

International Professional Technologist Program

School of Technical Education



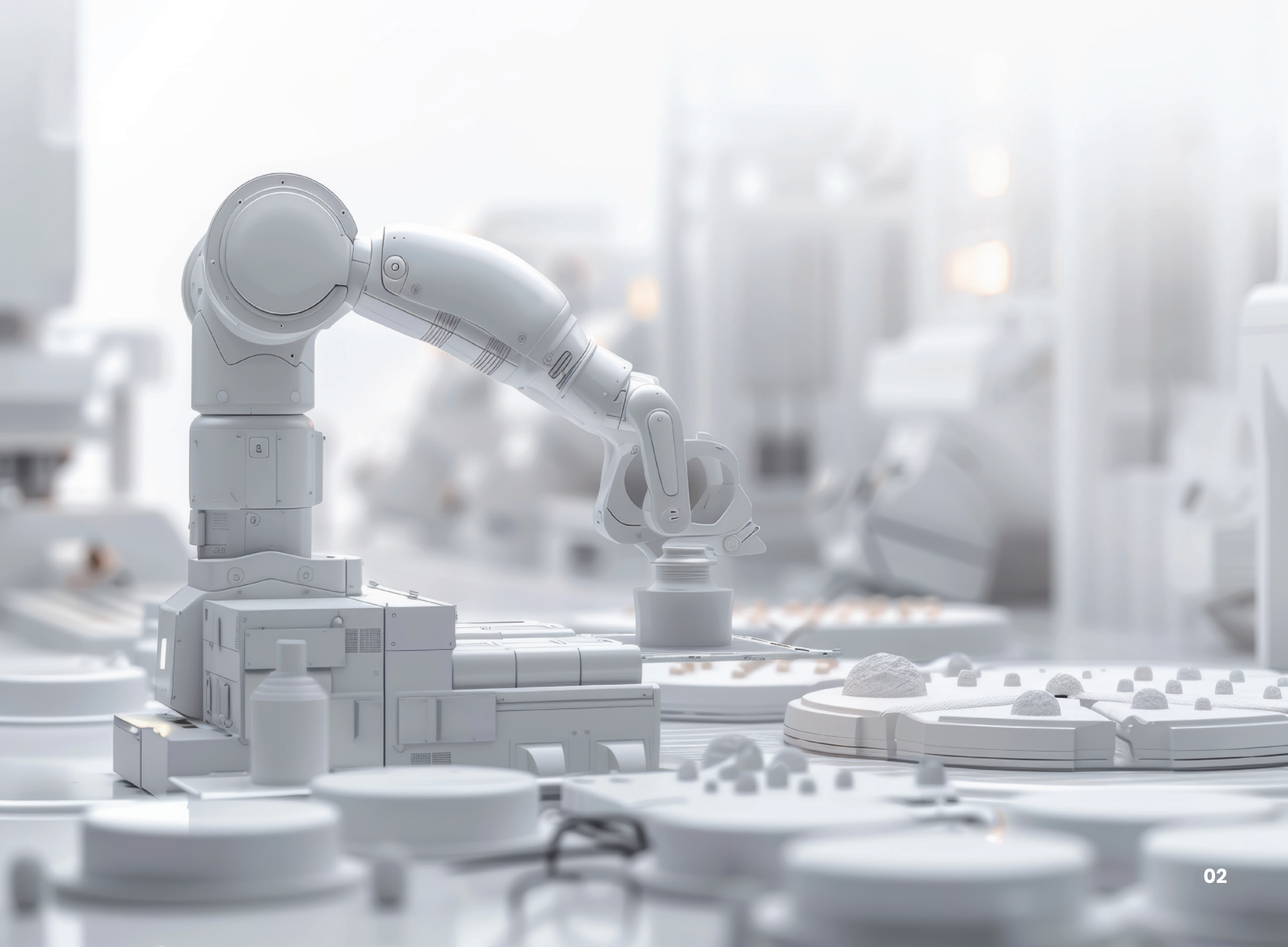
Manufacturing Innovation is Fuelling India's Next Growth Wave

India holds two massive aspirations for the future – **Viksit Bharat & Net-Zero Bharat**.

By 2047, India aims to become a fully developed, globally competitive economy, with advanced technology and high standards of living. Looking ahead to 2070, the nation aspires to achieve net-zero carbon emissions, combining growth with sustainability.

At the heart of this journey is **manufacturing innovation**, the engine that will drive innovation, create skilled opportunities, and power economic transformation. By equipping a workforce with hands-on experience, cross-domain expertise, and technical excellence, India can turn these long-term aspirations into reality, building a future that is prosperous, sustainable, and globally influential.

To enable fulfilment of these aspirations, NAMTECH is advocating for and catalysing the development of a deeply integrated national Manufacturing Engineering & Technology (MET) ecosystem.



