



**Faculty of Engineering & Computing Sciences**

# **Computing Vision**



**Volume 7, Issue 3,  
Jan - March 2022**

**A Student Magazine**

**CCSIT & FoE idea factory**

**A Voice of an effort...**

**Teerthanker Mahaveer University Moradabad, Uttar Pradesh**

**[www.tmu.ac.in](http://www.tmu.ac.in)**

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## VISION

To be internationally recognized as a premier institution of excellence, providing quality education, research and consultancy services to the global society.

## MISSION

Our endeavor is to impart knowledge and develop critical skills necessary to succeed both in professional and personal life by promoting learning supported by world-class faculty, infrastructure, technology, curricula and collaborative teaching and research with premier institutions in India and abroad.



## Focus

In our quest to make the university a destination for world-class education, following nine-fold priority areas have been identified for actions: Teaching and Learning: Create conducive environment for an interactive and application oriented experiential learning. Research: Foster research orientation in students and faculty in basic and applied areas in all disciplines.



**Consultancy Services:** Take academic proficiency to corporate and community by providing cost effective solutions People: Make Teerthanker Mahaveer University a preferred destination for work and study.

**Global Perspective:** Encompass a national and international viewpoint into teaching, research and consultancy.

**Good Governance:** Bring transparency and accountability in university operations. Social Relevance: Position itself as a catalyst for social change.

**Entrepreneurial Culture:** Nurture entrepreneurial capabilities to accelerate growth. Sports and Culture: Provide ample opportunities to develop sportsmanship and love for culture and national heritage

## Message Board

### **Shri Suresh Jain, Hon'ble Chancellor, TMU**

I am very glad to know that Faculty of Engineering and Computing Sciences-FOECS, Teerthanker Mahaveer University, Moradabad, is going to publish the next issue of its quarterly magazine "Computing Vision" (January-March, 2022)- Volume: 7, Issue: 3.

Creativity distinguishes human being from the rest of the living world. The success in life depends upon creating high ethical and moral values besides imparting and inculcating up-to date knowledge and skills. Every step towards progress has been made possible due to the awe-inspiring capacity of the human mind to invent, innovate and create. The holistic approach of an institute stimulates innovation among students by inspiring fresh ideas with different perceptiveness, creative thinking and strong conviction to achieve true success. A college magazine is the valuable asset of an institution, in true pursuit, towards learning and knowledge. It is the result of collective effort and team work of students, faculty and staff members for demonstrating intellectual, moral and ethical values of the society. It also nurtures the budding ideas of innovation and creation to bloom in their full exuberance.

I extend my whole hearted support to all the members of FOECS for making their efforts through the revelation of various facades of cultural, literary, sports, social and club activities. I am sure that the magazine would achieve its objectives of bringing about holistic development of students going to shoulder the responsibility of their society and nation. I wish you all the best for achieving greater success and scaling newer heights in your education and career ahead. I extend my best wishes for the publication of this issue of the magazine.



Shri Suresh Jain  
Hon'ble Chancellor, TMU

### **Shri Manish Jain, Hon'ble Group Vice Chairman, TMU**

I have a great pleasure in conveying my best wishes to Faculty of Engineering and Computing Sciences on the release of this spectacular new issue of their magazine 'Computing Vision'. Good things remain good only because they are always scarce. I am glad to pen for this wonderful magazine as an appreciation of the commendable efforts put forth by the college. This magazine has added value to their constant efforts. Through this message, I wish them "All the very Best" for their future endeavors and hope the students of FOE&CS bring more laurels to the college on the whole.



Shri Manish Jain  
Hon'ble Group Vice Chairman, TMU

### **Shri Akshat Jain Esteemed member, TMU**

I am glad to know that FOE&CS is publishing the College Magazine Computing Vision. I convey my best wishes to all the students and faculty for their endeavours in bringing out the magazine.

It gives a feeling of immense gratification to see FOE&CS striving hard and contributing its best to create industry ready, globally competitive students and socially acceptable human beings. I am confident that under the able leadership of Dr R K Dwivedi, the college will emerge as an excellent launching ground for success and help students to reach the pinnacle of glory.

I convey my best wishes to everyone to scale up to greater heights of excellence in the years to come.



Shri Akshat Jain  
Esteemed Member, TMU

## Message Board

### Respected Vice Chancellor, TMU

Good things remain good only because they are always scarce. I am glad to pen for this wonderful magazine as an appreciation of the commendable efforts put forth by the team for its grand efforts. The efforts taken to bring about innovative content is appreciable. Content on the various opportunities available in the corporate world and alerts on various student level competitions shall be included hence forth. Wish you all a grand operation throughout the year.

The effective use of technology and technology-mediated or blended mode of teaching and learning approach has now become a norm. With the National Education Policy 2020, as a guiding source, we need to work towards implementing the principles and ideas enshrined in the policy in totality. We have already begun to implement it in a phased manners. I am happy that our University is putting right steps in adopting the change and is contemporary in its approach.

I convey my good wishes to the principal, faculty and staff of the college in their endeavors. Hope this magazine proves to create dynamic bond between the faculty and student.



Prof. Raghuvir Singh

Vice Chancellor, TMU



Prof. R.K Dwivedi

Director & Principal, FOECS, TMU

### Respected Director & Principal, FOECS, TMU

“Vision without action is a daydream, and action without vision is a nightmare. Your heart is free, have the courage to follow it.” is rightly quoted by Melchor Lim. With the same courage and proud, I am extremely elated to apprise that the “Computing Vision”, a regularly issued quarterly magazine is the mirror of reflecting remarkable actions carried out time to time by the Faculty of Engineering and Computing Sciences in the persuasion of its vision.

Mr Joel Barker also said, “Action with Vision is making a positive difference.” And the milestone of this positive difference set by ‘Computing Vision’ is commendable. Success of this effort to bring out ‘Computing vision’ on regular basis is the result of dedicated teamwork put in by all concerned.

I express my compliments to all worthy members of FOE&CS for their valuable efforts in releasing this issue. I wish them all triumph!

# Innovation through Computing Vision Machine & Deep Learning

**Title:** Innovation through Computing Vision Machine & Deep Learning

**Date:** 24th-25th January, 2022

**Start time:** 09:30am

**End Time:** 12:00 pm

**Type of Event:** Two days workshop

**Agenda:** Learning Concept and model Machine & Deep Learning

**Venue:** Online Mode

**Host:** Dr Ranjana Sharma, Prof Ashendra Kr. Saxena, Mr. Vineet Saxena, Ms Neeraj Kumari, Mr. Ashish Bishnoi, Mr. Rajendra Prashad Pandey from College of Computing Sciences & Information Technology, TMU

The two workshop, under the name of 'Innovation through Computing Vision Machine & Deep Learning' was organized for MCA students on 24th-25th January, 2022 under the banner of IEEE and Institution's Innovation Council, College of Computing Sciences and Information Technology (CCSIT), Teerthanker Mahaveer University Moradabad (UP). The program started with lamp lightening ceremony in front of goddess Saraswati.

The session is on Innovation through Computing Vision Machine & Deep Learning' chosen by the Trainees should through interactive tools and augmented Reality which was conducted by eminent speaker Dr. Deepika Pantola (Assistant Professor, Bennet University Greater Noida). She explained each and every aspect of machine and deep learning, who can help in research and innovation. She focuses on different model and application of deep learning. She discussed and She suggested the all-important key factors who become to support researchers in research field A lot of questions were asked by the participants like benefits tool and model in research and innovation. Overall session was very informative and participants and gave their attention and appreciated her session. All the students have participated with full enthusiasm. A lot of questions were asked by the participants like benefits deep learning model and application. Session were very enlightening and informative and the participants also responded by appreciating the session through their messages in the chat box. Overall session was very informative and participants and gave their attention and appreciated his session.

