



Editorial Board

Advisor: -

Prof. (Dr.) K.K. Dwivedi

Chief editor: -

Prof. Rashmi Kaushik

Editors: -

Dr. Adarsh Sachdeva

Dr. Yogdhar Pandey

Dr. Ramakant Sahu

Dr. Aprajita Goutam

Prof. Nadish Pandey

Prof. Aditya Singh Mandloi

Prof. Pankaj Pandey

Vision

To become a “Centre of Excellence” for quality education in the field of engineering, research and management so as to produce globally competent and socially responsible professionals, who can contribute to technological and socio-economic development of the nation as a whole and region in particular.

Mission

- M.1: To educate students with deep professional knowledge through innovative teaching-learning process and to make them aware of cutting-edge technology so as to become capable of understanding and addressing the issues of society, state and the country.
- M.2: To create in- house facilities for research and innovation to provide solution to the industrial problems.
- M.3: To inculcate right human values and professional ethics, leadership qualities, communication and entrepreneurship skills in students to meet the need of society.

About Us

Technocrats Institute of Technology (Excellence) in Bhopal, Madhya Pradesh is a premier educational institution that has been imparting quality and value-based education for the past 16 years. Our vision is to establish ourselves as a center of excellence in engineering education in India, with global standards. Our institute is affiliated with Rajiv Gandhi Proudyogiki Vishwavidyalay, Bhopal for its engineering and management program ensuring that our students receive an education that is recognized nationwide. We are located in Anand Nagar on Raisen Road in Bhopal, which makes us easily accessible and convenient for students from all over central India. Our dedicated faculty and staff ensure that our students receive the best education, and we provide them with state-of-the-art facilities and resources that are essential for their academic and personal growth. We also encourage our students to participate in extracurricular activities and provide them with opportunities to develop their skills and talents. At Technocrats Institute of Technology (Excellence), we are committed to shaping the future of our students by providing them with a world-class education that is grounded in values and ethics.



Institutional Achievements

Tie-Up with Oracle

Technocrats Institute of Technology (Excellence) has achieved a significant milestone by establishing an Innovation Centre and Industry Tie-Up with Oracle.

The Innovation Centre provides organizations with the opportunity to experiment, learn, and stay at the forefront of technology. Partnering with Oracle is a testament to the Technocrats Institute of Technology (excellence) commitment to promoting innovation and technological advancement in the industry.

The institution looks forward to leveraging its partnership with Oracle to drive innovation and growth in the industry. The achievement is a proud moment for the Technocrats Institute of Technology (Excellence) and reflects its dedication to providing its students with the best possible education and opportunities to succeed.



Tie-Up with AWS



The Technocrats Institute of Technology (Excellence) has achieved a significant milestone by establishing an AWS Innovation Centre and Industry Tie-Up.

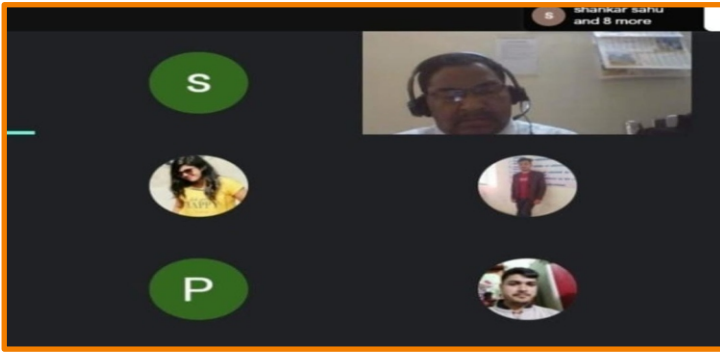
Partnering with AWS is a testament to the institution's commitment to promoting innovation and technological advancement in the industry.

The AWS Innovation Centre provides students and faculty members with access to cutting-edge cloud computing technologies and resources, fostering an environment of learning and growth. AWS offers reliable, scalable, and cost-effective cloud computing services to businesses of all sizes, providing an excellent opportunity for the Technocrats Institute of Technology (Excellence) to enhance its educational offerings.