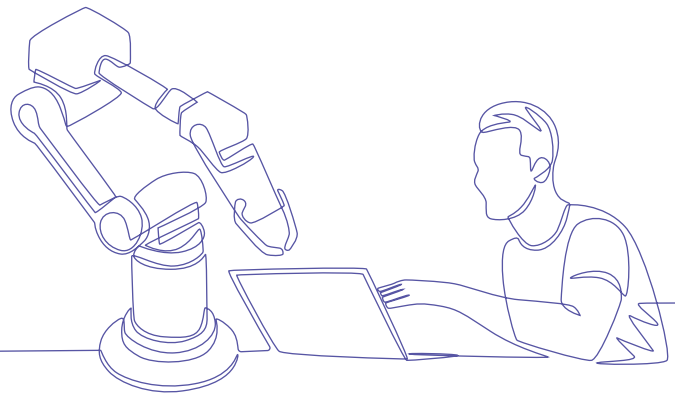
Understanding Manufacturing Engineering & Technology (MET)

MET is a cohesive ecosystem where manufacturing and engineering sectors are converging to be transformed by innovative, sustainable, and digital technologies such as Artificial Intelligence, Internet of Things (IoT), Robotics.

Integration of Industry 4.0 and Industry 5.0 technologies in manufacturing & engineering sectors is driving scalable impact, optimizing processes, and creating a future where technology and sustainability work together to shape the next generation of industries.

MET: Key to Transforming India

The MET ecosystem holds immense potential to drive India's global manufacturing leadership and propel the nation toward achieving its \$30 trillion GDP goal by 2047.



MET is:

Estimated at
\$1.8 Trillion
as of 2024

Projected to
grow at
~11% CAGR

Expected to employ
over **100 Million**
Individuals

India's Global Leadership in MET Faces a Key Challenge–Talent

As automation and smart technology transform industries, it's crucial to develop professionals who can thrive in this change. Rapid advancements in sectors like smart manufacturing, Advanced robotics, and semiconductors demand professionals who can adapt, innovate, and drive transformation.

NAMTECH bridges this gap by training future leaders in advanced manufacturing, industrial sustainability, and digital innovations, ensuring they are equipped to lead India's MET evolution sustainably.



MET includes the following focus sectors:

- Automotive & Transportation
- Space, Aerospace & Aviation Technology
- Defence
- Electronics & Semiconductor Manufacturing
- Industrial Machinery
- Automation & Robotics
- Intelligent Robotics
- Medical Devices & Biotechnology
- Renewable Energy & Power Systems
- Textile & Apparel Manufacturing
- Advanced Materials & Nanotechnology
- Metals & Steel
- Artificial Intelligence
- Digital Technology

The MET ecosystem is being rapidly transformed by Industry 4.0 and Sustainable Technologies

- Process Optimisation
- Product Design & Development
- Supply Chain Management
- Sustainability
- Smart Manufacturing
- Project Management
- Quality Control and Assurance
- Automation



About NAMTECH

NAMTECH (New Age Makers' Institute of Technology), an educational initiative by ArcelorMittal Nippon Steel India, is the first Manufacturing, Engineering and Technology (MET) Institution. Aligned with the nation's 'Make in India' and 'Viksit Bharat 2047' goals, NAMTECH aims to accelerate this transformation by equipping ambitious minds with advanced, experiential engineering programs and promoting responsible technology to build a sustainable, innovative future.

NAMTECH is committed to meet the demand for Industry 4.0 & Industry 5.0 ready professionals by developing talent that is both technically competent, and conscious towards the environmental & social impact of innovation.

We are pleased to inform, the Ministry of Education, on the advice of UGC, hereby issues Letter of Intent (LOI) to NAMTECH for fulfilment of the required conditions within a specific period of for conferment of Institution deemed to be university status .

01

MET Innovation Schools

- School of Manufacturing Technologies
- School of Manufacturing Design & AI
- School of Robotics
- School of Sustainability
- School of Technical Education

02

MET Innovation Center

- Center of Excellence in Automotive Engineering
- Center of Advanced Computing & AI
- Center of Management Studies

NAMTECH Built to Build India

NAMTECH exists to build industry-ready leaders in Manufacturing, Engineering, and Technology, bridging the gap between advanced education and real-world skills.

We equip learners with hands-on experience, cross-domain expertise, and innovation capabilities to drive India's technological growth and future-ready industries.

Purpose

We Inspire Humane Capital

Vision

Be a pioneering engineering and technical education institution to create leaders in manufacturing and leadership for India in the world.

Message from
Director General



**Dr. Ibrahim Hafeezur
Rehman**

Director General & CEO,
Dean Academic Advancement; R&D
Consultancy
Director, School of Sustainability

Hello,

At NAMTECH, we are committed to shaping the future of Manufacturing Engineering Technology (MET) by creating pathways for skilled talent to evolve into high-impact professionals.

As part of our larger vision to train 3 million learners in Industry 4.0 and 5.0 technologies, the iPTP plays a critical role in bridging the gap between foundational skills and advanced industrial expertise.

Tomorrow's leaders in manufacturing will not only operate technology - they will understand, adapt, and continuously evolve with it. They must be equipped with strong technical foundations, practical problem-solving abilities, and the agility to thrive in dynamic industrial environments.

At NAMTECH, through the International Professional Technologist Program (iPTP) we are focused on building a new generation of industry-ready technologist. This program is designed specifically for ITI and diploma graduates, enabling them to transition into advanced manufacturing roles by developing deep capabilities in automation, robotics, and Industry 4.0 technologies.