Prof R K Dwivedi, Principal of FOE&CS appreciated the event and conveyed his best wishes to all the participants. He elaborated on all career opportunities in field deep learning and data science.

The workshop headed by Dr Ranjana Sharma, Prof Ashendra Kr. Saxena, Mr. Vineet Saxena, Ms Neeraj Kumari, Mr. Ashish Bishnoi, MrRajendra Prashad Pandey .

Dr.Ranjana Sharma delivered vote of thanks to all for making the event delighted and successful. The program was anchored by Ms. Mavvi Rana , the students of MCA.



# Khoj-12 Mega Quiz Contest 2022

Title: Khoj-12 Mega Quiz Contest 2022

Date: 31-01-2022, 04-02-2022, 05-02-2022, 12-02-2022

Start time: 10:30am End Time: 4:45pm

Type of Event: Technical Quiz contest for all Course

Agenda: Technical Quiz contest for all Course

Venue: Online on zoom platform

Host: Techno club CCSIT TMU Moradabad

Description of Event / Write up: The most awaited event, Khoj has completed its 12th online version. Event was completed in 3 phases, first round, second and final round. Khoj-12 Mega Quiz Contest 2022 Under the banner of College of Computing Sciences and Information Technology, TMU, Techno Club Organized by Ajay Chakravarty, Vineet Saxena, Mohd Saleem & Rohilla Naaz Technical Mega Quiz contest "Khoj(12) 2022" for the session of 2021-2022. This particular event was totally Online based and 485 students participated. The summary of the quiz is as follows.

**S.No: 1**

**Event Date:** 31-01-2022

**Event Name:** Mega Quiz Contest KHOJ 2022 Round 1

**Key Resource Person (If Applicable):** Prof R.K.Dwivedi (Director FOECS)

**Participants Profile:** Participant belongs to following course:

B.Tech, MCA & MCAL, BCA & B. Sc.CS, BCA +MCA

**Total Participants:** 485

**S.No: 2**

**Event Date:** 04-02-2022, 05-02-2022

**Event Name:** Mega Quiz KHOJ-12-2022 Round 2 (Junior Level and Senior Level)

**Key Resource Person (If Applicable):** N/A

**Participants Profile:** Participant belongs to following course:

B.Tech, MCA & MCAL, BCA & B. Sc.CS, BCA +MCA

**Total Participants: Junior Level:-** 30 (15 Teams) **Senior Level:-** 32(16 Teams)

**S.No: 3**

**Event Date:** 12-02-2022

**Event Name:** Mega Quiz KHOJ-12-2022 Round 3 (Junior Level and Senior Level)

**Key Resource Person (If Applicable):** Prof R.K.Dwivedi (Director FOECS)

**Participants Profile:** Participant belongs to following course:

B.Tech, BCA, B. Sc.(H)CS, BCA +MCA

**Total Participants: Junior Level:-** 10 (5 Teams) **Senior Level:-** 8(4 Teams)

Prof R K Dwivedi, Principal of FOE&CS appreciated the event and conveyed his best wishes to all the winners. Prof Dwivedi motivated them and reminded the whole sole objective of FoECS i.e. carrier oriented education. He elaborated on all career opportunities in each branch of engineering and encouraged the students to remain aware of these one and keep updated themselves with the time. Dr A K Saxena , HOD CCSIT delivered vote of thanks to all for making the event delighted and successful. The program was anchored by Mr Ajay Chakravarty and Mr Vineet saxena, The program was well coordinated by Mr Mohd Saleem along with Rohilla Naaz.

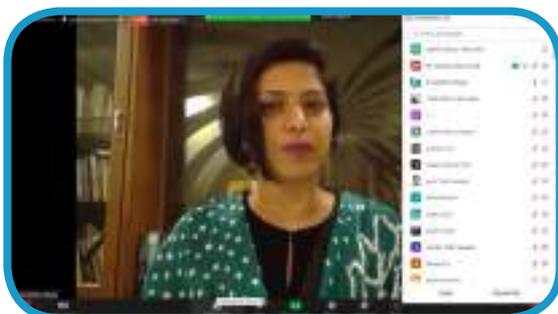


## Employability Enhancement Program

T & P in collaboration with the Humanities department lead by Ms Neha Anand, organized a 3 day Employability Enhancement Program for our final year students. Total 250 + students participated and had the good fortune to listen to industry experts and academic mentors who have worked in this field and have mentored many students in their career. The session was held on 3rd, 4th and 5th Feb 2022.

Scope: - The significant aspect of the program was:

1. Emphasis on Communication Skills
2. Personality Development
3. GD/PI Trainings
4. Interview Skills
5. Resume Writing
6. Personal Grooming
7. Time and Stress management
8. Confidence Building
9. Attaining work life balance.



Ms. Anuradha Chawla  
Mindest Performance Coach  
WICCI President, Panjab State Life Skills,  
Panjab



Dr. R.K. Dwivedi,  
Director &Principal FOECS TMU

# Basant Panchami

Title of Event: Worship of Goddess Maa Saraswati Basant Panchami

Date: February 05, 2022

Start Time: 11:00 A.M.

End Time: 12:30 P.M.

Type of Event: Worship of Goddess Maa Saraswati

Description of Event:

The Faculty of Engineering and Computing Sciences-FOECS, Teerthanker Mahaveer University, Moradabad organized the Worship of Maa Saraswati on the occasion of Basant Panchami, the festival of Goddess Saraswati, the presiding deity of knowledge, music and art on February 05, 2022. The program was inaugurated by the Director and Principal of FOECS, Prof. Rakesh Kumar Dwivedi by lighting the lamp and garlanding the idol of Maa Saraswati. Prof. Dwivedi conveyed his warm wishes and greetings to all members of the college, highlighting the importance of education and Basant Panchami festival in human life. On this occasion the head of the department, Prof. Ashendra Kumar Saxena, Prof. RC Tripathi, Dr. Vipin Kumar, Dr. Garima Goswami, Dr. Zareen Farooq, Dr. Ajit Kumar, Mr. Rupal Gupta, Mr. Manish Tewari, Ms. Hina Hashmi, Dr. Parag Agarwal, Dr. Priyank Singhal, All the teachers and staff members of FOECS including Dr. Himansh Kumar, Dr. Anuj Agarwal, Mr. Vijender Rawat, Mr. Himanshu Sharma, Mr. Abhishek Saxena, Mr. Pradeep Sharma, Mr. Nikhil Saxena, Mr. RP Singh offered prayers to Maa Saraswati with enthusiasm and received Her blessings. Prasad was distributed after the worship. The Coordinator of this event, Dr. Sandeep Verma extended his heartiest thanks to all for making the event successful.



# INTERNATIONAL CONFERENCE ON “RECENT TRENDS IN GREEN ASPECTS OF SCIENCE AND TECHNOLOGY” (RTGAST-2022), 25th & 26th FEBRUARY, 2022

Department of Chemistry, Faculty of Engineering  
&  
Computing Sciences  
Teerthanker Mahaveer University, Moradabad.

