COEP's Research & Innovation Park







"Transforming Ideas into Innovations"

COEP TECHNOLOGICAL UNIVERSITY PUNE

(A Unitary Public University of Govt of Maharashtra) Formerly College of Engineering Pune (Estd 1854) Shivajinagar Pune 411005, India www.coeptech.ac.in

About COEPTECH

COEP is the third oldest engineering Institute in Asia, By July 1854, it had evolved into the Poona Engineering Class and Mechanical School, located in Bhawani Peth, The main building, designed by W. S. Howard, is a heritage site. At that time, the college was affiliated to the University of Bombay and had separate facilities for students who had passed matriculation. In 1879, the ambit of the college was expanded to include classes in Agriculture and Forest and the name, accordingly, was changed to College of Science. It was only in 1911 that another renaming took place and the name was changed to the College of Engineering Poona. The affiliation was transferred from Bombay to the University of Pune. This was also the first Institute to be granted an Autonomous status by Govt of Maharashtra. Later College of Engineering has been granted status of a unitary public university of Govt. of Maharashtra in accordance to MAHARASHTRA ACT No. XXXV of 2022 dtd 10 May 2022. Now it is rechristened as COEP Technological University Pune (COEP Tech).

- Certificate course for Civil (1854)
- College of Engineering Pune (1908)
- College of Engineering Pune (2003)
- COEP Technological University (2022)

Vision

"To be a global leader in innovative and impactful research, addressing the challenges of the future, while fostering a culture of collaboration, curiosity, entrepreneurial attitude, and excellence. COEP TECH is committed to creating a vibrant ecosystem for research and Innovation."

This vision document outlines our aspirations, strategies and key focus areas for advancing research and innovation within our university.

"Where Imagination Meets Experimentation"

Cutting-Edge Research:

- Conduct research that pushes the boundaries of knowledge in various disciplines.
- Foster interdisciplinary collaboration to address complex and multifaceted challenges.
- Encourage faculty and researchers to explore high-impact and transformative research projects.

Innovation and Technology Transfer:

- Promote a culture of innovation and entrepreneurship among students, faculty, and researchers.
 - Establish mechanisms for the seamless transfer of research outcomes and technologies to industry and society.
 - Support startups and incubators to translate research into commercially viable products and services.

Global Collaboration:

- Foster partnerships with leading international institutions and research organizations.
- Facilitate joint research projects, and collaborative initiatives to enhance the global impact of our research.

Infrastructure and Resources:

- Invest in state-of-the-art research facilities and cutting-edge technologies across disciplines.
- Provide researchers with access to specialized equipment, laboratories, and resources.
- Create a supportive environment for conducting experiments, simulations, and data analysis.

Human Capital Development:

- Attract and retain world-class faculty members and researchers.
 - Prioritize the professional development of researchers through training, workshops and international collaborations.
 - Foster a mentorship culture to guide and inspire the next generation of researchers.

Social Impact and Sustainability:

- Align research efforts with societal needs and global challenges and
 - Promote research that contributes to sustainable development. social justice, and the betterment of communities meeting Sustainable Developmental Goals (SDGs).
 - Engage with stakeholders to ensure the practical application of research for societal benefit.

Communication and Dissemination:

- Establish effective communication channels to share research findings with the broader community.
- Encourage open-access publishing and dissemination of research outcomes.
- Organize conferences, symposiums, technical exhibitions, and public lectures to showcase research achievements.

"Pushing Boundaries, Shaping the Future"

COEP Tech has always strived to develop itself into an institution of excellence in education, research, innovation, and incubation keeping in mind the contemporary and future needs of India in engineering and technology. While offering formal Undergraduate, Post-graduate and PhD Programs, the University actively encourages its faculty and other academic staff to undertake sponsored research, consultancy projects, Continuum Education Program, Collaboration with outside agencies in India and abroad, promote innovation, incubation, and entrepreneurship ecosystem of the university. Considering changing economic scenario, the University considers sponsored research and industrial consultancy projects as an important means of extending benefits of scientific research work to society and a tool for contributing to the country's economic growth. COEP Tech has 10 major departments offers B.Tech. degree with more than 28 specializations at post graduate level and 300 plus Ph.D. research scholars having total populations of 5000 plus students in the existing main campus. Besides, the State level admission process for B.Tech., there is an additional quota of 25% students join through JEE.