The iPTP goes beyond conventional training - it combines hands-on learning, industry-aligned curriculum, and real-world application to ensure learners are prepared to contribute from day one.



School of Technical Education

The School of Technical Education at NAMTECH is dedicated to transforming India's technician workforce into Industry 4.0 & 5.0 ready technologist. The school focuses on building advanced technical and digital skills, along with systems thinking and ethical responsibility, enabling learners to innovate, adapt, and contribute effectively in a rapidly evolving industrial ecosystem.

Through its flagship International Professional Technologist Program (iPTP) and ITI Outreach initiatives, the school provides experiential learning in automation, industrial robotics, and semiconductor to ITI and diploma students across India. Its mission is to democratize access to future-ready technical skills and nurture professionals who combine technical craftsmanship with conscious innovation.

The school also leads NAMTECH's nationwide "Sharing Technology" initiative, delivering world-class technical training through outreach programs, skill hubs, and the Moving Campus initiative, ensuring that high-quality technical education reaches learners who traditionally lack access.

In collaboration with ITE Education Services (ITEES), Singapore, a globally recognized leader in technical education, all programs follow international standards of hands-on learning, modern pedagogy, and global certification.

Message from
Program Leader



Mr. Sandeep
Achantani

Director,
School of Technical Education

Hello,

At the NAMTECH School for Technical Education, we believe that India's industrial progress will be defined by the quality of its technicians - the hands and minds that build, automate, and sustain our economy. Our mission is to nurture technologists with conscience - individuals who combine precision with purpose, skill with awareness, and innovation with integrity.

Our programs, developed in partnership with ITE Education Services Singapore, leaders in manufacturing industry and technology experts, are rooted in experiential learning and global best practices. Whether through our residential training at Gandhinagar or through our outreach programs that reach ITIs and rural communities, we bring world-class technical education to learners where they are.

Having successfully demonstrated the impact of our hub-and-spoke model in Mehsana, we now aim to scale this innovation through partnerships with MSDE and State Skill Missions - impacting 500 ITIs across India in the next 10 years.

The NAMTECH School for Technical Education stands committed to building an inclusive, skilled, and future-ready workforce that drives India's journey toward Vikasit Bharat @ 2047.

International Professional Technologist Program (iPTP)

The International Professional Technologist Program (iPTP) program offered by NAMTECH School of Technical Education, is a one year full-time, residential program aimed to prepare highly skilled world-class technologist in Automation, Industrial Robotics and Semiconductor Manufacturing.

The programs include 9 months of classroom teaching and 3 months of on-the-job-training. Students who have completed their ITI and diploma are eligible to apply in this course.

The curriculum of iPTP is designed in collaboration with ITE Education Services (ITEES), Singapore, and prominent industry experts of Industry 4.0. iPTP will equip and enable learners to pursue global job opportunities.

Programs Offered

The School for Technical Education offers three specialized iPTP programs, designed to prepare students for advanced manufacturing and emerging technology sectors:

iPTP in Automation

Focuses on modern industrial automation systems and smart manufacturing technologies through project-based learning, competition based learning & competency based learning.

Curriculum

Trimester 1:

- CAD and Mechanical Applications
- Pneumatics and Automation
- Communication and Life Skills – I
- STEM Essentials – I

Trimester 3:

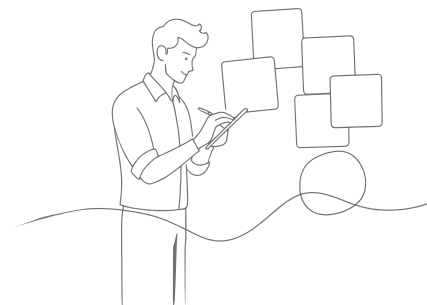
- Cyber Physical Systems
- Robotics Systems
- Communication and Life Skills – III
- STEM Essentials – II
- Capstone Project

Trimester 2:

- Electrical and Electronics Applications
- Hydraulics
- PLC and Motor Control
- Communication and Life Skills – II

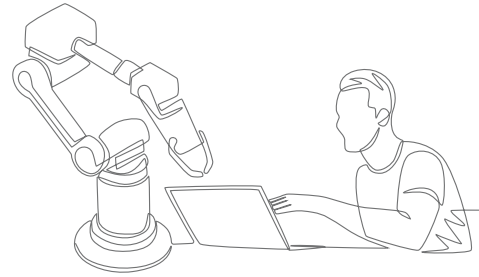
Trimester 4:

- On-the-Job Training (OJT)



iPTP in Industrial Robotics

Develops expertise in robotics, automation systems, and real-world industrial problem-solving.