## Organized by:-

Prof. Rakesh Kr . Dwivedi -  
(Conference General Chair)  
Dr. Varun Kumar singh -  
(Convener)  
DR. Asim Ahmad  
(Convener)  
Dr. Gajendra Kumar  
(Organizing secretar)  
Dr. Souvic Surr  
(Organizing Secretary)  
Ms Indu Tripathi  
(Anchoring)

**Our Chief patrons:** - Shri Suresh Jain, Hon'ble Chancellor  
Shri Manish jain, Hon'ble Group Vice Chairman  
Shri Akshat Jain, Esteemed Member of Governing Body

**Our Petrons:** - Prof. Raghuvir Singh, Hon'ble Vice Chancellor  
Dr. Aditya Sharma, Registrar  
Dr. Manjula Jain, Associate dean

**Director& Principal-** Prof. Rakesh Kumar Dwivedi, General Chair

**Chief Guest:** - Dr. R.K. Sharma , RTCL , General Manager, Moradabad

**Guest of honour:** - Dr. A. K. Saxena, Chairman , GIPR, Kashipur (Virtual)

**Guest of honour:** - Dr. Sandhya Bansal , Norton Thoracic Institute ,  
Phoneix\*, USA (Virtual)

**Key note speakers:-** Dr. N. P. Singh, DDU, Gorakhpur\* (Virtual)  
Dr. Deepak Pant , Professor , CUHP, Dharamshala, Kangra\*  
Dr. Girdhar Joshi, Head, SUUC, Chamoli , Utrakhand\*

The department of Chemistry organized two days International conference on The Recent Trends in Green Aspects of Science & Technology on dated 25th & 26th February, 2022 in LT-2 in well organized manner in the presence of Vice Chancellor, Professor Raghuvir Singh, Registrar , Dr. Aditya Sharma, hosted by Professor R. K. Dwivedi, Director & Principal as well as General Chair of the Conference & entire faculty of the department of Chemistry. Every one fulfilled the responsibility in excellent manner . The responsibilities were shared by Dr. Asim Ahmad, Dr. Varun Kumar Singh (Convener), Dr. Gajendra Kumar, Dr. Souvic Surr (Organizing Secretary), Dr. K.A. Gupta, Dr. A.D. Tripathi, Dr. Navneet Kumar, & Dr. M.K. Chini in decent manner for organizing the RTGAST-2022 successfully till the end of the program .

Day Of 25th February was a special day for everyone, full of energy and enthusiasm. At sharp 10.30am Vice Chancellor, Registrar entered LT-2 along with Professor R. K. Dwivedi , General Chair & Principal. The LT-2 was full of students, delegates, volunteers , HOD's , COD's and faculty members from applied sciences and engineering . Every one offered standing ovation to Vice Chancellor, Professor Raaghuvir Singh ,Dr. Aditya Sharma , & Principal . Ms Indu Tripathi spoke motivating words & requested to perform Saraswati Vandna , Dr. Navneet Kumar took total responsibility to provide perfect way for Saraswati Vandna in a decent way .Dr. K.A. Gupta, Dr A. Verma, Principal, Pharmacy college also performed this worship. Just after this, Ms Indu Tripathi requested Dr. Asim Ahmad to present the achievement attained by the department of Chemistry since 2008 , although first batch of B. Sc (H) Chemistry was enrolled in 2011 with 19 students. Similarly first batch of M. Sc was enrolled in 2012 with 45 students. Dr. Asim Ahmad through power point presentation showed all the achievements and present configuration , PhD students, publications , citations , educational tours and other activities . Dr. Asim Ahmad also presented theme of the International conference . The students , audience and dignitaries were very glad and admired the efforts shown by Dr. Asim Ahmad .

Just after this Ms Indu Tripathi announced the presentation of shawls to the dignitaries . Dr . Diptonil Banerjee, Ms Shikha Gambhir were also honored by presenting shawls for their contribution in research project ,getting a DST grant of 20 Lakhs and Ms Shikha Gambhir for excellent designing of banner, and other work.

Ms Indu Tripathi invited Professor R. K. Dwivedi , General Chair, to bless the conference . He welcomed the Chief guest Dr. R. K. Sharma & dignitaries on the dais and also the guest of honour , Dr. A.K. Saxena, Dr. Sandhya Bansal , USA , Dr. Deepak Pant, Dr. N.P. Singh , and Dr. Girdhar Joshi as key note speakers in virtual mode.

After the admiring address of Professor Dwivedi , Ms Indu Tripathi requested the chief guest and dignitaries for the release of the conference proceeding . After the release of proceeding , Ms Indu Tripathi invited Vice Chancellor to admire the efforts . Vice Chancellor addressed the students and told about the gift of this beautiful Earth and importance of Green aspects of science and Technology . In this continuation Dr. Aditya Sharma , Registrar expressed his happiness for the International conference and said this is unmatched efforts of Principal and organizers to have such magnificent conference. Ms Indu Tripathi , invited and requested Chief guest , Dr. R. K. Sharma to address the students and told all the laboratory facilities in his institution . He gave openly to all the students to get the benefit of every facility for research and development . He added that he has all facilities for science and engineering testing system .



Dr.R.K.Sharma  
RTCL , General Manager, Moradabad



Lastly Dr. Asim Ahmad expressed vote of thanks to dignitaries and Chief guest, and special thanks to Dr. Aditya Sharma, registrar giving Rs 21000/ for this International conference. After that Lunch was declared and session continued in virtual mode.



On 26th February, session started in virtual mode. Dr. Sandhya Bansal, USA, Dr. Deepak Pant, CUHP, Dharamshala, and Dr. Girdhar Joshi delivered informative presentations in virtual mode.

In this conference 84 participants took part and 26 oral presentations were given by the participants. 10 poster presentations were also shown by participants. The winners and participants were given certificates.

The TMU journal of basic and applied chemistry was also released by the Principal and Chief guest. In this way RTGAST-2022 was concluded in an excellent way. Dr. Dwivedi, Director and Principal played a vital role to make it a grand success. I express my thanks to proctors and proctorial members for extending cooperation during the program.

## **Celebration of National Science Day-2022**

### **Department of Physics, FOE&CS: 28th Feb, 2022 Inauguration**

The department of physics celebrated “National Science Day-2022” to commemorate Nobel Laureate Sir, C.V. Raman. The theme of the year was “Integrated Approach in Science and Technology for a Sustainable Future”. The programme organized by Department of Physics, FOE&CS, Teerthankar Mahaveer University Moradabad.

The programs started with inauguration and addressed by our Director, Prof. R. K. Dwivedi. Prof. Dwivedi encouraged students of FOE & CS and shed light on biography of Sir C.V. Raman.



## Inauguration and address by Director, Prof. R. K. Dwivedi, FOE & CS, TMU

- Virtual opening remarks with a few words on Sir C.V. Raman and a brief introduction to IUAC facilities by Prof. A. C. Pandey, Director, Inter University Accelerate Centre, Delhi (virtual mode).
- Keynote Lecture titled: “Future of Our Universe”, Speaker: Prof. Ashoke Sen, ICTS-Infosys Madhava chair professor, international centre for theoretical sciences, Bengaluru, (virtual mode).



Dr. R.K. Dwivedi,  
Director & Principal FOECS TMU



The next event was on science exhibition in which students displayed their working models and posters presentation on their assigned places that was organized by Dr. Amit Kumar Sharma. There were 05 working models that were made by students of FOE & CS. The topics were Coil Gun, Automatic Door Alarm and Simulation related activities etc.

### Glimpses of working models/ Poster

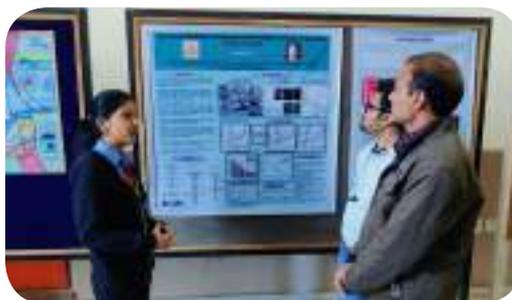
There were 16 posters that were presented by students of FOE & CS.

### Glimpses of Science quiz

The next event was on Science Quiz and participated by group of 24 students of different streams and organized by Dr. Pavan Kumar Singh. The glimpses of quiz are-

#### Winners of Activity

- 1.**Model Presentation-** Amit Kumar Dhali, Praful Sharma and Sankalp Jain- Coil Gun
- 2.**Poster Presentation-** Harshita Bajeta (First rank), Kritika Jain (Second rank) and Pragya Agarwal (Third rank)
- 3.**Science Quiz-** Harshita Bajeta, Anjali, Kritika Jain (First rank-), Vishal Mandal, Saurabh, Parth Gupta (Second rank) and Shubham Pratap Singh, Aman Pratap Singh, Yashvaerdhan (Third rank)





## Rashmi Jain

Co-founder & Director – AcadePro Services & Solutions Pvt. Ltd.

