

REPORT OF ONLINE WEBINARS DURING COVID 19 CRISIS

December 2020

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UNLOCK The Knowledge

Department of Computing Sciences

Department of Animation

Department of Electronics & Comm. Eng.

Department of Applied Sciences

(Physics, Chemistry, Humanities)

Department of Civil Engineering

Department of Mechanical Engineering

Department of Electrical Engineering

FACULTY OF ENGINEERING & COMPUTER SCIENCES

Teerthanker Mahaveer University, Moradabad

Designed by:
Pradeep k Gupta



Our Guidance Values
Right Philosophy|Right Knowledge|Right Conduct

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.

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From the pen of **Shree Suresh Jain Ji**, Hon'ble Chancellor, TMU

Covid-19 is far more than a health crisis as it is affecting societies and economics at their core. The Economic impact of Covid-19 Pandemic in India has been largely disruptive. Academic world is not an exception to this since with the forced closure of educational institutions, the entire higher education system has been badly disturbed and everything has come to an abrupt halt. In the face of adversity, the choice that we have is either to become bitter or better. Faculty of Engineering & Computing Sciences has an epitome of how much falls on us, we should keep growing ahead. Acknowledging the fact that this pandemic time is urging the academicians to give the right impetus to teaching learning process, the college is organizing many International and National FDPs and webinars which is really commendable. It is a matter of great pride for me that the college has become pioneer in providing superior quality education and this has become possible with the unwavering efforts of Prof.R.K.Dwivedi, Director and his team of highly motivated and learned faculty who impart knowledge by relating it with real life scenarios and current developments in their respective fields. The way FoECS is moving ahead, despite of all hurdles created by Covid-19 pandemic, deserves high appreciation. I am sure and hopeful that efforts to excel in the field of imparting quality education along with high sense of moral values will continue in future also with a greater zeal and fervour. Heartiest Congratulations to the Team FoECS for this endeavour!

From the pen of **Prof. Raghuvveer Singh Ji**, Hon'ble VC, TMU

We are going through the toughest time. The whole world has been clutched by this unprecedented virus and we have no clue as to when this crisis will get over. In order to control the spread we were put under lockdown and were rendered helpless, hopeless and unproductive. But the willingness to learn and a never say no attitude of FOE&CS has proved that nothing can stop them. Under the guidance of Prof. Dr. R. K. Dwivedi, the faculty of FOE&CS has utilized the lockdown period by conducting many webinars and FDPs on some very relevant and practical issues. They have done a commendable job and I applaud their dedication. They have proved that when the going gets tough, the tough get going. I appreciate their efforts and wish them more luck and success in their future endeavors.

From the pen of **Prof R K Dwivedi**, Director, FOE & CS, TMU

Faculty of Engineering & Computing Sciences feels proud to have a strong lead of international and national webinars as well as faculty development programs via online platforms on various burning issues during COVID 19-crises.

I am really thankful to all eminent personalities who projected their views enthusiastically and enlightened the participants with their innovative worthy notes. Their praiseworthy and commendable thoughts gave a new outlook with a hope amid the dark clouds of fear and anxiety spread by corona virus everywhere. The appreciable endeavour taken by each department for organizing such a meaningful webinars and FDPs have brought wonderful, productive and fruitful expressions restored in this magazine that would surely be the beacon of light for all of us to navigate the ship of our personal and professional life struggling with uncertainty during pandemic crisis.

From the pen of **Dr. R K Jain**, Coordinator, FoE & CS, TMU

Privileged I am to have a wonderful opportunity to lead a team for compiling the gists of each webinar and FDP organized by the Faculty of Engineering & computing sciences during pandemic crises. Firstly I am very much grateful to our highly motivated Director Prof R K Dwivedi whose guidance always not only keeps us on track but also inspires us to face every challenge dedicatedly and delightedly. I appreciate my team members who have actively turned each stone in the way to reach publishing this magazine in its final form timely. I hope this magazine will touch new horizons and will be helpful in the teaching learning process.

White Cement & New Value Added Products

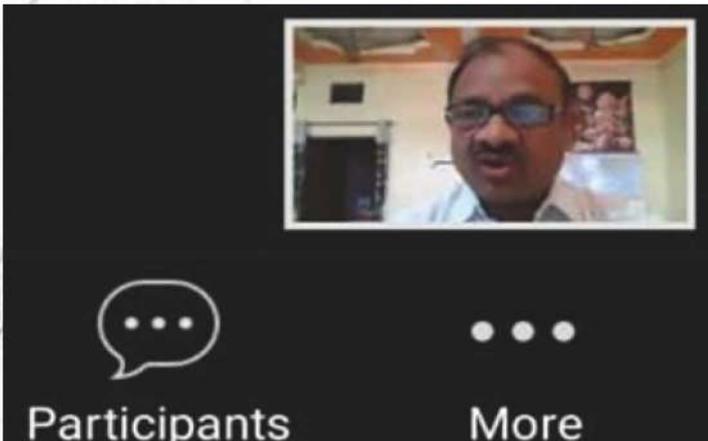
02

Organised by- Department of Civil Engineering, April 23

Department of Civil Engineering is organized a one day technical webinar on “White Cement & New Value Added Products: Salient Features & Applications” via zoom app for the awareness of the students of B.Tech Civil IV, III & II year successfully on 23/04/2020.



The webinar started with welcome speech of Dr. Ravi Jain (Prof. & HoD, Civil Engg.) in which he welcomed the key note speaker of webinar Mr. Anvesh k. Singh, Zonal Head (C.T.S.) - U.P. & U.K. JK Cement Ltd. (White Cement Div.), Prof. (Dr.) R. K. Jain (HOD, CED), Mr. Pankaj Jha (Managing head, Bareilly- Moradabad Region, JK Cement Ltd.) and their team. They motivated the students also by their speech. The webinar was presided over by Dr. Ravi Jain (Prof. & HoD, Civil Engg.) in presence of Prof. (Dr.) S.R. Ali, Mr. A.K. Pipersania, Mr. Ankit Kumar Sharma and the curious students. This Webinar provided the opportunity to the students to gain knowledge regarding white cement and cement property enhancing products.



After the welcome of guests, an expert talk was held on “White cement and new value added products” which was given by keynote speaker Mr. Anvesh Kr. Singh. He shared his technical knowledge and experience with the students. He inspired the students with his speech. In his speech he told about the various uses of white cement, as it uses in

- Crack feeling
- To form Designs
- To Bind Tiles

And he also told how to control the seepage in rainy season and how to make walls damp proof by the uses of value added products.

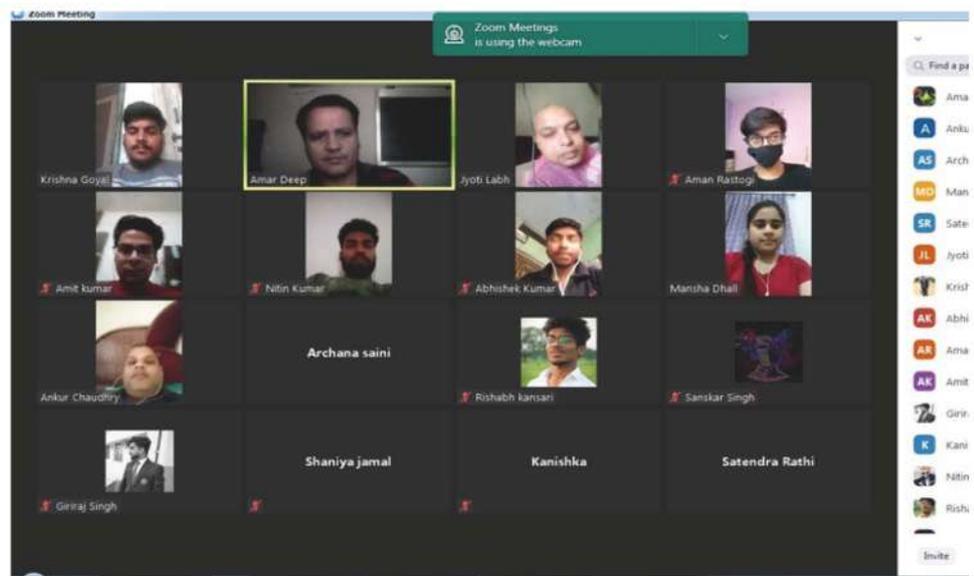




Organised by- Department of Animation, May 17 - 19

Faculty of Engineering and Computing Sciences of Teerthanker Mahaveer University, Moradabad provided the opportunity to the students that they can learn sitting home from the industry experts during this difficult time of pandemic. For this the Animation department of FoE & CS organized a three days (17th May to 19th May 2020) webinar on the topic "Game design and texturing using substance painter". This webinar was inaugurated by Principal and Director of FOECS Prof (Dr.) R. K. Dwivedi and coordinator Mr. Jyoti Ranjan Labh on 17th of May

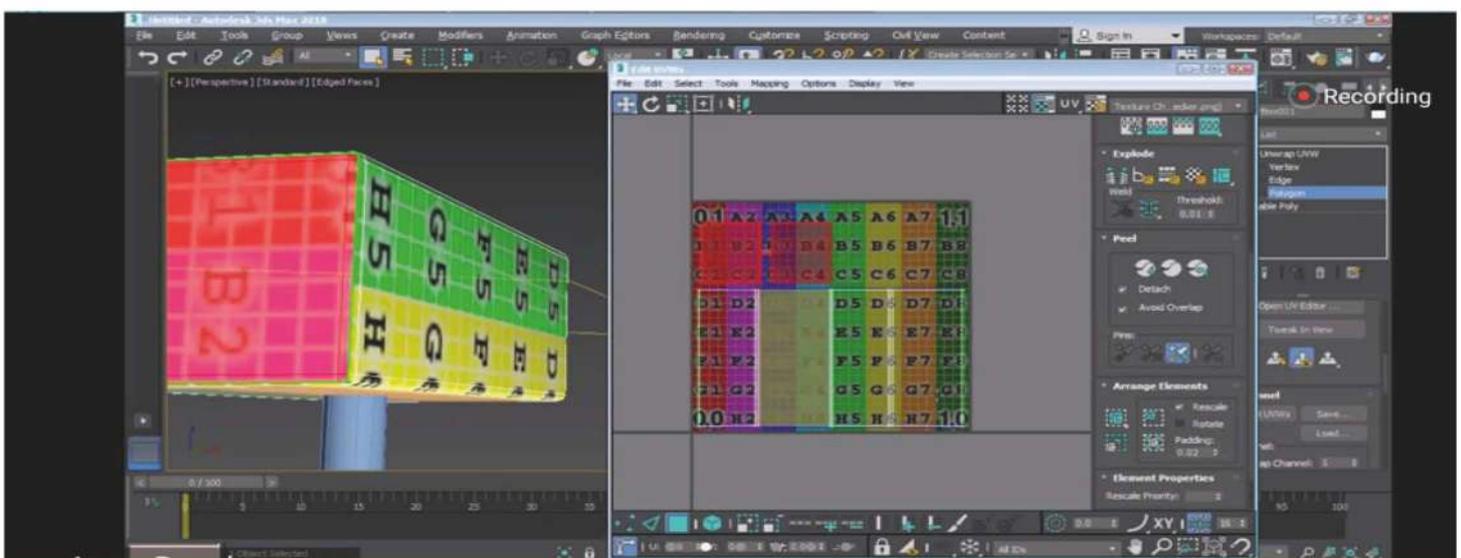
On this occasion the Principal and Director of FoECS Prof. (Dr.) R. K. Dwivedi welcomed all the participants and keynote speaker of the webinar Mr. Amardeep, he said that the purpose of this webinar is to give the awareness to the participants about the latest techniques of game design and career opportunity in the digital gaming industry. He appreciated this initiative by animation department during this lockdown period and the other seminar at a proper interval which was accomplished by animation department. He was also thankful to the TMU administration for their extensive support.



In this webinar the Keynote speaker was Mr. Amardeep who is having more than 15 years of experience in gaming industry and education related to animation. He has won Dr. A.P.J Abdul Kalam memorial award for his contribution in animation industry in 2019. He taught the techniques and gaming tool to the participants. He also gave the live demonstration of the different softwares like: Substance Painter, Autodesk Maya, 3Ds Max so that the participants can be benefited and understand the practical approach in gaming techniques.



On this occasion the faculty members of Animation department Mr. Satinder Kumar, Mr. Ankur Chaudhary, Ms. Shikha Gambhir and Mr. Pradeep Kumar Gupta were present.



Webinar on

“Compassion For People and Planet During Corona Crises”

05

Organised by- Department of Humanities, May 29-30, 2020

OBJECTIVES OF WEBINAR

- (1) To accumulate experts' viewpoints regarding Compassion For People and Planet During Corona Crises
- (2) To encourage the students online to discuss and share their views over the webinar theme.

Day - 1 Inaugural Session:

The opening session was inaugurated with the blessings of Goddess Sarswati by offering her prayer. **Ms Indu Tripathi**, coordinator of the webinar welcomed honourable officiating Vice Chancellor- Prof Raghuvir Singh, respected Director and Principal of Faculty of Engineering and Computing Sciences- Prof (Dr) R. K. Dwivedi, the chief guest and first keynote speaker Dr Nishi Pandey, Professor in English and Modern European Languages (University of Lucknow), the second keynote speaker Mr Nitin Srivastva, News Correspondent, BBC World Services and all participants with great enthusiasm. so that the environment can be protected from being polluted.

Dr Sonia Jayant, the host and webinar chair introduced and briefed the theme. She told about the importance of compassion for the people especially during corona crises. Dr Jayant also shared her views why there is the need of discussion on this topic. She invited honourable officiating Vice Chancellor- Prof Raghuvir Singh and Director of Faculty of Engineering and Computing Sciences- Prof (Dr) R. K. Dwivedi to address the participants with their worthy note.



Prof Raghuvir Singh, officiating Vice Chancellor of Teerthanker Mahaveer University appreciated the webinar theme and elucidated how compassion is the key nature of a human being. He opined that during COVID 19 pandemic, compassion is flaming in people's heart more than before they felt. But contradictorily it is also confined in some cases. He shared various examples regarding it. Prof Singh suggested the participants to have compassion for others as human being without compassion is not a human.

Prof (Dr) R. K. Dwivedi, Director and Principal of Faculty of Engineering and Computing Sciences motivated the participants through his valuable words. He elaborated on the role of compassion for everything during corona crisis. He said that compassion is not as simple as it seems. It has a depth which people feels for others and empathize them. It is a human nature. Some have less and some have more according to their perspective, nature and attitude. But it can be developed and must have in all human being as survivors during crises i.e. COVID 19.



A very renowned personality **Dr Nishi Pandey**, Professor in English and Modern European Languages (University of Lucknow), successfully fulfilling the directorship of UGC HRDC and International Collaborations admired the selection of a wonderful topic matching with the current situation. She illuminated the participants with her enlightened thoughts. According to her, compassion for people is the root of humanity which is ready to face any crises and leads the people to survive in hard situation with strong will-power. She also presented various examples from history and literature filled with interesting stories as witness. During the session, participants curiously asked several questions to the speaker who dealt all questions commendably.



Webinar on

"Compassion For People and Planet During Corona Crises"

06

Organised by- Department of Humanities, May 29-30, 2020



Mr. Nitin Srivastava News Correspondent, BBC World Services filled the ambience of the webinar with contemplating mood through his real and heart-throbbing experience gained in his journalism career. He elaborated pathetic condition of common man apart from what is published on air. He opined on various issues affected in COVID 19 crises and discussed how real compassion is revealed for people when we confronted them directly without any perception of cast, creed etc. Several cases he exposed that can be used as case studies in teaching-learning process.

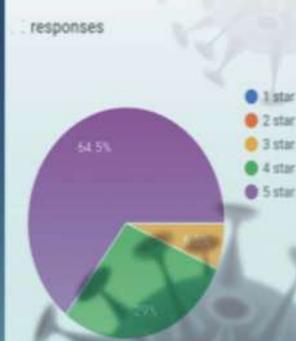
Day -2 Session by the students for the students :

With the motivation of Director and Principal FOE&CS Prof (Dr) R K Dwivedi, the second day of the webinar was enthusiastically and successfully conducted by the students to bring forth their views on public platform under the guidance of organizing team : **Dr Sonia Jayant, Ms Indu Tripathi** and **Mr Jyoti Ranjan Labh**. The session was anchored by the student, Shorya Rastogi and the ardent students from the different colleges of the university participated actively. They shared their views and discussed various issues they are facing during this pandemic situation which was totally different and unexpected by everyone. Somya from B.Sc.(H) Physics II year , Vanshika, Shalini Tiwari and Muskan Rajput from B.Sc(H) Chemistry II year, Nimisha Jain from B.Sc(H) Mathematic II year , Avarnika, Rashmi Sharma, Prerna Agarwal, , Ruchi Singh, and Tayba from BCA II year presented their views in such a mesmerising way that casted their deep impression on each and everyone present over there. The students were well-appreciated by the Director and Principal Dr R K Dwivedi for exploring their views using this platform. He praised this attempt of organizing team for the students. The students' performance was admired by all.

Valedictory session, Dr Sonia Jayant acknowledged the role of each and everyone who made his/her valuable presence in the chain of this two days webinar to make it great success. Through vote of thanks she conveyed her gratitude to Honourable officiating Vice Chancellor- Prof Raghuvir Singh for his commendable address, respected Director and Principal of FOE&CS- Prof (Dr) R. K. Dwivedi for being a great source of inspiration during the whole programme and motivating the participants with his valuable note, the chief guest and keynote speaker Dr Nishi Pandey, Professor in English and Modern European Languages (University of Lucknow) for her praiseworthy address, the second keynote speaker Mr Nitin Srivastva, News Correspondent, BBC World Services for his appreciable note and wonderful interaction with all participants. She was especially thankful to Ms Indu Tripathi for her well-coordination since planning of the webinar to bring it on the practical ground. Dr Jayant thanked Mr Jyoti Ranjan Labh for his digital support for handling whole sessions without facing any hurdle. She admired and thanked all HoDs, CoDs, Programme Coordinators,

Feedback: Organizing team got wonderful appreciation and remarkable feedback from the participants with the demand of organizing more webinars on the regular basis in future.

Rate the webinar in stars



Write your comment / remark about the webinar you liked or disliked:

Liked
Like
It was really a good experience
It was quite productive session.
Yes I liked that.
I like this webinar...
Valuable session.... Eminent speaker
Excellent (liked)
Good

Write your comment / remark about the webinar you liked or disliked:

Good
Overall Good
It was good. The topic was very interesting.
The Webinar was very good.
Looking forward for the same events...
The webinar was organised well
Very good
It is very good and productive.

