Newsletter of B.Tech Programmes

Pratिबिम्ब

VIPS

योग: कर्मसु कौशलम्
IN PURSUIT OF PERFECTION

VIVEKANANDA INSTITUTE OF PROFESSIONAL STUDIES - TECHNICAL CAMPUS

Affiliated to GGSIP University,, Approved by AICTE
An ISO 9001:2015 Certified Institution
Grade "A++" Accredited by NAAC
NBA Accredited (MCA), Recognized under Section 2(f) by UGC

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VIVEKANANDA INSTITUTE OF PROFESSIONAL STUDIES - TECHNICAL CAMPUS
SCHOOL OF ENGINEERING & TECHNOLOGY

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75th Independence Day Celebration

15th August, 2022

To commemorate the 75th year of our independence with the festivity of Azadi Ka Amrit Mahotsav, the school initiated a week-long celebration that commenced on 8th August 2022 including various activities like a quiz, notice board decoration, photography, and a poetry competition.

The winners of each event were awarded the first and second positions respectively:

- **Quiz Competition Winners:** Divyanshi (AIDS-B), Vidhi Karnwal (AIML-B), Niharika Nagpal (AIDS-B), and Drishti (AIDS-B)
- **Poetry Competition Winners:** Vaibhav Wadhwa (IIOT), and Drishti (AIDS-B)
- **Photography Competition Winners:** Chaitanya Khurana (IIOT), and Pranav (AIDS-B)

CHAITANYA KHURANA - IIOT

PRANAV AI&DS B

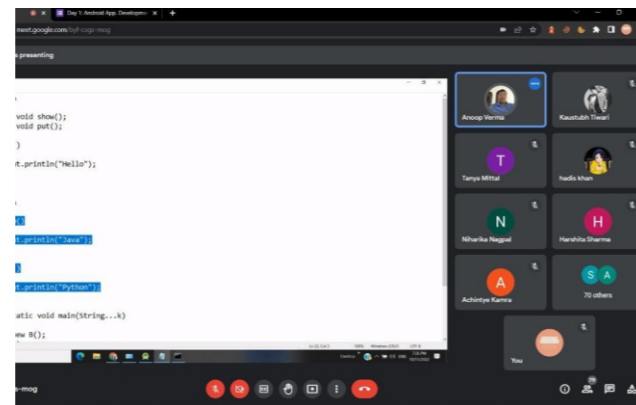**Winning Entries of the Photography Competition**

NCC Cadets with faculty members, Vice- Chairmen and Chairman of VIPS- TC

Proactive Cyber Defense Engineering Using Python by Cybervidyapeeth Foundation with AICTE & CERT.IN

12th September, 2022

An intensive Cyber Engineering Skill Building course for 200 hours on the theme, 'Proactive Cyber Defense Engineering using Python' for engineering students in association with AICTE and Cybervidyapeeth Foundation held at the school. The cybersecurity course started with an introduction of IDEs required to work with languages like Python, Anaconda and VS code. The instructor focussed on concept building for Python programming, introduction to keywords and identifiers, variable and data types, operators etc. Students were able to perform data visualisation using Python libraries, form histograms, correlation matrix, scatter and density plots.
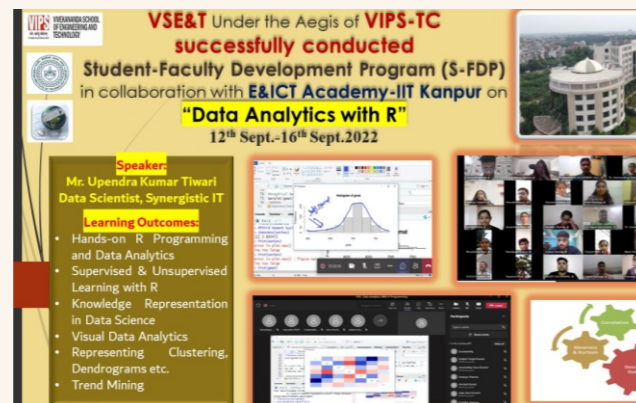
The well-informed session included the cybersecurity of a system and the ability to protect it by performing different cybersecurity techniques like port scanning, password cracking, zip file cracking, reverse shelling etc.

Real-time Decision-Making Course on "Data Analytics using R" for Students & Faculty members by E & ICT Academy, IIT Kanpur.