The achievement is a proud moment for the Technocrats Institute of Technology (Excellence) and demonstrates its dedication to providing its students with the best possible education and opportunities to succeed in a rapidly evolving technological landscape.

Institutional Programs

International Conference

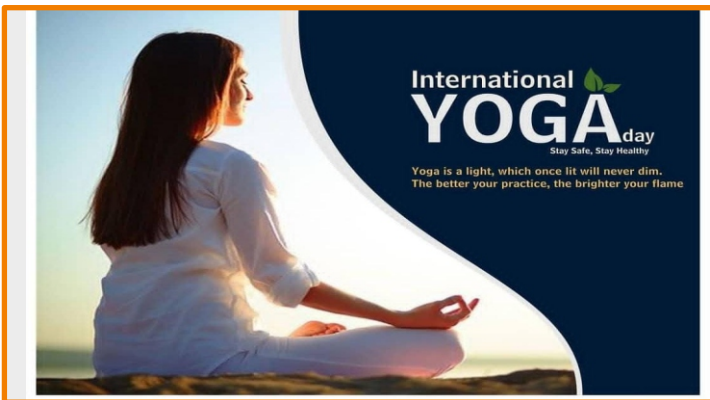


Technocrats Institute of Technology (Excellence) successfully hosted a two-day International Conference on Recent Advancements and Innovations in Civil Engineering (RAICE 20-21) on 9th March 2021.

The event was an excellent opportunity for future engineers to gain knowledge and experience in the field of civil engineering. They were able to learn from the experts and gain valuable insights into the latest developments in the industry.

Overall, the RAICE 20-21 conference was a great success, and the Technocrats group of excellence looks forward to hosting similar events in the future.

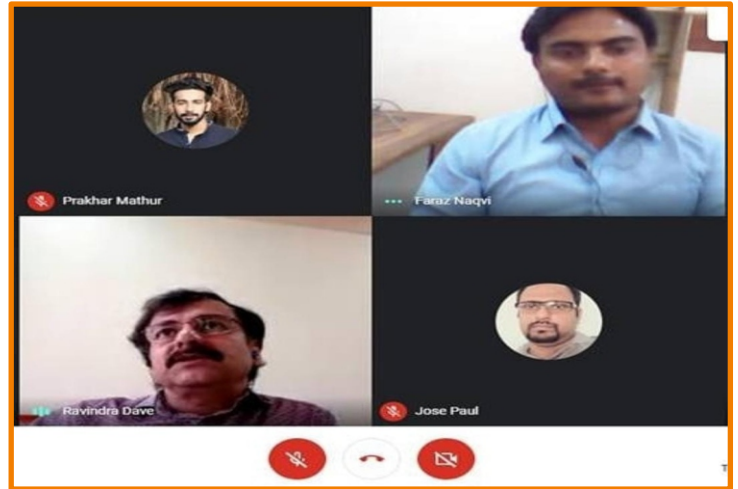
International Yoga Day



In honor of International Yoga Day, Technocrats Institute of Technology (Excellence) extends warm wishes to all. As we celebrate this special day, it is important to recognize the value of practicing yoga daily, not just for physical fitness, but also for mental well-being.

Yoga is more than just a form of exercise - it is a way of life. Through yoga, we can awaken our minds and create a life filled with more love and beauty. It is a holistic approach to wellness that can bring balance and harmony to our lives.

Virtual Alumni Meet



The Technocrats Institute of Technology (Excellence) recently had the privilege of hosting a virtual alumni meet on the 6th of March 2021. It was an important day for the institution as it provided a platform for alumni to connect and engage with their alma mater.

The group expressed their deep gratitude to all the alumni who took the time out of their busy schedules to participate in the event. It was a heartwarming experience for everyone involved and the alumni were reminded of the special bond they share with their former institution.

The Technocrats Institute of Technology (Excellence) takes pride in its alumni and the contributions they have made to society. The institution recognizes the achievements of its alumni and wishes them success in all their endeavors.

Through this virtual meet, the Technocrats Institute of Technology(excellence) reaffirmed its commitment to staying connected with its alumni community and providing them with opportunities to grow and flourish in their personal and professional lives.