Major Departments



Post Graduation Specializations

| Automotive Technology | Mechatronics |
|--|---|
| Bio Medical Instrumentation | Power Electronics and Machine Drives |
| Computer Engineering | Power Electronics and Power Systems |
| Construction Management | Process Instrumentation |
| Design Engineering | Process Metallurgy |
| Digital System | Project Management |
| Embedded Control Systems | Robotics and Artificial Intelligence |
| Environmental and Water Resources Engineering | Signal Processing |
| Geo Technical Engineering | Structural Engineering |
| Information Security | Thermal Engineering |
| Manufacturing Engineering and Automation | Town and Country Planning (M. Planning) |
| Materials Engineering | Transportation Engineering |
| MBA(Business Analytics) | Wired and Wireless Communication |
| Data Science | Cyber Security |

"Evolving the Landscape of Possibilities"

COEP RESEARCH & INNOVATION PARK Govt of Maharashtra had sanctioned COEP Research and Innovation Park spread on 28 acres of land in Chikhali-Bhosari MIDC Pune having eight Centre of Excellence. This extended campus of COEP Tech is about 20 km from the main Shivajinagar campus. The sole aim of this Research and Innovation park is to promote joint collaborative project with Industry and research organizations. COEP Tech is an ideation hub where several proofs of concept are being developed as outcome of academic activity. This provides impetus to collaborate with industry / research organization for developing Prototype / pilot scale plant for technology development.

Centre of Excellence @ Research and Innovation Park

System



Industrial and Product Design



Micro, Nano Manufacturing



Design and Applications of IOT



Robotics and Artificial Intelligence

Integrated Vehicle



Data Science and Machine Learning



Smart Materials and Sensor Designs

Energy and Environment Science

"Unleashing the Power of Innovation"



(Proposed) a bird eye view of COEP Research and Innovation Park at MIDC Chikhali

Industrial Zones in close proximity of COEP R & I park



"Shaping the World with Research-Driven Innovation"





"FUELING PROGRESS THROUGH RESEARCH"





"Where Curiosity Meets Creativity - KPIs"



Joint Research Project Model

- Industry will submit problem statement for technical evaluation.
- Formulation of research methodology its deliverables and interaction with industry partners.
- Project cost estimation based on manpower, space requirement for protype / pilot scale plant, consumables, equipment, outsourcing of facility if any.
- Signing of MoU



Opportunities for Collaboration

- Conducive ecosystem for Technology development till commercialization
- Space availability as per requirement for Prototype / Pilot scale project
- Industry personnel will be provided with office space.
- Bright students of Engineering and management departments are available for Research Assistant / Internship
- Campus surrounded by diverse MSMEs for service support.
- Campus open for 24 x 7
- Dedicated IT support and campus security

Industry Academia Partnership

| Sr. No. | Criterion (for examples) |
|---------|--|
| 1 | Joint Research Project |
| 2 | Internship to Students |
| 3 | Sponsorship for Conference/ Technical Events |
| 4 | Guest Lecture by Industry Personnel |
| 5 | Industrial Visit |
| 6 | Donation of Equipment / Infrastructure / CSR Support |
| 7 | Duration of Project 2 Years and More |

START-UP Promotion

- Promotion for Start-Up in Deep Technology
- Evaluation of start-up proposal by expert committee
- Start-up should be Private limited Co.
- Equity stake as per prevailing guidelines of COEP Tech

"Breaking Molds, Forging New Frontiers"



Takeaways

- Technology transfer / Licensing
- Pilot scale plant / Protype development
- Start-Up in deep technology
- Excellent opportunity for Industry personnel for qualification upgradation
- Joint Conference / journal publications



Contact Us

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