12th - 16th September, 2022

The Student-Faculty Development Program (SFDP) in collaboration with E&ICT, IIT-Kanpur was organised by the school to enhance the practical approach to learning. The speaker for the event was Mr. Upendra Kumar Tiwari who is currently associated with Synergistic IT, and took the session in an online mode on MS Teams. The insightful knowledge with hands-on experience and real-life data sets using R programming were discussed. Concepts like data mining, dendrogram representation, and cluster analysis, data visualisation were taught in detail along with quantitative and qualitative analysis.

Gandhi Jayanti

4th October, 2022

In memory of the father of our nation, the school organised a poster-making competition titled, 'Abhivyakti: Let Your Art, Speak Your Heart' on the theme "स्वच्छ भारत, स्वस्थ भारत, तकनीक से उन्नत भारत". The students enthusiastically participated in the event and depicted the idea of a better tomorrow, dream India etc. The paintings and sketches were selected based on originality in ideas, creativity and expressions. The winners of the poster-making competition were awarded the first and second positions respectively; Simran Khanna (AIDS- B) and Navneet Singh (AIML- B).
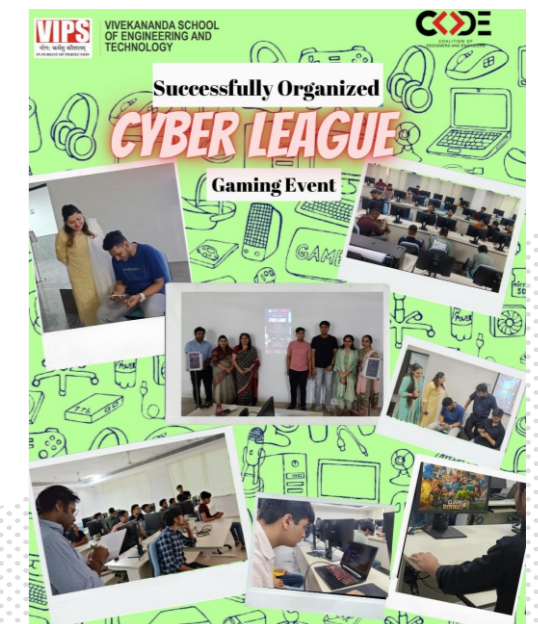

The event was followed by a nukkad natak performance to spread awareness on the topic of cleanliness and preservation of the environment.

Cyber League Event

6th-8th October, 2022

The school organised a cyber league event to inculcate the mode of game development and theory. Students were able to showcase their skills like teamwork, strategic and leadership skills. The league included games like Clash Royale and Tekken 4 competitions held through offline mode meanwhile the Valorant competition was held online. Kaustubh Tiwari (AIML- B) and Rudransh Singh (AIML- A) along with their team scored first position in the final competition. The stimulation of creativity, focus and visual memory led to a memorable experience for all as such events develop cognitive skills and promote critical thinking among the students.

LEADERSHIP SERIES EXPERT TALK

A leadership series initiating the concept of education as experiential learning was introduced by the school where experts from diverse backgrounds assisted the students in achieving their dreams. The motive of these series is to empower young minds to imagine and achieve the incomprehensible. The session included a question and answer round where the queries of students were addressed by the speakers. The power to imagine and make it a reality was the reason to commence such expert talks.

Expert Talk by Mr. Kamal Kant Sharma, Vice President & Global Head of Business at Amdocs

23rd September, 2022

Mr. Kamal Kant Sharma, Vice President & Global Head of Business at Amdocs, the first speaker of the series talked on, 'Building a Strong Foundation'. The session focused on the importance of finding a purpose as a working professional in the industry. Multiple examples from the Wright brothers to Jack Ma the co-founder and former executive chairman of Alibaba Group, etc. were discussed to encourage the students to form a resilient character and be devoted to their role as a professional. The expert emphasised the prominence of the school being a foundation, a base ground made up of dedication and hard work that can become a door for achievements only through persistence as an attribute of a true professional.

Expert Talk by Mr. Sudhir Bahl, Founder & CEO - of Lifeforce Health Systems Pvt Ltd.

10th October, 2022

Mr. Sudhir Bahl, Founder & CEO - of Lifeforce Health Systems Pvt Ltd. A senior healthcare executive with more than three decades of management and entrepreneurial experience across a wide spectrum of healthcare globally conducted the session on, 'Progression of Technology in Healthcare – from Microchips to AI'. The session started with the importance of Healthcare in AI, with a comparison of the healthcare facilities available in rural and urban areas. The need for technological advancement in the healthcare industry was raised. It encouraged emerging engineers to work for simplistic solutions. It was a successful session as students enthusiastically asked questions and sought internship opportunities in the future regarding healthcare institutions.