Curriculum

Trimester 1:

- Robot Design & CAD Modelling
- Electrical Components and Panel Wiring
- Communication and Life Skills I
- STEM Essential I

Trimester 3:

- Industrial Robot Integration & Digital Twins
- Mobile Robotics
- Communication and Life Skills III
- STEM Essential II
- Capstone Project

Trimester 2:

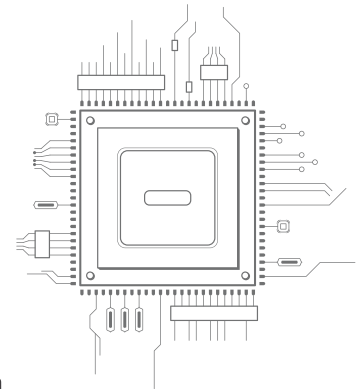
- Industrial Robot Programming with Sensor Integration
- PLC and Motor Control
- Industrial Hydraulics and Pneumatics
- Communication and Life Skills II

Trimester 4:

- On-the-Job Training (OJT)

iPTP in Semiconductor Manufacturing

Provides specialized training in semiconductor processes, advanced equipment handling, cleanroom protocols, and contamination control.



Curriculum

Trimester 1:

- Basic of Electrical and Electronics
- Industrial Automation
- Communication and Life Skills I
- STEM Essential I

Trimester 3:

- Semiconductor Manufacturing Process Fundamentals
- Semiconductor Manufacturing Packing Technology
- Communication and Life Skills III
- STEM Essentials II

Trimester 2:

- Advanced Automation
- Robotics System
- Semiconductor Manufacturing Plant Operation & Safety
- Communication and Life Skills II

Trimester 4:

- On-the-Job Training (OJT)

What sets us APART

01

Global Academic Collaborations



ITEES is a principal provider of career and technical education and a key developer of national occupational skills certification and standards to enhance Singapore's workforce competitiveness.

Established in 2003 with the objective of sharing TVET experience with the international community. Supports more than 30 countries in developing TVET capabilities.

Brings international expertise in the technical training space. NAMTECH is the first industry driven academic partnership done by ITEES in India.

NAMTECH Partners with the best of industries



Our Learning Pedagogy

We are committed to preparing learners for the demands of rapidly changing technology driven competencies of Manufacturing, Engineering and Technology (MET) landscapes, equipping them with the skills and mindsets necessary to innovate. Our pedagogical approach is designed to foster an environment of active learning, critical thinking, and real-world application.

Competency-Based Learning



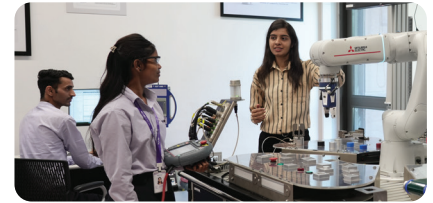
We focus on mastering skills, not just completing courses. Learners progress through personalized pathways, acquiring technical, professional, and leadership competencies at their own pace. This ensures deep understanding, measurable skill development, and real-world readiness.

Project-Based Learning



Every learner solves real-world problems through hands-on projects co-designed with industry partners. This immersive approach bridges theory with practice and transforms learners into solution-oriented technologists capable of delivering impact from day one.

Competition-Based Learning



To spark innovation and critical thinking, learners engage in challenges and competitions that mirror global industry scenarios. These experiences encourage healthy competition, collaboration, and creativity—pushing learners to raise the bar continuously.

Problem based learning



Our exceptional pedagogy is focused on real-world application of theory and concepts. We encourage our learners to learn concepts, apply them, and validate their understanding in the context of a real-world industry problem.

On-the-Job Training (OJT)

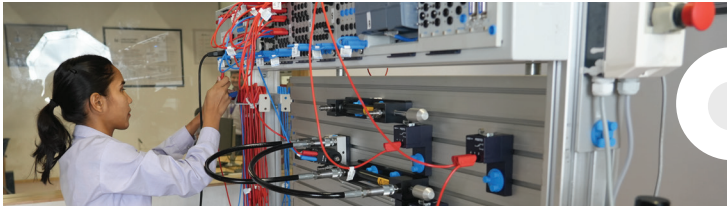


As a part of curriculum students get exposure to work in Industry for three months duration where they apply their acquired competencies in real world work environments. These helps them to develop confidence, industry specific skills and adaptability to make them Industry ready.

State-of-the-art Micro-factories



Our micro-factory learning integrates advanced technologies that mirror real world manufacturing and industrial settings, allowing students a seamless transition into the professional world.



Hydraulics Lab

Focuses on fluid-based power transmission systems critical to Automation and Smart Manufacturing.

Pneumatic Lab

Dedicated to studying fluid-based power transmission systems using compressed air, essential for Automation and Smart Manufacturing.



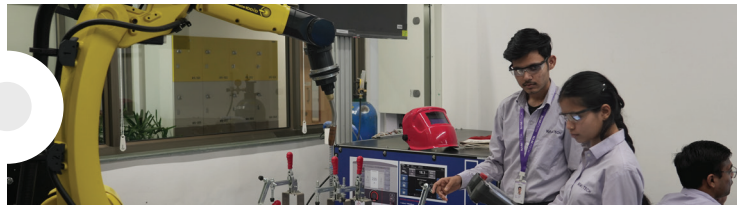
Cyber Physical System Lab

Equipped with cutting-edge setups like the CPS4010 and MPS0404, enabling students to explore Industry 4.0 technologies.



