



Information Brochure

B.TECH PROGRAMMES

VIPS-TC

SCHOOL OF ENGINEERING & TECHNOLOGY

VISION

To empower and build a sustainable future for the engineering sector by providing high-quality education to young minds and inculcate innovative practices that support the planet and its people.

MISSION

To groom future engineers with the help of value-based education; and awaken their intellectual curiosity by nurturing creativity and instilling world-changing capabilities.



ETHOS

We at VIPS-TC, School of Engineering & Technology help students unleash their potential and refine the engineer within by laying the solid foundation of four cornerstones of our Ethos: Curiosity, Creativity, Capability, and Contribution. These Ethos will be students' northern star in personal, academic, and professional endeavors. At the end of their undergraduate voyage, students will unlock their full potential as an individual, as an engineer and as a technocrat.



Curiosity

It is the very step of innovation - the brickwork of every greatest invention. It sparks excitement and in return, fills our students with ideas. At VIPS-TC, School of Engineering & Technology, we ignite students' curiosity and help them to find the very answers. We help students to develop a problem-solving mind set and encourage them to ask questions.



Creativity

The essence of everything is thinking out of the box. Every problem is unique and so is the solution - all it takes is to have a different and innovative point of view. At VIPS-TC, School of Engineering & Technology, we help our students develop the mind set to see things with a creative perspective. We support students' ideas and aid them to think differently through our dedicated team of mentors, centres and cells.



Capability

Being a capable individual is the most important trait to contribute not only to one's own life but also to the society. At VIPS-TC, School of Engineering & Technology we help our students to become proficient and skilled enough to realize their vision and ideas. Without a strong capacity, curiosity and creativity are just the figments of one's imagination. We provide our students with adequate knowledge, holistic skills and confidence to manifest the workable solutions in real-time. At VIPS-TC, School of Engineering & Technology, we empower our students with this capacity with pre-eminent guidance.



Contribution

A revolution starts with an individual and spreads like a forest fire. This individual process of change and contribution is the very key to sparking a change on a global scale. For example, it is said, "A great human revolution in just a single individual will help achieve a change in the destiny of a nation and, further, will enable a change in the destiny of all humankind." We at VIPS-TC, School of Engineering & Technology work along with our students to encourage their ideas, solve their queries and guide their passion so as to make them capable individuals ready to contribute to the world by making innovative and relevant technologies that will change the future of the society for good.

INTRODUCTION

A BUDDING GROUND FOR THE NEXT GENERATION OF ENGINEERS

Backed by the two-decade-long and profound legacy of Vivekananda Institute of Professional Studies-Technical Campus, VIPS-TC, School of Engineering & Technology, has a state-of-the-art campus dedicated to impart knowledge and experience that are essential for leading the future of engineering. It aims to create a generation of engineers who are equipped with the right mindset and skillset to shape and build a stronger society. VIPS-TC, School of Engineering & Technology, is now en-route to prepare young minds to lead and innovate Industry 4.0.

The school focuses on promoting a student-centered approach with a blended learning curriculum. The curriculum is curated to develop a deep understanding of how things function and find practical solutions by applying the learned theories and scientific processes with hands-on exposure.

At VIPS-TC, School of Engineering & Technology, we strive to provide opportunities for students to hone their social skills and soft skills along with their technical expertise. The B.Tech programme takes a holistic approach to educate students by developing their overall personalities and nurturing them in the field of technology by enabling their creativity and innovation, which eases their transition to the next phase of their professional lives.



VIPS-TC
20+
YEARS OF LEGACY

PROGRAMMES

B.Tech

4 Years

B.Tech- Computer Science & Engineering (CSE)

B.Tech- Artificial Intelligence & Data Science (AI & DS)

B.Tech- Artificial Intelligence & Machine Learning (AI & ML)

B.Tech- Industrial Internet of Things (IIoT)



DISTINGUISHING FEATURES

New-age Engineering

VIPS-TC, School of Engineering & Technology, rigorously promotes research and innovation. This is accomplished by providing an environment where ideas, artistic works, literary works, discoveries, outcomes of research, and developmental work can prosper, leading to the development of intellectual property. Young learners are bestowed with opportunities to file patents and encourage life-projects.

