

The logo for NAM:TECH is centered within a large, thin purple circle. The text "NAM:TECH" is in a bold, dark blue, sans-serif font. Below it, the tagline "Institute of Manufacturing Innovation" is written in a smaller, dark blue, sans-serif font. The entire logo is set against a white background with several overlapping circles in purple and grey, and a thin purple arc at the top left.

**NAM:TECH**  
Institute of Manufacturing Innovation

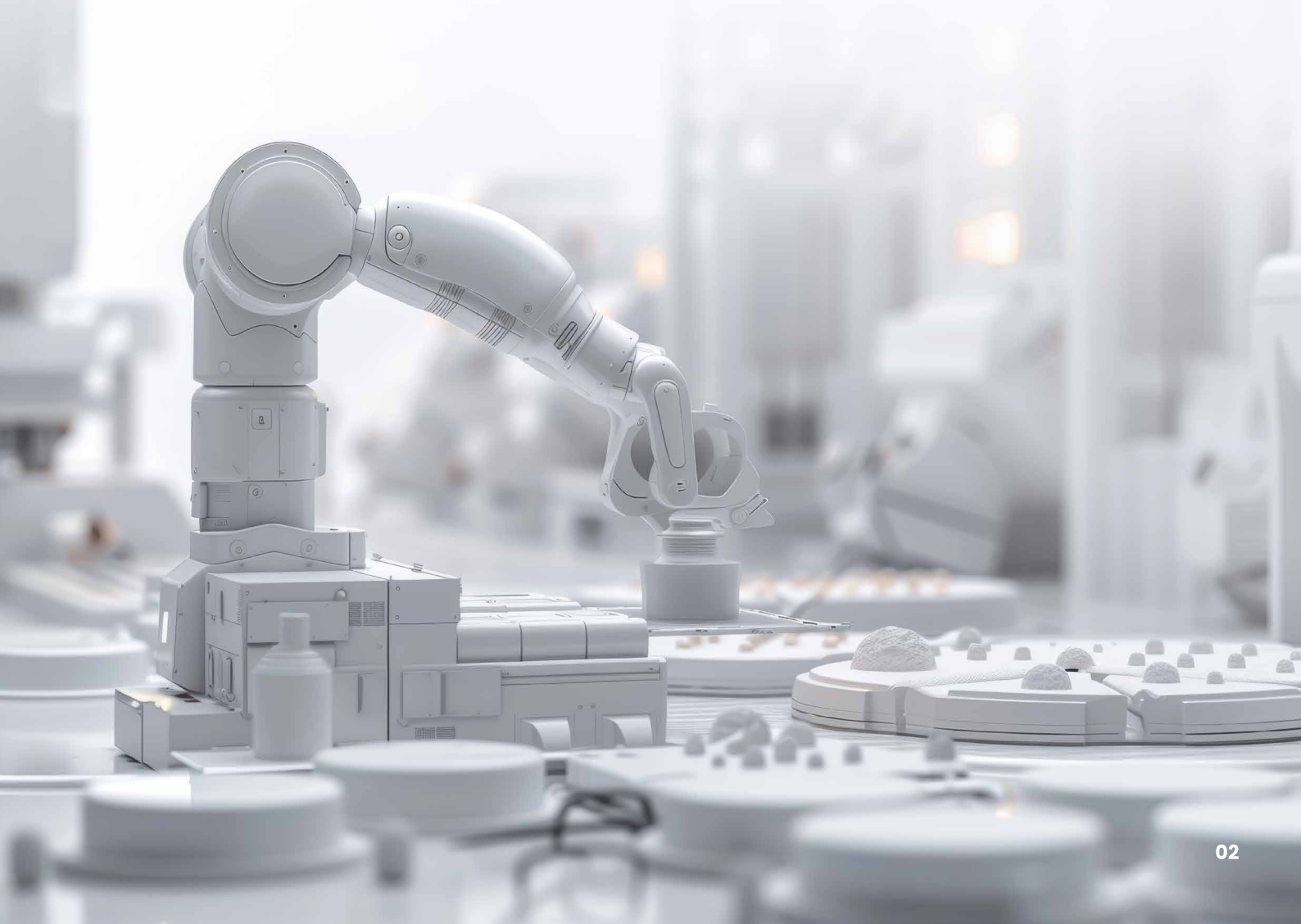
# Manufacturing Innovation is Fuelling India's Next Growth Wave

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.



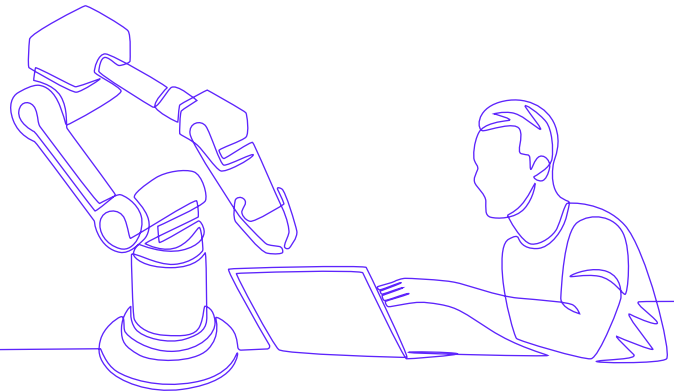
# Understanding Manufacturing Engineering & Technology (MET)

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.

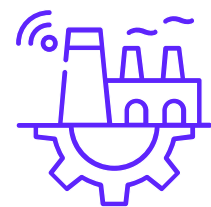


## MET includes the following focus sectors:

- 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





India's first MET Institution  
**Driving Manufacturing  
Innovation.**

# 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

*At NAMTECH, we're shaping the future of Manufacturing Engineering Technology (MET) - by developing leaders for India's manufacturing sector and pioneering knowledge that makes an impact.*

With the Government of India's Letter of Intent (LoI) provided by the University Grants Commission (UGC) recognizing us as a Deemed-to-be University under the Distinct Category, we join a select group of institutions committed to excellence in industry-academia collaboration.

This new distinction strengthens our leadership as India's 'Institute of Manufacturing Innovation' and enables the launch of dedicated, two-year Master programs.

NAMTECH is offering these are highly specialised master programs in Smart Manufacturing, Semiconductor Manufacturing, Automotive Engineering, Robotics, Sustainability & Data & AI.

Advancing towards our vision of training 3 million learners in Industry 4.0 & Industry 5.0 technologies, we also continue to empower professionals through the International Professional Technologist Program (IPTP), focusing on Automation, Industrial Robotics, and Semiconductors.

Construction for our new 150-acre campus in Ahmedabad has already begun, and it is designed to foster hands-on learning, cutting-edge research, and industry collaboration like never before.

As an institution designed to shape a generation of conscious innovators and industrial leaders ready to define the future, NAMTECH is your ideal launchpad.



Exceptionally Designed.  
**Uniquely Ahead.**

# Techno-Managerial Education, Reimagined

At NAMTECH, learning is more than just textbooks and lectures—it's about doing, experimenting, and thinking critically. Our approach combines hands-on projects, real-world problem solving, and collaborative learning, giving students the skills, mindset, and confidence they need to thrive in today's fast-evolving world. Here, we don't just teach concepts—we help students turn ideas into innovation.



## Flipped Classroom:

Emphasizing pre-class preparation, flipped classroom method that transforms classroom sessions into interactive spaces for analysis, discussion, and hands on learning.



## 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.



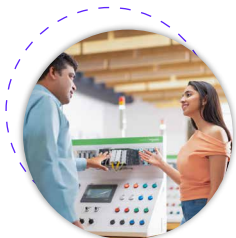
## Maker Mindset:

Aiming to instil a maker mindset in students, our pedagogy encourages them to explore, experiment and build solutions through practical work, empowering them to be creators rather than passive learners.



## 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.



## Industry Centred Learning:

Through regular interactions and close partnerships with leading industry players, our pedagogy creates an environment that closes the gap between academia and practical world.