Department of Computer Science & Engineering

Vision of the Department

To produce technically and ethically competent, socially responsible and innovative Computer Science & Engineering professionals through quality education, who can contribute to techno and socio-economic development of the nation as a whole and region.

Mission of the Department

- M1: To create an academic ambience for achieving academic excellence by imparting in depth. Domain knowledge to the students through effective teaching learning, conceptual and practical exposure with the latest tools and technologies.
- M2: To provide an environment & opportunity for students to utilize their potential and technical skills required for overall development through collaborative and professional development activities.
- M3: To inculcate innovative research skills, promote professional ethics & entrepreneurship skills amongst the students to cater to the needs of Society.

Program Educational Objectives (PEOs)

- PEO1: Graduate will become an established professional in the field of Computer Science & Engineering and related fields.
- PEO2: Graduates will acquire a well-built foundation to pursue higher studies and research.
- PEO3: Graduates will be able to inculcate effective communication skills, teamwork, ethics and leadership skills required to become an innovative and successful entrepreneur.

Program Specific Outcomes (PSOs)

- PSO1: Graduate will develop ability to design and develop computer-based applications of moderate complexity in the areas of database system, web technology and machine learning.
- PSO2: Graduates will be able to apply standard software project management practices and methods to deliver quality projects.
- PSO3: Graduates will be able to analyze and develop cost effective algorithms for real time engineering/social applications.



The Skill Build Program

It was a collaboration between IBM and various organizations like #SmartGaon and #Reacha to provide training and upskilling opportunities to individuals. The program offers various courses and certifications in the field of technology to help individuals enhance their skills and improve employability. The placement scenario for those who complete the program is quite promising, with many participants landing jobs in reputed organizations. This session will provide valuable insights into the program, its benefits, and the opportunities it offers. Join us for an informative discussion on how the "Skills Build Program" can help college students and graduates in building a successful career.

Trends in IT Technologies

It was organized by Dushyant Jain, who is a Solution Architect at TCS in Massachusetts, USA. The session will cover the latest trends in the IT industry, including emerging technologies like Artificial Intelligence, Machine Learning, and Blockchain. Dushyant Jain had shared his valuable experience and expertise in the field of IT and provide insights into how these technologies are transforming various industries. The session also discussed the potential career opportunities available in the IT industry and how students can prepare themselves for these opportunities.

Webinar On Campus 2 Cognizant

Technocrats Institute of Technology (Excellence) organized a webinar by Naresh Kumar, who is the Chief Architect- Technology RCGTH-Tech & Arch. The session has covered Cognizant's recruitment initiative that aims to hire top talent from college campuses. Naresh Kumar had shared insights into the program and provide valuable tips on how students can prepare themselves for the recruitment process. The session also discussed the potential career opportunities available at Cognizant and how the company is transforming the IT industry.

Webinar On Technical Issues

Technocrats Institute of Technology (Excellence) organized a webinar by Muneer Khan, who is the Software Testing QA Lead at S&P Global in Hyderabad. The session covered various technical issues that software testers and quality assurance professionals face in their day-to-day work. Muneer Khan had shared his expertise and provide insights into how to identify, troubleshoot, and resolve technical issues efficiently. The session also covered the latest testing tools and techniques used in the industry to ensure the quality of software applications.

Department of Mechanical Engineering

Vision of the Department

To become a center of excellence in the field of Mechanical Engineering by enabling students to attain domain knowledge, lifelong learning skills and ethical values to serve the nation.

Mission of the Department

- M1: To create an academic ambience through competent faculty and encouraging multidisciplinary interaction.
- M2: To establish state of the art infrastructure facilities that will pave the dissemination of technical knowledge in the field of Mechanical Engineering.
- M3: Exposing students to new tools and technologies of Mechanical Engineering.
- M4: Providing an environment to actively participate in enhancing problem solving and leadership qualities and team spirit.