State-of-the-Art Infrastructure and Technology

- CISCO networking and a Wi-Fi enabled campus
- Computer Centre and Computer Labs is equipped with Dell Systems having 11th-gen and 12th-gen Intel Core i7 processors, 16 GB RAM, with 1TB SSD HD configuration
- Well-structured laboratories to address quality technical learning

Faculty from Renowned Institutions

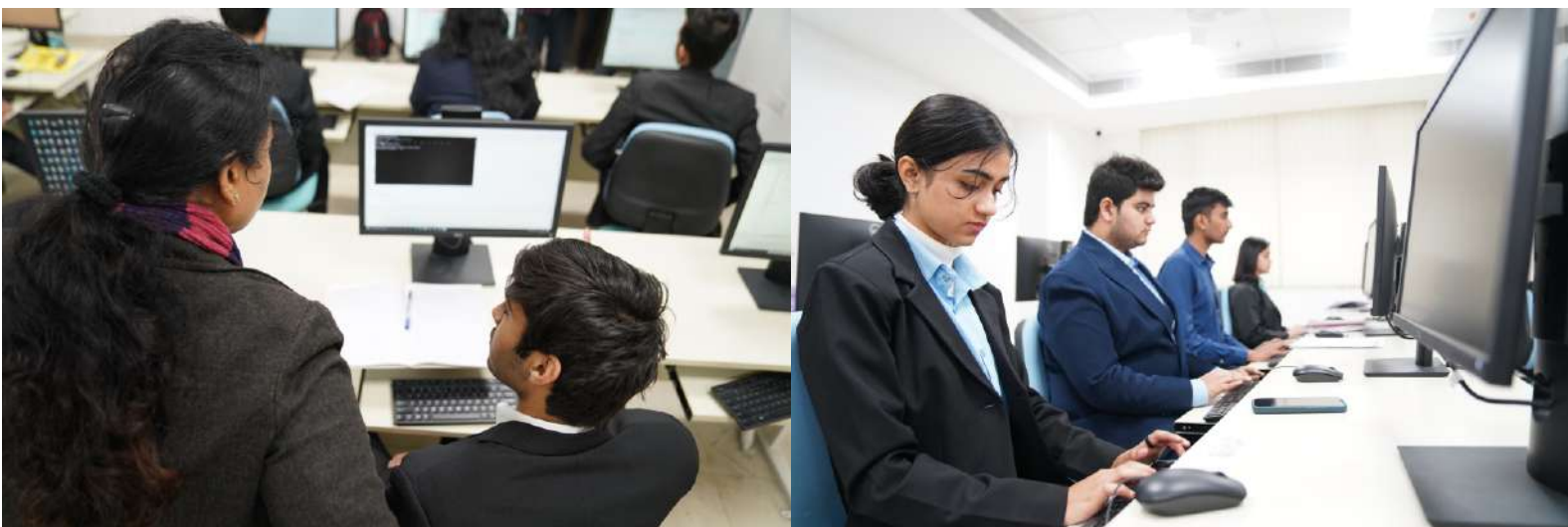
- Highly qualified faculties with industrial experience from IITs, NITs and other reputed universities.
- All the faculty members are PhDs.

Dynamic Learners

- We wholeheartedly enable our students to develop their full potential in every field of interest. For this, we have numerous centres that nurture excellence, like the Centre for Sustainable & Smart Future, Centre for Performing Arts & Creativity, etc.

Pedagogy

- To ensure relevant learning, our programs are created, refined, and assessed after working with renowned business professionals and academic experts. Our students participate in certifications, and research internships. As a result, they develop the skills required to achieve highly-competitive job placements.



A SOLID INFRASTRUCTURE FOR THEIR ROBUST FUTURE



Computer Centre

Computer Centre

Wi-Fi and Networking

The campus is Wi-Fi enabled with high speed internet and CISCO Networking Architecture 6.

Library with Digital Facilities

The school provides a well-stocked library and offers a premium collection of books and learning resources. The campus also has a library with digital facilities and ample IEEE resources.



Library

LABORATORIES

The School has well-equipped Computing Lab, Artificial Intelligence Lab, Data Science Lab, Digital Logic Design Lab, Internet of Things Lab, Electrical Science Lab, Engineering Graphics Lab, Workshop Practice Lab, Applied Physics Lab, Applied Chemistry Lab, Environmental Studies Lab, Language Lab and Project Lab.



Applied Physics Lab



Applied Chemistry Lab



Digital Logic Design Lab



Electrical Science Lab



Workshop Practice Lab



IoT Lab

CAMPUS FACILITIES

The campus also has smart classrooms, reading room, seminar hall, auditorium, common rooms, basketball court, indoor games, library with digital facilities, centralised air-conditioning and a medical room.