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## How, what & why of ‘Problem Solving Skills’

“If it was given **1 hour** to save the planet, I would spend **59 minutes** defining the problem and **1 minute** resolving it.” [Albert Einstein]

The latest happenings in the realm of the socio-economic world are leading to new concerns in almost all domains and ignorance may start crumbling the business due to pressure. We remember the downfall of brands like Kodak and Nokia, that were slow to catch up with innovations in technology and soon left out of the race.

21st century skills - Creativity, Critical Thinking and Problem Solving are attention of both Industry & Institute today. Academicians have started debating in collaboration with Industry leaders regarding the skills required for jobs of the future. Experts are designing and refining “Frameworks for 21st-century skills”.

From entry-level to senior staffers, the employees face challenges that cannot be answered by a quick Google search. There are no straightforward answers to most of our questions. To improve products, services, communications, and interpersonal skills, for businesses or organizations to excel, it is required to encourage creative thinking and find innovative solutions that work for the business. People with problem-solving skills have the capabilities to deal with complex business challenges, tight deadlines, and changing variables.

Problem-solving is a vital skill in both professional and personal lives, which refers to a person’s ability to successfully manage and find solutions for complex and unexpected situations. Problem solvers have the ability to observe, judge, and act quickly when difficulties arise; they are not afraid of the unknown, which is invaluable to employers who rely on their employees to identify and resolve potential issues even before they turn into any major complications.

During the pandemic situation, we have seen technology trends evolved rapidly, and everyone is worried about their career with one question in mind - “What are the jobs of the future, and more importantly, how will we make sure that our next generation will gain the knowledge and skills needed to succeed in those future jobs, in demand from the industries?”

Thinking outside of the box is an important problem-solving skill in the workplace since it leads to better outcomes than had been expected originally. They are not just equipped to deal with the problem at hand but are also able to anticipate problems that will arise in the future based on trends, patterns, experiences, and current events. This is the main reason why employers like to see good problem solvers in their efficient team.

### Problem Solving Steps



The steps taken to solve a problem are shown in the picture 🔄

### Core Principles of Problem Solving

- ✓ Thinking must be balanced
- ✓ Ask problems as questions
- ✓ Defer or suspend judgement
- ✓ Focus on “Yes, and” rather than “No, but”

Below listed are some of the key criteria to evaluate candidates before they are hired:

1. **Listening skills:** Active listeners recognize the importance of valuing others’ opinions and experiences to understand and suggest the best course of action to remedy it.
2. **Analytical thinking skills:** Analytical thinkers can identify the logical reasons why a problem occurred, what the long-term effects of the issue could be, and identify the most practical solution.

3. **Creative thinking skills:** Creative thinkers can balance their analytical skills with creative solutions. Creative thinking skills allow individuals to uncover innovative and progressive solutions to problems.

4. **Communication skills:** Problem solvers effectively relay complex information thoroughly.

5. **Decision-making skills:** This is the ability to make decisions with confidence to provide a successful outcome.

6. **Teamwork:** Collaboration is required to come up with the best solutions and work with them to help develop and implement solutions.

To be aligned with Industry, it is expected that Institutions-

1. **Produce learners** who are well informed, understand ideas that are important, useful and powerful.
2. **Create learners** who have the appetite to think analytically and critically, to use what they know to enhance their own lives and contribute to their society, culture, and civilization.

**Conclusion:**

Institute must teach & develop 21-century skills not based on the curriculum, but based on changes in business trends, teaching methods, technology advancements and business case studies. To achieve this, Institutions will have to work hard to transform lessons in a more engaging way, with more hands-on practice sessions in association with Industry.

It's safe to say that a difficult problem may have a difficult solution, but it's not impossible to find it.

And at last .....

“Think Problem, Drink Problem, Eat Problem & Sleep Problem.... till you find a solution.”

## National Safety Day 5<sup>th</sup> March 2022



## An interactive Session with Director CRC

It is always the endeavor of the University to improve the system and provide the best opportunities to our dear students. Thus to strengthen the current placement team the University has hired a new Director for CRC in the central role. The new Director CRC (Corporate Resource Centre) has joined the University and is inclined to improve the placement scenario for the University. Thus in order to provide a better understanding a short session was held on 2<sup>nd</sup> March, 2022 with all the final & Pre final year students of all courses and branches. The attendance in the session was made mandatory for all those who are seeking Job opportunities through University.



## AWARENESS PROGRAM ON SERVE THE HUNGRY CITIZEN

Director of FoE gave the blessings for activities. He said that study is crucial but we should also involve in such kind of activities by which we could save our life & nation also. He told the importance of National Service Scheme by we can serve the society & Nation.

This awareness program has been organized under the National Service Scheme FOE on dated 7th March 2022. The awareness program was supported by Robin hood Army v/s Shivank & team as chief guest.

The program started sharp at 2p.m. in present of Dr. R.K Dwivedi, Director and Principal of FoECS All the members of the NSS committee, students of Engineering Shivank & team present there. Shruti and Himanshu (anchor) welcomed to respective guest and requested the chief guest, principal ignite

ignite the lamp lightning for Sarasvati Vandana. After the prayer of Maa Sarasvati, Miss Shruti invited Dr Abhinav Saxena to present bouquet to Dr. RK Dwivedi and in continuation she invited Dr Diptonil Banerjee to present bouquet to Mr. Shivank & team. Himanshu spoke On the awareness program on serve the nation and invited Professor Dwivedi to admire the session. Dr. RK Dwivedi described the importance of water and focused on the huge applications of water in industry. He told the students that think If there is think? This is a big question and he motivated the session then after Shruti invited Mr. Shivank & team to give a proper shape to the program. She involved students in questionnaire and motivated students to involve in serve the nation campaign. She also expressed the importance of water and wetlands.



# Naari Shakti Puraskar-2022

**Title:** Naari Shakti Puraskar-2022

**Date:** 08th March,2022

**Start time:** 10:30am

**End Time:**12:30pm

**Type of Event:** Naari Shakti Puraskar-2022

**Description of Event:** Distribution of Naari Shakti Puraskar to female faculty and staff members on the occasion of International Women's Day

**Agenda:** To acknowledge the contribution and dedication of female faculty and staff members at their academic and professional level.

## Host

**Host:** Faculty of Engineering & Computing Sciences, TMU

**Additional Host:** NA

**Event Chairperson :** Prof. R K Dwivedi, Principal of FOE&CS, TMU

**Event Coordinators:** Ms Indu Tripathi & Dr Sonia Jayant

( Assistant Professors, Department of Humanities)

**Co-Sponsor Name:**NA

**Venue:** LT-2 FOE&CS, TMU

## Registration

**Start date:** 22nd February, 2022

**End Date:** 28th February, 2022

**Fee:** Free

**No of Registration:** 23

**Payment:** NA

## Speakers/Guests

**Title:** Naari Shakti Pura-skar-2022

**Speaker Name (Chief Guest):** Mrs Beena Jain ji, Hon'ble Madam Chancellor, TMU

**Organization:** FOE&CS, TMU

**Biography of Speaker:** Hon'ble Madam Chancellor, TMU

## Attendance

**Attendee:** 1- Female faculty and staff members of FOE&CS, TMU

2- Girls students of FOE&CS, TMU

3- Female faculty or principal's representatives of other colleges of TMU

**Guest Attendee:** 1-Mrs Beena Jain ji, Hon'ble Madam Chancellor, TMU

2- Dr Manjula Jain, Associate Dean Academic, TMU

3- Dr Jyoti Puri, Joint Registrar, Research, TMU

Faculty of Engineering and computing sciences organized an annual award function "Naari Shakti Puraskar" on the occasion of International Women's Day i.e. on 8th March 2022. This award function was organized along the line of 'Naari Shakti Puraskar' national award by Ministry of Women and Child Development at National Level. Faculty of Engineering & Computing Sciences took an initiative to accolade its Female faculty members through "Nari Shakti Puraskar" for their valuable contribution in the progress of the institute. The program was graced with the presence of Hon'ble Madam Chancellor TMU, Smt. Beena Jain Ji, Dr. Manjula Jain, Associate Dean Academics TMU, Dr. Jyoti Puri, Joint Registrar Research TMU, Dr. R.K. Dwivedi, Director &Principal FOECS TMU along with other invited guests. The program started with traditional lamp lightening and saraswati vandana.