Write your comment / remark about the webinar you liked or disliked:

The webinar was organised well
Very good
It is very good and productive.
The speakers were friendly to people
I really liked webinar and I really enjoyed but it could be more better
It was very informative
I like it, very informative
Informative
Very much informative

Webinar on "Hybrid car BS-VI"



07

Organised by- Department of Mechanical Engineering May 30 * June 01

A two-day webinar on "Hybrid car BS-VI" was organized by Mechanical Engineering Department, Faculty of Engineering & Computing Sciences, Teerthanker Mahaveer University on 30-31 May 2020.

Day 1

Mr. Harish Kumar welcomed all the participants and they were apprised of the two-day schedule of the program. Mr. Manish Dhingra, head of the department gave brief introduction about the topic of the webinar and introduced the guest speaker to the audience. He also shared his views and understandings of practical issues faced by automobile industry in present scenario.

Prof. (Dr.) Rakesh Kumar Dwivedi, Director, Faculty of Engineering & Computing Sciences, addressed the audience with encouraging and insightful thoughts. He stated that in near future the BS VI will play a key role in automotive sector development and is the need of hour.

Mr. Ashish Jha stated that in order to regulate the pollution emitted by cars and two-wheelers, the government of India has put forth regulations known as Bharat Stage Emission Standards (BSES). From 1 April 2020, the Central government has mandated that all vehicle manufacturers, both two-wheelers and four-wheelers, should manufacture, sell and register only BS6 (BSVI) vehicles. Highlighting the history of BSVI vehicles, he further narrated that BSES, which is the governing organization for emissions from all types of vehicles in the country, introduced the first emission norms with the name 'India 2000' in the year 2000. BS2 and BS3 were introduced in 2005 and 2010, while BS4 norms came into effect in 2017 with stricter emission standards or norms. Among the regulations set by the governing body, emission-related changes included tailpipe emissions, Electronic Control Unit (ECU), ignition control, etc. The most visible change was the AHO (Automatic Headlamp On), this is one of the norms under the BS4 which catered to the safety aspect of the new emission standards.

Day 2

On second day, Mr. Ashish Jha addressed the question what is BS6 all about. He told that the governing body, Bharat Stage Emission Standards (BSES), regulates the output of pollutants from vehicles plying in the country. The Central Pollution Control Board which falls under the Ministry of Environment, Forest and Climate Change sets the standards to regulate emissions from vehicles in India. The BS6 emission standard is the sixth iteration of the emission norm and comparatively, it's a significant jump in terms of reducing pollution compared to the outgoing BS4. This is also because the BS5 (BSV) has been skipped in an effort to move to better emission norms. He further explained the difference between BS4 (BSIV) and BS6 (BSVI) and told that both BSIV and BSVI are emission norms that set the maximum permissible levels for pollutants emitting from a car or a two-wheeler exhaust but as compared to the BS4, BS6 emission standards are much stricter. He further narrated the technological changes have been made by various automobile companies in the design of their vehicles to adopt these new norms and several advantages have been achieved as a result of this.

Mr. Ashish Jha is a BTech in Mechanical Engineering from Rajiv Gandhi Prodyogiki Vishwavidyalaya. He has secured Advanced Diploma in Automotive Mechatronics, Automobile/Automotive Mechanics Technology/Technician from Government Polytechnic Pune, and MBA from Symbiosis Institute of Management Studies. He is presently working as Senior Executive Service Engineer at Future Generali India Insurance Company Limited and has a rich working experience in companies of repute like Tata AIG General Insurance Company Limited, Mercedes Benz T & T Motors Ltd and Times Globacom (P) Ltd. He is a freelancer and expert trainer, delivering lecture cum training sessions based on Automotive Mechanics, Auto-Electronics, Mechanical and Civil Designing software, Entrepreneurship and Development to various Universities and institutes of repute like IITs and NITs.

The Webinar ended with vote of thanks by Mr. Mahir Hussain. More than 100 participants had registered in the Webinar and e-certificates have been provided to all the participants on their registered mail id.

WEBINAR ON

THE ROLE OF T.M.U. IN FIGHTING WITH COVID-19 IN MORADABAD ZONE

08

Organised by- The Faculty of Engineering and Computing Sciences (FOECS)

01 June, 2020

A National Webinar on “The Role of T.M.U. in Fighting with Covid-19 in Moradabad Zone” was organised on 01st June, 2020 under the aegis of IEEE- Student Branch, U.P. Section and Institution's Innovation Council of College of Computing Sciences and Information Technology

The Webinar was inaugurated by **Prof. Raghuvir Singh**, Honourable Vice Chancellor (Officiating), Teerthankar Mahaveer University, Moradabad, **Prof. Rakesh Kumar Dwivedi**, Director and Principal, Faculty of Engineering and Computing Sciences, Keynote Speakers **Dr. Umar Farooq**, Professor and Head, Department of Microbiology, Teerthankar Mahaveer Medical College & Research Centre and Principal, College of Paramedical Sciences, T.M.U., Moradabad, **Dr. (Gp. Capt.) Gurdeep Singh Jheetay**, Professor and Head, Department of Anaesthesiology, Teerthankar Mahaveer Medical College & Research Centre, T.M.U., Moradabad, **Dr. Jigar Haria**, Professor and Consultant Physician, Department of Medicine, Teerthankar Mahaveer Medical College & Research Centre, T.M.U., Moradabad, **Dr. Prerana Gupta**, Professor and Consultant Psychiatrist, Department of Psychiatry, Teerthankar Mahaveer Medical College & Research Centre, T.M.U., Moradabad and **Mr. Pradeep Kumar Gupta**, Assistant Professor, Department of Animation, Faculty of Engineering & Computing Sciences, T.M.U., Moradabad, **Dr. Ashendra Kumar Saxena**, HoD, CCSIT, in the presence of **Dr. Shambhu Bhardwaj**, Proctor, CCSIT, Webinar Coordinator **Dr. Sandeep Verma**, Members of Organizing Committee **Dr. Megha Sharma**, **Dr. Zareen Farooq**, **Mr. Navneet Vishnoi**, **Mohd. Saleem**, **Mrs. Inderjit Jheetay**, **Mr. Manoj Gupta** and all the registered participants by invoking Maa Saraswati.

Mrs. **Inderjit Jheetay** welcomed all stating the purpose and theme of organizing the webinar i.e. to make the participants aware of the current challenges of Covid19 Pandemic in Moradabad zone and the remedies, ways and means to overcome these challenges that are adopted, followed and implemented by Teerthankar Mahaveer University, Moradabad.

Dr. Megha Sharma recited the message of **Honourable Chancellor Sri Suresh Jain Ji** regarding the role of T.M.U. in fighting with Covid-19 in Moradabad zone. A video clip of 10 minutes containing the theme of the webinar was also displayed during the inaugural session. After that, the eminent speakers delivered their speeches in the webinar which were very informative and inspiring.

Inaugural Address

Prof. Raghuvir Singh Hon'ble Vice Chancellor (Officiating) T.M.U. Moradabad

In his inaugural address, Prof. Raghuvir Singh, Honourable Vice Chancellor (Officiating), Teerthankar Mahaveer University, Moradabad, said that T.M.U. is playing great and significant role in Fighting with Covid-19 in Moradabad Zone by providing all kinds of remarkable facilities and assistance to all people who are suffering from this disease. T.M.U. hospital has established a separate and big Corona Centre for the treatment of Corona patients. Our doctors and nurses are doing commendable job in treating the Corona patients with love and care. We appreciate the efforts of our Corona Warriors. He appreciated Prof. Rakesh Kumar Dwivedi, Director and Principal, FOECS and his entire team for organising this webinar and extended his heartfelt



KEYNOTE SPEAKER:

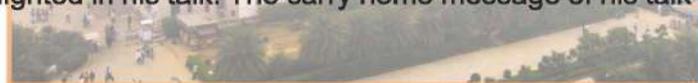
Dr. (Gp. Capt.) Gurdeep Singh Jheetay

Professor HoD, Department of Anaesthesiology, Teerthankar Mahaveer Medical College & Research Centre (TMMRC), Teerthankar Mahaveer University (TMU)

Dr. (Gp. Capt.) Gurdeep Singh Jheetay delivered his speech on “Infection Prevention and Control in Era of Covid-19”. He said that the Corona Virus is not amenable to any current medical treatment which makes the infection prevention and control a suitable cost-effective and life saving measure. He dealt with both aspects in detail the current evidence and the traditional clinical knowledge used for prevention of communicable and infectious diseases which were discussed in current context. Once the infection has been controlled what are the measures that can be taken at home, community and hospital level were highlighted in his talk. The carry home message of his talk was



Jheetay



WEBINAR ON

THE ROLE OF T.M.U. IN FIGHTING WITH COVID-19 IN MORADABAD ZONE

09

Organised by- The Faculty of Engineering and Computing Sciences (FOECS)

01 June, 2020

Keynote Speakers

Prof. Rakesh Kumar Dwivedi

Director & Principal,
Faculty of Engineering and
Computing Sciences
FOECS, Teerthanker Mahaveer
University, Moradabad



Prof. Rakesh Kumar Dwivedi, Director and Principal, Faculty of Engineering and Computing Sciences, in his keynote address, explained the importance of this webinar and encouraged the participants to listen to the ideas of the eminent speakers and learn from their experiences with enthusiasm. He said that they can learn from experiences of the speakers present in the webinar and achieve success in fighting with Covid19 Pandemic. He highlighted the remedies, ways and means adopted, followed and implemented by TMU.

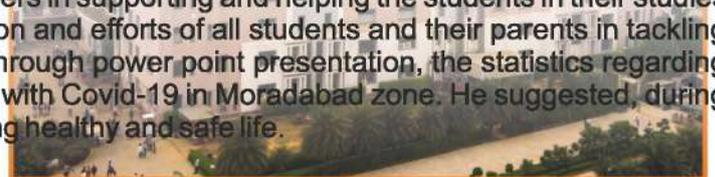
Viewing the momentousness of COVID-19, it's high time to step up against this deadly demon. Realizing the responsibility towards the society, students of Faculty of Engineering & Computing Sciences organized an awareness programs. The students plead for acknowledging the issue and to take very good care for precautions and by following the precautions one can not only saves oneself but can act in the best health interests of society. The students appealed to Stay home Stay Safe.

In the wake of lockdown due to corona virus outbreak, Faculty of Engineering & Computing Sciences initiated an online counseling for students aiming at addressing issues related to emotional and physical wellness in addition to taking up the current challenges being faced by students during this difficult time of Covid-19 pandemic. This initiate empowers to get an opportunity to call or send Whatsapp messages for help or advice on such issues as emotional imbalance, depression, stress, issues concerning physical fitness, motivation and encouragement for personality development, attitude building and lifestyle management. We have taken an initiative to provide support for e-learning and online education to help students continue education from the comfort of their home, Faculty members are using various app which are supporting audio video control, and white board facility and question and answer chat boards.

TMU hospital employees and care providers on the front lines battle the corona virus pandemic with all sense of responsibility towards the society and the nation. Medical fraternity is striving really hard to fight round the clock to help the people fight against Covid-19 pandemic. In spite of gruelling condition, long working hours and fears of contracting the virus themselves, TMU team made of doctors, nurses, medical staff and hygiene workers, is not leaving any stone unturned to do justice to their responsibility.

University manufactured the sanitizer panels for the hospitals and locality in own workshop. Faculties of Faculty of Engineering distributed the sanitizers & mask to the needy persons and passengers of Roadways buses. Students are working with NGO. Nimish Jain, B.Tech EC student joined NGO "Shuruwat Foundation" and worked with them. With them, he has done work in the lock down period and before lock down we did 2-3 drives like educational drive for poor peoples, cleaning drive of public parks, etc. In the lock down period students and faculties have done distribution of food, mask, milk and bread for small children, milk distribution to street dogs, etc in nearby areas. Apart from that Nimish Jain is the Volunteer head of Ward no- 35 in Gwalior under the M.P. Government. Mr Gurpreet Singh, B.Tech EC-IIIrd year student taking the responsibility to sanitize his village & local area of Pakwara, Moradabad with his local friends & with the help of his faculty members who motivated and supported financially also. Two projects Features under Bing COVID Tracker and Quick Ambulance done by our students against spread and prevention of Covid19.

He said that T.M.U. is continuously taking care of all its students, teachers and staff due to which the academic activities are going well in this tough time. We have completed the syllabus on time by taking online classes through various online platforms. We have provided the study materials, notes and video lectures to all students and all e-contents are uploaded on our website. The students are regularly counselled and helped in learning and enhancing their knowledge and skills by our teachers. We are organising regular Faculty Development Programmes, Workshops and Webinars on various technical and relevant topics for the enhancement of knowledge and skills of our teachers and students. He appreciated the assiduous efforts made by the teachers and the staff members in supporting and helping the students in their studies during lockdown due to Covid19. He applauded the cooperation and efforts of all students and their parents in tackling with this difficult situation caused by Covid19. He displayed, through power point presentation, the statistics regarding various assistance and contribution made by T.M.U. in fighting with Covid-19 in Moradabad zone. He suggested, during his speech, a few guidelines for defeating Corona Virus and living healthy and safe life.



WEBINAR ON

THE ROLE OF T.M.U. IN FIGHTING WITH COVID-19 IN MORADABAD ZONE

10

Organised by- The Faculty of Engineering and Computing Sciences (FOECS)

01 June, 2020

Keynote Speakers

Dr. Umar Farooq

Professor and HoD, Department of Microbiology
Teerthanker Mahaveer Medical College & Research Centre
Principal, College of Paramedical Sciences,
Teerthanker Mahaveer University (TMU), Moradabad



Dr. Umar Farooq delivered his keynote address and said that T.M.U. is playing an exemplary role in fighting with Covid19 Pandemic in Moradabad zone. He said that Corona Virus was first discovered in 1960 responsible for carrier pandemic by different starts. Its outbreak was started in 2002 in China, in 2012 in Saudi Arabia and in 2019 again in China.

. He said that the responsibility of TMU Covid Hospital has become greater as other Covid hospitals around Moradabad district like Bijnor, Rampur, Sambhal, Bulandshahar and Amroha are having poor facilities for patient cure. T.M.U. Covid Hospital is having all facilities for patient cure. He highlighted the facilities provided by T.M.U. hospital to Corona patients. It has more than 400 well equipped beds for the Corona patients. It is providing emergency services easily. He said that it was the commendable efforts made by T.M.U. hospital due to which many patients got well and discharged healthy and safe.

He said that the Corona cases are increasing regularly due to community transmission and cluster transmission. He suggested that if any symptom like cough or cold arises we need to go to self isolation but when breathing difficulty and high fever are felt we must contact doctor. He said that the new virus needs a lot of study. No vaccine is there to protect or cure this disease yet and longing to go far due to its side effect and antigen varieties. Around 872 testing labs are in India- 669 government labs and 203 private labs. In U.P. 28 testing labs are there- 22 government labs and 6 private labs. Around 1.25 lakh daily sample testing are going on. We need to stay positive.

He suggested a few guidelines like maintaining social distance, wearing mask, avoiding gatherings, washing hands frequently, using sanitizers, doing yoga exercises, drinking warm water, etc. to face the challenges of Covid19 and keep ourselves healthy and safe. It is time to come, work, learn and grow together. Life has been changing drastically but we need not to panic. Always keep in mind that the effective ways to protect ourselves are cleaning hands 20 to 30 seconds, wearing face mask, maintaining social distancing of 2 metres and assuming that everyone is infectious.

Keynote Speakers

Dr. Prerana Gupta

Professor and Consultant Psychiatrist,
Department of Psychiatry,
Teerthanker Mahaveer Medical College & Research Centre (TMMRC),
Teerthanker Mahaveer University (TMU), Moradabad



Dr. Prerana Gupta, in keynote address, discussed her views on "Being Stress-Free in the Covid Era". She said that it is normal to feel sad, stressed, confused, scared or angry during a crisis like Covid19 pandemic. She suggested a few guidelines for coping with stress and facing the current challenges of Covid19 pandemic. She said that talking to people you trust can help a lot in this tough time. Contact your friends and family. If you must stay at home, maintain a healthy lifestyle including proper diet, sleep, exercise and social contacts with loved ones at home and by email and phone with other family and friends

. Don't use smoking, alcohol or other drugs to deal with your emotions. If you feel overwhelmed, talk to a health worker or counselor. Have a plan, where to go to and how to seek help for physical and mental health needs if required, Get the facts. Gather information that will help you accurately determine your risk so that you can take reasonable precautions. Find a credible source you can trust such as WHO website or, a local or state public health agency. Limit worry and agitation by lessening the time you and your family spend watching or listening to media coverage that you perceive as upsetting. Draw on skills you have used in the past that have helped you to manage previous life's adversities and use those skills to help you manage your emotions during the challenging time of this outbreak. wearing face mask, maintaining social distancing of 2 metres and assuming that everyone is infectious.



WEBINAR ON

THE ROLE OF T.M.U. IN FIGHTING WITH COVID-19 IN MORADABAD ZONE

11

Organised by- The Faculty of Engineering and Computing Sciences (FoECS)

01 June, 2020

Keynote Speakers

Dr. Jigar Haria

Professor and Consultant Physician,
Department of Medicine,
Teerthanker Mahaveer Medical College
& Research Centre (TMMRC),
Teerthanker Mahaveer University
(TMU), Moradabad



Dr. Jigar Haria delivered his speech on "Covid 19: Myths vs Facts". He said that Corona Virus comprises of a large family of viruses. There are 7 different strains of corona virus out of which only SARS-CoV-2 i.e. nCoV causes COVID-19. The incubation range is 5-6 days and modes of transmission are droplets sprayed by affected individuals, contact with patient respiratory secretions, contaminated surfaces and equipment and from human-to-human.

Currently no available treatment or vaccination is there but supportive measures only. Common symptoms are fever, dry cough, breathing difficulty, muscle pain and fatigue. COVID-19 looks a lot closure to the season flu than the previous corona virus outbreaks. He said that T.M.U. Covid Hospital is having all facilities like dedicated Covid 19 Level 3 hospital services, three tier triage system- Triage 0, triage 1, triage 2, Quarantine ward – single rooms with attached bathroom, Isolation wards – 200+ beds, potential of 500+ beds, dedicated Intensive care units – 20 beds, expandable, Strict quarantine rules for HCW, Sanitizer dispensers at all strategic points in workplace. He discussed about some myths and facts related to Covid19 pandemic. He suggested a few guidelines about taking medicines and following some basic rules of daily life like maintaining social distance, wearing mask, avoiding gatherings, washing hands frequently, using sanitizers, doing yoga exercises, drinking warm water, etc. to face the challenges of Covid19 and keep ourselves healthy and safe.

Keynote Speakers

Mr. Pradeep Kumar Gupta

Asst. Professor and Consultant Designer
Department of Animation,
Faculty of Engineering and
Computing Sciences
Teerthanker Mahaveer University
(TMU), Moradabad



Mr. Pradeep Kumar Gupta, in his keynote address, discussed on the topic "Boosting Immunity with Pranayam and Nutrition". During the discussion he told his own story of getting rid of the problems of sugar and high blood pressure by following Yoga exercises, Pranayam and proper nutrition in his daily life. He gave some tips to keep ourselves happy and healthy.