## Experiential Learning:

Real world simulations, case studies, internships, and workshops ensure that learning is grounded in real world application.



## Capstone Projects:

Through industry partnered capstone projects, students transform real challenges into breakthrough solutions - showcasing innovation that catches employers' / investors' attention.



## Industry Co-developed & Co-delivered Programs:

By integrating the industry into the design, development, and delivery of our Master programs, our pedagogy aims to create an environment that bridges the industry academia gap.

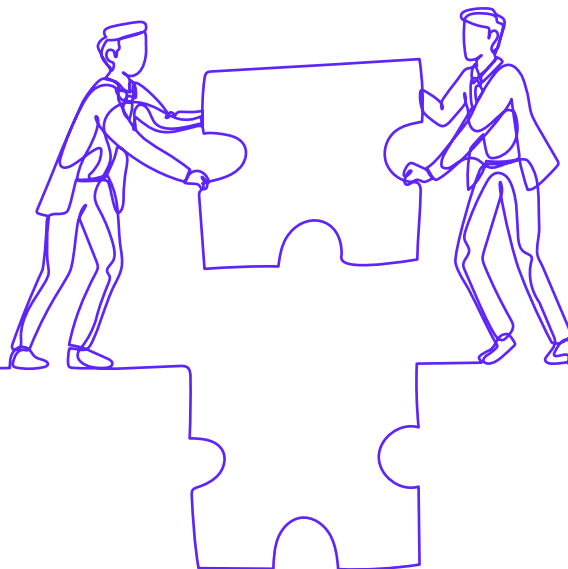


# Partnerships that Power Innovation

## Academic Partners



## Industry Partners



# Industry-Grade Equipment, On-Campus



## 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 setup covering 37 core skills set to prepare a World Class Engineer in the field of Industry 4.0.

## Industrial Robotics Lab

Integrated robots & cobots for various applications used in Welding, material handling, additive manufacturing etc.



## Industrial Automation Lab

Provides hands on training on Smart Sensor integration, Cyber Security and IOT protocols

## PLC, HMI & SCADA

Ensures students gain practical exposure on working with PLC, development of HMI & SCADA for Modern Industrial Applications.



## Precision Engineering & Additive Manufacturing

Ensures learning on Design for Manufacturing while using advanced 5 axis CNC Machines, Injection Moulding machine along with Additive Manufacturing technology both for Metal & Polymers.



# HEART

## Building Beyond Knowledge

The Humane Ethical & Responsible Technologist (HEART) HEART program focuses on two key components – **social betterment and individual excellence**. While the former develops personal skills such as communication, leadership, and analytical thinking, preparing students for success in both personal and professional spheres, the latter 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.

At NAMTECH, we shape your soft skills and personality so you can think, act, and innovate with purpose.

### 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.

# Sustainability Isn't a Practice It's Who We Are

Every technological breakthrough at NAMTECH carries Earth's signature. We don't just innovate; we ensure each solution catalyzes both progress and planet's well-being. From concept to creation, we engineer solutions that empower progress while protecting tomorrow's possibilities.

Here's how NAMTECH brings sustainability to life through its pedagogy

**01**

## **Sustainable Innovation Integration**

- Every technical module incorporates green manufacturing principles
- Design thinking focused on circular economy solutions
- Project assessments include environmental impact metrics
- Real-world applications of eco-friendly technologies

**02**

## **Green Technology Mastery**

- Hands-on experience with energy-efficient systems
- Smart resource Optimisation techniques
- Waste reduction and recycling methodologies
- Clean energy integration in manufacturing processes

**03**

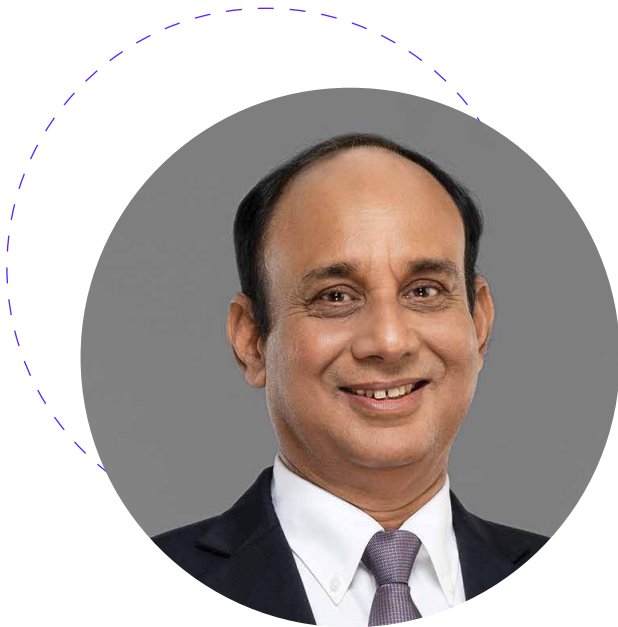
## **Environmental Leadership Development**

- Environmental impact analysis in every design decision
- Sustainable supply chain management principles
- Carbon footprint reduction strategies Industry partnerships focused on green manufacturing





MET  
**Innovation Schools**



***NAMTECH empowers future engineers to lead the Industry 4.0 revolution through innovation, intelligence, and hands-on learning.***

**Dr. Sanjeev Gupta**  
Dean, Academics

At NAMTECH, we are dedicated to shaping the leaders of tomorrow through innovative education and by equipping you with the skills and knowledge necessary to thrive in today's rapidly evolving technological landscape. Our competency-based Master Programs in **Smart Manufacturing and Management, Semiconductor Manufacturing, Robotics, Sustainability Engineering and Management** are designed not only to provide strong theoretical foundations but also to emphasize practical application through hands-on experiences and global academic and industry collaborations.

The **Smart Manufacturing and Management** program is designed to equip you with the strategic insights and technical expertise necessary to leverage cutting-edge technologies in manufacturing processes. Complementing this, **Semiconductor Manufacturing** program delves into the intricacies of one of the most critical industries driving technological advancement. Furthermore, the programs in **Robotics** and **Sustainability Engineering** and Management are intricately linked to these core areas. As industries increasingly adopt automation and robotics, the skills gained will enable you to implement intelligent systems that enhance productivity while ensuring sustainable practices.

At NAMTECH, you will be part of a vibrant community of faculty and industry experts who address real-world challenges. Together, we will explore new frontiers in Manufacturing Engineering and Technology (MET), and I am confident that your journey here will be transformative.



Redefining engineering education through creativity, impact, and excellence, NAMTECH MET Innovation Schools cultivate a cadre of conscious technologists. Designed for problem-solvers and innovators, they equip students with future-ready skills in advanced manufacturing, human-centric design, and sustainability, preparing learners to thrive in a rapidly evolving, technology-driven world.

1

### School of Manufacturing Technologies

Integration of advanced digital technologies such as IIoT, AI, and automation with traditional manufacturing processes and management

**Key focus areas:**

- Smart Manufacturing
- AI & IIOT in Manufacturing
- Digital Twins & AR/VR
- Smart Automotive Systems
- Smart Maintenance & Operational Excellence
- World Skills Industry 4.0

2

### School of Manufacturing Design & AI

Merging human creativity with AI to revolutionize manufacturing design

**Key focus areas:**

- Semiconductor Manufacturing
- AI in Manufacturing
- Cybersecurity
- Smart Materials

3

### School of Robotics

Preparing students for the future of automatic while creating collaborative robotic ecosystems that amplify human potential

**Key focus areas:**

- Industrial Robotics
- Advanced Mobile Robotics
- Legged Robotics
- HRI

4

### School of Sustainability

Engineering a greener tomorrow to reduce India's carbon footprint through conscious technological innovation

**Key focus areas:**

- Circular Economy
- Sustainable Energy
- Sustainable Urban Infrastructure



## School of Manufacturing Technologies

Building the foundations of India's manufacturing renaissance by merging IoT-driven precision with scalable automation.