Dr. R.K. Dwivedi,  
Director & Principal FOECS TMU



Smt. Beena Jain Ji  
Hon'ble Madam Chancellor TMU

After this Ms. Indu Tripathi, Assistant Professor, Department of Humanities and Event Coordinator of the program presented the theme of the program and also presented a video which depicted the contribution of the female faculty members and staff members of the college. It was a beautiful compilation of various events and took everyone down the memory lane. After that a fashion show on the theme 'Naari Ek Roop Anek' was presented which depicted the various roles and profession of today's woman. After the fashion show, a beautiful Dance Skit was performed by the girl students on women's exploitation. This skit strongly conveyed the message that women can overcome every obstacle and nothing can stop them from soaring high. Two students also recited poem on womanhood.

After the performances, Hon'ble Madam Chancellor TMU, Smt. Beena Jain Ji awarded the female faculty and staff members under the various categories. In her address she congratulated everyone and gave her blessings. She said that the role of women in society and nation building cannot be ignored. She said that every woman has the God gifted quality of performing every task perfectly. She can play many roles at a time and that is commendable. Today's women is not confined to four walls, they are marking their presence at every crucial level.



Prof. Dr. R.K. Dwivedi, Director & Principal, FOECS welcomed the guests and expressed his gratitude to everyone on accepting the invitation. This award function was Dr. Dwivedi's initiative and he appreciated everyone's effort in taking the college to great heights. He then distributed prizes to the girl students for their performances.

Next Dr. Manjula Jain, Associate Dean Academics TMU appreciated the initiative by Dr. R.K. Dwivedi and said that such kind of motivational practices should continue in future also. She congratulated and appreciated everyone.



On this occasion the female faculty and staff members were awarded under various categories. They are as follows:

#### **From CCSIT:**

1. Dr. Ranjana Sharma- In recognition for her outstanding contribution as a program coordinator.
2. Ms. Neeraj Kumari- In recognition for her notable achievements in research and development.
3. Ms. Heena Hashmi- In recognition for her distinguished contribution in coordinating cultural events.
4. Ms. Anu Sharma- In recognition for her notable and significant contribution in IQAC at work place.
5. Ms. Shikha Gambhir- In recognition for her exceptional dedication at work place.
6. Ms. Inderjit Jheetay- In recognition for her life time services in teaching and academics.
7. Dr. Sonia Jayant- In recognition as the most elegant performer.
8. Ms. Humera Aqeel- In recognition for her significant contribution at work place.
9. Ms. Rohaila Naaz- In recognition for her contribution in organizing events and activities.
10. Ms. Maryam Tahira- In recognition for contribution as a youngest performer.
11. Dr. Shalini Ninoria- In recognition for her notable performance at work place.
12. Ms. Amita Sharma- In recognition for her contribution at work place.

#### **From Faculty of Engineering**

1. Dr. Garima Gosawmi- In recognition for her remarkable contribution in teaching, research and academic.
2. Dr. Gulista Khan- In recognition for her outstanding contribution in promoting women entrepreneurship.
3. Dr. Zareen Farooq- In recognition for her excellent contribution in students' approach.
4. Ms. Indu Tripathi- In recognition as the most decent performer.
5. Ms. Neha Anand- In recognition for her contribution in college digital media work.
6. Ms. Nikita Garg- In recognition for her admiring impact on the students.
7. Ms. Nisha Sahal- In recognition for her contribution as a youngest performer.
8. Ms. Vidhi Goyal- In recognition for her contribution at work place.
9. Ms. Nidhi Malhotra- In recognition for her contribution at work place.

10. Ms. Monika Singh- In recognition for her contribution in official work.

11. Ms. Prabha Devi- In recognition for her contribution in official work.



A small token of appreciation was also given to four female attendants of FOECS. During the award function Saraswati Vandana was presented by Akanksha Panday. In fashion show, Anugya, Alija, Ami-sha, Anjali, Anushikha, Deepanshi, Leeza, Nainsi, Neeshu, Shagun and Satendar Kaur participated. Dance skit was performed by Anjali, Shagun, Satendar Kaur and Ayush Kumar. Leeza and Aparna did the anchoring of the program. At the end vote of thanks was proposed by Dr. Sonia Jayant, Assistant Professor, FOECS, and TMU.



Dr. Manjula Jain  
Associate Dean Academics TMU



# Khel Utsav 2022

**Title:** Khel Utsav 2022  
**Date:** 10-11th April 2022  
**Start time:** 10am  
**End Time:** 3:30pm  
**Type of Event:** Sports  
**Agenda:** Sports Festival-2022  
at FOECS of TMU

**Host**  
**Host:** Faculty of Engineering  
**Additional Host:** College of Physical Education  
**Co-Sponsor Name:** nil  
**Venue:** Sports Complex TMU

## Registration

**Start date:** 7/3/2022  
**End Date:** 9/3/2022  
**Fee:** Free  
**No of Registration:** 345  
**Payment:** Free

## Attendance

**IEEE Attendee:** 0  
**Guest Attendee:** 450



Dr. Manjula Jain  
Associate Dean Academics TMU

Under the FOE Sports Meet-2022 in the Faculty of Engineering and Computing Sciences, Teerthankar Mahaveer University, Dr. Manjula Jain, Dean of TMU, was the chief guest of that sports festival-2022 and Prof. RK Dwivedi inaugurated the sports festival by blowing up tricolor balloons. Dr. Manjula Jain said, you all play with your hard work and honesty. She also encouraged the participants. The Director and Principal of FOECS, Prof. RK Dwivedi said, there are only two aspects of the game - defeat and victory. So without worrying about winning or losing, everyone will participate in the Sports with best of your ability. He said, sports also keeps us healthy and take care of your safety during sports. All the participants did march past on this occasion. Khel Utsav-2022 will run from March 10 to 11. In the Khel Utsav-2022, around 345 students from various departments will showcase their sportsmanship in a total of eleven sports- Track & Field, Box Cricket, Football, Kabaddi, Tug of War, Basketball, Volleyball, Table Tennis, Chess, Carrom and Badminton. Faculty of Engineering Sports Coordinator Prashant Kumar told that all the games will be played under knockout mode. In addition to trophies to the final winning teams, certificates will also be given to all the participants.



# “Annual Sports Meet- Spardhaa-2k22”

Best place to inculcate team spirit

Sports are the way human beings test and surpass their limits of discipline, persistence, compassion, and dedication. With the same principles, the 3-day long College sports meet-“Spardhaa-2k22” of CCSIT, commenced on 10th March 2022.

The inaugural ceremony were graced by Dr. Manjula Jain, Associate Dean & Prof. R.K.Dwivedi Principal CCSIT. Other dignitaries who graced the occasion were – Dr. Ashendra Kumar Saxena-HoD, Dr. Shambhu Bhardwaj-Proctor, Shri Vineet Sxena, Shri Abhishek Saxena, Shri Nikhil Saxena & Shri R.P. Singh. Media persons from Hindustan, Amar Ujala and Dainik Jagran also attended the Meet.

The sports meet was declared open after the release of balloons & ribbon cutting.



The meet started with a Box Cricket match. A series of events including Badminton, Table tennis, Football, Basketball, Chess, Carom, 100 meters, Shot-put, and Tug of war were held. The extravagant sports saga would continue for two more days and would conclude on 12th March 2022.