Robotics Lab

Ensures comprehensive learning and application of robotics in modern manufacturing.



Industrial Automation Lab

Provides hands-on experience in automation, fostering innovation in smart manufacturing solutions.

PLC & SCADA Lab

Ensures students gain practical skills in modern industrial applications and the implementation of automation solutions.



Precision Engineering & Additive Manufacturing

Four additive manufacturing machines utilizing FDM, SLA, and DED technologies for precise and innovative 3D printing.



Seeding excellence. Reaping success.

Big Win at the Janatics Automation Skill Challenge

2026

National Level Competition

MARCH 2026



BRONZE MEDAL WINNER

- **Negha Agrawal**
Optoelectronics

MEDALION FOR EXCELLENCE

- **Abhishek Jatav**
Industrial Mechanics

Regional Level Competition

FEB 2026



GOLD MEDAL WINNERS

- **Abhishek Jatav**
Industrial Mechanics Trade
- **Negha Agrawal**
Optoelectronics
- **Dhaval Bariya and Indrajit Gohil**
Robot System Integration

State Level Competition

JAN 2026



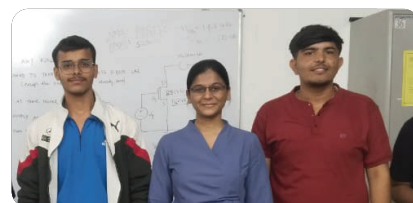
GOLD MEDAL WINNERS

- **Abhishek Jatav**
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Optoelectronics
- **Dhaval Bariya and Indrajit Gohil**
Robot System Integration

2025

Amalthea- A Tech Fest

NOV 2025



Won the first prize during Wire2Win competing against engineers from reputed institutions across India including IITs.

ABB Robocup

JULY 2025

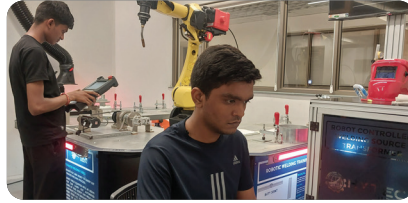


4 Students selected to participate ABB Robocup Italy.

2024

Fanuc India Olympiad

DEC 2024



Reached National round during Robotics competition against all engineering institution in India

Janatics Automation Challenge

SEP 2024



Our students Ankit won Silver, and Suman bagged the Best Project Presentation Award among 2,500 engineers nationwide.

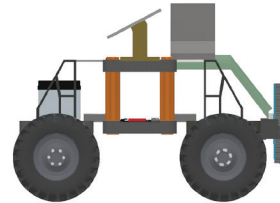
05

Our Patent

Solar Powered Seed Sowing Robot

Our iPTP students, along with the faculties got patent approval for their innovative design which focuses on a mobile robot that supports sustainable and automated agriculture by using solar power to perform seed sowing tasks with minimal human intervention. The structure was designed for efficiency, mobility, & adaptability to various terrains – ideal for small and medium-scale farms. Key features of the patented design:

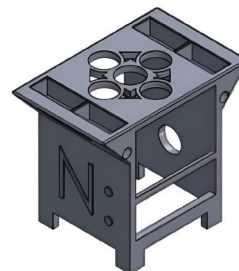
- Compact and lightweight body for smooth field movement
- Integrated solar panel system for clean energy operation
- Seed dispensing mechanism mounted on a mobile frame



Portable Microphone Stand

Designed by our iPTP students along with faculty members. "Portable Microphone Stand" is engineered as a compact, lightweight, modular support system capable of holding up to four microphones, and designed to provide stable microphone positioning while ensuring ease of transport, quick deployment, and user adaptability.

The design integrates mechanical stability, ergonomic adjustability, and modular construction to meet diverse usage scenarios such as stage performances, studio recording, and field applications.





Dishank Upadhyay

Assistant Professor

Ph.D. (Pursuing) | M.E. in
CAD/CAM & D.E. – Mechatronics



Prashant Parmar

Sr. Lecturer

Ph.D. (Pursuing) |
M.Tech in Mechatronics



Prasad Palkar

Sr. Lecturer

Ph.D. (Pursuing) | M.E. in CAD/CAM



Udayan Trivedi

Sr. Lecturer

Ph.D. (Pursuing) | M.Tech in
(Electronics, Instrumentation & Control)



Keyur Surati

Sr. Lecturer

Ph.D. (Pursuing),
M.E. in Machine Design



Gajanan Jadhav

Sr. Lecturer

Ph.D. (Pursuing) | M.E. in
Mechanical Engineering



Suraj Kamal

Sr. Lecturer

B.Tech in Electronics and
Communication Engineering



Yash Tank

Sr. Lecturer

M.Tech in Manufacturing
Engineering



Ujjaval Modi

Sr. Lecturer

Ph.D. (Pursuing) | M.E. in
Mechanical (CAD/CAM)



Ketu Antani

Sr. Lecturer

M.Sc. – Solid state Electronics



Jay Supat

Lecturer

M.Tech–Turbomachines



Jaya Vadhera
Head- Meta Skills

Bachelor's in Humanities, & Hospitality
Management
Certified: Happiness Practitioner | Life coach

Humane Ethical and Responsible Technologist (HEART) Program (Meta Skills)

The HEART program focuses on two key components: Social Betterment and Individual Excellence. The Individual Excellence component develops personal skills such as communication, leadership, and analytical thinking, preparing students for success in both personal and professional spheres. The Societal Betterment component fosters ethics, social responsibility, and critical thinking about societal issues. By combining these aspects, the HEART program aims to shape well-rounded, ethically grounded professionals who are equipped to lead with purpose and contribute positively to society.

