Technocrats Institute of Technology (Excellence), Bhopal

BI-ANNUAL NEWSLETTER

Newsletter

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.

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.

Technology is a word that describes something that doesn't work yet

Students' Engagement

Youth Festival

Aman diwivedi shines as the brightest star, clinching the top spot at the state-level youth festival and leaving everyone mesmerized with their exceptional talent and skills

Music Competition

Breaking all the records and stealing the show, Aneshwari Rao emerges as the ultimate champion of the music competition with their breathtaking performance

ROHAN SAINI

Secured **4 Star** in CPP Programming at International online coding competition- **HackerRank**

NIKITA JOSHI

Offered an Internship by **Amazon WoW Coding Challenge** with a stipend of **Rs. 80k per month**

GOPAL ANAND

Secured **158th rank** in International Salesforce Contest- **AWS Deep Racer Students League- 2022**

ASHOK KUMAR

Secured **4286th rank** in **Google Kick Start**, an online global coding competition

PRINCE KUMAR

Secured **4448th rank** in Google **Kick Start**, an online global coding competition

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.
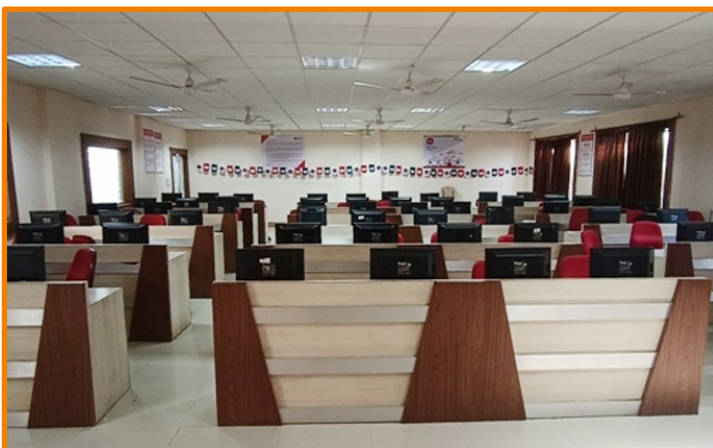
Mission of the Department

- 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.

Department of Computer Science & Engineering

Shubharambh-2k22

We are delighted to share that the second-year students of Technocrats Institute of Technology (Excellence) celebrated 'Shubharambh-2k22' with enthusiasm and happiness. This event was organized for the first-year students, and the members of the Student Activity Council (SAC) took an oath for their duties and responsibilities after receiving badges from the Directors of the TIT Group.
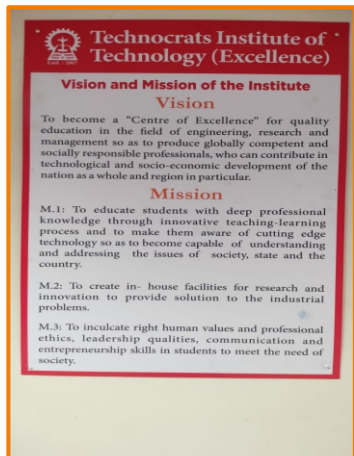
We appreciate the hard work of our students and SAC members, and we look forward to organizing more such events to bring our student

Interaction Session

We are pleased to announce that Technocrats institute of technology (Excellence), Bhopal's Department of Computer Science and Engineering recently conducted a session for the first-year CSE students. The session was focused on discussing the institute's vision, mission, and PEO's and PO's of the department.