The second day of the three-day-long meet began with great splendor and determination exhibited by the participants and the organizers. In the presence of the jury, the events of the second day started keeping in mind the oath of honesty and sportsmanship.

Beginning with the inauguration ceremony on 10<sup>th</sup> March, the three-day extravagant affair constituted of more than 12 events of Box Cricket, Tug of War, etc. Not limited to only students of all genders, years, and branches, the sporting events were open to faculty and staff as well. The enthusiasm of the participants was infectious and encouraging. The vast crowd in attendance was proof of the institute's dedication to the all-around development of its students and the significance of becoming achievers in different fields.

The spirit of the competition continued even on the third and final day with the finale of racing events like 100mts. Other challenging events like basketball, and football, kept the audience at its edge. The College Principal Prof. R.K.Dwivedi as a chief guest was presented with a token of gratitude following which he inspired the audience with his motivational speech where he elucidated the importance of finding time for physical activities and maintaining their peak health besides unlocking their intellectual and academic potential. He talked about the importance of sports and discussed the three dimensions of sports that including competitive spirit, health, and stress. He stressed that failures are part of life and encouraged everyone to learn from their failures and move forward in life.

The prize distribution ceremony followed where the College Principal Prof. R.K.Dwivedi presented the students with awards.

## SPLASH 2022

On 16 March 2021, Faculty of Engineering and Computing Science has successfully organized SPLASH 2021 in the presence of respected Director Principal of FOECS Professor R K Dwivedi , Associated Dean Dr Manjula Jain, Registrar Mr. Aditya Sharma, Head of Department Dr. Ashendra Kumar Saxena, with Cultural team of CCSIT coordinated by Ms Ranjana Sharma, Ms Humera Aqeel and Ms Maryam Tahira, Mr. Rahul Rathore from FOE and Mr. Sajid Husain from Polytechnic..



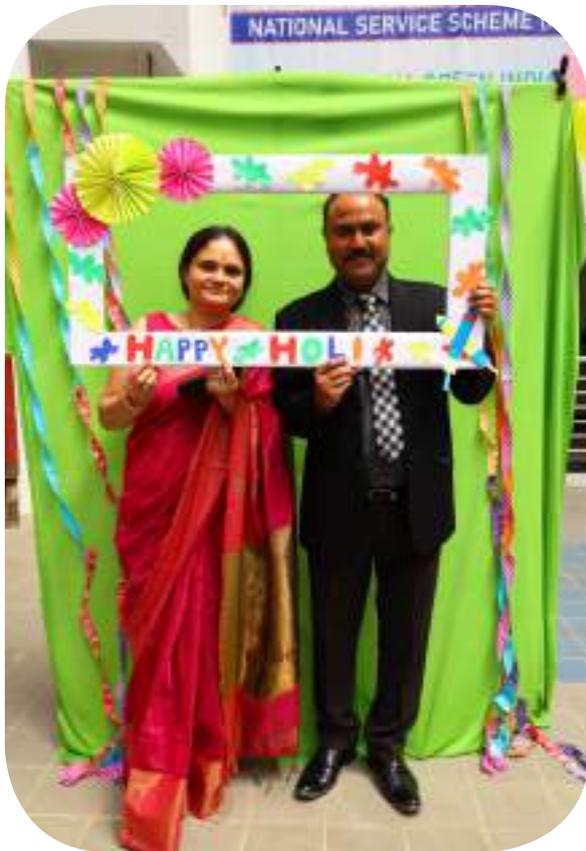
The Theme for event was “SPLASH” the joy of colors. There was various competition for the students like Dance, Singing, Standup comedy (open mic, poetry), Best stall of the day. The event was completely engaged by lots of Participants with full of enthusiasm and cheers.

The judges for Singing, Standup Comedy, Dance & Rangoli competition were Dr. Zareen Farooq from FoE), Ms. Shikha Gambhir from CCSIT, Mr. Sajid Husain from Polytechnic. Over all coordination was handled by the complete team of coordinators.

And Complete Splash volunteer team. Overall event is hosted by Ritika Katyal & Anjali Tyagi.

### Winners of various activities:

1. Singing - Deeksha
2. Dance – Abhinav Jain
3. Poetry - Amitesh
4. Stand Up Comedy – Apoorv
5. Rangoli - Muskan
6. Best Stall Award – I-Nurture Group



# Internal Hack-A-Thon for SIH 2022

SIH 2022 brings the next generation evolution by inclusion of new methodology to inculcate the culture of start-up and innovation ecosystem across different age groups. It will be an open-house event, which will see the selection of any of the categories i.e. Hardware and Software and select at least 5 teams in Student Innovation and 10 against the Problem Statements. The College SPOC can nominate at max 15 teams (HW+SW both) having at least one mandatory female Member in each Team. These 15 selected teams (10 finalized & 05 waitlisted) will be making the TMU's official nominations to Smart India Hackathon 2022. The idea-cum-team selection will be conducted by a panel of Jury during the Internal Hackathon and the judgment will be solely based on the Idea Documents [to be presented by prospective team in prescribed format only].

Internal Hackathon for 'Smart India Hackathon (SIH) 2022' was conducted on 23rd March, 2022, in offline mode at Lecture theatre 2 & 5, faculty of Engineering Teerthanker Mahaveer University, Moradabad Uttar Pradesh. Dr Manjula Jain President IIC TMU and Associate Dean Academics and Prof. Rakesh Kumar Dwivedi SPOC-TMU SIH 2022 lit the lamp Infront of MA SARAWATI and inaugurated the Internal hackathon followed by parallel session on Hardware & Software edition in LT-5 & LT-2 respectively. Total 22 teams (9 Hardware & 12 Software Edition) participated physically. Each team was given 15-20 mins for presentation and then evaluated.



Prof. R.K. Dwivedi (Director & Principal, FOECS)



Dr. Manjula Jain (Associate Dean Academics, TMU)



## DETAILS OF JUDGES

Following will be the member of Jury Panel:

Sr. No	Name	Designation	Contact No.	Email Id
1	Prof. (Dr.) R.K. Dwivedi	SPOC-SIH 2022, Principal	9837771280	principal.computers@tmu.ac.in
2	Dr R K Jain	Professor	6397366263	ravi.engineering@tmu.ac.in
3	Dr Garima Goswami	Associate Professor	7073006426	garimag.engineering@tmu.ac.in
4	Dr. Himansh Kumar	Assistant Professor	9456016503	himansh.engineering@tmu.ac.in
5	Dr. Surjeet Dalal	Professor	8199881101	surjeetd.computers@tmu.ac.in
6	Dr. Vinay Mishra	Associate Professor	9839357764	vinaym.computers@tmu.ac.in
7	Dr. Priyank Singhal	Associate Professor	9319905957	priyank.computers@tmu.ac.in
8	Mr. Ajay Chakrabarty	Assistant Professor	9897844622	ajayc.computers@tmu.ac.in



## NOMINATED TOP TEAMS

Internal hackathon was organised at TMU on 23rd March 2022 to shortlist 15 teams for participating at grand finale of SIH 2022. List of shortlisted teams is given below:

Sr. No.	Team Name	Team Leader Name	Hardware/Software	Selected/Waitlist
1	Stubborns	Paras Jain	Hardware	Selected
2	Tmu Engineers	Divyank Jain	Hardware	Selected
3	Unicorn	Anamika Jain	Hardware	Selected
4	The Rubix Cubes	Akshat Mittal	Hardware	Selected
5	Hexagon	Aarchi Jain	Software	Selected
6	Code Mixers	Sonal Jain	Software	Selected
7	Technocoders	Divyanshu Jain	Software	Selected
8	Technoriders	Mayank Singh	Software	Selected
9	Runtime Masters	Reidam Gulati	Software	Selected
10	Gen-Z	Harsh Jain	Software	Selected
11	Vibgyor	Astha Jain	Hardware	Waitlist
12	Go Brainers	Kartikay Singhal	Hardware	Waitlist
13	Metacreators	Shreya Pandey	Software	Waitlist
14	Brain Movers	Mudit Jain	Software	Waitlist
15	Omnitech/Technoide	Adarsh Malik	Software	Waitlist