These are not just skills, they are the catalysts of conscious innovation

Communication



Learn how to impactfully express and articulate your thoughts, while understanding the nuances of body language and confident self-presentation to transform every interaction into an opportunity to influence.

Teamwork and Collaboration



Become a great team player by understanding others' perspectives and working towards shared goals. Learn how to bring out the best in yourself and your teammates to achieve amazing results together.

Problem Solving & Critical Thinking



Develop the ability to break down complex problems, research thoroughly, and create practical solutions that make a real difference. Turn challenges into opportunities through systematic thinking.

Emotional Regulation



Get better at managing your feelings by knowing yourself deeply, understanding others' emotions, and staying open to learning from every experience. Build the emotional intelligence needed for personal and professional success.

Adaptability & Resilience



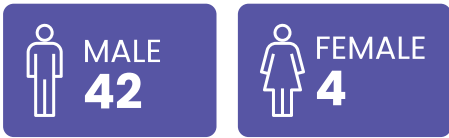
Build the strength to face any challenge by staying flexible, motivated, and balanced. Learn to take care of your mental and physical health while pursuing your goals, even when things get tough.

Job Readiness



Excel in group discussions and interviews by communicating your unique strengths effectively. Learn to showcase your abilities while staying true to yourself in professional settings.

100% Placement Achievement in First Two Batches...