Classroom



Seminar Hall



Auditorium



Sports Room



Boys Common Room



Girls Common Room

OUR TORCHBEARERS



Prof. (Dr.) Deepali Virmani
Head of Department of B.Tech Programmes
 Machine Learning, Data Analysis, Knowledge Engineering, Information Retrieval, Sensor Networks



Prof. (Dr.) Nidhi Sharma
Professor and Controller of Examination
 Environmental Organic Chemistry, Environmental Modelling, Environmental Electrochemistry



Dr. Pramod Bhatia
Professor
 Computational Fluid Dynamics, Combustion



Dr. Suman Bhatia
Associate Professor
 Computational Neuroscience, Operating Systems, Artificial Intelligence, Software Project Management, Object Oriented Software Development



Dr. Vanita Bhardwaj
Assistant Professor
 Photonics, Fibre Optics, Optical fiber sensors



Dr. Navneet Kumar
Assistant Professor
 Condensed Matter Physics, OLED & Display Devices



Dr. Ashish Kumar
Assistant Professor
 Information Security, Computer Vision, AI, IoT



Dr. Lakshika Chutani
Assistant Professor
 Complex Analysis, Dirichlet series



Dr. Deepak Tiwari
Assistant Professor
 Low-grade solar heat source Power generation and Cooling system and Computational Intelligence



Dr. Sonal Khurana
Assistant Professor
 Sustainable Oriented Innovation, Sustainable Supply Chain, Industry 4.0



Dr. Sonakshi Vij
Assistant Professor
 Artificial Intelligence, Natural Language Processing, Machine Learning, Data Science



Dr. Srishti
Assistant Professor
 Renewable Energy, Soft Computing Techniques, Hybrid Energy System, Energy Management System, Image Processing.



Dr. Nikita Sharma
Assistant Professor
 Literature, Communication Skills, Language and Literary Theory, Soft Skills and Personality Development, Universal Human Values.



Dr. Deepika Kumari
Assistant Professor
 Differential Geometry, Real Analysis, Algebra and Information Geometry



Dr. Garima Chanana
Assistant Professor
 Molecular Modelling, Density Functional Theory, Optical Properties of Molecules, Quantum Chemistry



Dr. Mudita Nagpal
Assistant Professor
 Physical Chemistry, Material Science, Wastewater treatment, Environmental Science



Dr. Vishal Srivastava
Assistant Professor
 Metaheuristics algorithms, Soft Computing Techniques, Nonlinear Control, Lyapunov Stability, Electrical drives and Control



Dr. Nivedita Palia
Assistant Professor
 Speech Processing, Biometrics, Speaker Recognition



Dr. Praveen Chaurasia
Assistant Professor
 Wireless Application, Fibre Optics, Microwave, IoT, Engineered Materials



Dr. Deepika Bhatia
Assistant Professor
 Data security, Data Warehousing and Mining



Ms. Bharti Seth
Assistant Professor
 Data Envelopment Analysis, Decision Making, Optimization



Dr. Archa Gulati
Assistant Professor
 Physical Chemistry, Material Science, Environmental Science



Dr. Gopal
Assistant Professor
 Artificial Intelligence, Soft Computing, Biometrics, Machine Learning, Fusion Strategies



Dr. Divya Agarwal
Assistant Professor
 Robotics, Automation, Internet of Things, Mechatronics, Path Planning and Obstacle Avoidance Algorithms, Optimization Algorithms, Facility Layout Planning



Dr. Shivanka
Assistant Professor
 Optimization technique used in Wireless sensor network, IoT, AI and DS

PROJECTS

Students are encouraged to hone their skills by applying concept to practical applications under the guidance of our highly qualified faculties.



THE BRIDGE TO FUTURE POSSIBILITIES



Prof. S. Sadagopan
Chairman, BoG
IIITDM
Kancheepuram
Founding Director,
IIIT Bengaluru



Mr. Uday Raghunath Birje
Co-Founder &
Director, Think Street
Technologies



Mr. Madhav Bissa
Programme Director,
Data Science and AI,
NASSCOM



Dr. Ajay Kumar
Defence Secretary
Government of
India



Mr. Ashish Khare
Founder & CEO,
MentorKart



Mr. Pushpendra Kumar Gupta
Global CTO & APJ
Presales Lead, Global
Alliances Presales, Dell
Technologies



Mr. Kamal Kant
Vice President
Global Head of
Business at Amdocs



Mr. Sudhir Bahl
Founder & CEO,
Life Force Health
Systems Pvt. Ltd.



Mr. Vikas Kumar
Managing Director,
DMRC LTD.

INDUSTRY-ACADEMIA CONNECT



Students Interaction with Prof. S. Sadagopan, Founding Director IIIT, Bengaluru and Mr. Uday Raghunath Birje, Co-Founder & Director, Think Street Technologies.



Students at IIT Kanpur



Group Mentoring Workshop by
Mr. Ashish Khare, Founder & CEO, Mentorkart.



Address by Dr. Ajay Kumar, Defence Secretary,
Government of India



A talk by Mr. Pushpendra Kumar Gupta, Global CTO &
APJ Presales Lead, Global Alliances Presales,
Dell Technologies.



Leadership Session by Mr. Madhav Bissa,
Programme Director, Data Science & AI,
NASSCOM.