He suggested the audience that if you follow Yoga exercises, Pranayam and proper nutrition in your daily routine then you can boost your immunity to fight with the challenges of Covid19 pandemic disease and you will be able to live a happy, healthy and safe life. His talk was really very fruitful and inspiring. He also explain the methods of doing some Aasans and Pranayam which are fruitful in fighting thr COVID 19. He mentioned Bhramri, Udgeerth and Dhyana beneficial in fighting virus and other infections.

Vote of Thanks

Dr. Sandeep Kumar Verma

Associate Professor of English
Faculty of Engineering and
Computing Sciences
Teerthanker Mahaveer University
(TMU), Moradabad



Dr. Sandeep Verma, Webinar Coordinator, delivered his Vote of Thanks. He expressed his sincerest regards and deepest sense of gratitude to Prof. Raghuvir Singh, Hon'ble Vice Chancellor (Officiating), Teerthanker Mahaveer University, Moradabad for his gracious presence and enlightened and motivational speech in inaugural session of the webinar.

He expressed his sincerest and heartiest thanks to Prof. Rakesh Kumar Dwivedi, Director and Principal, FoECS for playing an exemplary and instrumental role in organizing this webinar under whose benefaction this event could see the light of the day. He expressed his heartfelt gratitude to all the eminent speakers who spared their valuable time to grace the occasion and delivered encouraging and inspiring speech in this webinar. He extended his sincere thanks to Dr. Ashendra Kumar Saxena, HoD, CCSIT, Dr. Shambhu Bhardwaj, Proctor, CCSIT, Prof. Ramesh Chandra Tripathi, Mr. Jyoti Ranjan Labh and Mr. Manish Tiwari, AR-Academics, CCSIT for their valuable support and guidance in organizing this webinar. He extended his heartiest thanks to all the organizing committee members for their untiring efforts which they have rendered in organizing this wonderful webinar. He expressed his deep felt thanks to all the participants for their enthusiastic participation in making the webinar a grand success.

Webinar on World Environment Day

12

Organised by- Department of Civil Engineering, June 05

Department of Civil Engineering organised a one day technical webinar on the occasion of World Environment Day for the awareness of the students of B.Tech Civil IV, III & II year successfully via zoom app platform on 05/06/2020.

The webinar started with welcome speech of Dr. Ravi Jain (Prof. & HoD, Civil Engg.) in which he welcomed the key note speaker of webinar Dr. Ginish R. Pophali, Senior Principal Scientist, CSIR-NEERI and Prof. (Dr.) R. K. Dwivedi, Principal, FOECS, TMU, Moradabad. He also motivated the students by his speech. He told India is the only country in the world where the earth is called mother, so we have the highest responsibility to save the earth from pollution. The webinar was presided over by Dr. Ravi Jain (Prof. & HoD, Civil Engg.) in the presence of Prof. (Dr.) S.R. Ali, Mr. A.K. Pipersania, Mr. Ankit Kumar Sharma, Mr. Siddharth Mathur, Dr. Shekhar Saxena, Mr. Amit Kumar, Ms. Nisha Sehla and the curious students.



This Webinar provided the opportunity to the students to know about the environmental issues and their responsibilities to solve these issues.

After the welcome of guests, an expert talk was held on the awareness regarding environmental issues which was given by keynote speaker Dr. Pophali. He shared his knowledge and experience with the students.



Wastewater Treatment

Sustainability Criteria for Wastewater Treatment

Economic	Technical (Treatment Efficiency)	Administrative
Capital Costs	BOD, COD, TSS removal	Ease of operation
O & M Costs	Nutrient & Coliforms Removal	Designated end use of treated effluent
Land Area	Treatment time, Sludge generation & Handling, Operating flow capacity	-
	Permeate recovery, TDS removal, Rejects generation	-

Techno-economical and environmentally sustainable treatment option should be adopted considering all above factors



Webinar on

“Industrial Attributes & Role of IoT during COVID 19”

13

Two days webinar on “Industrial Attributes & Role of IoT during COVID 19” was organized by the Department of Electronics & Communication Engineering on 8th and 9th June, 2020. More than 150 participants from academics, industries and students registered for the Webinar. The webinar was oriented to deal with the role of Internet of Things (IoT) based devices .during this pandemic situation to deal in common utilities at various offices and public places.

The webinar was graced by the presence of esteemed guests
1- Officiating Vice-Chancellor,
Professor Raghuvver Singh Ji,
Teerthanker Mahaveer University,
Moradabad.

2. **Prof. R.K. Dwivedi**, Director &
Principal, Faculty of Engineering
and Computing Sciences,
Teerthanker Mahaveer University,
Moradabad.

3. Chief Guest- **Mr. Vinay Agarwal**,
Senior Smart Home Consultant,
Softpro India Pvt.Ltd.

4. **Mr. Prithwish Sen**, Senior
Technical Instructor at Aspire Vision

5. Convener- **Dr Pankaj Kumar
Goswami**, Associate Professor,
Electronics & Communication
Engineering Department,
Teerthanker Mahaveer University,
Moradabad

6. **Dr Mudita Juneja**, Head of the
Electronics & Communication
Engineering Department, ,



In this growth of digitalization, the Internet has fundamentally changed the vision of society, but at the same time, the greatest transformation actually still lies ahead of us. Several new technologies are now converging in a way that mean the Internet is on the brink of a substantial expansion as objects large and small get connected and assume their own web identity. IoT (Internet of Things) is an advanced automation and analytics system which exploits networking, sensing, big data, and artificial intelligence technology to deliver complete systems for a product or service. These systems allow greater transparency, control, and performance when applied to any industry or system. IoT systems have applications across industries through their unique flexibility and ability to be suitable in any environment. They enhance data collection, automation, operations, and much more through smart devices and powerful enabling technology.



Prof. Raghuvver Singh, Off. Vice Chancellor, TMU opined the insights of modern technologies and suggested the incorporation of these technologies in to general education practice. During his talk he discussed various technological attributes.

Prof. (Dr.) R. K. Dwivedi at the inaugural ceremony of the webinar addressed the importance of the networking field and how the field of IoT has new future career aspects. In addition, the learning experience of networking skills will help students in their technical and research projects.

Mr. Prithwish Sen, Senior technical Instructor AspireVision has delivered his presentation on day 1, during his presentation; he discussed the technical conceptualization of Artificial intelligence. He elaborated the role of AI and ground level working scheme of AI using machine learnings.

Mr. Vinay Agarwal, Senior Smart Home Consultant, Soft Pro India was the keynote speaker of day 2. He has worked on multiple live projects related with smart city and smart home. During his talk, participants were benefited by the attributes of IoT and how this can be implemented in various live projects. The two days session was highly appreciated by the participants in the feedback session.

Dr Mudita Juneja, HoD, ECE delivered vote of thanks to all the Guests, Participants, Coordinators and Organizers from Teerthanker Mahaveer University and SoftPro India Pvt. Ltd.

The coordinators and organizers were appreciated for their hard work.

Dr Pankaj Kumar Goswami (Convener), **Dr Mudita Juneja** (Coordinator), **Mr. Prashant Kumar**, Asst. Prof. ECE, **Mrs. Sakshi Singh**, Asst. Prof., ECE **Mr. Rahul Vishnoi**, Asst. Prof. ECE **Mr. Neeraj Kaushik**, Asst. Prof., ECE

WEBINAR ON "CLOUD COMPUTING WITH SAP"

14

Organised by- The Faculty of Engineering and Computing Sciences (FOECS) 28 June

Aim

SAP is the fastest growing ERP across the world. The aim of webinar was to introduce cloud computing along with IoT (Internet of Things) and its application for the pandemic era of COVID-19 with SAP.

Learning Outcome

1. The participants will be able to understand the basics of cloud computing
2. The participants will be able to understand the significance of IoT in Pandemic era
3. The participants will be able to understand the ever growing ERP SAP

Event Coordinator

Mr. Vivek Kumar

Assistant Professor, FoE&CS, TMU

Organising Committee

- 1) **Ms. Rohaila Naaz**, Assistant Professor, FoECS, TMU.
- 2) **Mr. Abhilash Kumar**, Assistant Professor, FoECS and Program Coordinator, B.Sc. (Hons.), TMU.
- 3) **Ms. Shikha Gambhir**, Assistant Professor, department of Designing and Animation, FoECS, TMU.

Resource Person(s)

1. **Prof. R. K. Dwivedi**

Director FoE&CS
TMU, Moradabad

2. **Dr. Neeraj Kr. Pandey**

Assistant Professor
DIT University, Dehradun

3. **Mr. Shrawan Kumar**

Project Manager, SAP
MindTree Limited,
Hyderabad



Organizing Team



Mr. Vivek Kumar
Asst. Professor, FoE&CS, TMU



Ms. Rohaila Naaz
Asst. Professor, FoE&CS, TMU



Mr. Abhilash Kumar
Asst. Professor, FoE&CS, TMU



Ms. Shikha Gambhir
Asst. Professor, FoE&CS, TMU

Keynote Speeches

Prof. R. K. Dwivedi, Director (FoE&CS) started with introduction to basics and extended till virtualization in electricity generation and other uses in the power sector. He said that data centers emerged with the emergence in cloud computing and big data. Cloud is required to reduce migration cost, isolate the dependencies. He also added that cloud is needed to store, analyze and process real-time data.

Dr. Neeraj Pandey, the keynote speaker, started with the topic of his speech "Opportunities for Cloud-of-Things (CoT) in the pandemic (COVID-19) era business automations". He introduced CoT and emphasized on the urge of Industrial IoT for automation amid the shortage of workers across the industry. He also threw light on near future communication of machine to machine. The speaker complemented Prof. Dwivedi's talk about high volume real time analytics.

Mr. Shrawan Kumar, the keynote speaker, is working with SAP technologies. He covered Real Time data management with SAP and hands-on to ABAP Development Tool. He emphasized on Real Time information with tight integration. During his session he did hands-on and depicted Multi-language support in SAP to work seamlessly across globe. The speaker said that SAP supports 45+ verticals like academics, banking, insurance, media, SAP IOT, SAP RPA, etc. The speaker ended his talk with the note, "I am here to help you in bachelor projects, master thesis or doctoral thesis work". He also assured the audience to help in going abroad, especially Germany.

Vote of Thanks

Director (FoE&CS) delivered the vote of thanks and appreciated the great presence of participants in the afternoon session. He also appreciated the keynote speakers for delivering the interesting sessions. He again emphasized on the ever growing demand of cloud resources.

Role of Information Security in the Digital Era

15

Organised by- The Faculty of Engineering and Computing Sciences (FOECS) 28 June

A one day webinar on “Role of Cyber Security in the Digital Era” was organized by iNurture in association with FOE&CS, TMU Moradabad. The theme of the webinar was created to understand ideas and innovation in the cyber security. The program was hosted by Dr.Sukhvir Singh, Academic Head-North India, iNurture.

Organising Team:



Anu Sharma

Assistant Professor
iNurture Programme Coordinator
FOE&CS



Dr Rattan Rana

Senior Mentor for
Teerthanker Mahaveer University,
iNurture Education Solutions

KEYNOTE SPEAKERS

Prof. Raghuvir Singh
Hon'ble Vice Chancellor,
TMU,



Prof. R. K. Dwivedi,
Director, FOE&CS, TMU



Dr. Sujay Nair,
President, iNurture
Education Solution and



Mr. Ram Kumar,
Business Information
Security Officer Nissan
Motors



Keynote Speeches

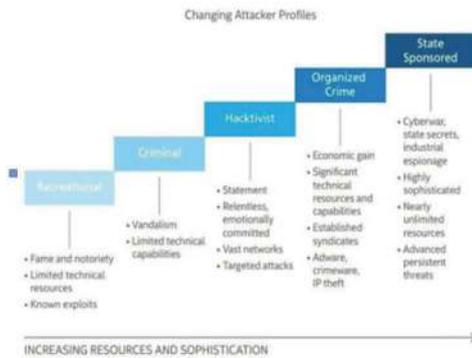
Prof. Raghuvir Singh, started the session with blessings and discussed the role of security in modern digital era. He expressed his views on how the digitization has changed the human life; each and every field has been impacted with machines like Computers or Mobile phones. He has also discussed about data and information usage and how much it is important for human beings and an organization. He also highlighted the importance of cyber security. He ended his words with “what to prepare and how to prepare” for Cyber-attacks.

Prof. R.K. Dwivedi, while addressing the webinar stated that, title was very much suited & relevant according to this new digital era. He shared his knowledge about cyber security and also told how to spread awareness about electronic device security. He also discussed about network design security & service requirement, massive security breaches, DDOS attacks and cyber-crime. He also gave an overview of the digital signature and problems associated with them. He said that this kind of webinar is very helpful to acquire knowledge.



Role of Information Security in the Digital Era

Organised by- The Faculty of Engineering and Computing Sciences (FOECS) 28 June



Fundamental shifts happening in job market



At-Risk Emerging Technologies



Keynote Speeches

Mr. Ram Kumar, industry keynote speaker discussed in detail about current scenario of cyber security. He gave a brief overview about AI, IOT, Security and Block chain. Mr. Ram Kumar discussed various cyber security touch points, difference between information security & IT security and risk associated with emerging technologies. He also gave the overview of various job opportunities in the field of cyber security. He told the students about various certifications which can help them to get good jobs.

Dr. Sujay Nair, President, iNurture Education Solution, discussed various security problems associated with our mobile phones and how hackers attack the mobile devices. He also discussed about government initiatives and laws related to cyber security and cyber-crime. He told how a small chip in a mobile phone breaches your security. He briefly discussed various strategies used in cyber security.

After completing the session participants raised questions and gave comments that focused on suggestions. In the end Dr. Sukhvir Singh thanked all the keynote speakers for their valuable knowledge shared with the participants and also thanked the participants for being a good audience. Dr Sukhvir Singh expressed his gratitude to the organizing team Dr Rattan Rana, Ms Anu Sharma, Mr Vinay Kumar and Mr Praful Saxena for their valuable contribution in organizing the webinar.

OUTCOMES OF SESSION: -The session was very informative for all faculty members and students. After completing the session all participants were able to understand security problems associated with our electronic devices and how to secure these devices. Participants were also able to understand various security techniques that can help them to securely use their device. Participants got awared about various certifications on cyber security and job opportunities in the field of information and IT security.

International Webinar on
"Current Research Trends with respect to Industry 4.0"

Industry 1.0

Industry 2.0

Industry 3.0

Industry 4.0

Organised by- Department of Computing Sciences & Engineering

Department of Computing Sciences & Engineering , FOE & CS Teerthanker Mahaveer University organized a webinar on June 17 18, 2020 on the topic "Current Research Trends with respect to Industry 4.0".

Day One:

Dr. Gulista Khan (Convener) invited **Professor Raghuvir Singh**, Vice Chancellor, TMU to inaugurate the International webinar. Prof. Raghuvir Singh enlightened us on the importance of research with respect to Industry 4.0 for the betterment of academics and society.

In this series **Prof. (Dr.) R.K. Dwivedi** Principal FOE & CS, TMU, delivered a talk on "Current Research trends with respect to Industry 4.0" to connect the participants with the webinar theme. After that **Dr. Chetan R. Dudhagara** Assistant Professor & Head Anand Agricultural University, Anand, Gujarat delivered talk on "Application of Internet of Things". After this **Dr. Ashutosh Bhatt** Associate Professor, BIAS, Bhimtal, Nainital delivered the talk on "Innovation and Startups using Convergence of Technology & Industry 4.0." at the end of day there was a doubt clarification session for the participants.

Day Two:

Dr. Gulista Khan (Convener) started the session by welcoming all the participants and key note speaker **Dr. Rajeev Tiwari**, Associate Professor, UPES Dehradun, he delivered the talk on "Cloud Computing research prospects in Industry 4.0 Framework".

In this series **Dr. Kolla Bhanu Prakash**, Research Group Lead at KL University, Krishna, Andhra Pradesh, India enlightened us by his speech on "Latest challenges in clustering algorithms for deep learning research".

In continuation international speaker **Mr. Shamshul Khaliq** and **Mr. Tausif Ali**, eTrepid Inc., Mechanicsville, MD joined us and delivered the talk on "Azure Deployment (Cloud Computing)" by demonstrating the whole process of Azure deployment in a very effective and interactive manner.

At last **Dr. Bhumika Gupta** Associate Professor, G.B.Pant University, Pauri Garhwal delivered the talk on "Machine Learning" and also discussed role of machine learning and research areas of machine learning in today's era. In the end Dr. Gulista Khan gave vote of thanks to all the keynote speakers and all the participants.

Our Keynote Speakers

Organizing Team

Convener

Dr. Gulista Khan
Asst. Professor, CSE, FOE & CS, TMU,

Organizing Team

Mr. Amit Singh
Mr. Rahul Rathore

Mr. Kamal Kumar Gola
(Asst. Professor, CSE, FOE & CS, TMU)

Contact us on: 9639888358,
9454478173, 9760153636 and
Gulista.khan@gmail.com



Dr. Chetan R.
Assistant Professor
& Head,
Anand Agricultural
University, Anand,
Gujrat.



Dr. Rajeev Tiwari,
Associate
Professor, UPES,
Dehradun



**Dr. Ashutosh
Bhatt,**
Associate
Professor, BIAS,
Bhimtal,
Nainital



Dr. Bhumika Gupta,
Associate Professor,
G.B. Pant Institute of
Engg. &
Technology, Pauri
Grahwal



Dr. Kolla B. Prakash,
Professor and
Research Group
Head KL University,
Krishna, A.P.



Mr. Shamshul Khaliq
Project lead at
eTrepid Information
Technology &
Services
Mechanicsville,
MD

Webinar on Smart Energy Solutions to Boost Power Sector Economy

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Organised by- Electrical Engineering Department June 06

Electrical Engineering Department, Faculty of Engineering and Computing Sciences, Teerthanker Mahaveer University organized a webinar on June 06, 2020 on the topic "Smart Energy Solutions to Boost Power Sector Economy During Pandemic".

Dr. Garima Goswami, Head, Electrical Engineering Department, FoECS, TMU and **Prof. (Dr.) Zainul Abidin Jaffery**, Department of Electrical Engineering, Jamia Milia Islamia University, New Delhi, **Mr. Ashutosh Sharma**, Project Head, Voltrans Energy, Ghaziabad and Prof. **Dr. Rakesh Kumar Dwivedi**, Director, Faculty of Engineering & Computing Sciences, TMU were the distinguished speaker of this webinar.