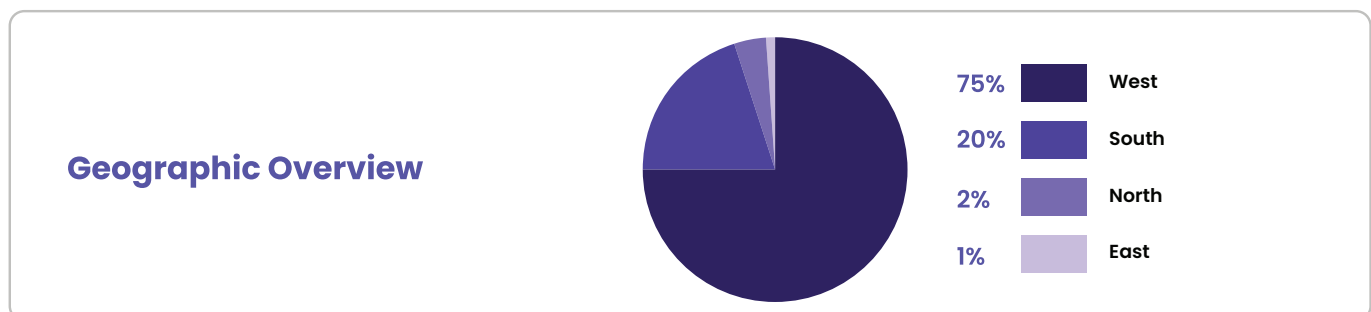
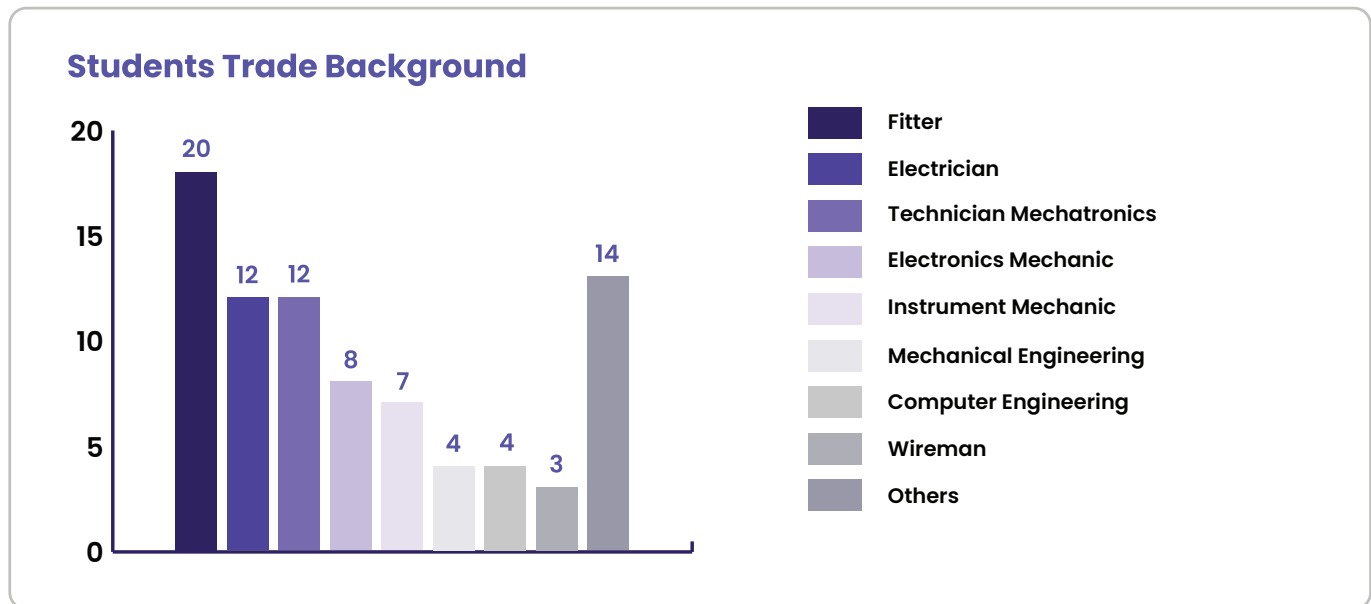
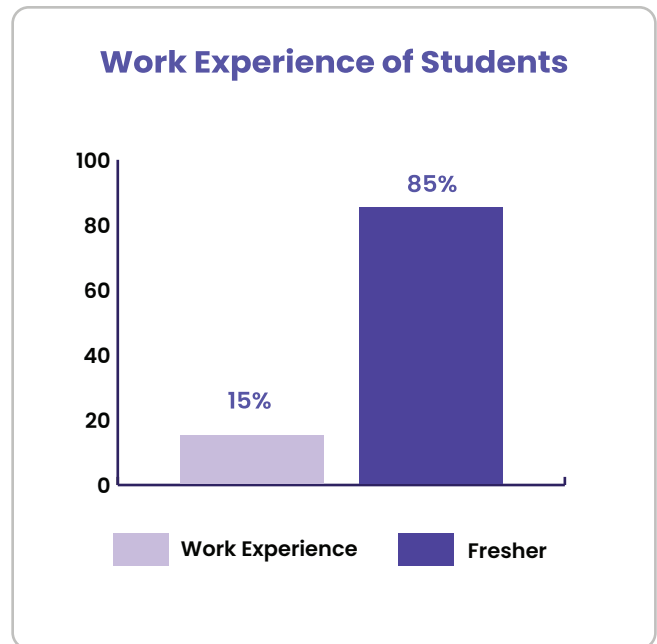
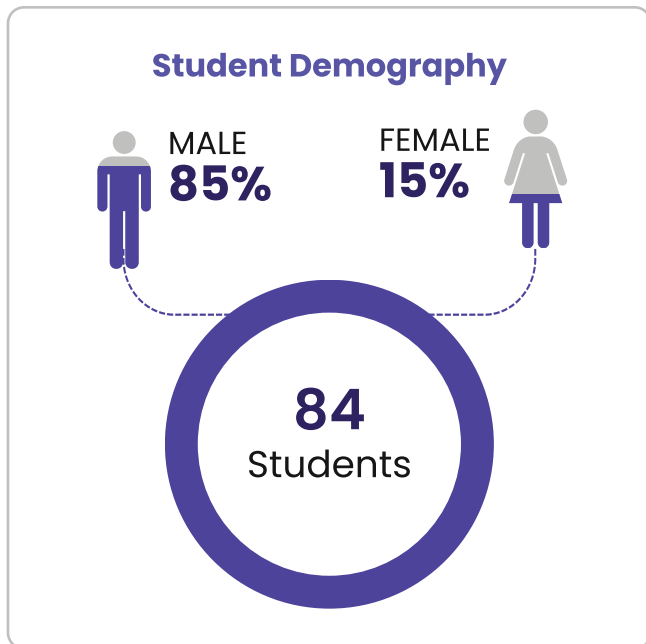
Highest Salary
₹5.91 LPA



Average CTC
₹3.46 LPA



Student Stats – Batch of 2025–26



Inspiring Student Journeys



My experience at NAMTECH has been truly transformative. The institute's commitment to excellence in technical education, combined with its industry-aligned curriculum, has significantly enhanced my practical skills and theoretical knowledge. The faculty members are not only highly experienced but also deeply supportive, always encouraging us to push boundaries & think innovatively.

State-of-the-art laboratories, hands-on training, and exposure to real-world industrial challenges have prepared me to confidently step into the professional world. NAMTECH doesn't just teach-it empowers students to become future-ready engineers and leaders.

Kathan Sankhvara., Gujarat
iPTP – Automation (Batch of April'24)
Diploma in Mechanical Engineering
Placed at MICRON



The iPTP-Automation course at NAMTECH has not only helped me gain knowledge in smart manufacturing but also enabled me to overcome my lack of confidence, especially in communication. With 80% hands-on learning and 20% theory, I gained expertise in CAD, pneumatics, robotics, PLC programming, 3D printing, and mechatronics, along with problem-solving skills.

A proud moment was winning a silver medal in a national competition against 2,000 participants, including B.Tech students. NAMTECH's expert mentorship, industry exposure, and world-class training have shaped my career in automation.