NAMTECH's School of Manufacturing Technologies leads Industry 4.0—where AI drives automation, IoT enables prediction, and Digital Twins power real-time optimization. Through AR/VR/XR training and Smart Supply Chain systems, we promote agility, intelligence, and sustainability. From automation to semiconductors and advanced materials, we integrate Operational and Information Technologies into a unified, data-driven ecosystem. WorldSkills-aligned labs offer hands-on learning in Additive Manufacturing, Mechatronics, Robotics, and Smart Automation, with Cloud Computing and Cybersecurity driving innovation and excellence. We offer a Master Program in Smart Manufacturing Technology & Management, Executive and Faculty Programs, and a WorldSkills Center for global talent. At NAMTECH, we shape the intelligent future of industry through innovation and integration.



**Dr. Velagapudi Vasu**  
Program Director,  
School of Manufacturing Technologies

At NAMTECH's **School of Manufacturing Technologies**, we nurture engineers to lead India's journey toward Atmanirbhar Bharat and global manufacturing excellence. As India aims to raise manufacturing's GDP share from 16% to 30% by 2047, the need for skilled professionals in **automation, AI, and digital manufacturing** is critical.

Our **Master program in Smart Manufacturing Technology and Management**, co-designed with the **Technical University of Munich (TUM)** and inspired by MIT's **Design for Manufacturing**, blends innovation with real-world application. It offers a global perspective on **product design, prototyping, and scalable manufacturing**.

Through hands-on learning in **Industry 4.0 mini-factories, IIoT, robotics, automation, and AI-enabled systems**, students bridge theory with practice to become future-ready leaders in the **Manufacturing, Engineering, and Technology (MET)** ecosystem. **Advanced labs in Additive Manufacturing, Precision Tools, Welding 4.0, and AR/VR-based learning** further strengthen experiential training.

NAMTECH stands as a hub where **technology, creativity, and purpose** redefine modern manufacturing. Our graduates don't just embrace change—they **lead it**, building intelligent, sustainable, and connected factories shaping the future of global industry.

Together, we are engineering the future of manufacturing.

# Master Program in Smart Manufacturing Technology and Management

The Master Program in Smart Manufacturing Technology and Management at NAMTECH is a two-year, fully residential program designed to develop industry-ready tech leaders on smart and intelligent manufacturing technologies.

The program provides access to WorldSkills-aligned Industry 4.0 laboratories that offer cutting-edge training in Additive Manufacturing, Mechatronics, Industrial Robotics, and Smart Automation Systems, while embedding Cloud Computing, Artificial Intelligence (AI), Cybersecurity, and other enabling Industry 4.0 technologies into every learning experience.

These advanced facilities empower learners to gain hands-on experience on globally benchmarked platforms and to excel in national and international competitions, fostering innovation, teamwork, and real-world problem-solving excellence.

## Eligibility Criteria

- Graduate/Final Year B.Tech./B.E. students in Mechanical, Electrical, Electronics, Electrical & Electronics, Instrumentation & Control, Mechatronics, Metallurgy, Industrial, Production, Material Science, Data Science & AI, Automobile, Aeronautical, Computer Science & IT or equivalent (All backlogs should have been cleared by 6th Semester).
- Minimum 60% in 10th, 12th and Graduation.
- A score in CAT/ XAT/GMAT/GRE/GATE is preferred.

## Curriculum

### Semester 01

- Design for Manufacturing (2.008N)
- Mechatronic Systems Design
- Advance Material Processing Technologies
- IIOT, Cloud & Edge Computing
- Essentials of Smart Manufacturing & Finance Management
- Modelling & Simulation of Manufacturing Systems
- Professional Skills : Design Thinking

### Semester 02

- PLC, HMI, Industrial Networks
- AI and Data Analytics for Manufacturing
- Electrical Drives & Motor control
- Green Supply Chain, Logistics & BlockChain
- Project Management and PLM
- Operational Excellence and Smart Maintenance
- Professional Skills : Product Design

### Semester 03

- Process Automation
- Cyber Physical Systems, Cybersecurity and MES Applications
- Digital Twin and Immersive Technologies for Manufacturing
- Integrated Additive & Robotics Engineering
- Environmental, Health, Safety and Sustainability
- Capstone Project (A)

### Semester 04

- Capstone Project (B)

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#### Certification

TUM Asia, Singapore & NAMTECH India

#### Scholarship

Merit based scholarship available

#### Batch Start Date

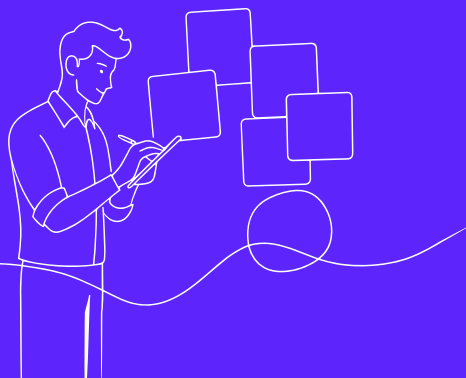
3rd August 2026

#### Duration

2 Years Full Time, Residential



Scan here to apply



# MIT's 2.008 Yo-Yo Program

## Customized for NAMTECH

The MIT **2.008 N Yo-Yo** Program is a specialised, hands-on learning experience designed to equip NAMTECH students with a deep understanding of **manufacturing processes, design for Manufacturing and product realisation**. Originally developed as part of the prestigious Massachusetts Institute of Technology (MIT's) core manufacturing engineering (MEng) curriculum, this program has been customized for NAMTECH to align with **Industry 4.0 and advanced manufacturing technologies**.

### Program Objectives

Provide a practical, **project-based learning experience** in manufacturing engineering.

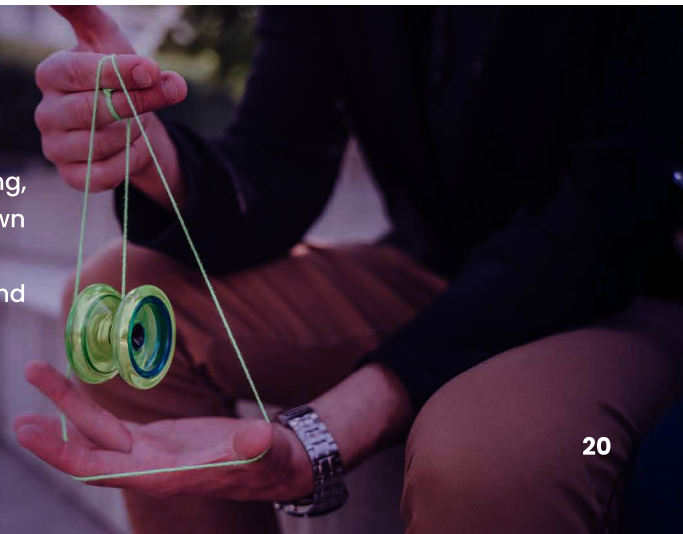
- Develop competencies in **process planning, material selection, and cost estimation**.
- Introduction to **Computer Aided Design & Manufacturing (CAD/CAM), Injection Moulding and Manufacturing Quality Control**
- Encourage a **data-driven approach** to improving manufacturing efficiency and sustainability.
- Promote collaboration through **team-based product development**.

