGEMENT, GWALIOR

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



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

It gives me great pleasure to communicate with you all through this newsletter. ITM took the initial lead by handling the classes seamlessly in the teaching-learning process. We intend to bring the best learning experience to the students through online learning platforms. The country has entered a difficult phase due to the COVID-19 pandemic.

I can't help but wonder how the COVID-19 pandemic has drastically changed the lives of all of us. After the lockdown in March 2020, classes were conducted using online mode. The final year exam was conducted online. The department thanks all the faculty members and technical staff members for their cooperation and hard work during this difficult time.

The upcoming semester will also be conducted online. I highly appreciate the faculty members and students for participating in the online courses on Coursera, NPTEL, Spoken Tutorials, etc., in the area of ☐ interest. Learning Management System (Tattva) has played a vital role in

enhancing the learning experience which is included in our teaching-learning process. The students were helped round the clock by interactive video lectures, study materials, notes, quizzes, activity-based projects uploaded by faculty members on LMS.

The students need to maintain their enthusiasm and utilize this time to equip themselves with new skills. I am sure we all will face this challenge. We got an excellent response from the students.

The editorial team of the department has put in a lot of hard work in publishing this newspaper. I congratulate and thank them for all their efforts.

Two Days Workshop on Entrepreneurship

The two-day workshop was organized by the Department of Computer Science and Engineering, ITM on 30-31 January 2020 Under TEQIP-III. The program was completed in four phases. On the first day, Mr. Atul Gautch highlighted the main points of entrepreneurship in his lecture. In the second session, Mr. Pawan Tiwari, coordinator of IdeaPad cell ITM, told in his lecture that Business Idea Generator is the demand of today. He discussed many things with the students regarding their curiosity. He told that according to the need, any thought that comes in the mind should be implemented and it is also said that necessity is the mother of invention.

On the second day third session of the program, Professor Anurag Srivastava of ABV-Indian Institute of Information Technology and Management Gwalior discussed many aspects of private and commercial entrepreneurship. He told that it is like a journey that starts from home itself. Professor Anurag Srivastava explained the cycle of ideation and designing the business model – in a risk-free environment. Students were benefitted by knowing the different angles to ideas and challenges, exchanging with peers and experts, and building international business networks.

Taking the program forward, he told that before starting any business, the idea of entrepreneurship is the personal and unique thinking of any person inspired or made by himself. In the fourth session, Sapnesh Agarwal, Senior Manager focused on the challenges an entrepreneur has to face in his business. On this occasion, Dr. Daulat Singh Chauhan, Managing Director of ITM, Director Dr. Meenakshi Mazumdar, Dean Academics Dr. S.S. Chauhan, Program Coordinator Rishi Soni and all the faculty and staff members were present. At the end of the program, Kuldeep Singh Jadon expressed his gratitude to all.



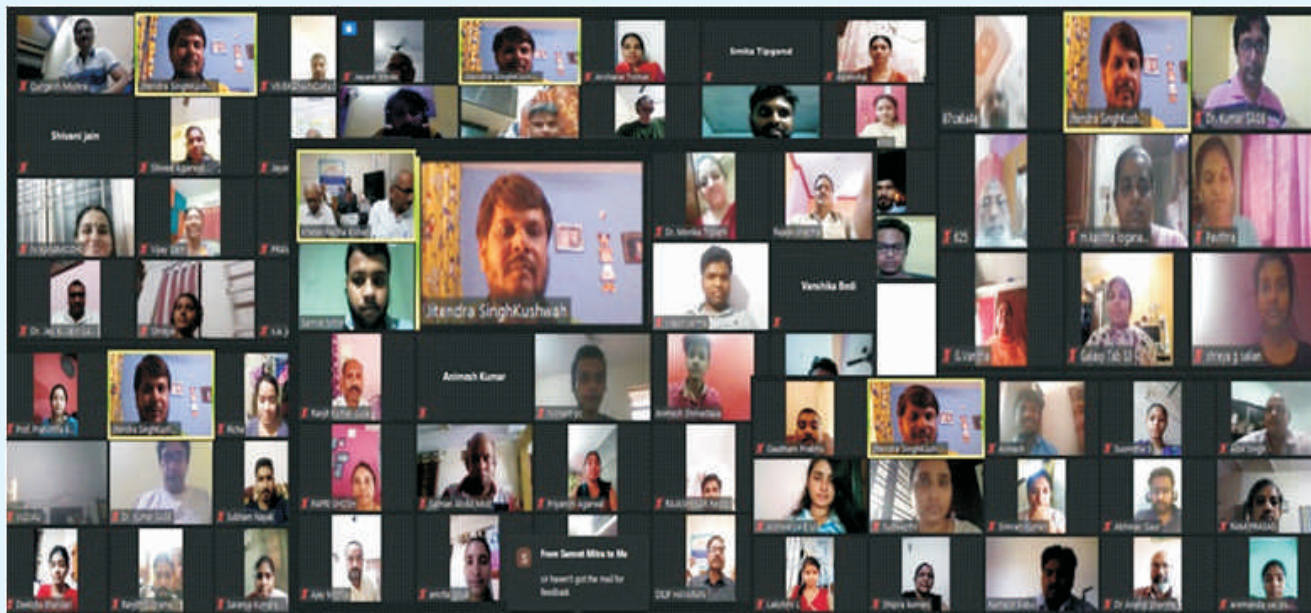
Two Days Workshop on “Data Science & Visualization Using Python”