In addition, we organized an industrial visit for the 3rd-semester students of ME. The visit was a great learning experience for the students and provided them with practical knowledge and industry exposure.
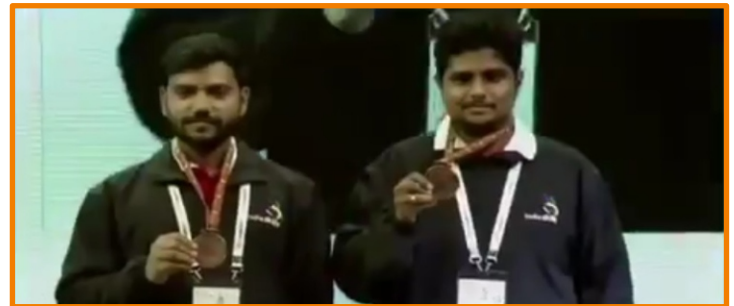

India Skills National Competition

We are proud to share that Technocrats Institute of Technology (Excellence), Bhopal, would like to congratulate Avishek Kumar, Anand for winning a Bronze Medal in the India Skills National Competition. This competition, also known as the Olympic of Skills, was held from 6th to 10th January 2022 at Pragati Maidan, New Delhi, and was organized by the National Skill Development Corporation (NSDC).

Avishek's hard work and dedication have earned him the opportunity to represent India at the WorldSkills Competition-2022 in Shanghai, China.

We extend our warmest congratulations to Avishek and wish him the very best for his future endeavors.

National Youth Day

We are delighted to announce that Technocrats Institute of Technology (Excellence), Bhopal, celebrated National Youth Day on 12th January 2022 to mark the birth anniversary of Swami Vivekananda. This day is celebrated every year as National Youth Day or Yuva Diwas to inspire and motivate the youth to lead the nation towards prosperity by following Swami Vivekananda's teachings.

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.

Department of Mechanical Engineering

Makar Sankranti

We are thrilled to share with you the glimpse of our Makar Sankranti 2022 celebrations at Technocrats institute of technology (Excellence), Bhopal. We organized a Kite Flying Competition on this occasion to mark one of the major festivals celebrated with great fervor in India.

Makar Sankranti holds great significance for Hindus, and we aimed to bring joy and happiness to our students through this event. The competition saw enthusiastic participation from our students, and we were amazed by their kite-flying skills.

Industrial Visit

Technocrats Institute of Technology (Excellence), Bhopal organized a session for the first-year CSE students to discuss the institute's vision, mission, PEOs and POs. The Department of Mechanical Engineering also arranged an industrial visit to the Railway Coach Factory in Nishatpura, Bhopal for the third-semester students. The visit was led by technical experts, and the students had the opportunity to explore various sections, including Body Shop, Finishing Shop, Carpentry Shop, Final Shop, Boige Shop, and LHB Shop, gaining practical knowledge in the field of mechanical engineering.

Webinar on "JD to JOB"

LIVE session on "JD to JOB" with Mr. H Imtiaz, HR Operations, American Technology Consulting, LLC. Join us on 10 February 2022 at 3:00 PM to gain valuable insights.

Industrial Visit at CRISP

Technocrats Institute of Technology (Excellence), Bhopal organized an industrial visit for ME 3rd semester students at CRISP, Bhopal to gain practical knowledge in the field of Mechanical Engineering. Students visited three sections: Hydraulics and Pneumatics Laboratory, Volkswagen Authorized Training Centre, and Mechanical Workshop CNC Centre/AutoCAD Centre.

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.
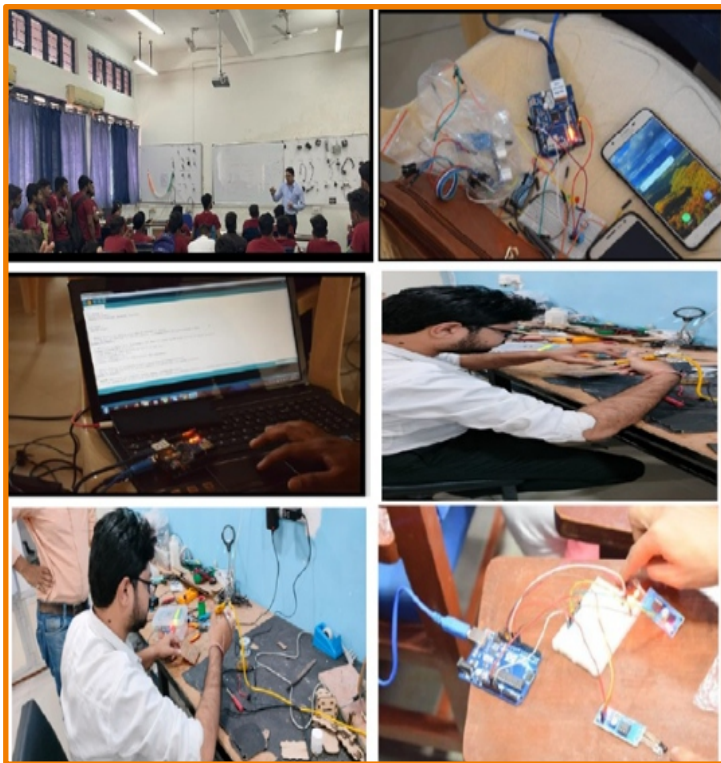
Patents