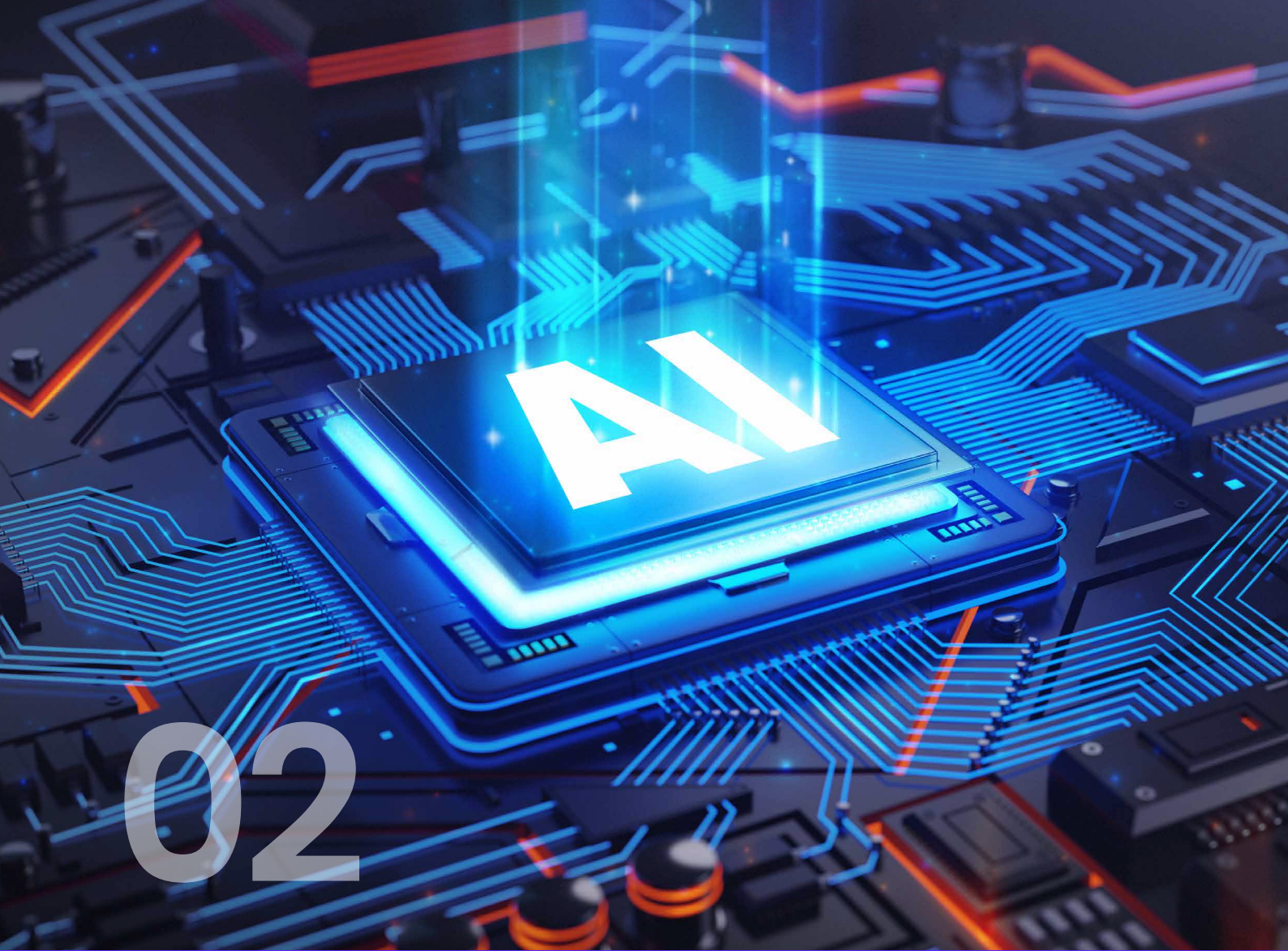
### Key Topics Covered

- **Design & Engineering Fundamentals**  
Understanding product design principles and manufacturing constraints.
- **Material Science & Selection**  
Exploring material properties and their impact on manufacturing.
- **Process Optimisation**  
Hands-on training in mould design, 3D printing, CNC machining, and automation.
- **Production & Assembly**  
Applying lean manufacturing techniques for efficient production.
- **Quality & Sustainability**  
Implementing Six Sigma principles and sustainable manufacturing practices.

### Why the Yo-Yo?

The Yo-Yo serve as an Experiential Learning Model due to its multi-component structure, requiring design for manufacturing, precision machining and quality control. By producing their own Yo-Yo, students experience **the entire product lifecycle**, from design to final production, bridging the gap between theory and real-world application.





02

## **School of Manufacturing Design & AI**

From silicon to systems — integrating semiconductor excellence and manufacturing design to create next-generation technologies.

The School of Manufacturing Design & AI shapes the next generation of professionals at the intersection of advanced manufacturing, intelligent systems, and emerging technologies.

Our pioneering semiconductor manufacturing program—one of the first in India—aligns with the nation’s growing semiconductor ecosystem, covering fabrication, modelling, and packaging with hands-on training developed in consultation with 20+ industries and academic partners.

With more cutting-edge programs to follow, our mission is to bring industry to our doorstep and prepare students to lead India’s technological self-reliance and global advancement.



**Dr. Rajagopalan Pandey**  
Associate Professor & Program Lead  
School of Manufacturing Design & AI

Welcome to the School of Manufacturing Design & AI at NAMTECH. Our journey started with India’s drive to become a leader in advanced manufacturing and new technologies. We’ve partnered with top universities around the world and are working closely with both domestic and international industry leaders. Together, we’re building an environment where innovative research, modern facilities, and practical challenges come together. Our program, the Master Program in Semiconductor Manufacturing Technology and Management, reflects what we aim to achieve. This program was created to help address India’s need for skilled semiconductor professionals. We designed the curriculum with leading global semiconductor companies so that students receive the most relevant and up-to-date education.

Students learn everything they need to know about the semiconductor industry from start to finish, so they are ready to join the workforce right away. Our faculty includes renowned academic experts and experienced professionals from top universities and leading semiconductor companies worldwide. We are also building advanced semiconductor labs and pilot manufacturing spaces where students can work on real industry problems through hands-on learning and applied research. And we’re just getting started. As we expand into new areas such as manufacturing, design, and AI, our promise remains the same: to create a dynamic learning environment where education meets industry, and to help students become professionals who not only join industries but also transform them.

# Master Program in Semiconductor Manufacturing Technology and Management

Semiconductor Manufacturing Technology and Management is a fully residential, 2- year master program offered by NAMTECH in collaboration with Technical University of Munich (TUM) Asia, Singapore.

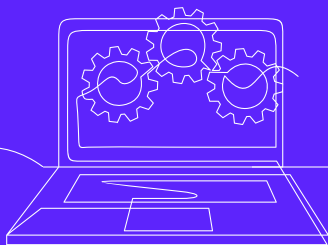
The course build on the foundation provided by a B.E./B.Tech degree, offering a curriculum that is grounded in actual semiconductor job roles catering to evolving ecosystem in India and abroad.

It integrates immersion opportunities at world class cleanrooms, real-industry driven projects, advanced competencies, and theories to create future engineers.

Starting with this batch, we will be preparing our students to excel in dynamic, highly competitive, and specialised semiconductor industries, preparing them to tackle future challenges with foresight and expertise.

## Eligibility Criteria

- Graduate/Final Year B.Tech./B.E. students in Mechanical, Electrical, Electronics, Electrical & Electronics, Instrumentation & Control, Mechatronics, Metallurgy, Industrial, Production, Material Science, Electronics and Communications, Engineering Physics, Nanotechnology or M.Sc Physics/Electronics/Material Science (All backlogs should have been cleared by 6th Semester).
- Minimum 60% in 10th, 12th and Graduation.
- A score in CAT/ XAT/GMAT/GRE/GATE is preferred.



## Curriculum

### Semester 01

- IC Fabrication Technology & Characterization
- Semiconductor Plant Engineering
- Fundamentals of Semiconductor Devices
- Semiconductor Assembly and Packaging
- Vacuum technology
- Solar Photovoltaics and Introductory Optoelectronics
- Professional Skills - 1

### Semester 02

- Semiconductor Testing
- Yield Engineering
- Packaging Design & Modelling
- Foundation of Python Programming & Statistics
- Reliability, Quality & DoE
- AI in Semiconductors
- Professional Skills - 2

### Semester 03

- Factory Automation
- EHS & Sustainability
- Operational Excellence & Supply Chain Management
- IC Board Assembly & PCB manufacturing
- Capstone Project (A)

### Semester 04

- Capstone Project (B)

**Certification**  
TUM Asia, Singapore &  
NAMTECH India

**Scholarship**  
Merit based  
scholarship available

**Batch Start Date**  
3rd August 2026

**Duration**  
2 Years Full Time, Residential



Scan here  
to apply



03

## School of Robotics

Engineering collaboration between humans and robots to create smarter, safer, and more adaptive industries.