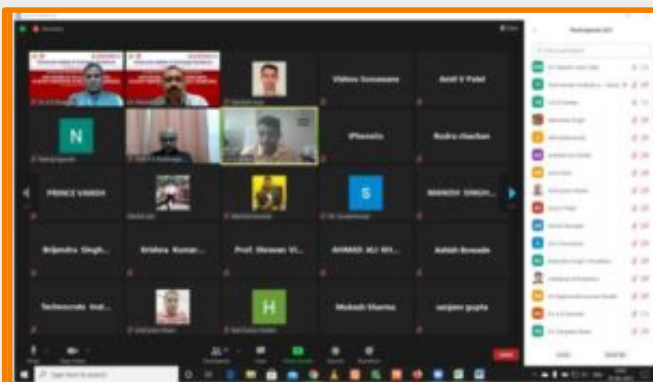
Program Educational Objectives (PEOs)

- PEO 1: Graduates will become an established professional in the field of Mechanical Engineering and related fields with sound ethical values.
- PEO 2: Graduates will demonstrate all necessary engineering and scientific competence to become an entrepreneur in the field of Mechanical Engineering and allied fields considering social and environmental issues.
- PEO 3: Graduates will possess a solid foundation in the field of Mechanical Engineering to be applied in their higher studies and researches.

Program Specific Outcomes (PSOs)

- PSO1: Graduates will be able to apply knowledge of Mechanical Engineering for analyzing and designing projects in the fields of Thermal, Industrial and Production engineering.
- PSO2: - Graduate will design and develop Mechanical Engineering projects concerning environment, energy conservation and safety.
- PSO3: Graduates will be able to plan and execute Mechanical Engineering projects applying relevant codes of practice materials and techniques.

Teachers Training Program



Blood Donation Camp



Department of Electronics & Communication Engineering

Vision of the Department

To become a “center of excellence” in the field of Electronics and Communication Engineering by transforming the students into competent professionals with high ethical values and fulfilling societal needs.

Mission of the Department

- M.1: To create an academic ambience for achieving academic excellence and producing competent graduates through effective teaching learning process.
- M.2: To provide exposure of modern tools and cutting-edge technologies in the field of Electronics and Communication Engineering.
- M.3: To develop adequate and appropriate facilities and provide an environment to stimulate multidisciplinary interaction.
- M.4: To enhance employability by inculcating problem-solving abilities, team spirit, leadership qualities and professional ethics.

Program Educational Objectives (PEOs)

- PEO 1: Graduates will become established professionals in the field of Electronics and Communication Engineering, software development and other related fields, who are adaptable in any environment and can practice the ethics of their professions, consistent with a sense of social responsibility.
- PEO 2: Graduates will possess all necessary engineering and scientific competence to become an innovative entrepreneur in the fields related to Electronics and Communication Engineering and allied disciplines, with due consideration to social and environmental issues.
- PEO 3: Graduates will continue to develop professionally through lifelong learning, higher studies and research expertise in multidisciplinary areas to meet the expectations of their organization and society.

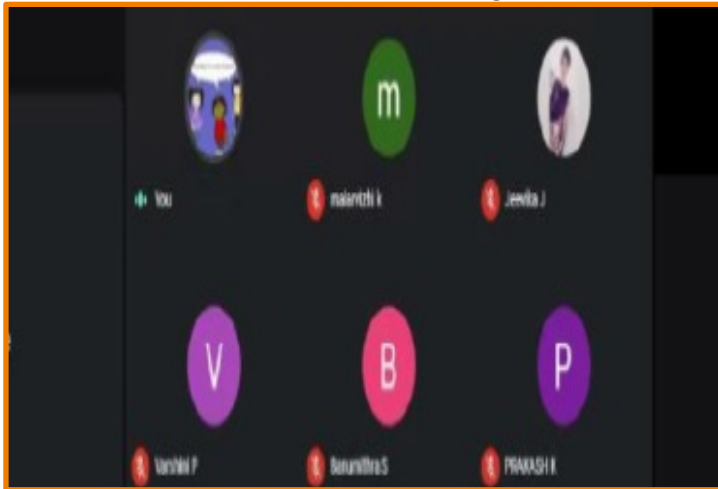
Program Specific Outcomes (PSOs)

- PSO1: Graduates will be able to solve complex engineering problems and propose solution in the field of electronics and signal processing as per industry requirement.
- PSO2: Graduates will be able to design and develop solutions for the realistic problems of society using VLSI and embedded systems.
- PSO3: Graduates will adapt modern tools and technology to develop wireless communication projects in context of societal need and environment issues.



