National Facilities

ISO Certified | Home to India's Largest Academic Fab | 24x7 operating national Facilities

National Nano Fabrication Centre

Lithography | Etching | Thin Films & CVD

Micro and Nano Chracterization Facility

Material | Mechanical | Optical | Electrical

Packaging and Systems Facility

Dicing | Wire Bonding | Flip Chip Bonder

About Us

Founded in 2010 at IISc, India's No.1 university, CeNSE is the nation's largest integrated academic facility. Dedicated to the nation in 2015 by Hon'ble Prime Minister Shri Narendra Modi, it hosts three world-class National Facilities for fabrication, characterization, and packaging - ISO certified, 24x7 accessible, and serving 600+ institutions across academia, industry, startups, and the strategic sector.

As an epicenter of interdisciplinary research, CeNSE drives breakthroughs in electronics, materials, quantum technologies, MEMS/NEMS, microfluidics, photonics, and neuromorphic computing

Contact Us

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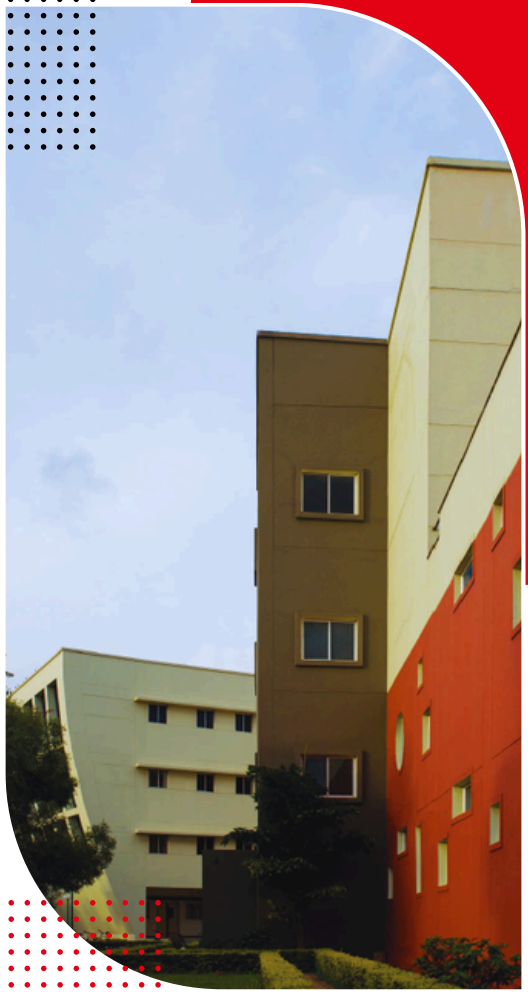
www.cense.iisc.ac.in

IISc, Bengaluru - 560012

LinkedIn

Centre for Nano Science and Engineering

Indian Institute of Science



CeNSE

Services

Training
Introductory courses | Hands-on fab and tool trainings | Custom trainings

Project Execution
Standard & custom patterning | Micro Heaters and IDEs | On-chip gas sensors | AFM tips | microfluidic Channels

Product Development
Gas & Pressure Sensors | CVD Reactor | kW Lasers | IR Sensors

Wafer Processes
Films | Lithography | Annealing | Doping & Diffusion | Wafer Bonding | Dicing

Consultancy
Fabrication and Characterization

projects.cense@iisc.ac.in

Industry Affiliate Program

Flagship program engineered to bring Industries on board at CeNSE and work with them as extended teams.

Benefits of an IAP member -

- CeNSE facility usage and priority access
- Brand visibility in the events, CeNSE website, presentations, brochures, and so on
- Networking with CeNSE faculty, staff & other IAP members

industry.cense@iisc.ac.in
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Academics

Masters Courses in Semiconductor Technology

- **M.Tech**
- **M.Engg (1 yr course)**
- **Joint M.Tech (with Taiwanese Universities)**

Backgrounds: EE | ECE | Physics | Materials | Chemistry | Mechanical | Bio

Qualification: GATE | CFTI Students with CGPA >8.0

M.Tech Fellowship

- **Brand Recognition for Industry**
- **Attracting top talent**
- **Supports research in deep-tech**
- **Bridging classroom to industry**
- **Interactions | Internships | Mentorship**

PhD Course

Focus Areas: Materials | Electron-Devices | Photonics | MEMS/NEMS/Microfluidics | Quantum | Bio-medical | Neuromorphic

Qualification:

- GATE
- Joint CSIR UGC NET for JRF, DBT JRF, UGC NET for JRF and JEST.
- CFTI Students with CGPA >8.0

Trainings Offered

Metrology | Fab Process | Packaging | Equipment

Educational/ Exposure Awareness^
Akansha | EMRS - Class 10-12

Foundational & Advanced Workshop*^
Eyes-on - Academia & Industry

Specialist/ Deep-dive Training^
Expert level : Domain experts

Skill Development
Undergrads | Masters | PhDs | Postdocs | Faculty | Project Staff

Summer and Winter School

Semiconductor skills development through SEMulator3D
Lam Research India - CeNSE IISc

Training on Semiconductor Fabrication and Characterization
Ministry of Tribal Affairs, GoI

Research Experience Program
Thesis and Non-Thesis Mode

Indian Nanoelectronics Users Program
Online & Hands-on training | Expert mentorship | Access to advanced facilities | Project Execution

c-DNA
Familiarization Workshop | Hands-on Training

workshops.cense@iisc.ac.in

Incubation

INCeNSE : Deep-tech Incubator

Office Amenities and Infrastructure | Access to CeNSE national facilities | Business and Technical Mentorship | Outreach and Market Ecosystem Exposure

incubation.cense@fsid-iisc.in