School of Robotics offers interdisciplinary programs that equip students with the skills to design, develop, and operate robotic systems. The curriculum prepares students to develop and manage robotic systems for sectors like manufacturing, warehousing, healthcare and defence. Indicative courses include Robot Kinematics, Dynamics, Control systems, Human-Robot Interaction, and AI in Robotics. Students also receive hands-on training with robotic equipment to master hardware interfacing, control strategies and AI/ML applications. The School of Robotics at NAMTECH is dedicated to shaping the future of robotics and automation through innovative education and strategic industry collaboration.



**Dr. Ekta Singla**  
Associate Director,  
School of Robotics

Warm welcome to the School of Robotics at NAMTECH, Gandhinagar!

We are proud to be pioneering in interdisciplinary education in Robotics, offering experiential platforms and computational learnings in Robotic Manipulation, Autonomous Mobile Robots, Aerial Systems, and upcoming labs on Warehouse Robotics Interfaces.

At SoR, we believe in balancing theoretical foundations with hands-on practical experience, empowering you to excel in the world of Robotics. Our commitment is to provide experiential learning platforms that foster interest, creativity and applications into real-world problems.

With the growing research interests, industrial requirements and physical AI applications, it is extremely important to adopt an interdisciplinary approach. SoR is committed to provide state-of-the-art infrastructure and equipment, industrial and international partners and focus on translational research and innovation.

Join us in carving out a world-class Robotics Institute of India.

# Master Program in Robotics Engineering and Management

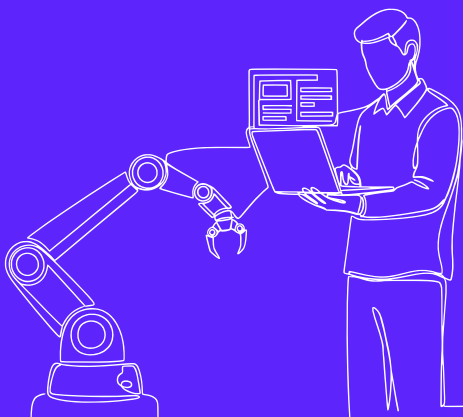
The Master Program in Robotics Engineering and Management is a two-year residential Program by NAMTECH, in collaboration with TUM Asia, Singapore. Designed for B.E./B-Tech. Graduates, it offers an Industry 4.0-aligned curriculum that integrates hands-on projects, technical skills, and theory to develop innovation leaders and technopreneurs in robotics and automation.

With an experiential, interdisciplinary, and industry-aligned approach, we equip students with the technical expertise, innovation mindset, and business acumen needed to excel in robotics across manufacturing, healthcare, logistics, and autonomous systems.

With cutting-edge labs, industry mentorship, and real-world problem-solving, students gain expertise in AI-driven robotics, autonomous systems, and industrial automation. The Program fosters an entrepreneurial mindset, equipping graduates for global tech firms, deep-tech startups, or their own ventures.

## Eligibility Criteria

- Graduate/Final Year B.Tech./B.E. students in Mechanical, Electrical, Electronics, Electrical & Electronics, Instrumentation & Control, Mechatronics, Robotics, Industrial Engineering, Automobile, Aeronautical, Computer Science & IT (All backlogs should have been cleared by 6th Semester).
- Minimum 60% in 10th, 12th and Graduation.
- A score in CAT/ XAT/GMAT/GRE/GATE is preferred.



## Curriculum

### Semester 01

- Mathematical Modelling Techniques
- Industrial Robotics Systems
- Sensors and Actuators
- Multi-Body Dynamics
- Computer Vision and AI
- Industrial Controllers and IoT
- Professional Skills - 1

### Semester 02

- Advanced Control
- Python programming and ROS
- Robot Kinematics and Dynamics
- Aerial Robotics
- Management Course - I
- Human-Robot Interaction
- Professional Skills - 2

### Semester 03

- Warehouse Robotics Planning and Control
- Intelligent Systems
- Digital Twins in Robotics
- Management Course - II
- Capstone Project (A)

### Semester 04

- Capstone Project (B)

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#### Certification

TUM Asia, Singapore & NAMTECH India

#### Scholarship

Merit based scholarship available

#### Batch Start Date

3rd August 2026

#### Duration

2 Years Full Time, Residential



Scan here  
to apply



## School of Sustainability

Committed to producing sustainability professionals through experiential learning, driving innovation for empowering India's industries towards sustainability pathways.

At NAMTECH's School of Sustainability, learners are equipped to lead transformative changes through technology, innovation, and responsible design. Our programs train future leaders to harness AI, digital tools, and advanced manufacturing systems to drive sustainability, reduce environmental impact, and implement ESG frameworks across industries.

Through a hands-on approach that integrates policy, technology, and impact, students learn how to design solutions that build a greener, more resilient world.



**Dr. Ibrahim Hafeezur Rehman**

Dean, Academic Advancement,  
Research and Consultancy;  
Director, School of Sustainability

We are committed to developing the next generation of sustainability-focused leaders, equipped with the digital tools and AI skills needed to drive India's transition to a greener economy.

With the country aiming to create millions of jobs through advancements in renewable energy, climate-resilient urban development, and circular economy practices, the NAMTECH School of Sustainability focuses on producing professionals skilled in advanced manufacturing, industrial sustainability, and ESG mandates.

Our immersive, application-based curriculum blends traditional values and cutting-edge technologies with sustainable energy and circularity as drivers for smart manufacturing and infrastructure development.

The curriculum integrates best practices in sustainable operations and innovation, equipping graduates to drive change towards eco-friendly, next-generation industries and infrastructure.

# Master Program in Sustainability Engineering and Management

The Master Program in Sustainability Engineering and Management at NAMTECH is a two-year residential program that develops industry-ready leaders for sustainable transformation in manufacturing.

Created in collaboration with KPMG in India and Technical University of Munich (TUM), Asia, it combines advanced manufacturing with ESG, circular economy, and climate innovation. Participants gain practical skills in sustainable design, decarbonization, and smart manufacturing.

Emphasizing hands-on learning and industry collaboration, the program equips professionals to solve real-world sustainability challenges aligned with global standards and leadership demands.

## Eligibility Criteria

- Graduate/Final Year B.Tech./B.E. students in Civil Engineering, Chemical Engineering, Energy Systems Engineering, Environmental Engineering, Electrical Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Material Science Engineering, Metallurgy Engineering, Petroleum Engineering, Architecture, Industrial Design or Master in Science/Math (All backlogs should have been cleared by 6th Semester).
- Minimum 60% in 10th, 12th and Graduation.
- A score in CAT/ XAT/GMAT/GRE/GATE is preferred.