The Webinar inaugurated with the encouraging and insightful thoughts of honorable Pro Vice Chancellor of Teerthanker Mahaveer University, Prof. Raghuvir Singh who has also an expertise in electrical engineering. Hon'ble Vice chancellor share his knowledge over present situation of Indian Power sector and its challenges. He also focused his talk over different innovative and conventional solutions to make Power System operation more flexible and develop a strong immunity against its vulnerability. He stated that in near future the Electrical Engineering has to play a key role in country's economy and its development as energy is pivot to humankind development and energy security is the need of hour. He also share the benefits of renewable energy generation and its storage along with its integration to the power grid.

Prof. Dwivedi shared his immense knowledge and understanding of practical issues faced by our Power Sector in present scenario and what are the challenges before the sector in present crisis situation. He explained Round the clock (RTC) renewable power purchase agreement between different transmission and distribution companies. He also put light over power bundling and microgrids for renewable energy sources to cater the growing demand of energy. He shared COP-21 vision and India's aim to produce 175 GW of renewable energy for its domestic use and reduce its dependency over conventional fuel-based power production and contribute towards greener future.

Webinar Coordinator:

Dr. Garima Goswami

**Head, Electrical Engineering Department
FoECS, TMU**

Organizing Committee:

**Mr. Pradeep Kumar Verma, Asstt. Prof., EED,
FoECS**

**Mr. Umesh Kumar Singh, Asstt. Prof., EED,
FoECS**

**Mr. Raghvendra Kumar Singh, Asstt. Prof., EED,
FoECS**



Webinar on Smart Energy Solutions to Boost Power Sector Economy

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Organised by- Electrical Engineering Department June 06

Prof. Zainul A. Jaffery

Dr. Z. A. Jaffery is at present Professor in the Department of Electrical Engineering, Jamia Millia Islamia (a Central university, Govt. of India). Dr Jaffery obtained his B. Tech. in Electrical Engineering and M. Tech. in Electronics and Communication Engineering from Aligarh Muslim University, Aligarh, India in 1987 and 1989 respectively. He obtained his PhD degree from Jamia Millia Islamia in 2004.



Prof. Jaffery has published about 100 research papers in the area of Electronics and Electrical engineering in the peer reviewed international journals and conferences. His research area includes Digital signal processing, Digital image processing, biomedical image processing, soft computing techniques and their applications in power engineering and electronics engineering. Prof. Jaffery is a member of various academic societies of national and international repute. He is senior member of IEEE (USA).

Prof Jaffery has wide administrative experience. Prof. Jaffery has served as Head of the Department of Electrical Engineering and as the Director of Centre for Innovation and Entrepreneurship, Jamia Millia Islamia. He is also the Honorary

Director of University Training and Placement, Jamia Millia Islamia. Prof Jaffery has been invited as subject expert in many public service commission such as UPSC, Tripura public service commission (TPSC), J & K Public Service commission and Bihar Public service commission.

Our Speakers:



Prof. R.K. Dwivedi
Director, Faculty of Engineering,
TMU



Dr. Zainul Abidin Jaffery
Professor, Deptt of Electrical Engineering
Jamia Milia Islamia University
Delhi, India



Mr. Ashutosh Sharma
Project Head, Voltrans Energy,
Ghaziabad



National Webinar on "Smart Materials for Future Applications"

A two days webinar on "Smart Materials for Future Applications" was organized by department of Physics on 16th and 17th June 2020.

The webinar was convened by **Prof. S.P. Pandey**, Department of Physics..

Convener: Dr. S. P. Pandey (SP), Professor, Physics

Co-Convener: Dr. Amit. K. Sharma (AKS), Assc. Professor & Head, Physics

Secretary: Dr. Diptonil Banerjee (DB), Asst. Professor, Physics

Jt. Secretary: Dr. Vishnu P. Shrivastava, Asst. Professor, Physics

Organizers: 1. Dr. Parag Agarwal, Assc. Professor, Physics

2. Dr. Pavan K. Singh, Asst. Professor, Physics

PATRONS



Shri Suresh Jain
Chancellor, TMU



Shri Manish Jain,
Group Vice
Chairman, TMU



Prof. Raghuvir Singh
Off. VC, TMU



Prof. R.K Dwivedi
Director,
FOE & CS, TMU

The webinar was graced by the presence of esteemed guests

1- **Professor Raghuveer Singh Ji**,

Officiating VC

Teerthanker Mahaveer University, Moradabad.

2. **Prof. R.K. Dwivedi**, Director & Principal, Faculty of Engineering and Computing Sciences, Teerthanker Mahaveer University, Moradabad.

3. **Dr. B. Bhattacharya**, Professor, Banaras Hindu University, Varanasi.

4. **Dr. N. Vijayan**, Principal Scientist, National Physical Laboratory, New Delhi.

5- **Dr Praveen Chandra Pandey** Assoc. Prof.

Dept. of Physics,
IIT(BHU)

5. **Dr. D. K. Misra**, Principal Scientist, National Physical Laboratory, New Delhi.

6. **Dr. K. L. Yadav**, Professor IIT Roorkee.

7. Assc. Professor, IIT BHU, Varanasi.

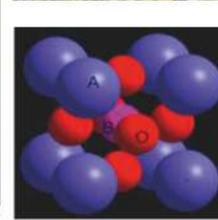
8. **Dr. K. Pandey**, Senior Scientist, Allahabad University.



The materials and their science has driven and been driven by the development of revolutionary technologies such as rubber, plastic, semiconductors, bio-materials. Now, due to its performance and quick response, the materials are smart materials. The field of materials, now, has broadened to every class of materials including polymers, semiconductors, magnetic materials, bio-materials and nano-materials, energy materials.

Over all, the basis of science of materials is the study of structure of materials and relating them to their properties. Once the correlation of materials is known, the materials become smart with high performance. A material is intended to be used for certain applications. The materials have offered a significant effect on our life via their applications. Now days, a lot of efforts are being devoted by the researchers, scientists and academicians to make the materials more advanced and more smart i.e. for its high performance and quick responsive.

These Two days were important for us to know about the smart materials and their future applications from various experts of material scientists. The National Webinar had 4 sessions and six experts delivered their presentations on various aspects of materials and its applications.



LIST OF SESSION CHAIR

DAY ONE 16/06/2020	Session I	Dr. S.P. Pandey
	Session II	Dr. Asim Ahmed
DAY TWO 17/06/2020	Session III	Dr. Diptonil Banerji
	Session IV	Dr. Pawan Kr Singh

National Webinar on “Smart Materials for Future Applications”

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A two days webinar on “Smart Materials for Future Applications” was organized by department of Physics on 16th and 17th June 2020.

The webinar was convened by **Prof. S.P. Pandey**, Department of Physics..

Quest for GREEN ENERGY



Prof. K.L. Yadav

Smart Materials Laboratory

Department of Physics

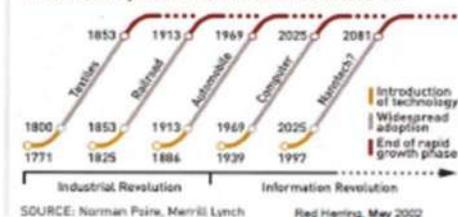
Indian Institute of Technology Roorkee

Revolutionary Technology Waves



REVOLUTIONARY FORCES

Basic advancements in science and technology come about twice a century and lead to massive wealth creation.



SOURCE: Norman Poire, Merrill Lynch Red Herring, May 2002

Commonality: Railroad, auto, computer, nanotechnology all are enabling technologies

Limits of Nanotechnology



On Sept. 28, 1989, an IBM physicist, **Don Eigler**, became the first person to manipulate and position individual atoms. Less than two months later, he arranged 35 Xenon atoms to spell out the letters IBM.

Writing those three characters took about 22 hours. Today, the process would take about 15 minutes



William Shockley



John Bardeen



Walter Brattain

Transistor 1947

Transistor used in the electronic revolution and compactification of devices

The Nobel Prize in Physics 1956

Glimpses of technical sessions

In the valediction session **Dr. S. P. Pandey** extended his gratitude to **Prof. Raghuvir Singh**, **Prof. (Dr) R. K. Diwedi**, he also extended his thanks to all the distinguished speakers from the renowned institutions, for making excellent presentations and making this national webinar interesting and meaningful.

He also expressed his thanks to all the participants from different parts of the country, who participated in the national webinar and constantly listened to the experts, and shown their interest in question and answers and boosted their knowledge from their places during such pandemic crises due to covid-19.

He thanked all the professors and faculty members from other departments who gave their valuable suggestions and support to make this webinar successful, specially, **Prof. Asim Ahmad** and all faculty of Chemistry department for their support.

He also thanked HoD-Physics, **Dr. Amit Sharma** for his moral support and also thanked all the faculty members of his department **Dr. Parag Agarwal**, **Dr. Vishnu Srivastava**, **Dr. Pavan Kumar Singh** and **Dr. Diptonil Banarjee**, for their moral and physical support.

Webinar on Ways To Improve Career Skills During COVID-19

22

Organised by- Department of Humanities June 24 - 26

Covid-19 Pandemic is far more than a health crisis. It is affecting societies and economics at their core. The impact of this pandemic varies country to country but in common it is affecting all the walks of life. It has a deep impact on the way we perceive the world and our everyday lives. The economic impact of the 2020 corona virus pandemic in India has been largely disruptive. The growth of the country in fourth quarter of the fiscal year 2020 went down to 3.1 according to Ministry of Statistics. Unemployment rose from 6.7% on 15th March to 26% on 19th April.

During the lockdown an estimated 14 crore people lost employment while salaries were cut for many. More than 45% of household across the nation have reported an income drops as compared to previous years. With Covid-19 pandemic sending everyone inside, we may be wondering what to do with all extra time at home. Instead of getting lost in the sea of scary news and social media posts, let's turn the attention back to work and skill development. The FDP aims at providing a platform to faculty members, entrepreneurs, researchers and industry personnel to come together on a common platform to discuss and deliberate the ways to improve career skills during the time of Covid-19 pandemic.

The organizing team worked hard to contact international and national resource persons and completed the task of getting their consent successfully. The FDP was well advertised and the schedule was decided to work smartly. Mr. Kamal kumar Gola and Mr. Rahul Rathore registered with GOTO link for the virtual communication for all resource persons and participants.

Organizing Committee-

- Dr Asim Ahmad**, Professor , Department of Chemistry
Mr. Kamal kumar Gola, Assistant Professor ,
Department of Computer Sciences
Mr. Rahul Rathore, Assistant Professor , Department of
Computer Sciences
Ms.Neha Anand, Assistant Professor, Department of
Humanity, Convener of FDP.

INTERNATIONAL SPEAKERS

- 1-Ms. Christine Dyack , Laurier university , Canada
- 2-Mr. Housseem Eddine SID, Northumbria University,
Newcastle
- 3- Mr. Mohd. Saboor Ahmad , CEO, Servhub , Dubai
- 4- Mr. Mohd. Airish , Northumbria University, Newcastle
upon Tyne

NATIONAL SPEAKERS

- 1-**Professor MGH Zaidi**, Head , Department of
Chemistry, College Of Basic sciences, GBP University of
Agriculture and Technology, Pant Nagar India
- 2-**Dr Pallav Vishnu** , Assistant Professor , Department of
Linguistic , Aligarh Muslim University , Aligarh India
- 3-**Mr Appras Vilies** , Professional Communication
Trainer , Invertis University , Bareilly India
- 4-**Mr. Moughes Ahmad**, Department of Petro-chemical
Engineering, Aligarh Muslim University, Aligarh India.



Webinar on Ways To Improve Career Skills During COVID-19

Organised by- Department of Humanities June 24 - 26

DAY-1

The session started with the worship of Ma Saraswati and all were blessed to complete the task. Ms Neha Anand welcomed all the participants, Honorable Officiating Vice Chancellor,



Honble Vice chancellor Professor Raghuvir Singh admired the initiative of organizing the FDP. He added that COVID-19 is a big loss for the education and industries. However, we should not lose hope and should try to figure out something positive. He further added that storms hit our weakness but unlock our true potential. The secret of Crisis Management is not good vs. bad, its preventing the bad from getting worse. He said today is the time we begin to learn to look through the eyes of others to find out and experience what Covid-19 pandemic is like for them. He appreciated the efforts of organizing team to have such motivating topic which will definitely bring out positive outcome.

Moving ahead, Ms Neha Anand requested **Professor R. K Dwivedi** to scatter the words of wisdom and to lead the program successfully. Prof. Dwivedi stated that most of us have new skills we aspire to learn. It is easier than ever to further education and career skills with online teaching learning process. It is high time to bolster the career and learn new skills that will surely help us become better at what we do. So when we are able to head back into work. We can leverage those new skills for a raise, a promotion or even to take on a new role allowing us to truly make the most of this uncertain time. His speech was highly appreciable and he blessed the team to continue the program.



After this official inauguration the first speaker **Ms Christine Dyack, Laurier University** was welcomed. Ms. Christine owns startup of business strategy and basic consulting services. She is associated with many projects that require in depth understanding of business culture and team building requirements. Ms Christine Dyack spoke on a Sociological Discussion on Compliance during a pandemic with reference to Covid-19 pandemic. During her session, she very well defined the meaning of compliance. The job market scenario post Covid-19 pandemic, the shift from formal to inclusive in the regard of education are delineated by her in her talk. Empathy and moral education courses were well emphasized in the session. Shifting from Negative Compliance to Positive Compliance, Redefining health records with travel in mind, Increase Isolation Violation Consequences, need to expand technological knowledge,



The second speaker, **Mr Housseem Eddine SID**, from Northumbria University, New Castle was welcomed and requested to deliver the talk.

His session was highly appreciated as he covered, 'My story to PhD: How to stay motivated & determined during Covid-19 Lockdown and Times of distress'. He emphasized on the importance of time management especially in the times of distress. He opined that it is highly needed to be the architect of life. We should always have the remote control of our life in our hand. Our happiness and sorrow should not depend on others and we should be competent enough in being emotional intelligent. The time of lockdown can be utilized in developing the skills.



Webinar on Ways To Improve Career Skills During COVID-19

Organised by- Department of Humanities June 24 - 26

DAY-3 Third day of this FDP was again energetic one alike the first and second day.



The day was commenced with the session of **Mr. Appras Villies**. Mr. Villies is highly energetic and committed professional trainer with strong academic background and practical experience in modern and innovative teaching technique.

He has been awarded for six months in a row stood on the first position in terms of performance in the department of Credit Card Customer Services. He has been awarded with The Stellar Advisor of the Month in May 2013 and November 2013. Presently he is working with Invertis University Bareilly India as Professional Communication trainer and Interview Expert.

After him, **Mr Mohammad Arish**, Northumbria University, New Castle, delivered his session ways to Success: Unleash your potential. Mr. Arish spoke energetically on team work, honesty, creativity leading to way to success. Finding good and positive in each and everything that happens to the world and to us has been defined by citing many quotes and examples. In the face of adversity we have a choice, we can be bitter or we can be better. Challenges and adversity are meant to help us to know who we are. What matter is, our approach to accept it.



Third speaker, **Mr Moughes Ahmad**, from Aligarh Muslim University, was the last but not the least. He was welcomed and requested to deliver his talk on Lockdown: A blessing in disguise. He emphasized on finding the positivity in such drastic and harsh time. His points were really useful to make our self-strong and successful. Sometimes in life the situations become so hard to handle and we start becoming full of negativity. But we should not forget that whatever happens happens for good. There is always something positive in each and everything. We should strive hard to find out the something fruitful. The time of lockdown can be seen as the time which allows us to learn new things sharpen career skills, building relationships with friends and family. If we start taking lockdown in this way, it will become a blessing in disguise.

Vote of thanks

Vote of Thanks was proposed by **Ms. Neha Anand** wherein she tried her best to spell out words of thanks to all resources persons and participants. First of all she expressed highest sense of regards to Prof. Raghveer Singh, honorable Vice Chancellor, TMU for his words of acceleration. She thanks to Prof. R. K. Dwivedi, respected Director & Principal FoECCS for his stewardship, support, vision and guidance. she thanks to all distinguished speakers for their valuable contribution who really worked hard to make the FDP a memorable success. She expressed her gratitude towards all the participants from all walks of life for making the dream of FDP coming out as a reality. She thanked the organizing team members Dr. Asim Ahmad, Mr. Kamal Kumar Gola, Mr. Rahul Rathore, Naman Gupta and Apoorv Gupta who really worked hard behind the curtains and make FDP a big success.



Adopt responsibility for your own wellbeing. Try to put your family together, try to serve the community, try to seek the eternal truth. That's the sort of thing that can ground you in your life, enough so that you can withstand the difficulty of life. Nothing in the life is to be feared, it is only to be understood. Now is the time to understand

Webinar on Ways To Improve Career Skills During COVID-19

Organised by- Department of Humanities June 24 - 26

DAY-2

It was thrilling day for all the participants and organizing team. The speaker of the day was Mohd. Saboor Ahmmad , CEO , Servhub, Dubai. .



Mohd. Saboor Ahmad, CEO Serv Hub Dubai, delivered very practical session on moving towards perfection during COVID-19, pandemic. His short and sweet lecture was really heart touching and he focused that nothing is permanent. Everything changes with time be it good or bad. Change is the law of nature and accepting that change is the need of the hour. Adversities come in life to show our real potentials. The time will change but we have to keep patience to achieve something life. Hence keep on doing good work. Being optimistic was the crux of the session.

Moving ahead, **Dr Asim Ahamd** welcomed eminent scholar, researcher and academician, **Prof. MGH Zaidi**, Head ,Department of Chemistry, GBP University of Agriculture & Technology Pantnagar India. He focused his lecture On COVID-19 and its types. He also explained about the precautions from home to industry. He elaborated that this Corona virus is propagating very fast and due to 40 variant it is very difficult to prepare vaccine. His words of knowledge were of great importance. He addressed the queries of participants and replied in a very effective way. The session was highly informative and covered wide spectrum starting from industry to home.



In the series **Dr Pallav Vishnu**, Department of Linguistic Aligarh Muslim University, was welcomed and requested to deliver the talk on Covid-19 is a boon for building relations, saving present jobs, learning and building careers. He focused on every possible problem to make it useful for human beings. How to be productive and positive during Covid-19 pandemic was beautifully described by him. The session was full of many important takeaways which can be summarized

And The people stayed home.
And Read Books, and Listened and Rested.
And Exercised and Make Out
And Played Games
And Learned new ways of being
And were still.
And listened more deeply.
Some meditated, some prayed,
some danced
Some met their shadows.
And the people began to think differently
And the people healed.



International Webinar on "Data Analytics"

26

Organized by

Faculty of Engineering & Computing Sciences, Teerthanker Mahaveer University, Moradabad
in partnership with Unitieup, Chennai, on 23 July, 2020

Faculty of Engineering and Computing Sciences, Teerthanker Mahaveer University, Moradabad has been provided an opportunity for its teachers and students to learn while sitting at home in the difficult situation of the global pandemic COVID-19.