The World of Microcontroller

Technocrats Institute of Technology (Excellence) invites BTECH ECE students and faculty to an exciting webinar that explores the world of Arduino Microcontroller and its diverse industrial applications. This session will showcase the potential of this technology in revolutionizing the way industries function. Learn how Arduino Microcontroller is changing the game for automation, robotics, and more. Join us for an informative and engaging discussion on the benefits of using Arduino in various industrial sectors. Don't miss out on this opportunity to gain valuable insights and expand your knowledge in the field of electronics and communication. Register now and be



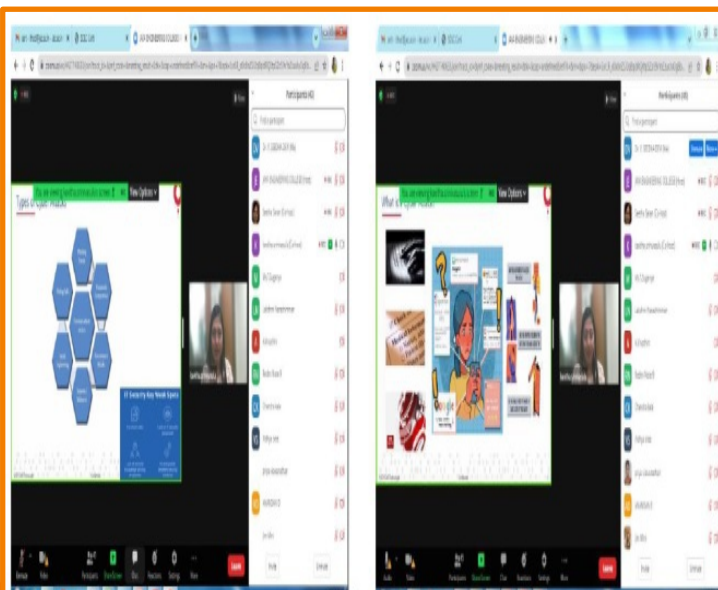
Webinar On Personality Development



Technocrats Institute of Technology (Excellence) presents an upcoming online webinar on Personality Development, exclusively for BTECH ECE students and faculty. This webinar will focus on developing essential skills like communication, leadership, and time management. Learn the importance of self-awareness, positive thinking, and effective goal-setting in shaping your personality. This session will be led by an experienced personality development trainer who will share practical tips and strategies for personal growth.

Expert Lecture on 5G Technology

The Women's Empowerment and safety



Department of Electrical Engineering

Vision of the Department

To impart quality education in various fields of engineering, technology & management and to develop the institute into a center of academic excellence.

Mission of the Department

To mold the students into competent technocrats to become professionally skilled, intellectually adept and socially responsible, to contribute to society through quality teaching and providing the conducive learning environment.

Program Educational Objectives (PEOs)

- PEO 1: Graduates will become established professionals in the field of Electrical & Electronics Engineering and related fields with sound ethical values.
- PEO 2: Graduates will demonstrate all necessary engineering and scientific competence to become an entrepreneur in the field of Electrical & Electronics Engineering and allied fields considering social and environmental issues.
- PEO 3: Graduates will possess a solid foundation in the field of Electrical & Electronics Engineering to be applied in their higher studies and research.

Program Specific Outcomes (PSOs)

- PSO 1: Graduates will show ability to analyze, design, and implement electrical machines, power electronics, instrumentation, control systems for the overall electrical power system.
- PSO 2: Graduates will show the ability to apply appropriate techniques and modern engineering hardware and software tools in power systems and power electronics in the field of Electrical & Electronics Engineering.
- PSO 3: Graduates will show ability to comprehend technological advancements and the impact of electrical engineering solutions in societal and environmental context.