## Curriculum

### Semester 01

- Digital Platforms for ESG –Reporting, Measurement and Certification
- Industrial Emission Modelling & Decarbonization Pathways
- LCA & Circular Economy – Digital Tools
- Smart HSE systems
- Sustainable Finance
- Capstone Project (A)
- Professional Skills I – Research Methods & Communication

### Semester 02

- Renewable Energy & Sustainability Strategies for Conventional Energy
- AI and Simulation for Energy Conversion Systems
- Energy Storage and Management Solutions
- AI-Driven Strategy & Operations Management for Sustainable Production
- Sustainability Law, Policies and Regulations
- Professional Skills II – Leadership & Strategic Thinking
- Summer Internship in Industry

### Semester 03

- Industrial Water Management Technologies
- Sustainable Infrastructure, Transport and Value Chains
- Industrial Circularity Innovation Pathways
- Systems Thinking, Project Management & Risk Analysis
- Marketing (Digital & Conventional) Strategy & Sustainability
- Environmental and Resource Economics
- Professional Skills III

### Semester 04

- Industrial Capstone Project

**Certification**  
TUM Asia, Singapore & NAMTECH India

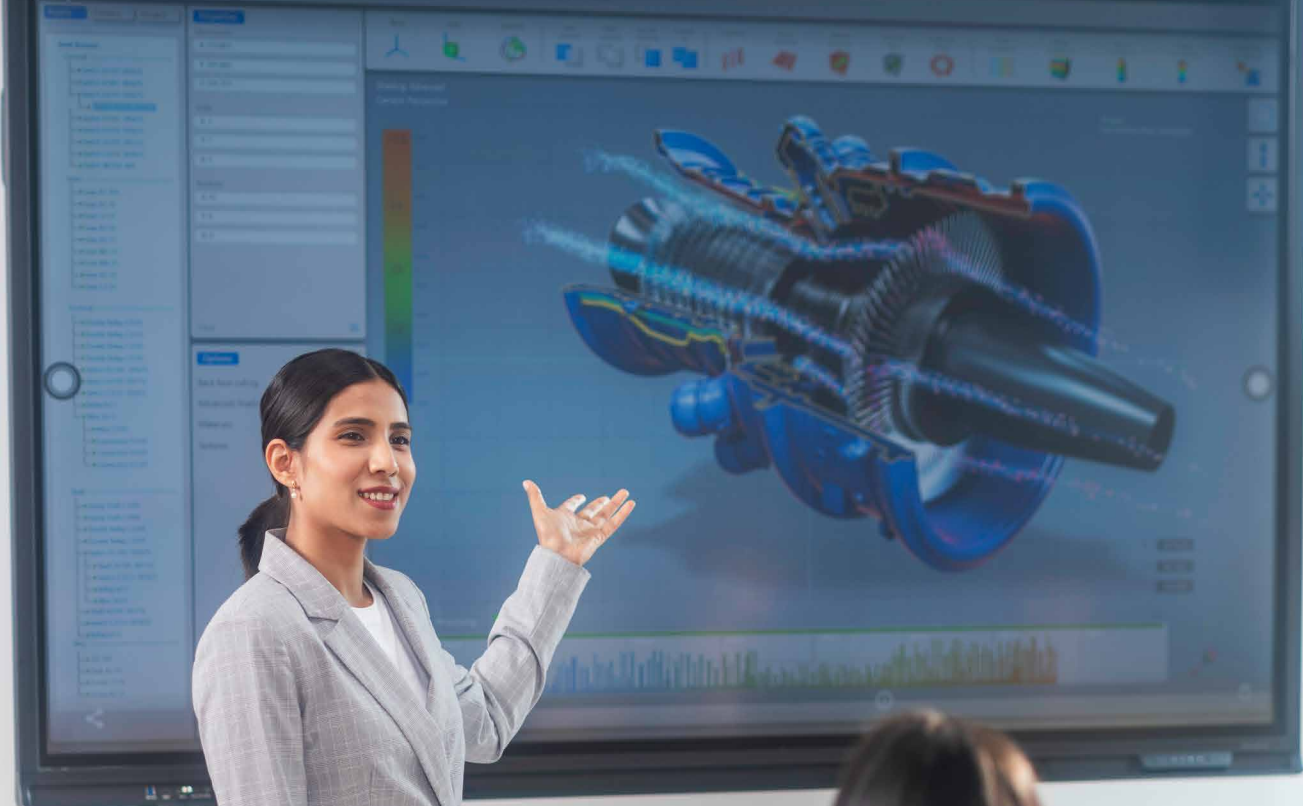
**Scholarship**  
Merit based scholarship available

**Batch Start Date**  
3rd August 2026

**Duration**  
2 Years Full Time, Residential



Scan here to apply



**MET  
Innovation Center**



MET Innovation Center at NAMTECH are multidisciplinary platforms dedicated to advancing innovation through translational research, technology integration, and industry partnerships. They nurture a culture of inquiry and excellence, enabling learners and professionals to pioneer solutions for tomorrow's global challenges.

1

### Center of Excellence in Automotive Engineering

The COE in Automotive Engineering equips students with hands-on experience and advanced skills to innovate and engineer the vehicles of tomorrow.

2

### Center of Advanced Computing & AI

The Center of Advanced Computing & AI pioneers innovation in intelligent systems, big data, and AI-driven technologies to shape the future of smart industries and digital transformation.

3

### Center of Management Studies

The Center of Management Studies fosters managerial acumen and core modules in project & operational management to develop future-ready techno-managers.



## Center of Excellence in Automotive Engineering

From silicon to systems — integrating Automotive Engineering to create next-generation technologies.

NAMTECH's Automotive Center of Excellence (CoE) serves as a hub for innovation, research and skill development in Automotive Technology including IC Engines, Electric Vehicles and Hydrogen & Fuel Cell powered vehicles. It focuses on advancing areas such as Electric Mobility, Alternate Fuels, Emission Control, Smart Manufacturing, ACES, ADAS, SDVs, Sustainable Materials and management subjects to bridge the gap between academia and industry, driving cutting-edge solutions for the evolving automotive ecosystem. The Automotive CoE at NAMTECH offers 2-Years Master Program in Automotive Technology and Management, designed to create industry-ready professionals & entrepreneurs.



**Dr. Kamalkishore Vora**  
Program Director,  
Center of Excellence in Automotive  
Engineering

The automotive industry stands at the threshold of a profound transformation—driven by electrification, connectivity, automation and sustainability. At the Automotive Center of Excellence (Auto CoE) NAMTECH, we are committed to shaping this transformation by nurturing future-ready engineers and innovators equipped with the skills and mindset needed for the new mobility era.

Our Center integrates advanced engineering education, applied research and industry collaboration to create a vibrant ecosystem for learning and innovation. From next-generation vehicle technologies, intelligent manufacturing and alternative fuels to digital design, AI-driven diagnostics and sustainable mobility solutions, our initiatives aim to reimagine automotive engineering for a cleaner and smarter future.

In line with NAMTECH's vision of cultivating Conscious technologist, the Automotive CoE emphasizes not only technological excellence but also ethical responsibility, sustainability and human-centric innovation. We believe in learning by doing—through hands-on laboratories, collaborative projects with industry and participation in global skill competitions and research challenges.

As India accelerates toward becoming a global mobility hub under Viksit Bharat 2047, our mission is to prepare the next generation of engineers to lead with purpose—creating technologies that empower people, respect the planet and define the future of mobility.

Let us drive this transformation together—innovating, collaborating and building a sustainable automotive future.

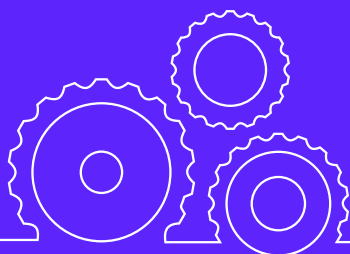
# Master Program in Automotive Technology and Management

The Master Program in Automotive Technology and Management is a two-year residential program, designed to cultivate industry-ready professionals who can make an immediate impact in Automotive Engineering, Technology and Management domains. The curriculum for this program is being developed with the support of CAAR (Center for Advanced Automotive Research) at IIT Madras and leading automotive industry experts. The laboratories are being built in collaboration with Automotive research and testing institutes. NAMTECH is also building up an experience Center and mini factory to provide hands-on experience in battery manufacturing and vehicle manufacturing.

The students will have immersion programs in various automotive test agencies, as well as 2-wheeler and 4-wheeler manufacturing companies and their vendors. NAMTECH has signed MoU with Gravton Motors, Hyderabad, for the student immersion. With a strong focus on industry collaboration, emerging technologies and experiential learning, the program equips students and professionals for leadership roles in Automotive Design and Manufacturing. Students also have an opportunity to participate in global competitions such as WorldSkills and BAJA SAEINDIA enhancing their foresight, expertise and real-world problem-solving abilities in Automotive domains.