PATRONS

Prof. Raghuvir Singh
Officiating Vice Chancellor
TMU, Moradabad

Prof. Rakesh Kr Dwivedi
Director & Principal
FOECS, TMU
Moradabad

ORGANISING TEAM

Mr. Ankur Sisodia
(Webinar Coordinator):
Assistant professor
FOECS, TMU

Mrs. Swati Vishnoi
(Webinar Dy. Coordinator)
Assistant professor
FOECS, TMU
Moradabad

Mr. Aaditya Jain
Assistant professor
FOECS, TMU
Moradabad



Webinar External Coordinator

Mr. Ashok Kumar Manimaran
Founder of Unitieup
Chennai



Keynote Speaker

Mr. Kalyan Kumar Guntha
Founder & CEO
Align Associate
Dubai, UAE



One day international webinar on the subject "Data Analytics" was organized on 23rd July, 2020 under the joint aegis of IEEE-Uttar Pradesh section of the College and CSI-Noida.

This online webinar was launched by TMU's officiating Vice Chancellor **Prof. Raghuvir Singh**, Director & Principal, FOECS, **Prof. Rakesh Kumar Dwivedi**, Head of Department **Dr. Ashendra Kumar Saxena**, Chief Guest and Webinar Partner **Mr. Ashok Kumar Manimaran**, Founder of Unitieup, Keynote Speaker **Mr. Kalyan Kumar Guntha**, Founder and CEO of Align Associates. Coordinators of this online webinar were Mr. Ankur Sisodia, **Mrs. Swati Vishnoi** and Mr. Aditya Jain. In addition to TMU faculty and students a total of 350 teachers, researchers and students from all over the country participated with online registration in the webinar.

Prof. Rakesh Kumar Dwivedi, Director & Principal, FOECS, TMU welcomed all the participants, keynote speakers, chief guests and organizing team in his address. He explained how we can connect academics and industry with the help of Data Analytics and Data Science. In his address, he also briefed about the courses and features of Teerthanker Mahaveer University.

The Chief Guest, **Mr. Ashok Kumar Manimaran**, thanked the principal and organizing team and mentioned the characteristics of Unitieup.

The Keynote Speaker, **Mr. Kalyan Kumar Guntha**, presented his views on data analytics in which he explained that this Data analytics is the science of analyzing raw data in order to make conclusions about that information. He described the difference between trade and financial risk very easily by presenting different facts through case studies. He further outlined several examples of business in present scenario with explaining the role of machine learning in Data Analytics. He told how we can use bots in real time governance; risk monitoring and how they can be used as tools in ERP system. He also highlighted in his address that we can analyze the performance of any corporate company using data analytics. And along with this, he gave information about metric based business analysis. He also told how we can use data analytics in automated monitoring with the help of a bot. While presenting several models, he gave information about business trends of the company and applied data analytics to it and told about the future growth of the company in relation to Data Analytics. He also talked about the benefits of different types of concepts of data analytics. He inspired the participants to develop new business models by using new technologies like Cloud, IoT, R-Studio etc. to start a new type of business and make Prime Minister Narendra Modi's self-reliant India a big success. Finally, he punctuated his thoughts by describing data visualization as the best place of analytics.



FACULTY OF ENGINEERING AND COMPUTING SCIENCES

Organizing
Two Days
International Webinar
on
**COVID 19: Issues and Challenges
With Strategic Management**

Date: 10th & 11th June, 2020
Time: 2.00-4.00pm

PROF RAGHUVIR SINGH
Officiating Vice Chancellor
Teerthanker Mahaveer University

PROF(DR) R.K.DWIVEDI
Director & Principal
FOE & CS
Teerthanker Mahaveer University

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Organised by- Department of Humanities June 24 - 26

AIM OF THE WEBINAR

After the wide spread of COVID-19 in India and throughout the world, a countrywide lock down to avoid the risk of COVID-19 was announced. During this lock down every one was inside home and faculty members were completing the educational task from their home. At the end of the month of May 2020, Director & Principal, Faculty of Engineering & Computer Sciences, Prof. R.K. Dwivedi suggested that indeed it is tough time can be utilized for sharing knowledge by organizing Webinars and FDP. The present webinar is the outcome of our positive thinking to have different views of learned key note speakers.

INAUGURATION

The proceedings of this webinar started sharp at 2.00 pm, **Mr. Kamal Kumar Gola** and **Mr. Rahul Rathore** made all necessary arrangements for online webinar through GoTo Meeting link.

After the connectivity of dignitaries and participants Ms. Neha Anand broke the ice and started the webinar by welcoming all the participants, **Professor Raghuvir Singh**, Hon'ble Vice Chancellor, and **Professor R. K. Dwivedi**.

It was really an exciting moment to see the crowd of learned participants on line. Ms Neha added that we have reached this destination on account of the inspiration and courage received from our principal and Director. Everyone was happy and Ms Neha Anand invited Hon'ble Vice Chancellor to bless the session. Professor Raghuvir Singh was very glad on this day and he said the chosen topic, "COVID-19; Issues and Challenges with strategic Management" was very apt topic to speak about and it is very essential to think that how could we get the benefit of this lock down during the peak disaster of this pandemic through strategic management.



Prof. Raghuvir Singh
Hon'ble VC, TMU

Then after his address **Professor R.K. Dwivedi** was invited to shower his blessings and give green signal to start the Webinar. He spoke the words of wisdom and encouraged the participants and organizers. He also gave emphasis to think about this hard and harsh time due to Covid-19 and sabotage of this social, economical and educational system.

After the fabulous words of Professor R.K. Dwivedi, Ms. Neha Anand invited **Naman Gupta**, student BCA IIIrd Year, FoECS to give brief presentation on the app COVID-19 which was designed by him and his team. Naman Gupta and his three friends developed this app which is very useful to know about the growing stage of this pandemic in every state and at India level. It was a new topic for every one and all the participants asked questions on the utility of this App.



PROFILE
PROF. DR. RAKESH KR. DWIVEDI
DIRECTOR | PRINCIPAL
FOE&CS | TEERTHANKER MAHAVEER UNIVERSITY

ABOUT ME
Doctorate from IIT Roorkee
Having number of International Publication and Patent to his credit
DIRECTOR & PRINCIPAL FOE&CS
TEERTHANKER MAHAVEER UNIVERSITY

TOPIC
COVID19 : ISSUES AND CHALLENGES

CONNECT WITH ME
9837771280
principal.computers@tmu.ac.in



PROFILE
NAMAN GUPTA
STUDENT | STUDENT CHAIR IEEE | FREELANCE DEVELOPER
TEERTHANKER MAHAVEER UNIVERSITY

ABOUT ME
A Newly graduate Web Developer, Coder offering enthusiasm and understanding of various programming languages. Looking to join an organization where the opportunity for growth and personal development is embraced.



FACULTY OF ENGINEERING AND COMPUTING SCIENCES

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29



PROF(DR) R.K.DWIVEDI
Director & Principal
FOE & CS
Teerthanker Mahaveer University



PROF RAGHUVIR SINGH
Officiating Vice Chancellor
Teerthanker Mahaveer University

Organised by- Department of Humanities June 24 - 26

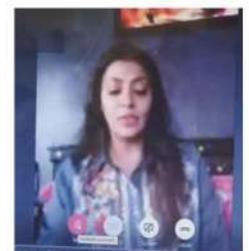
DAY 2

In the series of expert talks of invited speaker, the next speaker, **Ms. Juhi Agarwal**, Slimming Manager VLCC provided deep insight into the chosen theme "Immunity Booster against Covid-19". Ms. Agarwal elaborated on the ways that can render a great help in boosting immunity as it is of utmost importance to have strong immunity during this time of pandemic. She further explained how we can keep ourselves physically and mentally fit by involving ourselves into yoga and exercise. She opined that undoubtedly the time is tough but the moon is always followed by the sun. so we should not lose the heart but keep ourselves positive..



In continuation to this program **Mr. Firasat Zaidi**, from TMU, was invited to speak over the topic "Remote working and Studying: Managing well being during COVID-19". Mr. Firasat Zaidi, being the faculty of management, spoke very well. He stated that there is no sphere of life which is untouched with effects of Covid-19 pandemics. But we need to find out the positive things and which, needless to say, is possible by getting ourselves involved into the activities which are fruitful in enhancing skills and making our perspective positive towards life since the effect of a particular thing depends on how we perceive it. The lockdown period is the time which can be utilized at fullest for upgrading knowledge and skill advancement.

Moving ahead, **Prof. Purna Gupta**, Professor Department of psychiatry TMU, throw light on the ways of dealing with stress as this is the time of pandemic wherein the people are facing stress, depression and irritation. Many people are getting in contact with mental disorders. To cope with stress is the need of the hour and it is our highest responsibility towards ourselves as stress is the buzz word during this pandemic. Mastering strong will power is the best way to deal with stress.



At the end, **Ms. Neha Anand** proposed vote of thanks and expressed her gratitude towards to Prof. Raghveer Singh, Hon'ble Vice Chancellor, Prof R.K. Dwivedi, Director & Principal FoECS, participants, and the organizing team for patiently listening and participating in this webinar. Participants gave wonderful feedback on the webinar and appreciated each and every speaker of the webinar. E-certificate was awarded to all participants. The webinar was a grand success.

Our Keynote Speakers

 Mrs Uzma Qazi Cambridge University Certified Lecturer Medical College, English Language Institute, Jazan University Member Quality Assurance & Certification Saudi Kingdom of Saudi Arabia	 Mrs Anuradha Chawla CEO & Founder Bhatler HR, Speaker with Ministry of HRD	 Mr Tanuj Chawla Director Placement, Rama University, Kangur	 Dr. Reena Mittal Associate Professor and Head of English Department, Deemed to be Degree College, Morabad	 Mrs Juhi Agarwal Slimming Manager VLCC, New Delhi	 Mr Firasat Zaidi Faculty in Management, Teerthanker Mahaveer University	 Dr Purna Gupta Professor, Department of Psychiatry Teerthanker Mahaveer University
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Organizing Team:

Webinar Convener Ms Neha Anand Assistant Professor	Coordinator Ms Indu Tripathi Assistant Professor	Co-Coordinator Dr Zareen Farooq Assistant Professor	Technical Coordinator Mr Kamal Kr Gola Assistant Professor Department of Computer Science
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Department of Humanities

Contact Number:
9458539308, 9837413469, 8433270955

Registration Link:
<https://forms.gle/ftLox5msqgFYbv7h7>



Two days Webinar on
**UNDERSTANDING
AUTOCAD
FOR BEGINNERS**
7th - 8th July, 2020



Webinar Co-ordinator

Ms. Shikha Gambhir, Asst. Professor, FOE&CS, TMU

Keynote Speakers

30



Mr. Amrish Gupta
Sr. CADD Engineer
Bareilly



Prof. Rakesh Kr. Dwivedi
Director, FOE&CS
Teerthanker Mahaveer University

Free Registration & E Certificate will be issued to all participants
Follow the given link for registration

https://docs.google.com/forms/d/e/1FAIpQLScFII4FG6o3veApDYkrulE XFImd5XPEU-ReNr4XVWuk061_w/viewform?usp=sf_link

Organizing Team

Mr. Jyoti Ranjan Labh
Asst. Professor, FOE&CS, TMU

Mr. Satendra Arya
Asst. Professor, FOE&CS, TMU

Ms. Hina Hashmi
Asst. Professor, FOE&CS, TMU

Mr. Ankur Choudhary
Asst. Professor, FOE&CS, TMU

Mr. Pradeep Kr. Gupta
Asst. Professor, FOE&CS, TMU

Dr. Rajeev Kumar
Associate Professor, FOE&CS, TMU

Two Days online webinar entitled "Understanding AutoCAD for beginner" was organized by FACULTY OF ENGINEERING & COMPUTING SCIENCES.TMU, Moradabad. In this webinar, various important things, from important command to sketching and 3D modelling were described in detail. In this 2-Days Webinar, training was giving by Mr. Amrish Gupta, Senior Engineer, CADD Centre, Bareilly.

Learning Objectives

After completing this webinar the student will be qualified to:

- Evaluate mechanical designs and select the proper process and materials for production.
- Create 2D and 3D computer drawings and models for manufacturing and prototyping.
- Evaluate computer aided design models and assemblies based on critical thinking and problem solving skills.
- Collaborate with people of diverse backgrounds and abilities.
- Develop a solution through group work.
- Communicate and present ideas and solutions to design problems.

ORGANIZING COMMITTEE

Mr. Jyoti Ranjan Labh, Mr. Satendra Arya,
Ms. Hina Hashmi, Mr. Ankur Chaudhary, Dr. Rajeev Kumar

RESOURCE PERSON

Mr. Amrish Gupta,
Senior Engineer, CADD Centre, Bareilly.



Principal of CCSIT Prof. R.K. Dwivedi gave a wonderful speech and motivated the student for organizing such a wonderful Webinar. He told that this area is very much in demand like image processing & digital processing. He appreciated the webinar for providing a learning platform to the students.

He asked the students to utilise this lockdown duration to acquire more information & increase their knowledge. He thanked the designing committee for publishing quarterly magazine '**Computing Vision**' for the institution with the support of students. He thanked the animation team for the great work they are doing since last 5 years. He appreciated the fact that many of our students doing job in designing industry, and few students are also working in Bollywood industry. His speech was highly appreciable and he blessed the team to continue the good job.

Two days Webinar on
**UNDERSTANDING
 AUTOCAD
 FOR BEGINNERS**
7th - 8th July, 2020



Webinar Co-ordinator
 Ms. Shikha Gambhir, Asst. Professor, FOE&CS, TMU

Keynote Speakers

31



Mr. Amrish Gupta
 Sr. CADD Engineer
 Bareilly



Prof. Rakesh Kr. Dwivedi
 Director, FOE&CS
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Organizing Team

Mr. Jyoti Ranjan Labh
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 Asst. Professor, FOE&CS, TMU

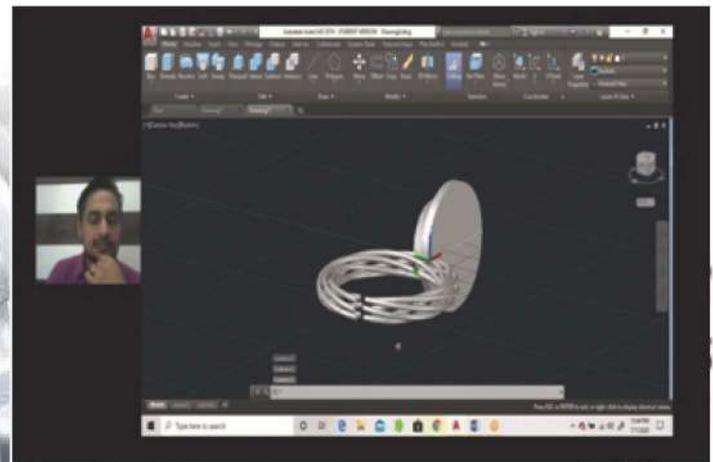
Mr. Ankur Choudhary
 Asst. Professor, FOE&CS, TMU

Mr. Pradeep Kr. Gupta
 Asst. Professor, FOE&CS, TMU

Dr. Rajeev Kumar
 Associate Professor, FOE&CS, TMU

DAY 1

On the first day of the program, the brief description of the AutoCAD software and its important sketching commands and functions like Line, Circle and Rectangle etc. was given and different ways to draft each of them was also taught. Two different methods were drafting in absolute coordinates as well as in relative coordinates. After that the command to modify the sketches, commands like; Mirror, trim, Expand, Break etc. were taught. These commands are very useful to draft complicated 2D



DAY 2

On the second day, Mr. Gupta taught how to draft more assignments by using more useful and complicated commands. He also displayed how to draft the 3d modelling and commands like EXTRUDE, PRESSPULL, LOFT etc. and gave few assignments to the participants for practice. There were many more tutorials on how to change planes on a 3d model by changing the position of UCS.

Vote of Thanks was given by **Ms. Shikha Gambhir**. She thanked all the participants for attending the webinar. First of all she expressed highest gratitude to Prof. Rakesh Kr. Dwivedi, Director & Principal, FOE&CS, TMU for his stewardship, support, vision and guidance. She thanked the resource person **Mr. Amrish Gupta** for his valuable contribution. He really worked hard to make the webinar a memorable event. She thanked the organizing team members **Mr. Jyoti Ranjan Labh, Mr. Ankur Chaudhary, Ms. Hina Hashmi, Mr. Satendra Arya, Dr. Rajeev Kumar, Tarun and Shrishti** who really worked hard to make this webinar a success.

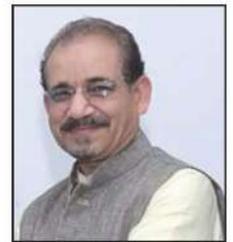
Webinar on 'Implementation of Solid Waste Management Rules'

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Organised by- Department of Civil Engineering, July 14

Department of Civil Engineering, FOECS, TMU, Moradabad in association with Indian Society of Structural Engineers organised a one day technical webinar on the topic "Implementation of Solid Waste Management Rules" for the awareness of the students of B.Tech Civil engineering, faculty members and industry persons

The webinar commenced with a welcome address by **Prof. R. K. Jain**, Head, Civil Engineering Department, FOECS, TMU, Moradabad. He welcomed Chief Guest **Dr. Mohan Balwant Dagonkar**, Retired Additional Municipal Commissioner, Navi Mumbai and **Er. Shantilal Jain**, President, Indian Society of Structural Engineering informed about the ongoing courses in TMU and about the Civil Engineering Department, as well as highlighted the work of Indian Society of Structural Engineering and what is solid waste and how to manage it environmentally.



After the welcome of guests, an expert talk was held in which Chief Guest **Dr.M.B. Dagaonkar** through a case study, presented how a big garbage site transformed into a beautiful park. He shared his experiences and knowledge about solid waste management with the students and also gave them suggestions.

The webinar was attended by 150 participants including **Dr. R K Jain** (Prof. & Head Civil Engg.) along with of **Prof. (Dr.) S.R. Ali**, **Mr. A.K. Pipersania**, **Mr. Ankit Kumar Sharma**, **Mr. Siddharth Mathur**, **Dr. Shekhar Saxena**, **Mr. Amit Kumar**, **Ms. Nisha Sehla** & students This Webinar provided the opportunity to the students to know about the problem of solid waste and their responsibilities to manage it. Department is thankful to Director Sir for his approval and guidance in conducting this workshop successfully.



Eminent Speaker

Dr. Mohan Balwant Dagonkar

Retired Additional Municipal Commissioner
Navi Mumbai



NATIONAL WEBINAR ON JOURNEY OF DURABLE RIGID PAVEMENT

33

Organised by- Department of Civil Engineering, July 25

Department of Civil Engineering, FOECS, TMU, Moradabad organized a one day National Webinar on the topic " JOURNEY OF DURABLE RIGID PAVEMENT " for the awareness of the students of B.Tech Civil Engineering, faculty members and industry persons with collaboration of UltraTech Cement Ltd and HRIT Group of Institutions.