Department of Civil Engineering

Vision of the Department

To become a centre of excellence in the field of Civil Engineering by enabling students to attain domain knowledge, lifelong learning skills and ethical values to serve the nation.

Mission of the Department

- M1: To create an academic ambience through competent faculty and encouraging multidisciplinary interaction.
- M2: To establish state of the art infrastructure facilities that will pave the dissemination of technical knowledge in the field of Civil engineering.
- M3: Exposing students to new tools and technologies of Civil engineering.
- M4: Providing an environment to actively participate in enhancing problem solving and leadership qualities and team spirit.

Program Educational Objectives (PEOs)

- PEO1: Graduates will become an established professional in the field of Civil engineering and related fields with sound ethical values.
- PEO2: Graduates will demonstrate all necessary engineering and scientific competence to become an engineer in the field of Civil engineering and allied fields considering social and environmental issues.
- PEO3: Graduates will possess solid foundation in the field of Civil engineering to be applied in their higher studies and research.

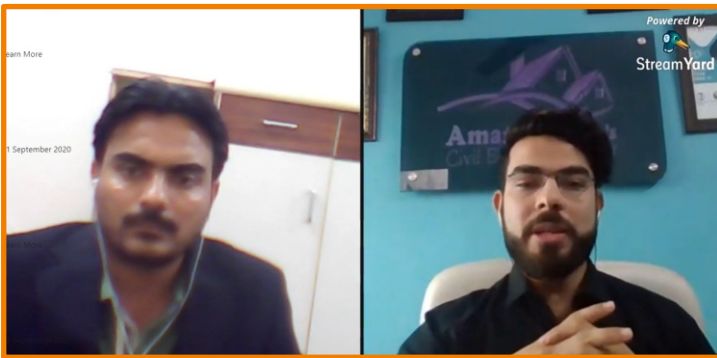
Program Specific Outcomes (PSOs)

- PSO1. Graduates will be able to apply knowledge of civil engineering for analyzing and designing projects in the field of Structures, Hydraulics and Irrigation engineering
- PSO2. Graduates will design and develop civil engineering projects concerning environment, ecology, energy conservation and safety.
- PSO3. Graduates will be able to plan and execute civil engineering projects applying relevant codes of practice for materials and techniques.



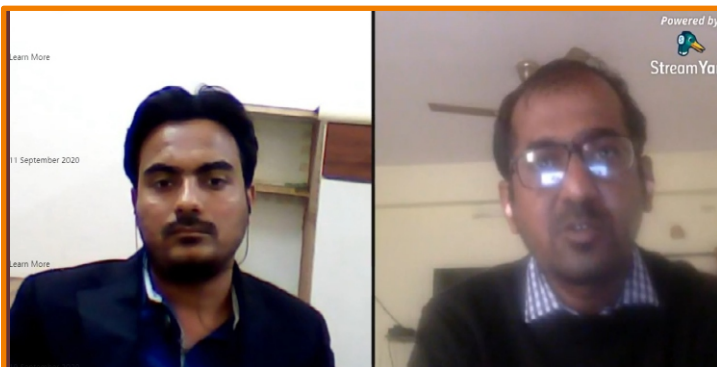
Technical Skills with Social Consciousness

Technocrats Institute of Technology (Excellence) organized a webinar on civil engineering and social work featuring Rtr Er. Aman Khan. The speaker highlighted the importance of combining technical skills with social consciousness to tackle societal issues. He emphasized how civil engineers can play a vital role in creating infrastructure that is accessible and inclusive for all. He also discussed various community development projects he has worked on and how they have positively impacted local communities. The webinar provided an excellent opportunity for students to learn about the practical application of civil engineering in the context of social work. Overall, it was an informative and inspiring event that encouraged students to consider the social implications of their future work in the field.