Expert Talk by Mr. Vikas Kumar, Managing Director of Delhi Metro Rail Corporation (DMRC)

11th October, 2022

Mr. Vikas Kumar, Managing Director of Delhi Metro Rail Corporation (DMRC), an Alumnus of IIT Roorkee & IIT Delhi, with experience of more than 32 years in all phases of Rail-based Urban Transportation projects talked on, 'Emerging Trends in Technology and Role of Communication'. Initiating the session by elaborating on the importance of technology and its advancement from simple rail modules to the present DMRC structure. He emphasised that engineers should use technology for the betterment and protection of society. DMRC is the first metro to earn carbon credits and use solar power and other renewable resources for energy production. Stating that the latest courses offered by the school are proven technologies that help in catering to the diverse customer spectrum.

With the use of AI in various DMRC services like the national common mobility card, cashless smart card recharge, driver-less operations etc. Sir highlighted the need for a coherent team of dedicated engineers for the development of our nation.

Expert Talk by Dr. Harsh Kumar, Awarded Padma Shri Director, Glaucoma Services at Centre for Sight

12th October, 2022

Dr. Harsh Kumar, an Ophthalmologist, awarded the title of Padma Shri by the President of India in the year 2015 and is currently working with Centre for Sight, New Delhi as a Director in Glaucoma services having more than 37 years of experience in the same field and worked with various national and international hospitals to develop techniques for Glaucoma treatment. Initiating the discussion on, 'Advances in Eye-Health Technology: A Boon or Bane'. Highlighting the fact that technology has changed the healthcare system including the cure, treatment and early diagnosis of the most common eye disorders such as Glaucoma, which can now be treated within the country. The focus on technological advancement in the treatment of the eye such as femtosecond LASER, IOL intraocular Lens, refractive surgery, LASIK, SMILE etc. became possible as the innov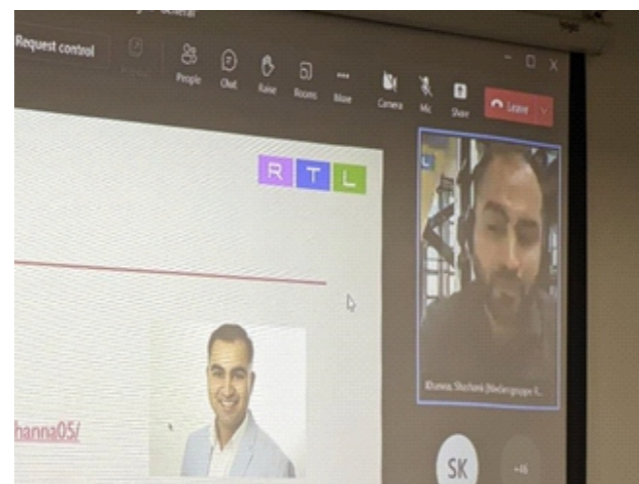ative approach of engineers working towards the upliftment of society. The event was successful as the students' asked questions regarding digital health communication and the use of AI in ophthalmology. Sir, cleared the doubts stating technology is a tool to be used with caution to sustain humanity.

Expert Talk by Mr. Shashank Khanna, Data Scientist at RTL Deutschland, Germany

17th October, 2022

The school organised an online expert talk on the topic, 'Data Science in CRM'. The invited speaker Mr. Shashank Khanna, a Data Scientist at RTL Deutschland, Germany, joined the session online and shared his knowledge of CRM, and its applications to data science including real-life examples of data science projects. The students found the session valuable and were excited to learn about potential job opportunities related to data science as the ability to manage customers and clients from diverse backgrounds was discussed.

Expert Talk by Mr. Pushpender Kumar, CTO and Global Architects Lead Global Alliances Presales

21st October, 2022

Mr. Pushpender Kumar, CTO and Global Architects Lead Global Alliances Presales has more than 37 years of IT management experience to drive global data storage and solution architecture initiated the session on, 'Technology Trends for 2022 and Beyond- Opportunity for India'. He elaborated on how technologies like Artificial Intelligence, Machine learning and Data Science have revolutionised the digital era and how it has enabled faster data transfer in comparison to the former limited data network. Sir mentioned an analogy that like the sun, data is the source of energy. In today's world, one should be aware of the latest developments in technology and its rapid growth as this is the dawn of the digital era. Mentioning the major barriers regarding the adoption of technology he pinpointed the key role of the students in overcoming the challenges of unskilled resources while developing modules for easy learning.