## TOTAL TEAMS AND STUDENTS PARTICIPATED

S.No.	TEAM NAME	TEAM LEADER	Edition
1	MARCOS	DEEPAK KUMAR	Hardware
2	GO BRAINERS	KARTIKAY SINGHAL	Hardware
3	SILENT INNOVATOR	SHREYA JAIN	Hardware
4	TMU ENGINEERS	DIVYANK JAIN	Hardware
5	SIH SHOAIB	SHOAIB ALAM	Hardware
6	STUBBORNS	PARAS JAIN	Hardware
7	UNICORN	ANAMIKA JAIN	Hardware
8	THE RUBIX CUBES	AKSHAT MITTAL	Hardware
9	VIBGYOR	ASTHA JAIN	Hardware
10	THE RUBIX	SHASHWAT RAUT	Software
11	TECHNOCODERS	DIVYANSHU JAIN	Software
12	TECHNORIDERS	MAYANK SINGH	Software
13	METACREATORS	SHREYA PANDEY	Software
14	CODE MIXERS	SONAL JAIN	Software
15	BRAIN MOVERS	MUDIT JAIN	Software
16	GOGETTERS	PURUSHARTHA SINGH THAKUR	Software
17	OMNITECH	ADARSH MALIK	Software
18	HEXAGON	AARCHI JAIN	Software
19	GEN-Z	HARSH JAIN	Software
20	RUNTIME MASTERS	REIDAM GULATI	Software
21	TECHNOSMART	ANUGYA JAIN	Software

Total no. of Teams Participated	21
Total no. of Students Participated	126
No. of female Participants	38
No. of male Participants	88



# Industrial Visit –BSNL

**Title:**Industrial Training visit

**Date:** 31/03/22

## Host

**Host:** JTO (Op), O/o Moradabad

**Co-Sponsor Name:** NA

**Additional Host:** AGM(HQ)Office

**Venue:** BSNL(Moradabad)

## Speakers

**Title:** Introduction to New Generation Network technology

**Description of talk:** Technical description of the setup in BSNL exchange and overview of latest technology {NGN}.

**Speaker Name:** Shri Doshant Verma

**Email Address:** agmhqmr@bsnl.com

**Organization:**BSNL

**Biography of Speaker:** Mr. Doshant Verma, Assistant General Manager in BSNL Moradabad is having `21 years of Industry experience.He has done his Btech in Electronics and communication from MJP Rohilkhand University in 2000.He has immense knowledge about latest technology in Switching and hence-on experience in almost all latest technology, switching and wireless equipment.

Department of Electronics & Communication Engineering, Faculty of Engineering, Teerthanker Mahaveer University, Moradabad organized an industrial visit to Bharat Sanchar Nigam Limited (BSNL) Moradabad on 31st March 2022. A group of 34 students of B.Tech 2nd year, 3rd year & 4th year and Diploma 2nd year & 3rd year of Electronics & communication Engineering branch with faculty members Dr. Alka Verma, Mr. Rahul Vishnoi and Mr. Pradeep Saxena visited Telephone Switching Center in Moradabad

BSNL is one of the largest company in India offering plethora of telecom services like landline telephony, mobile services, numerous IP based services, fiber to the home, leased line services, services to bank and numerous big installation and also subscriber services to generate, initiate, process and establish the calls and transferring the information in the form of data, voice, multimedia between the subscribers. After reaching the telephone switching center, a welcome note by Shri Farhad Ali Khan (JTO operation, Moradabad) was given followed by introductory session by Shri Lovi Sachdeva (JTO, Broadband, Moradabad). He described about main telecom exchange equipment and he told that Moradabad is main telecom switching hub in UP west zone next only to Noida. Shri Doshant Verma (AGM, BSNL, Moradabad) briefed students about the fundamentals of signaling process, sampling theorem and channel assignment strategies. After that the students had been divided into two groups for visiting the MSC and OCB section.



During the visit, the students witnessed the whole process of mobile switching center, base transceiver station and base station controller and also the calls initiation, establishment and termination with the help of different channels used in MSC.

The objective of visit was to broaden the understanding of students in the field of telephone switching and mobile communication etc. It was good experience where this could relate the theoretical knowledge of the subjects to the practical application in industry.



## LA FIESTA



Dr. Aditya Sharma & Prof. R.K Dwivedi



BCA Freshers' party organized by BCA II year students on 31st March 22 at Riddhi Siddhi, TMU. The event was by honoured by the presence of respected Dr. Majula Jain (Associate Dean Academics), Dr. Aditya Sharma (Registrar), Prof. R.K. Dwivedi (Director & Principal, FOECS). The event was coordinated by Prof. Surjeet Dalal (BCA Program Chair), Mr. Harjinder Singh (Deputy Coordinator, BCA), Ms Maryam Tahira (BCA II Year Incharge) along with all class coordinators and year incharges of BCA. It was a grand welcome party with various cultural and colorful performances. The students played numerous games and Ramp walk. The judges for the event were Dr. Zariien Farooqi, Mr. Ajay Chakraborty, Ms. Humera Aqeel. The event concluded by announcement of Title Winners by respected Principal Sir as follows:

Ms. Fresher: Anvi Jain  
 Mr. Fresher: Ayush Kumar  
 Ms. Charming: Ananya Pandey  
 Mr. Handsome: Aryan jain  
 Star Performer: Ayush Gaur



Dr. Majula Jain (Associate Dean Academics)



Prof. R.K. Dwivedi (Director & Principal, FOECS)



Dr. Aditya Sharma (Registrar)

## Educational tour, “TMU CHEMFEST-2022” to Indian Institute of Technology Roorkee to celebrate “ChemDay-2022”

**Date:** 25-26th March, 2022      **Place of Visit:** Indian Institute of Technology Roorkee, Hardwar,  
**Starttime:** 9.15am (25.03.2022) Uttarakhand-247667  
**End Time:** 8.45pm (26.03.2022) **Date of Visit:** 25-26th March, 2022

### First day (25th March, 2022)

Students have visited Departmental instrumental facilities and they have demonstrated the operating system, process of handling, sampling handling and expected final outcome in details. The instruments are, NMR, Cyclic Voltammetry, Autolab, TGA, DSC, Fluorescence Spectroscopy, CHN analyzer, Zeta sizer, GCMS, Column Chromatography Students have also visited experimental labs to learn practical experiments and they have undergone hands-on-experiments. It would be beneficial for real world scientific measurements, methods for the young students.



## Second Day (26th March, 2022)

Students have attended the “ChemDay-2022” at IIT Roorkee, Haridwar, Uttarakhand. Students have enthusiastically attended Lectures of Director of IIT Roorkee, Prof. Ajit Kumar Chaturvedi, Head of the chemistry department, Prof. K. R. Justin Thomas, Dr. A. K. Sabharwal, Director of Pharmaffiliates Analytics and Synthetics (P) Ltd., Prof Kaushik Ghosh and few more from the industry-academia platform. and poster presentations. Our students have also attended the poster presentations of research scholars of chemistry department, IIT Roorkee. They have a small interactive session with eminent speakers and head of the department and other faculties from Chemistry department, IIT Roorkee. They have a fruitful interaction regarding scope of industrial job opportunities, internships and collaborative projects with Faculties from IIT Roorkee, and Director of Pharmaffiliates Analytics and Synthetics (P) Ltd. Then students have visited world class central library and its facilities. They have also visited administrative building.