Aniket Jethva, Gujarat
iPTP Automation (Batch of April'24)
ITI – Fitter
Placed at MICRON



NAMTECH is a pioneering institute in industrial automation. Before joining, I had little practical experience. Now, I've mastered PLC programming, pneumatics, hydraulics, CPS, robotics, and additive manufacturing, all aligned with Industry 4.0 standards.

NAMTECH's experiential learning approach, cutting-edge labs, and expert faculty have transformed my technical abilities and confidence. This institute provided me with the tools and guidance to thrive in automation. I'm grateful to NAMTECH for preparing me for a successful career in smart manufacturing.

Shivam Kumar Sah, Jharkhand
iPTP Automation (Batch of April'24)
ITI – Electronics Mechanics
Placed at Micron



After completing my ITI in Architectural Draughtsman, I joined the iPTP-Automation course at NAMTECH. Coming from a non-technical background, I gained hands-on expertise in PLC programming, robotics, additive manufacturing, hydraulics, pneumatics, and Industry 4.0. The practical-focused curriculum, led by global experts, helped me win the Best Project presentation award in JANATICS, a national competition.

As a woman in manufacturing, I believe more women should explore automation careers. NAMTECH's inclusive learning environment empowers us to lead in the evolving world of smart manufacturing. Coming from an ITI background, gaining hands-on experience with NAMTECH's advanced automation tools has been truly commendable.

Suman Agrawal, Maharashtra
iPTP Automation (Batch of April'24)
ITI – Architectural Draughtsman
Placed at AM Construction

Admission Process

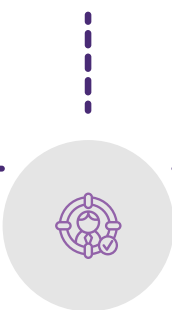
Step 1

Initiate application by registering online at admissions.namtech.ac & pay the application fee.



Step 3

Your application will be reviewed; if shortlisted, appear for an interview.



Step 5

Confirm your admission by timely payment of fees as specified.



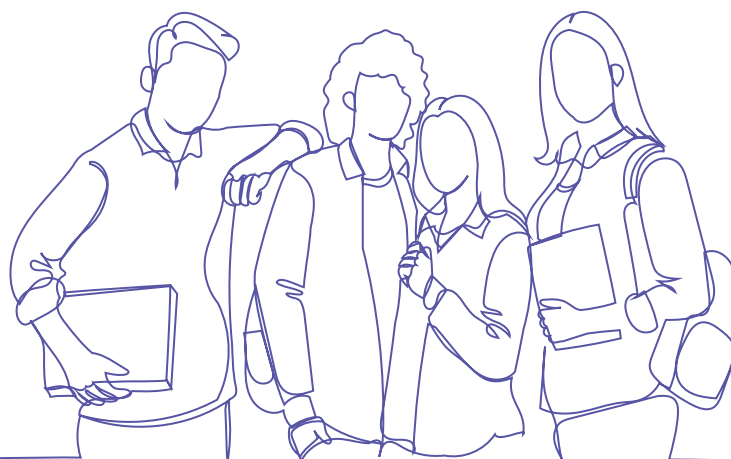
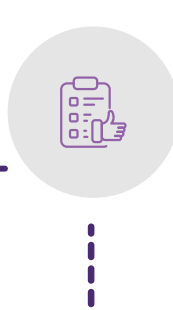
Step 2

Fill out the Application form and appear for online Aptitude test.



Step 4

If selected, you will receive the admission offer letter.



Fee and Scholarships

	Actual Fee (₹)	Fee Applicable (In INR, to be paid by candidates)
Academic fee	250,000	100% Scholarship (for Diploma, ITI and female students)
Hostel, food and transport charges	200,000	Diploma – 60,000 ITI – 30,000 All Female Students (Diploma & ITI) – 15,000
Total fees	450,000	Diploma – 60,000 ITI – 30,000 All Female Students – 15,000

Security Deposit

Refundable security deposit of ₹ 5000 at time of admission (refundable at end of the program)

Payment Schedule

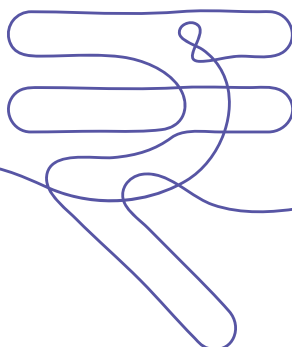
Fee payment to be done in two installments:

First installment: On admission

Second installment: End of second trimester

Inclusions

The program fee is inclusive of academic fee, hostel, food, and transportation charges for first 9 months.



Life at NAMTECH

Imparting Consciousness, Building Humane Capital



NAMTECH Campus

NAMTECH's final home is a smart campus that is currently under development on over 150 acres of land in Ahmedabad and will accommodate 12 competency Center, sports and recreation facilities, housing and more.

This new campus of NAMTECH is scheduled to be fully operational by June 2027.



*Disclaimer - Information listed is valid at the time of printing. | For the updated information, visit www.namtech.ac

Transitory Campus:

Research Park, IIT Gandhinagar, Palaj, Gandhinagar, Gujarat - 382055, India

www.namtech.ac | info@namtech.ac | +91-8799200600



Scan here
to apply