Online Workshop on App Development with Android

10th - 14th October, 2022

The session was conducted by Mr. Anoop Verma, an Oracle-certified Java specialised trainer with more than 12 years of experience, currently working at EICT-Academy, IIT Kanpur. He started with an introduction to Android App Development and the basics of Java programming language including Android Studio and the working of Android storage, manifest, menu R.java etc. The Android widgets like Button, Toast, CheckBox, Radio button, Rating bar, Spinner and Alert dialogue were explained in detail.

The workshop covered all important aspects of app development including Integrating Sensors, Camera and Wi-Fi, and Bluetooth with the Android App. It was a successful session as students were able to incorporate ideas demanded by the industry.

Diwali Celebration

21st October, 2022

The students of the school organised an event on the occasion of Diwali to collaborate and celebrate the festival of lights. With the lighting of lamps and puja aarti of Shri Ganesh and Mahalaxmi ji done by the students, faculty members and the board of management enhanced the spirits of the day of happiness and prosperity. The respected dignitaries and deans of various schools of VIPS-TC also participated in the ceremony. The ritual brought the community together as a single unity representing the cultural heritage of the nation.

Orientation session for Ciena Space Cohort-2 from Ciena Spaces Program under NASSCOM Foundation

18th November, 2022

The speaker for the event Ms. Rashmi Lohani, currently working as Maker Manager-Innovation Spaces, Nasscom Foundations, has experience working with students as a Mentor, Counselor, and Technical Social worker. The session started with an emphasis based on a great foundation inclusive of the concept established in 2001, triggered by an idea to create a unit titled NASSCOM Foundation, a non-profit organisation with a vision to empower lives through technology and work towards creating a truly inclusive India. The platform offers young innovators to turn their ideas into prototypes and businesses through a virtual maker space program equipped with R&D tools, learning content around technology & entrepreneurship, and mentoring from industry experts. The workshop was successfully conducted highlighting the basics of Start-up, working on the related problem statements, and a sign-up on the Ciena Spaces Portal making the vision a reality for students.

NATIONAL CONCLAVE

"Transforming Education Sector with Innovation Entrepreneurship"

23rd - 25th November, 2022

The National Conclave was a three-day program organised for the students to be mentored by eminent personalities of diverse backgrounds engaging the students on a one-to-one basis. The platform was provided to the students to gain knowledge and learn about startups and entrepreneurship. In the multiple sessions, students were encouraged to ask queries about the basics of the industry. The schedule included the first session by Ms. Akanksha Sharma (Head Communications, TCS- DISQ). She elaborated on the need for process learning in students from the formative years. Day two included three consecutive sessions with a batch of 30 students each for individualised mentoring headed by - Mr. Uday Raghunath Birje (Co-founder, Think Street Technologies), Mr. Ashish Khare (Founder and CEO, MentorKart), and Mr. Madhav Bissa (Director, Nasscom Foundations, Centre of Excellence, AI & Data Sciences) respectively. The final day of the conclave included a lamp-lighting ceremony as an invocation to seek the blessings of the almighty. Followed by a warm welcome of experts by Hon'ble Chairman, Dr. S.C. Vats. Sir, quoted that IT is not information Technology stands for 'India Tomorrow'. The profound words were reiterated by the guest speaker of the event- Prof. S. Sadagopan (founding director of IIIT Bangalore). Sir appreciated the initiative of the school for organising an event to enlighten the students about the importance of innovation and the role it plays in developing startups. Sir and the respective dignitaries guided and motivated the students on the need for innovation of Technology in AI. The event was a grand success as students gained perspective on the current startups and entrepreneurship ecosystem.

Seeds of Hope and Action (SOHA) Exhibition

14th December, 2022

Mr. K Prasanna (Bharat Soka Gakkai (BSG) Headquarters in New Delhi, managing the profiles of Legal 'BSG FOR SDG' initiatives) was invited to brief the students regarding sustainable development initiatives towards nation-building. Sir, started the session by emphasising the importance of SDGs and motivated the students to achieve these goals and elaborated on the ways to achieve it. A small video was presented to the students to make them aware of the hazardous impacts of not maintaining proper waste management. The various ways the students can reuse and recycle numerous products were the highlight of the event. An exhibition followed by the session was incorporated where students of the school gave presentations on all 17 SDGs and their significance. The event was a grand success as students spread awareness about SDGs, the ways to inculcate sustainable human behaviour and the need to be sensitised towards the environment.