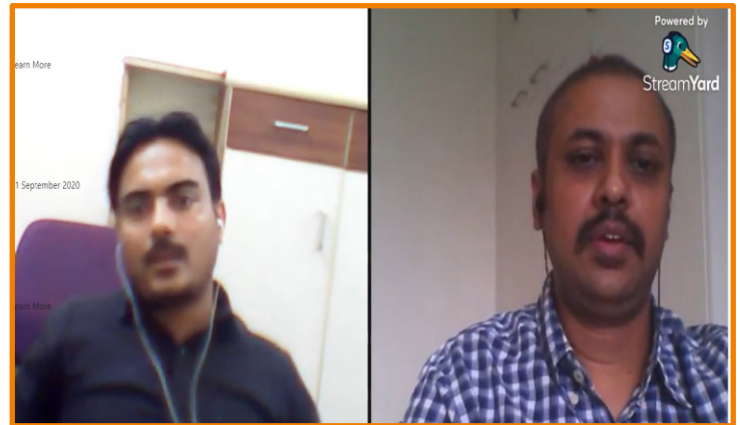


Webinar on Community Development

A webinar was conducted by Rahul Agrawal. He highlighted the importance of incorporating social awareness in civil engineering practices to address social issues. Rahul also spoke about his experience working on community development projects and how they positively impacted the lives of people. The webinar was an excellent platform for students to learn about the practical application of civil engineering in social work. The talk inspired students to explore ways to use their technical skills for social good.



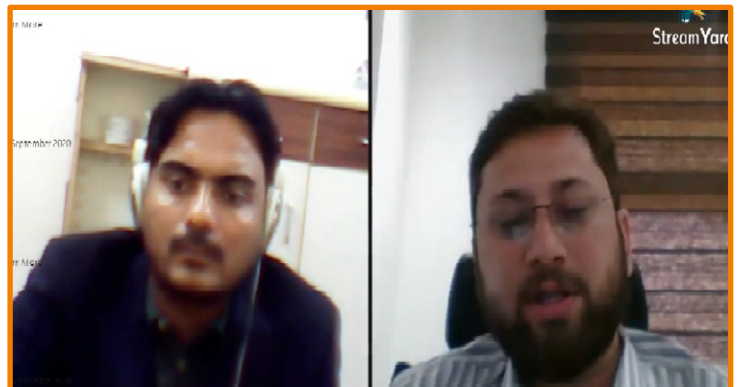
Webinar On Developing Infrastructure



Kunal delivered a webinar discussing on the civil engineering and social work. He emphasized the need for engineers to address social issues by applying technical skills with social awareness. Kunal shared his experiences of working on community projects and highlighted the benefits of developing infrastructure that is inclusive and accessible for all.

Webinar on Impactful Society

Syed Faraz Hussain delivered a webinar on the civil engineering and social work. He highlighted the significance of engineers' role in addressing social challenges with technical expertise and social sensitivity. Syed discussed his experience working on various community development projects and how they impacted society positively. The webinar was an excellent learning opportunity for students to understand the practical application of civil engineering in social work. Syed's talk encouraged students to think about ways to use their skills for the betterment of society.



Heartfelt Tribute

It is with heavy hearts that we share the news of the passing of **Lt. Prof. Sandeep Mishra**, beloved member of our Institute who lost his battle with COVID-19 during the pandemic in April 2021.

Your loss is a tragedy, and our hearts go out to family and loved ones. We are grateful for the time we had with you and your memories left behind.

We will always remember your unwavering dedication as well as your contributions to our college community. Please accept our heartfelt condolences and may your soul Rest In Peace.



Lt. Prof. Sandeep Mishra
Department of Mechanical Engineering

Program Outcomes

- **PO 1** Engineering Knowledge
- **PO 2** Problem Analysis
- **PO 3** Design/Development of Solutions
- **PO 4** Conduct Investigations of Complex Problems
- **PO 5** Modern Tool Usage
- **PO 6** The Engineer and Society
- **PO 7** Environment and Sustainability
- **PO 8** Ethics
- **PO 9** Individual and Team Work
- **PO 10** Communication
- **PO 11** Project Management and Finance
- **PO 12** Life-long Learning.

Correspondence Address :
Director

Technocrats Institute of Technology (Excellence)

Opp. Hathaikheda Dam, BHEL, Anand Nagar, Bhopal - 462021. Phone : 0755-2685977

Contact us at : director_tit@titbhopal.net website: www.titexcellence.net