### Outcome of the Visit:

Demonstration of skills,

Hands-on -experiment training

Introduced to modern instruments and methods for sample preparation and analysing

Interactive and lecture session with eminent Head of the Department of Chemistry, Professor Dr. K. R. Justin Thomas, Prof Kaushik Ghosh, and other eminent faculties which boost students' confidence and enhance motivation to academic activities

Interactive and lecture session with eminent Director, Dr. A. K. Sabharwal, Director of Pharmaffiliates Analytics and Synthetics (P) Ltd. Haryana-134109 which will be beneficial for students to develop industrial skills.

### Participants:

Students participated: M.Sc. Chemistry first and second year (24 nos)

Faculty Associated: DR. MRINMOY KUMAR CHINI (Teacher-in-Charge for tour), DR. NAVNEET KUMAR, DR. SHALINI NINORIA

**Agenda:** Demonstration of academic and industrial skills, hands-on -experiment training, introduction to modern instruments and methods for sample preparation and analysing.





S. No.	Programme & Specializations	Prog. Duration (in Years)	Tuition Fee (Rs) 2022-23	University Examination Fee (Rs)	Eligibility	Criteria of Merit	
<b>COLLEGE OF COMPUTING SCIENCES &amp; IT</b>							
8.	Computer Science & Engineering <b>(AICTE Approved)</b>	4 yrs.	54,900/-per sem	4,500/- (per sem)	10+2 with Physics, Maths & Chemistry (or Computer Science) with minimum 50% marks and passing marks in English	JEE (Main) UP-CET Score/ Merit based on percentage of marks secured in the qualifying examination	
	CSE- Specialization in Artificial Intelligence, Machine Learning & Deep Learning						
	Computer Science & Engineering (2nd Year Lateral Entry) <b>(AICTE Approved)</b>	3 yrs.			63,000/-per sem		3 years Diploma in Engineering or B.Sc. with Mathematics or BCA with PCM at 10+2 in case of B.Tech.-CSE only
	CSE - Specialization in Artificial Intelligence, Machine Learning & Deep Learning (2nd year Lateral Entry)						
	CSE (In Collaboration with i-Nurture) Cloud Technology & Information Security (CTIS)	4 yrs.			63,000/-per sem		10+2 with Physics, Maths & Chemistry (or Computer Science) with minimum 50% marks and passing marks in English
	CSE (In Collaboration with i-Nurture) Data Science						
	CSE- (2nd Year Lateral Entry) In collaboration with i-Nurture)	3 yrs.			63,000/-per sem		3 years Diploma in Engineering or B.Sc. with Mathematics or BCA with PCM at 10+2 in case of B.Tech.-CSE only
	CSE (In Collaboration with IBM) Application Development using Cloud & Analytics Platform						
	CSE (In Collaboration with TCS iON Data Science)	4 yrs.			54,900/-per sem		10+2 with Physics, Maths & Chemistry (or Computer Science) with minimum 50% marks and passing marks in English
	CSE (In Collaboration with TCS iON Data Science) (2nd year Lateral Entry)						
<b>M.Tech.</b>	Computer Science & Engineering	2 yrs.	45,000/-per sem	5,000/- (per Sem)	B.Tech. in relevant field/MCA	GATE Score/Merit based on percentage of marks secured in the qualifying examination	
<b>BCA</b>	Big Data & Visualization Information Security Cyber Security Internet Technologies Digital Marketing.	3 yrs.	26,100/-per sem	4,000/- (per Sem)	10+2 with Mathematics at 10th level	Merit based on percentage of marks secured in the qualifying examination	
	<b>BCA</b>						For Visually Challenged
<b>BCA</b>	• Mobile Applications & Web Technologies (In collaboration with i-Nurture)	3 yrs.	42,300/-per sem	4,000/- (per Sem)	10+2 with Mathematics at 10th level	Merit based on percentage of marks secured in the qualifying examination	
	• Cloud Technology & Information Security (In collaboration with i-Nurture)						
<b>B.Sc. (Hons.)</b>	Computer Science	3 yrs.	29,700/-per sem	4,500/- (per Sem)	10+2 with Physics, Maths & Chemistry (or Computer Sci.) with minimum 50% marks in aggregate		
<b>B.Sc.</b>	Cognitive Science				10+2 with PCM/PCB		
<b>B.Sc.</b>	(Animation)		32,400/-per sem		10+2 in any stream		
<b>MCA</b> (Master of Computer Applications)	Software Development	2 yrs.	43,200/-per sem	4,500/- (per Sem)	<ul style="list-style-type: none"> <li>• Passed BCA/Bachelor Degree in Computer Science Engg. or equivalent degree Or</li> <li>• Passed B.Sc./B.Com./B.A. with Mathematics at 10+2 level or at Graduation level (with additional bridge course as per norms of the concerned university)</li> <li>• Obtained at least 50% marks /45% marks in case of candidates belonging to reserved category in the qualifying examination.</li> </ul>		
	Machine Learning						
	Network Technologies						
	Data Science & Analytics Advance Technologies.						
<b>MCA</b>	For Visually Challenged						

S.No.	Programme & Specializations	Prog. Duration (in Years)	Tuition Fee (Rs) 2022-23	University Examination Fee (Rs)	Eligibility	Criteria of Merit
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## FACULTY OF ENGINEERING

9.	<b>B.Tech (AICTE Approved)</b>	Mechanical Engineering ME-(In collaboration with TCS iON) Mechatronics	4 yrs.	4,500/- (per sem)	10+2 with Physics, Maths & Chemistry (or Computer Science) with minimum 50% marks and passing marks in English	JEE (Main) UP-CET Score/ Merit based on percentage of marks secured in the qualifying examination
		Electronics & Communication Engineering				
		ECE-(In collaboration with TCS iON Internet of Things (IoT))				
		Civil Engineering				
		Electrical Engineering				
	<b>B.Tech Lateral Entry (AICTE Approved)</b>	Mechanical Engineering ME-(In collaboration with TCS iON) Mechatronics (2nd Year Lateral Entry)	3 yrs.	47,700/-per sem	3 years Diploma in Engineering or B.Sc. with Mathematics	
		Electronics & Communication Engineering				
		ECE-(In collaboration with TCS iON Internet of Things (IoT) (2nd Year Lateral Entry)				
		Civil Engineering (2nd Year Lateral Entry)				
		Electrical Engineering (2nd Year Lateral Entry)				
<b>Diploma in Engineering</b>	Civil Engineering	3 yrs.	21,600/-per sem	10th with Science and Maths		
	Electrical Engineering					
	Electronics Engineering					
	Computer Science					
	Mechanical Engineering (Production)					
	Mechanical Engineering (Automobile)					
	Mechanical (Refrigeration & Air conditioning)					
<b>Diploma in Engineering Lateral Entry</b>	Civil Engineering (2nd Year Lateral Entry)	2 yrs.	22,500/-per sem	10+2 with Physics, Maths & Chemistry or Computer Science or 10th with 2 years ITI Certificate		
	Electrical Engineering (2nd Year Lateral Entry)					
	Electronics Engineering (2nd Year Lateral Entry)					
	Computer Science (2nd Year Lateral Entry)					
	Mechanical Engineering (Production (2nd Year Lateral Entry)					
	Mechanical Engineering (Automobile) (2nd Year Lateral Entry)					
	Mechanical (Refrigeration & Air conditioning) (2nd Year Lateral Entry)					
<b>B.Sc. (Hons)</b>	Mathematics	3 yrs.	4,000/- (per sem)	10+2 in science stream with Physics, Chemistry & Maths		
	Physics			10+2 in science stream with Physics, Chemistry & Maths/ Biology		
	Chemistry					
	Environment & Sustainability					
<b>M.Sc.</b>	Mathematics	2 yrs.	20,700/-per sem	B.Sc. with Maths as an elective subject		
	Physics			B.Sc. with Physics as an elective subject		
	Chemistry			B.Sc. with Chemistry as an elective subject		