Students demonstrating at
project presentation



Technical Session by Mr. Vikas Kumar,
Managing Director, DMRC Ltd.

MEMORANDUM OF UNDERSTANDING

Between VIPS-TC and IIT's

MoUs with leading universities, IITs and partnerships with eminent industries to enhance academic and working knowledge of the field.



Indian Institute of Technology, Jammu (IITJ)

MoU has been signed between Vivekananda Institute of Professional Studies - Technical Campus and Indian Institute of Technology, Jammu for academic excellence and research collaborations on 7th July, 2023.



IIT, Jammu Campus



Indian Institute of Technology Gandhi Nagar (IITGN)

MoU has been signed between Vivekananda Institute of Professional Studies - Technical Campus and Indian Institute of Technology, Gandhi Nagar for academic excellence and research collaborations on 25th May, 2023.



Director, IITGN with B.Tech Students at VIPS-TC



Indian Institute of Technology, Guwahati (IITG)

MoU has been signed between Vivekananda Institute of Professional Studies - Technical Campus and Indian Institute of Technology, Guwahati for academic excellence and research collaborations on 10th April, 2023.



Prof. Sukumar Nandi, IIT Guwahati with B.Tech Students at VIPS-TC



IITK Foundation for Advanced Continuing Education & Training (IFACET)

MoU has been signed for academic excellence and research collaborations during 16th - 31st December, 2022.



B.Tech Students at IIT, Kanpur Campus

ADDRESSING INDUSTRY NEEDS WITH THE BEST-IN-CLASS RESOURCES

At VIPS-TC, School of Engineering & Technology, we address the need for talented professionals through a highly comprehensive and long-term approach to education in a professional environment. Our graduates bring forth a perfect amalgamation of critical thinking, hard work and strong fundamentals.

COLLABORATING FOR A ROBUST AND REWARDING ALLIANCE



PAINTING THE WORLD WITH THEIR ACTIVITIES & ACCOMPLISHMENTS

CONGRATULATIONS

YASH LAKHWANI & SANSKAR RANA won the first & second position respectively in Full Stack Development Event held at IIT Kanpur.

GAURAV SARDAR won first position in Competitive Coding Engoty held at IIT Kanpur.

Out of 25 teams in Ciena Space Program, 3 teams have been selected for exclusive prototype funding support.

KHUSHI KALRA

She received the Best Paper Award at the 1st International Conference on Sustainable Materials, Manufacturing and Energy Technologies, held in Raj Kumar Goel Institute of Technology, Ghaziabad.

PRAKHAR JAIN

Successfully completed and achieved position among top 5% students in the "Data Analytics with Python" NPTEL course with a consolidated score of 88%.

ACHAL SINGHAL

Successfully completed the following NPTEL course certification
Programming, Data Structure and Algorithm using Python

KRITIK SHARMA

Successfully completed the following NPTEL course certifications
Programming, Data Structure and Algorithm using Python | Machine Learning

Our 1ST Year University Toppers (2021-2022)

B.Tech (AI & DS)



Anshika Sharma



Vridhi Mittal



Pushpinder Singh



Nishant

B.Tech (AI & ML)



Ashutosh Khanna



Samridhi Bisht



Garvit Ahuja

B.Tech (IIoT)



Prisha Gupta



Kanak Ahuja



Vaibhav Sharma

STUDENT ACTIVITIES

Time and again, the students of VIPS-TC, School of Engineering & Technology, have been recognised for their efforts in presenting their research papers at International and National Conferences.

Students are seeking certification for professional development from EdX, Coursera, NASSCOM, MOOCs, NPTEL, and Swayam freshman orientation programme, outreach, and immersion programmes.

Few students have been selected by NASSCOM for the internship programme.

"Cyber Security Essentials" hands-on workshop in association with CISCO was organised to gain and enhance knowledge on cyber security.

Students of VIPS-TC, School of Engineering & Technology, accompanied by 2 faculty members went to IIT Kanpur to attend the winter training session on Full Stack Web Development & Competitive Coding.

An inter-college event, IDEATHON 2K22 was organized to enable students to hone their entrepreneurial skills.

'Seeds of Hope & Action', a unique Sustainability Exhibition was organised for the students to learn, reflect, empower and lead by the Centre for

STUDENT LIFE @CAMPUS

exciting, buzzing and invigorating





VIVEKANANDA INSTITUTE OF PROFESSIONAL STUDIES TECHNICAL CAMPUS

Grade "A++" Accredited Institution by NAAC

(Affiliated to Guru Gobind Singh Indraprastha University,
recognised by Bar Council of India & approved by AICTE)
NBA Accredited for MCA programme, Recognised under Section 2(f) by UGC
ISO 9001:2015 Certified Institution

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