Three days workshop was conducted on “Data Science & Visualization Using Python” on 24th – 26th May 2020 in association with The Institute of Engineers (India) organized by CSI Gwalior Chapter, Gwalior(MP).

In Inaugural function, Mr. Jitendra Singh Kushwah, Assistant Professor, ITM Group of Institutions Gwalior, Mr. JayantBhide, Regional VP, Region-3 CSI, Mr. DilipHayaran, Chairman, CSI Gwalior Chapter, Mr. RakeshKhetan, Member, IE Gwalior Chapter, and Mr. Prabhat Bhargava, Secretary IE Gwalior Chapter were present. Our Regional director Mr. JayantBhide encouraged the participants for the workshop and suggest conducting this type of workshop in the future for the faculty& students. Mr. Bhide also welcomes the expert and other dignitaries. Inaugural function hosted by Mr. Khetan, Member IE Gwalior Chapter. 852 candidates were registered for the workshop. So, a huge response reflects in the workshop from all over India.

Mr. Jitendra expert of this online workshop continue this workshop and ask some questions to the participants regarding Data Science to know the knowledge of participants. In this session, he gave an introduction to Data Science and its need in the current scenario, Applications of Data Science, Steps involved in Data Science, Data Visualization, and its usability in data science. These days, Mr. Jitendra taught analysis of the dataset, visualizes the data after analysis using Python editor Jupiter. All the sessions were hands-on. Students enjoyed all the sessions and ask many questions. Mr. Jitendra covered theoretical and practical sessions of all the topics successfully online using the ZOOM app.

In the valedictory function, Mr. JayantBhide Regional VP, Region-3 CSI, Mr. DilipHayaran Chairman, CSI Gwalior Chapter, and Expert Mr. Jitendra Singh Kushwah were present. Vote of thanks given by Mr. DilipHayaran. He thanked the dignitaries, Academicians, Industry Professionals, Students, and the members of the CSI Gwalior Chapter for the support to make the entire workshop a grand success. At the end of the valedictory function, Mr. Jitendra shares his view about three days workshop. He said that participants' response was overwhelming despite being a COVID-19 and they participated in all the activities very interestingly. In this session, participants also share their views about the workshop and experts.



Faculty Achievement's

1. Research Publications

- a) Kuldeep Singh Jadon, "A Survey on Various Classification Approaches in Wireless Sensor Network, Conference (ICICC-2020), 21-23 Feb 2020.
- b) Kuldeep Singh Jadon, "Improved Performance Using Fuzzy Possibilistic C-Means Clustering Algorithm in Wireless Sensor Network", Conference (CSNT-2020), 10-12 June 2020.
- c) Pradeep Yadav, "A Survey on IOT enabled cloud platforms, Conference CSNT", IEEE, 2020.
- d) Neelam Joshi, "IOT based smart and secure home design utilizing cisco packet tracer 7.2 simulator", 2nd IEEE International conference on Data Engineering and Applications (IDEA-2020) , SoIT, RGPV, Bhopal, 28-29 February, 2020.
- e) Pradeep Yadav, "Compression of the videos using hybrid method in dither based block truncation technology with improved similarity measurement algorithms", International Journal of Advanced Science and Technology, ISSN 200-4238, Volume 29, Issue 3, pp.3351-3357, 2020.
- f) Neelam Joshi, "Machine Learning – Learning Techniques, CNN, Languages and APIs", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN 2456-3307, Volume 6, Issue 3, pp 23-30, May 2020.
- g) Neelam Joshi, "Smart and secure home using IOT Simulations with Cisco Packet Tracer", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN 2456-3307, Volume 6, Issue 3, pp. 88-93 ,May 2020.
- h) Jitendra Singh Kushwah, "Improve the Performance of Proxy Caching Using LRU, AVL Tree and BST", STM Journal- Journal of Web Engineering & Technology, Volume 7, Issue 1, pp. 13-20, April 2020