The webinar commenced with a welcome address by **Prof. R. K. Jain**, Head, Civil Engineering Department, FOECS, TMU, Moradabad in which he welcomed Chief Guest of the programme **Er Vinay Gupta**, President, ICI and **Dr Rakesh Dwivedi**, Principal, FoE & CS, TMU, Moradabad . The webinar was attended by Prof. (Dr.) **S.R. Ali**, **Mr. A.K. Pipersania**, **Mr. Ankit Kumar Sharma**, **Mr. Siddharth Mathur**, **Dr. Shekhar Saxena**, **Mr. Amit Kumar**, **Ms. Nisha Sehla**, some industry persons and the students.



Prof. R. K. Dwivedi
Director
Faculty of Engineering &
Information Technology
Teerthanker Mahaveer University,
Moradabad

After the welcome of guests, **Prof Dr RK Dwivedi** emphasized on Durability aspects and environmental conditions to which the structures are subjected. In his address he appraised Civil engineers and said that all over the world they have contributed a lot in development and also created self healing concrete

In technical talk, first eminent speaker **Er KP Abraham**, Ex. Chief Engineer, CPWD gave the information about "History of Concrete". In his lecture he told that a few decades back, 1kg of cement manufacturing released 1 kg of carbon dioxide in atmosphere. With technological developments, it has been brought down to 0.7 kg/kg of cement. The emission level is expected to be around 0.5 kg/kg of cement. The reduction of cement content is essential for sustainability. We can use Mineral or Chemical admixture and using this will enhance the performance parameters of concrete.

Second eminent speaker **Er. Binod Kumar**, Sr. Principal Scientist, CSIR-CRRI, New Delhi, discuss about "Construction and Quality Control of Rigid Pavement". In his lecture he emphasized on different layers of Rigid pavements and quality control. The foundation for rigid pavement is called sub grade. He has given the range of various parameters for PQC mix requirements...

The aim of the Webinar was to discuss and disseminate the knowledge in the fields related to "Durable Rigid Pavement". This has been specially designed for Highway Engineers/Professionals/ Policy-Makers/ in Government and Private Sector, Consultants, Concessionaires, Academicians.



Innovative Techniques in Civil Engineering for Sustainable Development

34

Organised by- Department of Civil Engineering, June 8-10 2020

Department of Civil Engineering, FOECS, TMU, Moradabad organized three days national webinar on the topic "Innovative techniques in Civil Engineering for Sustainable Development" for the awareness of the students of B.Tech civil engineering, faculty members and industry persons successfully. Total 407 candidates are participated in this national webinar.

DAY 1



Prof. R. K. Dwivedi
Director
Faculty of Engineering &
Information Technology
Teerthanker Mahaveer University,
Moradabad

The webinar started with welcome speech of Dr. S.R. Ali (Cordinator and Prof. Civil Engg. Dept., FOECS) in which he welcomed the chief guest and key note speaker of webinar Dr. K.C. Tayade, Additional G M (QC),Maha Metro Rail Corporation Ltd, Nagpur, Prof. Dr. Arif Khan, Principal, NCET RTM Nagpur University, Nagpur and Prof. (Dr.) R. K. Dwivedi, Principal, FOECS, TMU, Moradabad. The webinar was presided over by Dr. Ravi Jain (Prof. & HoD, Civil Engg. Dept. FOECS, TMU, Moradabad) in the presence of Prof. (Dr.) S.R. Ali, Mr. A.K. Pipersania, Mr. Ankit Kumar Sharma, Amit Kumar, Ms. Nisha Sehla and many other faculty members of different institutions, some industry persons and the lot of curious students.

Dr. Tayade enlightened the audience by providing them detailed knowledge of Self Compacting Concrete (SCC). He briefly explained the necessity to choose SCC, various test methods, advantages, limitations and production of SCC. At the end of lecture case studies of use of SCC in India on various Dams in Maharashtra, Metros and Bridges was presented. In second session of the day Prof. Dr. Arif Khan, Principal, NCET RTM Nagpur University, Nagpur explained about water treatment processes and their need in detail.



Dr. K C Tayade
Addl GM (QC)
Maha Metro Rail
Corporation Ltd. Nagpur



Dr. Arif Khan
Principal, NCET
RTM Nagpur University
Nagpur

DAY 2



Mr. Amrish Gupta
Sr. CADD Engineer



Er. Ashok K Sharma
Technical Manager
UltraTech Cement Ltd.

Second day session was started with welcome speech of Prof. (Dr.) R. K. Jain. He welcomed the key note speakers of the day Er K D Gupta, BHEL, Jhansi, Mr Amrish Gupta, Sr. CADD Enginner, Bareilly and Er. Arun Kumar, CE Consultant, Jhansi.

After the welcome of guests, an expert talk was held on "personality development and know themselves" by Er K D Gupta. Then a hands on practise session was held on the topic "Comparative Analysis of a Multi Storied Residential Building with a without Shear Wall" using STAAD Pro software by Mr. Amrish Gupta. Er. In third session of the day Er. Arun Kumar shared his views with audience on Civil Engineering Profession including Consultancy & Valuation.



Er. Arun Kumar
CE Consultant
Jhansi



Er. K D Gupta
BHEL
Jhansi

DAY 3

In third day of webinar Mr. Ankit Kumar Sharma (Asst. Prof. Civil Engg. Dept., FOECS) welcomed the key note speaker of the day Mr. Ashok Kumar Sharma, Technical Manager, UltraTech Cement Limited. After the welcome speech Mr. Ashok Kumar Sharma delivered the knowledge about new IS Code of concrete mix design (IS 10262-2019) to the audience. Further he told about some new value added products used in concrete.

At the end of webinar in valedictory function programe co-ordinator Mr. Ankit Kumar Sharma delivered vote of thanks to all guests, faculty members and students. Department is thankful to Director Sir for his approval and guidance in conducting this national webinar successfully.

Faculty Development Program on Machine Learning using Python

Organised by- Department of Computer Application,
April 22-29 2020

One week faculty development programme on “Machine Learning using Python” was organized on 22-29 April, 2020 by College of Computing Sciences and Information technology, Teerthanker Mahaveer University, Moradabad in association with Electronics & ICT Academy, IIT Roorkee. Machine Learning using Python has become inevitable for the growth and development of new and emerging scenarios of Computer Engineering Sciences.

Benefits and Outcomes of the Course

- Learning of basic knowledge in the area of Machine Learning.
- Understanding of using Machine Learning techniques for digital, medical and satellite imaging.
- Demonstrations of popular software by the expert from the industry.
- Participants will be able to develop their own software.
- Hands-on experience in working with different software in image analysis.
- Participants will be able to develop laboratories in their respective institutions in the course areas.



Prof. R. K. Dwivedi

Director

Faculty of Engineering & Information Technology
Teerthanker Mahaveer University,
Moradabad

Dr. Partha Pratim Roy

Associate Professor,
Department of
Computer Science
and Engineering,
Indian Institute of
Technology Roorkee,
India Associate
Editor of IET Image
Processing, IET
Biometrics,
IEICE Transactions
on Information and
Systems,
Springer Nature
Computer Science
Regional Editor of
the Journal of
Multimedia and
Information System,
Journal of Defense
Acquisition and
Technology



Research Area

Pattern
Recognition,
Multilingual Text
Recognition,
Biometrics
Computer Vision,
Image
Segmentation,
Bio-Signal
Analysis, EEG
based Pattern
Analysis,
Machine
Learning, Deep
Learning, and
Temporal Data
Analysis

S. K. Manhas

He received the Ph.D. degree in electronics and computer engineering from De Montfort University, Leicester, U.K., in 2003, From 2003 to 2007, he was with Micron Semiconductor, Singapore, where he worked on DRAM process integration. In 2007, he joined the Institute of Microelectronics, Singapore, working on Si NW CMOS process integration. He is currently with the Department of Electronics and Communication Engineering, Indian Institute of Technology Roorkee, Roorkee, India. His current research interests are nanoscale device modeling and device-circuit co-design, novel memories, MEMs and sensors, and CMOS process technologies.



Research Area

Pattern
Recognition,
Multilingual Text
Recognition,
Biometrics
Computer Vision,
Image
Segmentation,
Bio-Signal
Analysis, EEG
based Pattern
Analysis,
Machine
Learning, Deep
Learning, and
Temporal Data
Analysis

Faculty Development Program on Novel Approaches on Blockchain Technology & Its Application

Organised by- Department of Computer Application,
May 22-28 2020

Blockchain Technology and its Application have become inevitable for the growth and development of new and emerging scenarios of Computer Engineering Sciences. The goal of this faculty development programme is to bring together researchers and faculty from various parts of the college and to provide common platform to all academicians to exchange their ideas and expand their knowledge about the newly developed technologies and applications of Engineering.

Benefits and Outcomes of the Course

- Learning of basic knowledge in the area of Blockchain Technology and Application.
- Understanding of use of Blockchain Technology for digital, medical and satellite imaging.
- Demonstrations of popular software by the expert from the industry.
- Participants will be able to develop their own software.
- Hands-on experience in working with different software in image analysis.
- Participants will be able to develop laboratories in their respective institutions in the course areas.



Prof. R. K. Dwivedi

Director
Faculty of Engineering &
Information Technology
Teerthanker Mahaveer University,
Moradabad



Dr. Daniel Dasig

TELUS
Communications
Inc. Canada; Asso. Prof.
De La Salle University
Dasmarrinas, Philippines



Mr. Sushil Kr.

Research Fellow
UCS Laboratory,
Seoul National Uni.
of Science and Tech.,
Seoul, South Korea.



Dr Sandeep Kr.

Founder CEO,
Right Zone Tech.
Senior Technical
Lead HCL
Pvt Ltd Noida.

Dr. Daniel Dasig, Jr. has penned hallmarks in education, research and innovation, and community and policy development. He is a candidate for Doctor of Business Administration. He has a degree in PhD in Electrical and Computer Engineering, Master of Science in Engineering major in Computer Engineering, and Bachelor of Science in Computer Engineering. He also completed a Certificate in Professional Education, Certificate in Teaching Profession, and language Certificate in Mandarin from the Confucius Institute at the University of the Philippines Diliman, and Certificate in French from TELUS International University. He has more than 11 years of extensive technical and project management experience and currently works in Canadian telecommunication's Change Management team including his tenure as Application Development Analyst, Technology Analyst and System Analyst. He is also a graduate and post-graduate lecturer of the Graduate Studies, College of Science and Computer Studies of De La Salle University-Dasmarrinas, Philippines; and Adjunct Lecturer at the Catalyst Academy for Innovation and Entrepreneurship in Papua New Guinea. Dr. Dasig is a Lean Six Sigma Certified, Certified in Information Technology Infrastructure Library, Certified Project Management Expert, and Microsoft Certified Innovate Educator. He is a recipient of fellow honours, numerous awards and research grants from universities, professional and research organizations. He is an Author and book editor in Elsevier, Springer, CRC Press, IGI Global, and Review of reputed journals. He has a copious of more than 100 research publications in international and local journals and has more than 100 paper presentations at international and local conferences. He is an organizer, Editor-in-Chief, Editorial Board Member and Scientific Committee member of local and international journals and conferences. He is an officer and member of 40 international and local engineering, education, information technology and other professional and research organizations. He is a Professional Member of the Institute of Electrical and Electronics Engineers (IEEE), and Professional Member of IEEE Industry Applications Society, IEEE Nanotechnology Council, and IEEE Computer Society.

Faculty Development Program on Novel Approaches on Blockchain Technology & Its Application

Organised by- Department of Computer Application, May 22-28 2020

Blockchain Technology and its Application have become inevitable for the growth and development of new and emerging scenarios of Computer Engineering Sciences. The goal of this faculty development programme is to bring together researchers and faculty from various parts of the college and to provide common platform to all academicians to exchange their ideas and expand their knowledge about the newly developed technologies and applications of Engineering.



Mr. Sushil Kr. Singh

Research Fellow UCS Lab, Seoul National Uni.of science and Tech., Seoul, South Korea.

Sushil Kumar Singh received the M.E. degree in information technology from Karnataka State University, Mysore, India, in 2011, and the M.Tech. Degree in computer science and engineering from Uttarakhand Technical University, Dehradun, India, in 2018. He is currently pursuing the Ph.D. degree with the UCS Laboratory, Seoul National University of Science and Technology, Seoul, South Korea, under the supervision of Prof. Jong Hyuk Park. He has more than nine-year experience of teaching in the field of computer science. His current research interests include blockchain, artificial intelligence, big data, and the Internet of Things. He is also a Reviewer of the IEEE Systems Journal, FGCS, Computer Networks, HCIS, JIPS journal, and others.



Dr Sandeep Kr.

Founder CEO, Right Zone Tech. Senior Technical Lead HCL Pvt Ltd Noida.

Dr Sandeep Kumar is founder CEO of Right Zone Technologies Pvt Ltd. And Senior Technical Lead HCL Pvt Ltd Noida. He is certified trainer of Embraco from Denmark. He has visited international countries Denmark, London, United Kingdom. Under his supervision completed many projects. He is awarded 2 times Best project award; He is delivered a guest lecture, keynote speaker, chaired a session in many National and International conferences, Faculty Development program and workshop.



Teerthanker Mahaveer University, Moradabad (Uttar Pradesh)
Faculty of Engineering & Computing Sciences



One Week Online International Faculty Development Programme
(22nd – 28th May, 2020)
on
"Novel Approaches on Blockchain Technology & Its Application"

Vote of thanks was expressed by Dr Rajeev Kumar in the end of FDP, He expressed his thanks to Hon' VC sir, Director (FOECS), all keynote speakers, participants and all of those who contributed in either way in organising the FDP.



One Day Online International Webinar

“WRITING A RESEARCH GRANT PROPOSAL”

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Organised by- Department of Computer Application,
June 15, 2020

To write a Research Grant Proposal has become inevitable for the growth and development of new and emerging scenarios of Computer Engineering Sciences. The goal of this webinar was to bring together researchers and faculty from various parts of college and to provide common platform to all academicians to exchange their ideas and expand their knowledge about the newly developed technologies and applications of Engineering. Research Technology is core facet for all engineering disciplines.

Chief Patron



Shri Suresh Jain
Chancellor
Teerthanker Mahaveer University

Teerthanker Mahaveer University



Shri Manish Jain
Group Vice Chairman
Teerthanker Mahaveer University

Teerthanker Mahaveer University

Patron



Prof. Raghuvir Singh
Officiating Vice Chancellor
Teerthanker Mahaveer University

Teerthanker Mahaveer University



Prof. Rakesh Kr. Dwivedi
Director, FOE&CS
Teerthanker Mahaveer University

Teerthanker Mahaveer University

Benefits and Outcomes of the Course

- Learning of basic knowledge in Research.
- Understanding the concept of research technology and area in Block chain Technology for digital, medical and satellite imaging.
- Participants will be able to develop their own proposal.
- Interaction with Professor with possible collaborations.

Grants have become an important source of research and development support in today's academic environment. Writing a grant proposal requires different approach compared to writing a research paper. On the other hand, there are funding opportunities from organisation such as the IEEE. In this talk, Professor Fung share his many years of experience from being a Research Centre Director, Associate School Dean of Research in Murdoch University, and Past Chair of the IEEE New Initiative Committee whose oversees funding requests range from a few thousands to over a million US dollars. He will discuss what the members of the committee look for in the proposals and the application process involved.

Emeritus Professor ChunChe Lance Fung was trained and worked as a Marine Radio and Electronic Officer in Hong Kong during the 70's. He graduated with a B.Sc. Degree with First Class Honours and an M.Eng. Degree from the University of Wales, UWIST. His PhD Degree was awarded by the **University of Western Australia**, with a thesis on Artificial Intelligence and Power System Engineering. He has taught at Singapore Polytechnic, Curtin University, and, Murdoch University where he was appointed Emeritus Professor in 2015. His roles have included Associate Dean of Research, Postgraduate Research Director and Director of the Centre for Enterprise Collaborative in Innovative Systems. He has supervised up to completion over 31 doctoral students and published over 330 academic articles. His contributions can be viewed at IEEE Xplore, ResearchGate, Google Scholar... etc. Lance has been a dedicated volunteer for the IEEE for over 25 years in various positions in the Chapter, WA Section, Australia Council and the Region 10 Executive Committee. Lance continues his research and supervision of postgraduate students and his motto is “Learning has no Boundary”.

Keynote Speakers



Prof. Vinay Rishiwal
Professor
MJPURU, Bareilly
UP, India



Prof. Launch Chau Che Fung
Emeritus Professor
Murdoch University
Murdoch, Western Australia

Organizing Team



Dr. Rajeev Kumar
Assoc. Professor, FOE&CS, TMU



Ms. Ranjana Sharma
Asst. Professor, FOE&CS, TMU



Mr. Ashish Vishnoi
Asst. Professor, FOE&CS, TMU



Mr. Amit Singh
Asst. Professor, FOE&CS, TMU



Ms. Shikha Gambhir
Asst. Professor, FOE&CS, TMU



ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020



Prof Rakesh Kumar Dwivedi
Director (FOECS)
Teerthanker Mahaveer University

Message from the desk of the Desk of Director (FOECS)

The theme of the symposium is the role of NEP in transforming higher education. The recently rolled out national education policy has been the talk amongst educationists, academicians, think tanks, students, parents and stakeholders. In this symposium all academicians have discussed the efficacy and implementation framework as well as to spread awareness amongst stakeholders. Hon'ble President Kovind said that the national education policy has been an extensive exercise and a long process of

gathering numerous suggestions and is in line with the current aspirations and future needs of the nation. He said that this is not the policy of the Govt., but the policy of the nation. It is a collective responsibility of all to implement the national education policy in letter and spirit. The statement noted that the NEP-2020 is the first education policy of the twenty-first century which was announced after 34 years of the previous National Policy on Education in 1986. The NEP-2020 is directed towards major reforms in both school and higher education level. The new National Education Policy strives for making India into an equitable and vibrant knowledge society. It envisions an India-centred education system that contributes directly to transforming India into a global superpower," it said. It added that the comprehensive transformation the NEP aims will bring about a paradigm shift in the country's education system and create an enabling and reinvigorated educational ecosystem for a new 'Atmanirbhar Bharat' as envisaged by the prime minister. Undoubtedly, the symposium aims at bringing all stakeholders on the same page, overcoming implementational challenges, enabling more concepts based, experimental flexible and innovative learning, keeping pace with changing times, skill and job demands...strengthening knowledge economy and making India, a global superpower. The National Educational Policy 2020 is a bold attempt by the Central government to change how education is imparted from KG to University.





ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

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Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020
One Week Symposium (Webinar Series) on the topic “**Purposes, Challenges and Implications of National Education Policy 2020**” was organized by Faculty of Engineering and Computing Sciences-FOECS, Teerthanker Mahaveer University, Moradabad under the aegis of the Institutions Innovation Council (IIC) of the college and IEEE-U.P. Section from 05th September, 2020 to 11th September, 2020. The eminent speakers, academicians and industry experts across India presented their Talks/Deliberations on various sub-topics of National Education Policy 2020 such as **First Day-** Transformation of Regulatory Framework & Internationalization of Higher Education, **Second Day-** Accessibility, Flexibility and Equity, **Third Day-** Promoting Research, Vocational Education & Adult Education, **Fourth Day-** Restructuring of Institutional Framework, **Fifth Day-** Quality Imperative, **Sixth Day-** Technological & Industry4.0 Integration & Implementation of NEP-2020 and **Seventh Day-** Teacher Education, Governance & Leadership.

The prominent among the guests and keynote speakers who presented their Talks/Deliberations during this grand One Week Webinar Series were **Prof. R. S. Grewal**, Former Vice Chancellor, Chitkara University, **Dr. Sanjeev Pandey**, Regional Director, IGNOU New Delhi, **Prof. N.K. Dhooper**, Prof. Emeritus & Advisor, IMT-Centre for Distance Learning, Ghaziabad, **Prof. S. K. Yadav**, Teacher Education Expert, Former Head- Department of Teacher Education, NCERT, New Delhi, **Prof. S. S. Bhakar**, Director, Prestige Institute of Management & Research, Gwalior, **Prof. Ram Chandra**, Former Vice Chancellor, Monad University, **Prof. Nasrin**, Chair Person, Department of Education, Aligarh Muslim University, **Prof. Supriya Agarwal**, Dean, Social Sciences & Languages, Central University of Rajasthan, **Prof. Harsh Dwivedi**, Director, Poddar Institute of Management, University of Rajasthan, **Prof. Vinod Kumar Jain**, Dean FoE & Dean Academics, Mody University, Lakshmangarh, **Dr. Ramesh R. Lakhe**, Director, Shreyas Quality Management System Nagpur, QCI, Govt. of India Approved Sr. Consultant, **Prof. Karunesh Saxena**, Former Director, FMS, MLS University Udaipur, **Prof. Shakti Kumar**, Director, PIET Panipat, Former Vice Chancellor, Baddi University, **Prof. Manohar Lal**, Former Professor and Director, SOCIS, IGNOU, New Delhi, **Prof. (Dr.) Manoj Kumar**, Dean, Faculty of Management Studies, Maharshi Dayanand Saraswati University, Ajmer, Rajasthan and **Prof. (Dr) Vandana Suhag**, Dean Education Quality, Munjal University, Haryana.

The Chief Patron and the Chancellor of Teerthanker Mahaveer University, Moradabad, Shri Suresh Jain Ji, the Group Vice Chairman of TMU, Shri Manish Jain Ji and the Vice Chancellor of TMU, Prof. Raghuvver Singh conveyed their heartfelt congratulations to all the keynote speakers, participants, organizers of the webinar series, especially Professor Rakesh Kumar Dwivedi, Director and Principal, FOECS for the successful conduct of this seven-day online webinar series and said that definitely during this online webinar series, everyone got an opportunity to know in detail about various aspects of National Education Policy 2020.

This One Week Webinar Series was inaugurated on 05th September, 2020 with the celebration of National Teacher's Day by the Chief Guest Prof. R. S. Grewal, Former Vice Chancellor, Chitkara University, Prof. Raghuvver Singh, Vice Chancellor, Teerthanker Mahaveer University, Moradabad, Professor Rakesh Kumar Dwivedi, Director & Principal-FOECS, Teerthanker Mahaveer University, Moradabad, Dr. Ashendra Kumar Saxena, HOD-CCSIT, Dr. Shambhu Bhardwaj, Proctor-CCSIT, The Webinar Series Coordinators Mohd Saleem and Mr. Navneet Vishnoi, members of the organizing committee, Dr. R.C. Tripathi, Dr. Sandeep Verma, Dr. Sonia Jayant, Ms. Neha Anand, Dr. Zarin Farooq, Mrs. Inderjit Jheetay, Ms. Indu Tripathi, Mr. Siddharth Mathur and Mr. Ajay Chakarvarty and all the registered participants.



ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

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Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020

ONE WEEK SYMPOSIUM (WEBINAR SERIES): Day 01

Platform:  zoom Live Streaming:  YouTube <https://youtu.be/152pm0KLaWk>

"Purpose, Challenges & Implications of National Education Policy 2020"

Eminent Speakers



Prof. R. S. Grewal
Hon'ble Vice Chancellor
Former Vice Chancellor
Chitkara University



Prof. Raghuvir Singh
Hon'ble Vice Chancellor
Teerthanker Mahaveer
University, Moradabad, U.P.



Prof. Rakesh Kr Dwivedi
Director & Principal,
Faculty of Engineering &
Computing Sciences
Teerthanker Mahaveer
University, Moradabad, U.P.

Date: 05 Sep 2020 | Time: 03 PM – 05 PM

Sub Theme: Transformation of Regulatory Framework & Internationalization of Higher Education

 **FACULTY OF ENGINEERING & COMPUTING SCIENCES** 

Prof. Rakesh Kumar Dwivedi, Director and Principal, FOECS said that the purpose of this seven-day webinar series is to provide an opportunity for everyone to know in detail about various aspects including the purposes, challenges and implications of the National Education Policy 2020. He said that the goal of education in ancient India was not to acquire knowledge as a preparation for worldly life or after school life, but as complete self-knowledge and liberation. World-class institutions in ancient India such as Taxila, Nalanda, Vikramashila and Vallabhi set high standards of education and research in diverse fields of study that need to be restored today.

Prof. Raghuvir Singh, Hon'ble Vice Chancellor, TMU discussed about various aspects of national education policy and its subtopics. He said that for last 70 years nothing much have been done so far for the development of our education system. Teachers emphasize on one-way communication. We teach only. We do not care about the students whether they are learning or not. Parents and children are just degree and marks driven. Learning is completely missing from the education system. Skills have no place in entire academic process. Multiple bodies in the complex regulatory framework create conflicts and it becomes very difficult for improving our education.

Prof. RS Grewal, Former Vice Chancellor, Chitkara University said in his address that the regulatory system of higher education would have to ensure that special functions such as regulation, accreditation, funding and determination of educational standards would be conducted by specialized, independent and empowered institutions, systems. It is necessary to create checks and balances in the system to reduce conflicts in mutual interest of bodies and to eliminate excessive centralization of powers in some bodies. Such a change would require existing structures and institutions to consolidate themselves and undergo a variety of developmental gradations. The separation of functions will mean that each organ will be taken to a new single role under the Higher Education Commission of India which is relevant, meaningful and important in the new regulatory scheme.





ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020



ONE WEEK SYMPOSIUM (WEBINAR SERIES): Day 02

Platform:  zoom Live Streaming:  YouTube <https://youtu.be/Y12qm0KLaIk>

“Purpose, Challenges & Implications of National Education Policy 2020”

Eminent Speakers

 Dr. Sanjeev Pandey Regional Director IGADIL, New Delhi	 Prof. N.K. Dhooper Prof. Emeritus & Advisor NET-Centre for Distance Learning, Ghaziabad	 Prof. S.K. Yadav Former, Head, Dept of Teacher Education NCERT
 Prof. Raghuvir Singh Hon'ble Vice-Chancellor Teerthanker Mahaveer University, Moradabad, UP	 Prof. Rakesh Kr. Dwivedi Director & Principal, FOMCS Teerthanker Mahaveer University, Moradabad, UP	

Date: 06 Sep 2020 | Time: 03 PM – 05 PM

Sub Theme: Accessibility, Flexibility and Equity

 FACULTY OF ENGINEERING & COMPUTING SCIENCES 

On day 2 the first person to be introduced on webinar was very respectful **Prof. Raghuvir Singh**. He started by telling that today's topic is heart of quality education. And gave some ideas on accessibility, flexibility and equity of higher education possibility of all sections of the society apart of their cultural and education background. And also introduced us with govt. national education policy. According to him higher education institutions should be in every city giving opportunities to very possible sections of the society. And NEP has already been working is to used harder on this initiative by giving scholarships and financial aids to the one who really need this.

The second person who came upon to enlighten us was **Dr. Sanjeev Pandey** who started by introducing topic as very topical. And said that transformation in education is weapon which will bring on transformation in society and with an individual too. With his closing words he described education's four main pillars as equality, flexibility, availability and placebility. Also told how social media like YouTube, Facebook, etc. is helpful in teaching in every corner of the society. The third eminent speaker was **Prof. S.K. Yadav**, he described that why other countries are far ahead in development and education. And described not only students but teachers also are being introduced to new ways of education. He also elaborated on how traditional methods will be replaced by practical based teaching and learning. He told that NEP helps in formulating better plans ahead and its main objective is nothing but making it better day by day. This GOI has made some really crucial decisions and has bought a six principle policy.

The fourth keynote speaker came was **Prof. N.K. Dhooper**. And explained some silent features of New Education Policy. Where he tried explained the new formation from sixth standard to graduation level changes and contributions like mid-day meals. And how the examination will be conducted semester wise. Where teachers have to get ready by 2023 for new assessment policy. Now not only scholastic but co-curriculum knowledge is also important. Also there have been set some new rules with NATIONAL PROFESSIONAL STANDARDS FOR TEACHERS.

At last concluding lines of Ms. Neha Anand thanking everyone lead towards the successful end of the webinar.





ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

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Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020

Day 3 started with the words of **Professor Raghuvir Singh** (Hon'ble Vice Chancellor, Teerthanker Mahaveer University MBD) he spoke about

1. Low investment in research, approximately 0.6% of GDP.
2. It has to increase to match the other countries.
3. Vocational education needs to be understood as a very important tool for National growth.
4. Adult education is an important aspect in the NEP.

ONE WEEK SYMPOSIUM (WEBINAR SERIES): Day 03

Platform:  zoom Live Streaming:  YouTube <https://youtu.be/132jnd8Kt18>

"Purpose, Challenges & Implications of National Education Policy 2020"

Eminent Speakers

 Prof. Ram Chandra Former Vice Chancellor Monad University	 Prof. Nasrin Chair Person, Dept of Education Aligarh Muslim University, Aligarh	 Prof. SS Bhakar Director, Prestige Institute of Management & Research, Gwalior
 Prof. Raghuvir Singh Hon'ble Vice Chancellor Teerthanker Mahaveer University, Meerut, U.P.	 Prof. Rakesh Kr Dwivedi Director & Principal, F&CS Teerthanker Mahaveer University, Meerut, U.P.	

Date: 07 Sep 2020 | Time: 03 PM – 05 PM

Sub Theme: Promoting Research, Vocational Education and Adult Education

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Than **Professor SS Bhakar** (Director, Prestige Institute of Management & Research, Gwalior) addressed the participants, he through light on following aspects:

1. India has not been able to contribute in research because we never invested in it.
2. India has a share of just 0.69% in investment on research and innovation
3. We have 4.8% in publications and 46582 patents.
4. All of these are quite low compared to other developed countries.
5. National Research Foundation will grow in its functioning.

Professor Ram Chandra (Former VC Monad University) highlighted various key points of new NEP

1. Expectations from the NEP is high and varied.
2. How to achieve those expectations is very important and a difficult field.
3. We are just manufacturing students, which is highly ineffective.
4. Correlation is missing in education.
5. Industrialisation and westernization of education is being done

Prof. Nasrin (Chair Person, Department of Education, Aligarh Muslim University) elaborate features of NEP

1. NEP is founded on: Access, equity, quality, accountability, affordability

2. NEP is divided into many stages:

Primary stage, middle stage, and secondary stage.

3. NEP will reduce the curriculum load.
4. Increased flexibility in choice of subjects.
5. No hard separation of content in terms of curricular extra-curricular and co-curricular areas.
6. Holistic development of learners.
7. Reorientation of the content and process of school education.
8. Inculcate scientific temper and encourage evidence-based thinking about the curriculum.
9. Education in the home language/ mother tongue.
11. Digital literacy and computational training.
12. Vocational exposure and skills.



Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020



Platform: ZOOM

DAY 4

Live Streaming: YouTube

TEERTHANKER MAHAVEER UNIVERSITY
MORADABAD

ONE WEEK SYMPOSIUM (WEBINAR SERIES) : Day 04

PURPOSE, CHALLENGES & IMPLICATIONS OF NATIONAL EDUCATION POLICY 2020

Date: 08 Sep 2020 | Time: 03 PM - 05 PM

Sub Theme: Restructuring of Institutional Framework

— EMINENT SPEAKERS —

			
Prof. Supriya Agarwal Dean Social Sciences & Languages Central University of Rajasthan	Prof. Harsh Dwivedi Director Poddar Institute of Management University of Rajasthan	Prof. Raghuvir Singh Hon'ble Vice Chancellor Teerthanker Mahaveer University Moradabad, U.P	Prof. Rakesh Kr Dwivedi Director & Principal, FO&CS Teerthanker Mahaveer University Moradabad, U.P

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The 4th day got commenced with the words of wisdom of **Prof Raghuvir Singh** (Hon'ble Vice Chancellor, Teerthanker Mahaveer University MBD)

1. There are high number of Universities on different levels.
2. It leads to sub-optimal governance and leadership.
3. Affiliation system is undesirable.
4. Corruption has seeped in the system.
5. Instead of teaching/learning, teachers are busy in just completing the lectures.

Prof. Supriya Agarwal (Dean, Social Sciences & Languages Central University of Rajasthan) spoke about the new features:

1. Fragmentation of educational Institutes should be stopped.
2. There should be large, multidisciplinary Universities.
3. Rigid separation of specialisation.
4. Cognitive skills were not emphasized.
5. Value based education is required.
6. Imparting of knowledge in local languages.
7. Increased autonomy to colleges is required.
8. Higher education institutes need to support other higher education institutes.
9. Fair and transparent systems to display the funding.
10. Higher education will include vocational and professional courses.
11. Community-based and value-based education system.
12. Structure and length of the degree courses has been adjusted.





ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

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Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020

Platform:  ZOOM

Live Streaming:  <https://youtu.be/0lrab03k9ls>



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ONE WEEK SYMPOSIUM
(WEBINAR SERIES) : Day 06

PURPOSE, CHALLENGES & IMPLICATIONS OF NATIONAL EDUCATION POLICY 2020

Date: 10 Sep 2020 | Time: 03 PM – 05 PM

Sub Theme:

Technological & Industry 4.0 Integration & Implementation of National Education Policy 2020

— EMINENT SPEAKERS —



Prof. Karunesh Saxena
Former Director
FMS, MLS University, Udaipur



Prof. Shakti Kumar
Director
PIET Panipat, Former VC
Baddi University



Prof. Raghuvir Singh
Hon'ble Vice Chancellor
Teerthanker Mahaveer University
Moradabad, U.P



Prof. Rakesh Kr Dwivedi
Director & Principal, FOe&CS
Teerthanker Mahaveer University
Moradabad, U.P



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INSTITUTION'S
INNOVATION
COUNCIL





ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

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Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020

Key Note address by Prof Raghuvir Singh – Hon'ble Vice Chancellor, Teerthanker Mahaveer University, Moradabad

Key points delivered by him:

- 1- Prof Singh started his address by defining the word 'Quality'. He put several questions like what quality education is. Who decides it? Who determines it? According to him, quality varies from person to person.
- 2- Students must learn skills they require. Future skills must be on priority. They need to be prepared and need to go beyond the class course.
- 3- Faculty should help the achievers through factual knowledge, conceptual knowledge and procedural knowledge.
- 4- He told that there are three prospective of quality: (a) at result and placement, (b) Process and (c) planning
- 5- Output and process are correlated. We must align our process towards outcomes. Process drives outcomes. There must be alignment among curriculum, pedagogy/ andragogy and evaluation
- 6- Prof Singh insisted on holistic development of the student by aligning their PQ, IQ, EQ and GQ.
- 7- Basis of technical skills needs to be catered like Psychomotor, conceptual and concrete skills. What to learn and unlearn both are important.
- 8- In teaching learning process some points must be kept into consideration like how to deliver quality education? Assurance of learning tool, Perfect alignment and knowledge of learning theories and structural design theory
- 9- The main focus must be on keep learning with managerial skills.
- 10- He signified the outcomes based on Cognitive, affective and psychomotor domains where critical thinking is important. NEP2020 also emphasise on critical thinking.



Platform: ZOOM | Live Streaming: YouTube

DAY 5

TEERTHANKER MAHAVEER UNIVERSITY Moradabad | ONE WEEK SYMPOSIUM (WEBINAR SERIES) : Day 05

PURPOSE, CHALLENGES & IMPLICATIONS OF NATIONAL EDUCATION POLICY 2020

Date: 09 Sep 2020 | Time: 03 PM – 05 PM

Sub Theme: Quality Imperative

— EMINENT SPEAKERS —

			
Prof. V K Jain Dean FoE & Dean Academics Mody University, Lakshmargarh	Dr. Ramesh R. Lakhe Director Shreyas Quality Management System, Nagpur	Prof. Raghuvir Singh Hon'ble Vice Chancellor Teerthanker Mahaveer University Moradabad, U.P.	Prof. Rakesh Kr Dwivedi Director & Principal, FO&CS Teerthanker Mahaveer University Moradabad, U.P.

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Key Note address by Prof. Vinod Kumar Jain: Dean FOE & Dean Academic, Mody University, Lakshmargarh

Key points delivered by him:

- 1- Prof Jain insisted on realizing the need to understand whose responsibility for quality education is.
- 2- Teachers need to evaluate the level of learning and skills need to be inculcated in students to make them more employable.
- 4- He emphasised on project based and group learning.
- 5- He opined that today's students must have technical skills, presentation skills and leadership skills.
- 6- He talked about teaching methodology, evaluation mechanism and expectation from the industry.

Key Note address by Dr Ramesh Kr. Lakhe – QCI, Government of India approved Sr. Consultant.

Key points delivered by him are:

- 1- Prof Lakhe talked about the quality imperativeness of teacher and students both in detail by putting several questions with suggestions.
- 2- He counted the pitfalls of present education system very specifically.
- 3- Prof Lakhe evaluated New National Education 2020 very deeply.
- 4- In very humorous way, he expressed his opinion on every issue.
- 5- Prof Lakhe concluded his address with the hope of successful implementation of NEP 2020.



ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

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Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020

Technological & Industry 4.0 Integration & Implementation of NEP-2020

Eminent Speakers:

1. Prof. Raghuvir Singh (Hon'ble Vice Chancellor Teerthanker Mahaveer University, Moradabad)
2. Prof. Karunesh Saxena (former Director FMS, MLS University, Udaipur)
3. Prof. Shakti Kumar (Director PIET Panipat, Former VC Baddi University)

Key Note address by Prof. Raghuvir Singh

1. Use of Technology will be extensive in both what students learn and how they learn.
2. Technology has proved its importance during the pandemic time.
3. Now days everyone is using technology everywhere, every time. Its open to everybody & it's a wonderful thing that has happened over a period of time.
4. Artificial Intelligence, Machine Learning, IOT, Block Chain will change completely both inside and outside how and what students learn.
5. We, as teachers, should be prepared for these changes and technological advancements.
6. Government is planning to develop a National Educational Technological Forum which would be platform for open discussions on various aspects of Technology, what technology to be used and how it is to be used.
7. We can foresee numerous areas over which technological intervention will happen over a period of time.
8. Biggest use of technology will be seamless implementation of educational activities.



Platform: ZOOM
DAY 6
TEERTHANKER MAHAVEER UNIVERSITY
ONE WEEK SYMPOSIUM (WEBINAR SERIES) : Day 06
PURPOSE, CHALLENGES & IMPLICATIONS OF NATIONAL EDUCATION POLICY 2020
Date: 10 Sep 2020 | Time: 03 PM – 05 PM
Sub Theme:
Technological & Industry 4.0 Integration & Implementation of National Education Policy 2020 – EMINENT SPEAKERS –

 Prof. Karunesh Saxena Former Director FMS, MLS University, Udaipur	 Prof. Shakti Kumar Director PIET Panipat, Former VC Baddi University	 Prof. Raghuvir Singh Hon'ble Vice Chancellor Teerthanker Mahaveer University Moradabad, U.P	 Prof. Rakesh Kr Dwivedi Director & Principal, FO&CS Teerthanker Mahaveer University Moradabad, U.P
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Key Note address by Prof. Karunesh Saxena

1. Rapid and diverse expansion of higher education has been facilitated by technology.
2. Technology has made learning easy, interactive and interesting.
3. When teachers effectively integrate technology into subject areas, teachers grow into roles of advisors.
4. Deeper understanding of concepts, applications and connections to content are made through online learning.
5. Educational technology is a systematic application of relevant technological process & resources in teaching, with a goal to improve student's performance.

Key Note address by Prof. Shakti Kumar

1. An Industrial Revolution is said to have taken place when Technological Innovations revolutionize manufacturing process.
2. We are in the age of Industrial Revolution 4.0
3. Industrial revolution is important for Economic impacts.
4. Industry 4.0 key driver technologies are; Artificial Intelligence, Deep Learning, NLP, Computer Vision, Internet of Things (IoT) etc..



ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

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Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020

Platform: ZOOM Live Streaming: YouTube

DAY 7

TEERTHANKER MAHAVEER UNIVERSITY
MORADABAD

ONE WEEK SYMPOSIUM
(WEBINAR SERIES) : Day 07

**PURPOSE, CHALLENGES & IMPLICATIONS OF
NATIONAL EDUCATION POLICY 2020**

Date: 11 Sep 2020 | Time: 03 PM – 05 PM

Sub Theme:
Teacher Education, Governance & Leadership

— EMINENT SPEAKERS —

				
Prof. Manohar Lal Former Professor & Director SOCS IGNOU New Delhi	Prof. (Dr) Manoj Kumar Dean Faculty of Management Studies MDS University, Ajmer	Dr. Vandana Suhag Dean Education Quality Munjal University (HR)	Prof. Raghuvir Singh Hon'ble Vice Chancellor Teerthanker Mahaveer University Moradabad, U.P.	Prof. Rakesh Kr Dwivedi Director & Principal, FOE&CS Teerthanker Mahaveer University Moradabad, U.P.

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Key Note address by Dr Vandana Suhag- Dean Education Quality, Munjal University (HR).

Key points delivered by him:

- 1- The most important part which we generally ignore is that at school level training must focus on analytical and innovative thinking rather than rote learning.
- 2- She appreciated NEP 2020 for taking steps towards improving the quality of teacher education with multidisciplinary approach.
- 3- She discussed on integrated B.Ed. course and scholarship provision for meritorious student mentioned in NEP 2020.
- 4- The prime feature of International and global approach of NEP 2020 is well admired by Prof Suhag.
- 5- Prof Suhag said that NEP 2020 is bringing the school and higher education together and is realizing their importance to work together for upgrading the society.
- 6- She told that as per NEP 2020 in PhD program now teaching and practice has also been involved which is highly appreciable.
- 7- Now PhD scholars have research experience along with teaching skills as so many platforms are promoted ARPIT, MOOC, in-service training with research etc.
- 8- In teacher education, identified teachers must be given particular training like leadership training etc.
- 9- Governance and leadership will create the culture of excellence.
- 10- 360 degree feedback is important for improvement.

Key Note address by Prof. (Dr) Manoj Kumar – Dean, Faculty of Management Studies, MDS University, Ajmer

Key points delivered by him:

- 1- NEP2020 is helpful to come out from rigid separation of discipline.
- 2- Industries in India are family controlled more.
- 3- Private universities will gradually move to be multidisciplinary universities soon as NEP 2020.
- 4- NEP 2020 lays stress on learner centric teaching.
- 5- Learner centric teaching requires the teachers to be democratic oriented, allow for more class participation, to allow for class diversity and to have some specific mental temperament to deal with issues.
- 6- He has given the example of Haward University and Ohio University as case study.
- 7- Black board method of teaching is still predominant method in most of the universities, although technologies have been welcomed.
- 8- Nothing like face to face interaction during teaching is important.
- 9- Prof Kumar talked about imbalance between salary and working load in private institution.
- 10- He said that NEP 2020 is looking good on paper but how it is executed it is matter of importance.



ONE WEEK SYMPOSIUM on Purposes, Challenges & Implications of National Education Policy 2020

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Organised by- Faculty of Engineering and Computing Sciences from 4 to 11 Sep, 2020

DAY 7

-: Valedictory Session :-

Prof R. K Dwivedi, Director & Principal of FOECS, (TMU) delivered his address in valedictory session on the last day of the webinar series conducted for seven days long. Prof Dwivedi showed his gratitude to all eminent speakers for their valuable thought, opinions and suggestions delivered by them during seven days of symposium. Prof Dwivedi felt obliged to Hon'ble Vice Chancellor for giving all time support and motivation to the team. He admired the efforts of organizing team coordinated by Mr. Mohd Saleem and Mr. Navneet Vishnoi-II for their effective execution and dedicatedly handled the seven days long symposium. He summed up whole sessions with important key points and also presented the day wise report of all 7 days of symposium very effectively. All guest speakers and audience were given thanks.

All speakers dealt all query very nicely and clarified the doubts of participants. It was wonderful and very informative session. A few participants delivered their feedback genuinely before the speakers and organizing team. Dr. Sandeep Verma delivered the vote of thanks to the eminent speakers and the organizing team.

Platform: ZOOM Live Streaming: YouTube

TEERTHANKER MAHAVEER UNIVERSITY
ONE WEEK SYMPOSIUM (WEBINAR SERIES) : Day 07

PURPOSE, CHALLENGES & IMPLICATIONS OF NATIONAL EDUCATION POLICY 2020

Date: 11 Sep 2020 | Time: 03 PM – 05 PM

Sub Theme:
Teacher Education, Governance & Leadership
— EMINENT SPEAKERS —

				
Prof. Manohar Lal Former Professor & Director SOCIS IGNOU New Delhi	Prof. (Dr) Manoj Kumar Dean Faculty of Management Studies MDS University, Ajmer	Dr. Vandana Suhag Dean Education Quality Munjal University (HR)	Prof. Raghuvir Singh Hon'ble Vice Chancellor Teerthanker Mahaveer University Moradabad, UP	Prof. Rakesh Kr Dwivedi Director & Principal, FOE&CS Teerthanker Mahaveer University Moradabad, UP

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Organizing Team:

1. Prof. (Dr.) Rakesh Kumar Dwivedi (Principal & Director, FoECS)- Key Note Speaker & Moderator
2. Mr. Mohd Saleem (Coordinator –I)
3. Mr. Navneet Vishnoi-II (Coordinator –II)
4. Dr. Sandeep Verma
5. Dr. Sonia Jayant
6. Dr. Zarin Farooq
7. Mrs. Inderjeet Jheetay
8. Ms. Neha Anand
9. Ms. Indu Tripathi
10. Mr. Siddharth Mathur
11. Dr R C Tripathi
12. Mr. Ajay Chakarvarty

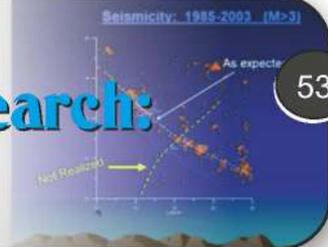


INTERNATIONAL WEBINAR on

**General mathematical tools in research:
Theory and Applications**

Programming

- Set $k=1$.
- While ($k \leq n$) do step 2.
- Calculate $F(x)$ and $J(x)$.
- Solve the $n \times n$ linear system $J(x)y = -F(x)$.
- Set $x = x + y$.
- If $\|y\| < \text{TOL}$, then OUTPUT (x), STOP.
- Set $k = k + 1$.
- OUTPUT.



Organised by- Department of Mathematics. FOE & CS from 15 to 17 June, 2020

Department of Mathematics, FoE & CS organised three days international webinar on "General Mathematical tools in research: theory and applications". The main attraction of webinar were, magnificent and enormously good academicians like Prof. Raghuvir Singh (Officiation VC TMU) Prof R.K. Dwivedi Principal and Director FoE & CS, Prof K.C. deshmkh from Nagpur University, Dr. Abhimanyu (IIT BHU) ,Dr. Vijay Patel (IIT Kanpur), Dr.Purnendu Mishra rom Poland, research scientist Dr. Sundeep Chabak(wadia Institute Dehradun), Dr. Mudita Juneja (ECE Dept. FoE). These eminent academicians delivered their talk on various topics like Mathematical modelling, Goe Science, Thermoelastic Problems,Statistical tools and LaTeX. over 300 participants were joined in this webinar.

Chief Patrons		Patrons	
			
Shri Suresh Jain Hon'ble Chancellor TMU	Shri Manish Jain Group Vice chairman TMU	Prof. Raghuvir Singh Officiating Vice Chancellor	Prof. R. K. Dwivedi Director and Principal FoE & CS, TMU

Our Keynote Speakers :				
				
Dr. S. K. Chabak Research Scientist Geophysics Wadia Institute of Himalayan Geology Dehradun India	Dr. P. Mishra Postdoctoral Fellow AMM, University of Warsaw, Poland	Prof. K.C. Deshmukh Dept of Mathematics R.T.M. Nagpur University, Nagpur	Dr. V. K. Patel Postdoctoral fellow Department of Mathematics & Statistics, IIT Kanpur.	Dr. Abhimanyu Singh Yadav Assistant Professor Dept. of Statistics BHU Varanasi

Organizing Team			
Convener		Co-convener	
Dr. Alok Kumar Gahlot Department of Mathematics		Dr. Ajit Kumar (HOD) Department of Mathematics	
Coordinator		Organizing Secretary	
Dr. Gopal Kumar Gupta Department of Mathematics		Dr. Laxmi Kant Tiwari Dr. Vipin Kumar Dr. Kamesh Kumar	
		Dr. Abhinav Saxena Mr. Ashok Kr Siddhu	

Three days International Webinar on

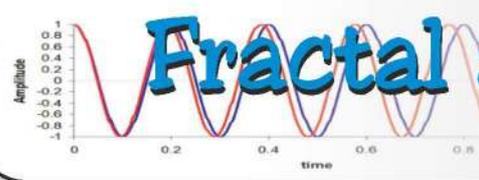
"General Mathematical Tools in Research: Theory and Applications"

June 15-17, 2020 Time: 2:00 - 5:00 PM

Organized by
Department of Mathematics, FoE & CS
Teerthanker Mahaveer University
Moradabad UP, INDIA.



5.2 Hz

$$\sum x(t) \cdot \cos(2\pi ft) = 77.6$$


Expert Talk on

Fractal and its application

By Prof. Rashmi Bhardwaj



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Organised by- Department of Mathematics. FOE & CS from 09 October, 2020

Department of Mathematics organized one day expert talk on “Fractal and its application” on the 12th day of orientation program for new entrants on 9th October, 2020. The aim of the program was to familiarize our new entrants with importance and application of Mathematics for their future career in the era of innovation and competition. Ms. Neha Anand introduced the speaker, **Prof. (Dr.) Rashmi Bhardwaj** and invited her for her key note address on “Fractal and its application”.

Prof. R. K Dwivedi, Director & Principal of FOECS, (TMU) delivered his address in valedictory session. Prof Dwivedi showed his gratitude to eminent speaker **Prof. (Dr.) Rashmi Bhardwaj** for her valuable talk. Prof. Dwivedi said that the purpose of this program is to provide an opportunity for everyone to know in detail about various aspects of Mathematics and its applications. He admired the efforts of department of Mathematics coordinated by Dr. Ajit Kumar (Associate Professor of Mathematics, HoD, Department of Mathematics, FOECS) for effective execution and dedicatedly handled.



Chief Patrons



Shri Suresh Jain
Hon'ble Chancellor
TMU



Shri Manish Jain
Group Vice chairman
TMU

Patrons



Prof. Raghveer Singh
Vice Chancellor
TMU



Prof. R. K. Dwivedi
Director and Principal
FoE & CS,
TMU

Our Keynote Speaker



Prof. (Dr.) Rashmi Bhardwaj
School of Basic & Applied
Sciences, GGS
Indraprastha University,
New Delhi

Talk on :
**Fractals and its
Applications**



Day-12th

Orientation Program & Bridge Courses For New Entrants

Oct 09, 2020 Time: 2:00 - 3:00 PM



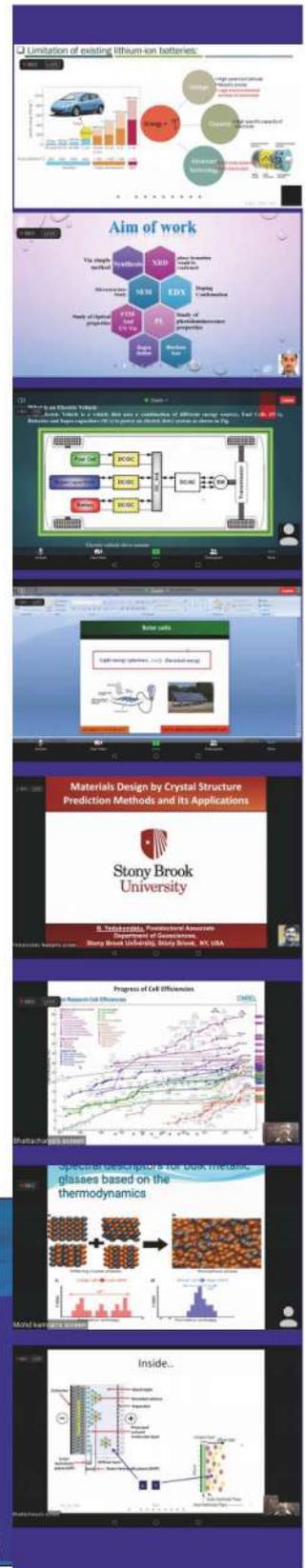
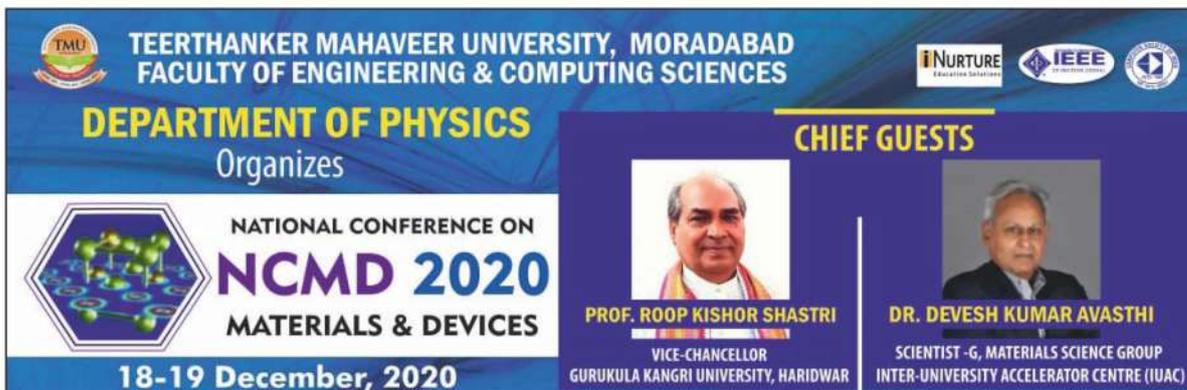
**NATIONAL CONFERENCE ON
NCMD 2020
MATERIALS & DEVICES**

Organised by- Department of Physics, FOE & CS from 18 - 19 October, 2020

DAY 2

- Key-Note speaker **Prof. Neelam Srivastava** started her lecture. She explained the transport mechanism of charge carriers with a certain formula called power law.
- **Conference Sessions : (Session-3 & 4)**
- Professors **Dr. Amit Saxena** from *'Shri Vaishnav Institute of Science, SVVV, Indore* and **Dr. Asim Ahmad** Teerthanker Mahaveer University, Moradabad have chaired the Session-1 and Session-2 respectively and conducted the conference smoothly.
- Key-Note speaker **Prof. Neelam Srivastava** started her lecture. She explained the transport mechanism of charge carriers with a certain formula called power law.
- Plenary speaker **Prof. U. P. Singh** from KIIT, Bhubneshwar, described thin film solar cell technology, its present status and future materials to meet the need of energy for every mankind.
- There were **09 Invited Talks** on day-2 under session-3 & 4. All invited speakers shared their views on different materials like Solar Cell, Crystal structures, fuel cells, batteries, super capacitors, nano materials, DSSC.
- **Dr. Rajeev Sehrawat** from MM University, Mullana, Ambala presented his work explaining about the electrode formation technique to prepare the advanced non-corrosive materials for fuel cells.
- **Prof. N. B. Singh**, from Sharda University, Greater Noida demonstrated the general features and properties of nano materials and their applications

23 research students participated for oral presentation but due to some reason only 13 presented their papers in the conference.

**TEERTHANKER MAHAVEER UNIVERSITY, MORADABAD
FACULTY OF ENGINEERING & COMPUTING SCIENCES**

DEPARTMENT OF PHYSICS
Organizes

**NATIONAL CONFERENCE ON
NCMD 2020
MATERIALS & DEVICES**
18-19 December, 2020

CHIEF GUESTS

PROF. ROOP KISHOR SHASTRI
VICE-CHANCELLOR
GURUKULA KANGRI UNIVERSITY, HARIDWAR

DR. DEVESH KUMAR AVASTHI
SCIENTIST -G, MATERIALS SCIENCE GROUP
INTER-UNIVERSITY ACCELERATOR CENTRE (IUAC)