- Dr. Archana Sharma and Prof. Saima Khan published a Patent with application number 202221002366 on Artificial Intelligence and Machine Learning Approaches for forecasting and prediction of Covid-19 pandemic on 11th of February 2022.
- Dr. Divya Jain published a patent with application number 202241005492A on Mechanical system with IR sensor based circuit to generate electricity on 11th of February 2022.

Department of Electronics & Communication Engineering

Workshop On Robotics Design

Workshop on "Robotics design using Arduino and IOT" in association with IETE New Delhi on 11th March 2022 to 12th March 2022. The resource person for this workshop was Mr. Anuj Nema, CTO, Autoboat Robotics, Bhopal.
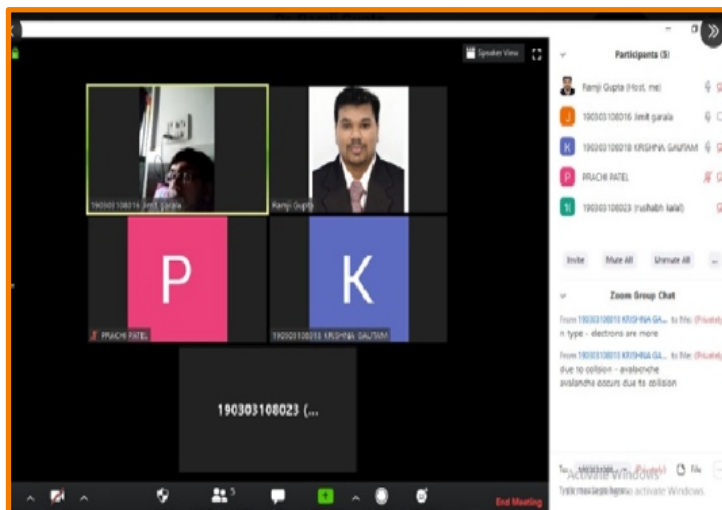

Seminar on Artificial Intelligence

Seminar on " Artificial Intelligence in Embedded system and their applications" on Date-02th April- 2022. The resource person for this Seminar was Dr. Ram Ji Gupta, Asso. Prof. ECE Dept, Parul University Vadodara, Gujarat. on Date-02th April- 2022

Workshop on Mobile Communication

Expert lecture on "Recent development in Mobile Communication and its Radiation effect" on date 30th July 2022 in association with IETE New Delhi. The resource person for this lecture is Mr.Y.S. Sisodiya GM, BSNL Bhopal.

Expert lecture "Applications of Microwave in Medicine"

Expert lecture "Applications of Microwave in Medicine" at department of ECE in association with IETE New Delhi on 26th April 2022

Department of Civil Engineering

Vision of the Department

To develop technically competent and socially responsible Civil Engineering professionals with up-to-date knowledge and innovative ideas for contributing in techno and socio-economic development of the country as a whole and region in particular.

Mission of the Department

- M1: To achieve academic excellence in Civil Engineering by imparting in-depth technical knowledge to the students through conceptual and practical exposure on latest tools and technologies

- M2: To provide an environment & opportunity for students to grow and bring out their inherent talents for their overall development through collaborative and professional activities and prepare them for lifelong learning in global perspectives.