2. Patents:


S.No.	Name of Faculty	Patent Title	Application Number	Date	Status
1	Dr. Jitendra Singh Kushwah	An IoT Enabled Cloud Computing based Remote Monitoring System of Hazardous, Flammable and Explosives Leakage for Chemical Industries	202041015822 A	22/05/2020	Published

3. FDP/STTP Attended

S.No.	Name of Faculty	Topic	Organized by
1	Dr. Pradeep Yadav	Data Analytics using Python	NITTTR, Chandigarh
2	Mr. Manuj Mishra	Data Analytics using Python	NITTTR, Chandigarh
3	Dr. Pradeep Yadav	Block Chain	MSME-Technology Development Centre (PPDC)
4	Mr. Manuj Mishra	Block Chain	MSME-Technology Development Centre (PPDC)
5	Dr. Pradeep Yadav	Internet of Things	NITTTR, Chandigarh
6	Mr. Manuj Mishra	Internet of Things	NITTTR, Chandigarh

4. Certification Course

**NPTEL Online Certification**
(Funded by the Ministry of HRD, Govt. of India)





Covid-19
Impacted
January 2020
semester

This certificate is awarded to
PRADEEP YADAV
for passing the course
Software Testing
with Score* **93** %


Jan-Feb 2020
(4 week course)


A. Goswami
Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur

 Indian Institute of Technology Kharagpur



*Continuous online assessment score To validate and check scores: <https://nptel.ac.in/noc>

**NPTEL Online Certification**
(Funded by the Ministry of HRD, Govt. of India)




Covid-19
Impacted
January 2020
semester


This certificate is awarded to
PRADEEP YADAV
for passing the course
Data Analytics with Python
with Score* **94** %

Jan-Apr 2020
(12 week course)

Prof. V. C. Srivastava
Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Prof. Inderdeep Singh
Prof. Inderdeep Singh
NPTEL Coordinator
IIT Roorkee

 Indian Institute of Technology Roorkee



*Continuous online assessment score To validate and check scores: <https://nptel.ac.in/noc>


UC San Diego

06/04/2020

Dr. Pradeep Yadav
has successfully completed
Introduction to Big Data
an online non-credit course authorized by University of California San Diego and
offered through Coursera

Ilkay Adil
Ilkay Adil
Chief Data Science Officer
San Diego Engineering Center

Research (Big)
Research (Big)
San Diego Engineering Center

**COURSE
CERTIFICATE**

Verify at coursera.org/verify/ucsd/06/04/2020
Coursera has confirmed the identity of this individual and
their participation in the course

**NPTEL Online Certification**
(Funded by the Ministry of HRD, Govt. of India)



Covid-19
Impacted
January 2020
semester

This certificate is awarded to
KULDEEP SINGH JADON
for passing the course
Problem Solving through Programming in C
with Score* **78** %

Jan-Apr 2020
(12 Week course)

A. Goswami
Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur

 Indian Institute of Technology Kharagpur



*Continuous online assessment score To validate and check scores: <https://nptel.ac.in/noc>

Placements



Aman Sharma
TCS and Infosys



**Anukul Pratap
Singh Tomar**
TCS and Infosys



Hemendar Singh
TCS and Infosys



Ritika Saxena
Zessar Technology



Rohit Joshi
TCS and Infosys



Poorvi Sharma
TCS, Infosys and
Xenonstack



Prakhar Saxena
Infosys and Wipro



Rohan Gupta
Infosys



Kunal Khot
TCS and Infosys



GATE QUALIFIED STUDENTS



Swapnil Bandil



Piyush Gupta



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