## Eligibility Criteria

- Graduate/Final Year B.Tech./B.E. students in Mechanical, Electrical, Electronics, Electrical & Electronics, Instrumentation & Control, Mechatronics, Metallurgy, Industrial, Production, Material Science, Automobile, Aeronautical, Computer Science & IT (All backlogs should have been cleared by 6th Semester).
- Minimum 60% in 10th, 12th and Graduation.
- A score in CAT/ XAT/GMAT/GRE/GATE is preferred.



## Curriculum

### Semester 01

- Automotive Engineering Systems (including Engine)
- Automotive Materials & Manufacturing
- Automotive Electrical & Electronic Systems
- Automotive Fuels & Emission
- New Product Development/AI & Data Analytics (Electives)
- Leadership Strategies of Smart Manufacturing & Finance Management
- Professional Skills - 1

### Semester 02

- Automotive System Design (Including Engine)
- Design for Manufacturing (2.008N)
- Smart Automotive Manufacturing and Mini Factory
- Legal, Environmental, Health, Safety and Sustainability
- Green Supply Chain, Logistics and Blockchain
- Project Management and Product Lifecycle Management
- Operational Excellence and Smart Maintenance
- Professional Skills - 2

### Semester 03

- Hybrid & Electric vehicles
- Noise, Vibration & Harshness (NVH)
- ADAS & Autonomous Vehicles
- Automotive CyberSecurity
- Automotive Testing and Certification (Incl Crash, Photometry & EMC)

### Semester 04

- Capstone Project

**Certification**  
TUM Asia, Singapore & NAMTECH India

**Scholarship**  
Merit based scholarship available

**Batch Start Date**  
3rd August 2026

**Duration**  
2 Years Full Time, Residential



Scan here to apply



## Center of Advanced Computing & AI

The Master Program in Data Analytics & Artificial Intelligence is designed in response to the accelerating global shift toward data-driven decision making, automation, and intelligent digital transformation across various sectors.

Industries worldwide, specially manufacturing, engineering, and technology, are moving towards Industry 4.0 and emerging Industry 5.0 paradigms, where real-time analytics, predictive intelligence, autonomous systems, and human-AI collaboration are becoming foundational capabilities rather than optional competencies.

Massive growth in machine data, IoT systems, cloud computing, and cyber-physical systems has created a demand for professionals who not only understand AI algorithms but also can apply them meaningfully in operational, industrial, and engineering contexts.



**Mr. Sankata Tiwari**  
Senior Lecturer

Across various sectors—particularly in manufacturing, engineering, and technology—the transition toward Industry 4.0 and the emerging paradigm of Industry 5.0 has transformed real-time analytics, predictive intelligence, autonomous systems, and human-AI collaboration into critical competencies rather than optional skills. The rapid proliferation of machine data, Internet of Things (IoT) networks, cloud infrastructures, and cyber-physical systems has created an increasing demand for professionals who possess a comprehensive understanding of AI and data science, coupled with the ability to effectively apply these skills in operational, industrial, and engineering contexts.

The Center of Advanced Computing & AI at NAMTECH is actively contributing to this momentum. We have established partnerships with leading global universities and collaborate closely with technology companies to create an environment that bridges robust academic foundations and practical problem-solving. Our Master Program in Data Analytics & Artificial Intelligence program embodies this ambitious mission. Crafted with input from industry leaders, the program equips students with essential skills to deeply analyze data, design intelligent systems, and responsibly deploy AI at scale. Covering topics from data engineering and machine learning to ethics, systems design, and domain-specific applications, our curriculum ensures that graduates are well-prepared to enter the workforce with confidence.

Students benefit from a diverse educational experience, engaging with esteemed academicians and industry professionals. They engage in hands-on learning within advanced computing laboratories, cloud environments, and applied research facilities that reflect real-world industry challenges. This is merely the beginning. As we venture further into intelligent systems, computational sciences, and applied AI, our commitment remains steadfast: to provide education that aligns with industry needs and to cultivate professionals capable of leading and shaping the future of data and AI.

# Master Program in Data Analytics & Artificial Intelligence

Master Program in Data Analytics & Artificial Intelligence is designed in response to the accelerating global shift toward data-driven decision making, automation, and intelligent digital transformation across various sectors.

Industries worldwide, specially manufacturing, engineering, and technology, are moving towards Industry 4.0 and emerging Industry 5.0 paradigms, where real-time analytics, predictive intelligence, autonomous systems, and human-AI collaboration are becoming foundational capabilities rather than optional competencies.

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- Minimum 60% in 10th, 12th and Graduation.
- A score in CAT/ XAT/GMAT/GRE/GATE is preferred.



## Curriculum

### Semester 01

- Python Programming
- Mathematical Fundamentals for AI/ML
- Data Structures and Algorithms
- Fundamentals of Machine Learning & Deep Learning
- Statistical Tools for Data Analysis and Visualization
- Cloud Computing Essentials for Artificial Intelligence
- Professional Skills : Design Thinking

### Semester 02

- Computer Vision
- Advanced Data Mining
- Industrial Language Intelligence and Autonomous Decision Systems (NLP)
- Reinforcement Learning & Decision Intelligence
- AI and ML techniques for Data & Cyber Security
- Elective 1
- Professional Skills : Product Design and Entrepreneurship

### Semester 03

- AI Ethics and Law governance
- Quantum AI
- Agentic AI
- MLOps
- Generative AI & Large Language Models
- Elective 2

### Semester 04

- Capstone Project

**Certification**  
TUM Asia, Singapore & NAMTECH India

**Scholarship**  
Merit based scholarship available

**Batch Start Date**  
3rd August 2026

**Duration**  
2 Years Full Time, Residential



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Driven by Experts.  
**Defined by Outcomes.**

# Residential Faculty



**Dr. Anupam Singh**

Professor  
School of Sustainability



**Dr. Sunil Pathak**

Associate Professor  
School of Manufacturing Technologies



**Dr. Shailesh Sharma**

Associate Professor  
School of Manufacturing Design & AI



**Dr. Ashish Kumar Shukla**

Associate Professor  
School of Robotics



**Dr. Anand Gaurav**

Assistant Professor  
Center of Excellence Automotive Engineering



**Dr. Srishti Paliwal**

Assistant Professor  
School of Manufacturing Technologies



**Dr. Rishi Parvanda**

Assistant Professor  
School of Manufacturing Technologies



**Dr. Shuchi Sharma**

Assistant Professor  
School of Sustainability



**Dr. Abhisek Parida**

Assistant Professor  
School of Sustainability



**Dr. Adireddi Balaji**

Assistant Professor  
School of Robotics



**Dr. Siddhartha Suman**

Assistant Professor  
School of Manufacturing Design & AI



**Dr. Preeti Lata Mahapatra**

Assistant Professor  
School of Manufacturing Design & AI

and many more

## Visiting Faculty



**Ms. Namrata Rana**  
KPMG India



**Mr. Aashish Taneja**  
KPMG India



**Mr. Vivek Anand**  
KPMG India



**Dr. Maged Mikhail**  
Purdue University Northwest



**Dr. Ing. Ali Bawono**  
TUM Asia



**Mr. Fou Teck Kong**  
Festo



**Mr. R Ugesh**  
Festo



**Mr. Harold Clayton Hingada Gelilio**  
Festo



**Mr. Joson Loh**  
Festo



**Dr. Jegatesan J**  
Festo



**Dr. Edward Gasper**  
Festo



**Mr. Jay Fedora**  
Washington University

# Building World Champions

## Our Students Represented India at 47th World Skills, Lyon France, 2024 and were Champions...

### Making India Proud by First Ever medal in Industry 4.0 category

- NAMTECH students won Bronze medals at the 47th World Skills Competition 2024 at Lyon, France
- India's first medal in advanced engineering field at world's largest, most prestigious skill competition, held biennially
- Top competitors: China, Russia, Brazil, South Korea, Germany

Next World Skill 2026  
**Shanghai, CHINA**

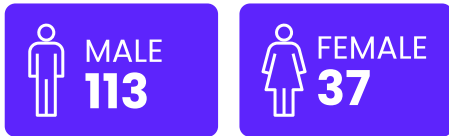
Who would like to JOIN us to  
**BEAT CHINA in CHINA**



**Dhrumilkumar  
Dhirendrakumar Gandhi**  
iPMP in Smart Manufacturing  
[Cohort of 2023 - 2024]

**Sathyajith Balakrishnan**  
iPMP in Smart Manufacturing  
[Cohort of 2023 - 2024]

# 100% Placement Achievement in First Two Batches...



Highest Salary  
**₹16 LPA**



Average CTC  
**₹8 LPA**



**25%**  
from institute of National  
Importance (INIs) and  
Top 100



**40%**  
Prior work experience



**30%**  
Female students



Experienced professionals saw 95% salary rise - proof that practice-driven learning at NAMTECH delivers.