IIT, KANPUR WINTER TRAINING

16th - 31st December, 2022

The students of the school actively participated in the workshop from 16th December 2022 to 31st December 2022. There were more than 1,000 attendees from various institutes across India. A total of thirty-nine students were selected to attend the workshop for the competitive coding and full-stack development course, including the importance of competitive coding with the usage of C/C++. The training provided the students with the necessary fundamentals as well as project-based and hands-on experience using technical languages. In the innumerable competitions held during the workshop, three students were awarded

the first position to Yash Lakhwani (AIDS-A) and second position to Gaurav Sardar (AIML-A) and Sanskar Rana (AIDS-B).

Workshop on Introduction to Animation

20th December, 2022

The session was conducted by Ms. Umme Maria, a Senior Instructor of Animation with a specialization in Animation and VFX from Jamia Milia Islamia University. She briefed the students about the evolution of animation. The true meaning of animation was thoroughly discussed to impart the stories in the most unique way possible. A brief history of animation from visual arts, pottery and ocular toys to computer-generated cartoons and high-tech animation. The inspiration and magic of stories make an everlasting impact. It was a successful session as students were informed about the various career prospectus

and applications of animation in various industries.

INDUCTION PROGRAM: AAGHAAZ 2022

21st - 23rd December, 2022

The three-day Induction Program, "Aaghaaz 2022" was successfully organised to welcome the newly admitted first-year students of B.Tech Programme. The event was initiated with the auspicious lighting of lamps by respected dignitaries as a tribute to Goddess Saraswati. It was followed by enthralling cultural performances to invoke the blessings of Lord Ganesha. The chief guest of the event Dr. Ajay Kumar (Former Defence Secretary, Government of India), discussed the modern warfare capabilities and disruptive technologies and innovations in India. Further, he talked about the iDEX (Innovations for Defence Excellence) initiative approved and formulated by the Ministry of Defence as a step towards the modernization of the defence industry. He motivated the students to be innovative in the defence sector and strengthen the nation. The day two program included a session by Mr. Jasmeet Singh (Head of Institutional Sales, SHL) to bring a connection to the roots as he discussed his journey from VIPS to holding a lead position at a multinational organisation. In the session with the students, he gave them details about the latest screening technologies used in the recruitment process and offered opportunities for internships in the future. Col. Sanjay Kumar Srivastava (Chairman of Climate Resilient Observing-Systems Promotion Council) conducted the session on day three of the event. He highlighted the important role played by remote sensing, early warning and communication in disaster management. The students realised that being alert and attentive as a citizen is a stepping-stone to a vibrant future. The event concluded with Hon'ble Chairman Sir, Dr. S.C. Vats sharing his profound words of wisdom and motivating the new batch of the school to work hard in their field and develop a sincere attitude towards the welfare of the nation.

Student Achievements

Successful Programme Completion

- Vidhi Karnwal (AIML 3rd Semester) successfully completed the programme in Artificial Intelligence 'Technique', a Tech Event organized by IIT Guwahati from 1st August to 30th September 2022.

- Garvita Ahuja (AIML 3rd Semester) & Shivansh Sharma (AIML 3rd Semester) completed the Student Development Programme on Data Analytics with R Programming organized by E & ICT Academy, IIT Kanpur. The Event took place from 12th to 16th September 2022.

- Mohit Raj Sinha (AIML 3rd Semester) & Honey Bansal (AIML 3rd Semester) successfully participated in Hackathon titled" ACE-HACKVSIT" 4th Edition organized by School of Information Technology on 1st-2nd October 2022.

Student Publications

- Radhika Chawla (AIML 3rd Semester) successfully presented the research paper titled "Smart Grid & Energy Management System" in session through virtual mode at 7th International Conference on Internet of Things & Connected Technologies. The Event was held at Vivekananda Institute of Professional Studies- Technical Campus from 25th to 30th September 2022.

Extra Curricular Achievements

- Nikhil Goyal (AIDS 3rd Semester) secured 1st position in National Level Group Dance Event "Varchasva India Rising", organized by Tecnia Institute of Advanced Studies New Delhi as a part of their Media Fest 2022-2023. The event was organized on 2nd & 3rd October 2022.

- Suhani Singhal (AIML 1st Semester) served as Vice-Chairman in United Nations General Assembly simulated at HRMUN Inter Conference held on 11th-12th November 2022.

- Radhika Gupta (IIOT 1st Semester) emerged as 1st Runner Up in the Inter College Volleyball Tournament held at GGSIPU, Dwarka on 16th December 2022.