- M3: To inculcate professional ethics, right human values and promote good communication and leadership skills in Civil Engineering students for working in interdisciplinary domain with innovative approach to address the needs of the society.

Program Educational Objectives (PEOs)

- PEO 1: Graduate will become an established professional in the field of Civil Engineering and related fields with proven teamwork and leadership records in their workspace and the society.

- PEO 2: Graduate will continue to develop professionally through lifelong learning, higher studies and research expertise in multidisciplinary areas to meet the expectations of their organization and the society.

- PEO 3: Graduate will possess all necessary engineering and scientific competence to become an innovative entrepreneur in the fields related to Civil Engineering and allied disciplines, with due consideration to social and environmental issues.

- PEO 4: Graduate will be able to adapt any environment and practice the ethics of their professions, consistent with a sense of social responsibility.

Program Specific Outcomes (PSOs)

- PSO 1: Graduates will be able to apply the knowledge of analysis and design to cater the infrastructural need of the society in Structural, Hydraulic, Transportation and Irrigation related fields.

- PSO 2: Graduates will be able to execute quality construction work within the stipulated period of time and resources with due consideration of energy conservation and surrounding ecology.

- PSO 3: Graduates will be able to plan and execute civil engineering projects applying relevant codes of practice for materials and techniques.

Departmental Activities

- A Project Management Practices Seminar organised on 22nd April 2022 in guidance of Mr. Naushad Akhtar Project Manager Aman Associate,Singarauli, MP.
- A industrial visit at water treatment plant Nehru Nagar in guidance of (HOD)CE,TIT(E) on 12th April 2022.
- A industrial visit at Kolar Dam Bhopal in guidance of (HOD)CE,TIT(E) on 28th february.
- Expert Lecture Series on Design & Analysis of Tall Structures on 14th and 15th March in guidance of Er Amit Gupta, Site Engineer,Smart City Project, Bhopal.
- A Modern Construction Materials Seminar organised on 8th february 2022 in guidance of Er Mohit Jat,Project Manager,Bansal construction, Bhopal.

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.

Cultural & Sports Events

Sports Activities

Splash 2k22, Cultural and sports award ceremony was organized on 23rd March 2022 in Technocrats institute of technology (Excellence), Bhopal, by Technocrats Finishing Academy. In which various competitions: Face painting, Tattoo drawing, Dance, Singing, Mimicry, Poetry and Hasya Kavita competition were organized and awards for the winners of different cultural and sports competitions: Badminton, Kho-Kho, Table tennis, Volleyball were distributed. Chief guest of the day was Miss Swati, Central India 2013, model, actress & theater artist.

1. Technocrats Badminton Mens And Womens Team Participated In Rgpv Nodal 2022.
2. RGPV Nodal 2022 TIT Badminton Mens And Womens Team.
3. TIT Gold Cup 2o22 Badminton Championship Winner .(singles) 2nd Winner – Kartik Upadhyay -tit E (cse 1st Sem)
4. Technocrats Institute Of Technology (excellence), Bhopal   Is Overwhelmed To Congratulate Ravi Gupta For Winning Gold Medal in The 4x400m Relay Race State Level Championship.

- Session on review of major academic aspects such as vision, mission, PEOs, Pos and its applicability on students and academic courses.

Awarded *"Highest Placements & Best Academics Award"* by Shri Anurag Thakur ji, Hon'ble Minister of Sports, Youth Affairs and Minister of Information and Broadcasting, Govt. of India

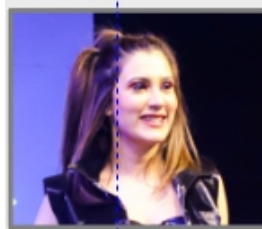Highest Placements & Best Academics in Central India Award- 2022

Celebrity @ Technocrats

Bollywood Diva
Raveena Tandon

Actor & Producer
Arbaaz Khan

Live Concert
Aastha Gil

Famous Indian Rapper Raftaar

Rock & DJ Night With Millind Gaba

Program Outcomes (Pos)

- **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.

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