# Voices of Our Learners



Enrolling at NAMTECH has enhanced my learning journey with practical exposure and industry-ready skills. Supportive faculty, hands-on projects, and activities like Meta-Skills and have helped me grow both academically and personally. Proud to be a part of NAMTECH!

**Om Tantak**  
Micron



The gold medal at IndiaSkills 2024 and the bronze medal at WorldSkill 2024 in the Industry 4.0 skill trade testify to the exceptional foundation I built here with the help of dedicated faculty, state-of-the-art facilities, and exceptional mentorship.

**Dhrumilkumar Gandhi**  
Addverb Technologies



My journey at NAMTECH has been transformative, blending practical learning with expert guidance. The industry-focused programs and supportive environment have equipped me with essential skills, making me career-ready.

**Vikas Matada**  
CG Semicon



A highlight of my experience at NAMTECH was the capstone project at L&T Heavy Engineering, where I developed innovative solutions for temperature monitoring in welding processes, that enhanced my technical expertise and project management skills.

**Shakti Singh**  
AM Green



Joining NAMTECH was a turning point in my journey, transforming uncertainty about my future into confidence and growth. With great mentors and a supportive environment, I gained invaluable skills, enabling me to win a bronze medal at IndiaSkills 2024.

**K M Astha**  
AMNS India



Joining NAMTECH (iPMP in Smart Manufacturing) has been a pivotal turning point in my career. The institute's innovative curriculum, supportive culture, and strong commitment to professional development have proven to be a transformative force in my growth.

**Ankit Tibrewal**  
Electrotherm



Your Pathway to  
**NAMTECH**

# Eligibility

B.E./B.Tech. with minimum 60% marks in 10th, 12th and Graduation (All backlogs should have been cleared by 6th Semester).

## Admission Process

### Step 1

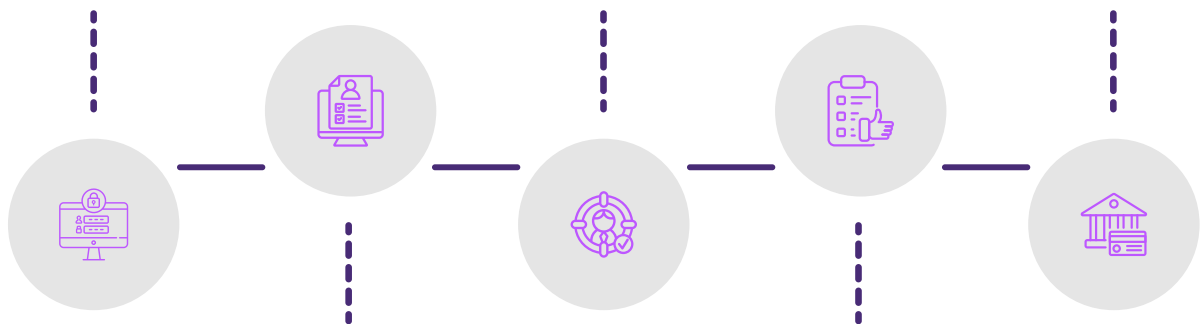
Apply online at [admissions.namtech.ac](http://admissions.namtech.ac) & pay Rs. 1000 application fee.

### Step 3

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

### Step 5

Confirm your admission by timely payment of tuition & hostel fees as specified.

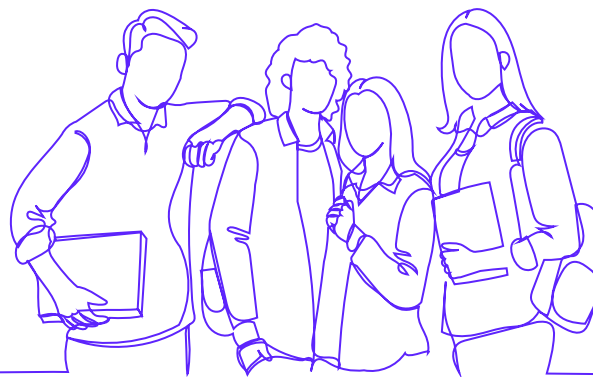


### Step 2

Fill out the application form and submit with all the documents.

### Step 4

If selected, you will receive the admission offer letter.



# Fee and Scholarships

Your education is an investment — not just in a degree, but in your future. At NAMTECH, we believe that access to world-class education should be determined by your potential. That's why we've designed a transparent and flexible fee structure that reflects the quality of our programs — while ensuring support every step of the way.

We also offer merit-based scholarships that recognize exceptional academic performance, leadership, and innovation potential. For students who need additional support, our admissions and finance teams provide personalized guidance on education loans and funding options, helping you make informed decisions with clarity and confidence.

Installment	Tuition Fee per year
<b>1<sup>st</sup> Instalment (Before 25th July 2026)</b>	₹ 3.00 Lakhs
<b>2<sup>nd</sup> Instalment (Before 1st Jan 2027)</b>	₹ 2.00 Lakhs

## Admissions/ Seat Blocking Fee: (One-Time)

Candidate has to pay ₹ 1,00,000 as an acceptance of the offer and confirming admission in a stipulated time mentioned in offer letter subject to application cycle and subject to availability of seats.

The amount will be adjusted against the first instalment of tuition fees (₹ 75,000) and Refundable deposit (₹ 25,000)

## Security Deposit (Refundable)

₹ 25,000 adjusted from the ₹ 100,000 as an acceptance of the offer and confirming admission

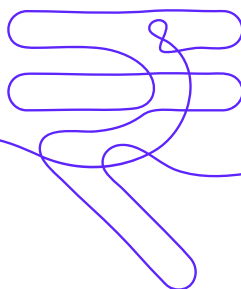
The Security Deposit will be refunded at the time of graduation from NAMTECH or it will be adjusted against the outstanding dues in respect of the student or at the time of withdrawal of admission from the program

# Education Loan Assistance

To make higher education accessible, we have partnered with following leading banks.

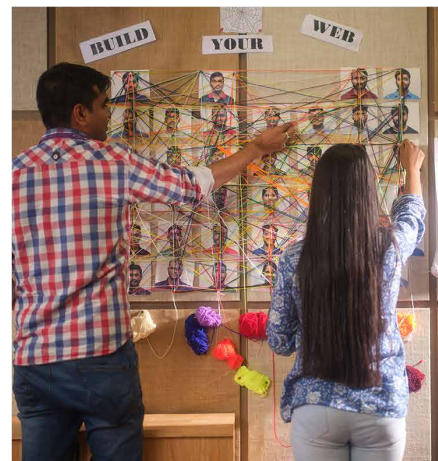


- Open for Indian students only
- Loan to cover all educational expenses like tuition fee, hostel and other living expenses.



# 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](http://www.namtech.ac)

## Transitory Campus:

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

[www.namtech.ac](http://www.namtech.ac) | [info@namtech.ac](mailto:info@namtech.ac) | +91-8799299909



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to apply