Question. Does your institution provide specific physical facilities for interdisciplinary research teams within applicable disciplines?

Response- Yes, Kalinga Institute of Industrial Technology (KIIT) provides dedicated physical infrastructure to promote interdisciplinary research collaboration across diverse academic disciplines. The university has established advanced facilities such as the Central Research Facility (CRF), Technology Business Incubator (KIIT-TBI), Technology Enabling Centre (TEC), Centers of Excellence, Interdisciplinary Science Research Laboratories, and Centers of Innovation and Research (COIR). These facilities offer specialized laboratories, innovation hubs, and collaborative workspaces that enable researchers from multiple domains to work together on complex scientific and technological challenges. KIIT has also developed a 1-lakh sq. m. advanced research infrastructure, upgraded laboratories across departments, and created strong industry-linked research centers. Supported by expert technical staff, research groups, seminars, conferences, and 24×7 library and laboratory access, the university fosters a vibrant ecosystem for interdisciplinary research and innovation.

Evidence: Institutional Facilities Supporting Interdisciplinary Research

1. **Central Research Facility (CRF)**
2. **KIIT TBI (Technology Business Incubator)**
3. **Interdisciplinary Science Research Laboratories**
4. **KIIT TEC (Technology Enabling Centre)**
5. **Centers of Excellence in various Interdisciplinary Science Research areas**
6. **Centers of Excellence in various Interdisciplinary Research areas (Excluded Science Research)**
7. **Interdisciplinary Research Facilities (Excluded Science Discipline)**
8. **Centre of Innovation and Research (COIR)**
9. **KIIT DU's School Advanced Research Labs**

KIIT has placed much emphasis on creating enabling infrastructure and facilities for advanced research in diverse areas such as:

- Centre for advanced research has been set up with 1 lakh sqm built up area.
- Setting up of new advanced laboratories and up-gradation of existing labs in each department.
- Centers of excellence have been established in collaboration with industry.
- Adequate technical personnel for caring and maintenance of laboratories and its advanced equipment.
- Research groups of scholars and faculty members are formed in emerging areas and encouraged to apply for grant to National and International funding agencies.

- Special seminars, workshops, and international conferences are organized in the emerging disciplines.
- Senior faculty members with experience in emerging disciplines are regularly recruited.
- 24X7 library and laboratories facilities are available.

Apart from aforesaid assistance, KIIT University has specialized facilities as listed below:

- Conference Room
- Cafeteria
- Fabrication Lab
- Lobby
- Corridor
- BIRAC BIG Innovation Lab
- Meeting Room
- Open Space
- Central Instrumentation Lab
- Corporate Meeting Room
- Co Working Space
- Bioprocess Lab
- Incubate Office
- Analytical Testing Facility
- Testing Lab

Physical Infrastructure for Interdisciplinary Research at KIIT:

1. Central Research Facility (CRF)

Central Research Facilities (CRF) has been set up with 1 lakh sq m built up area at Campus-3, KIIT, offers access to modern scientific research facilities to the in-house researchers as well as research community from other academic institutions and industry. The instruments in CRF are managed by professionally trained personnel and run to the proper scientific standards. We provide technical support to the users so that the best results can be obtained. We are providing a user- friendly online registration process to book time slots for different instruments.

https://crf.kiit.ac.in/

Commissioned Instruments:

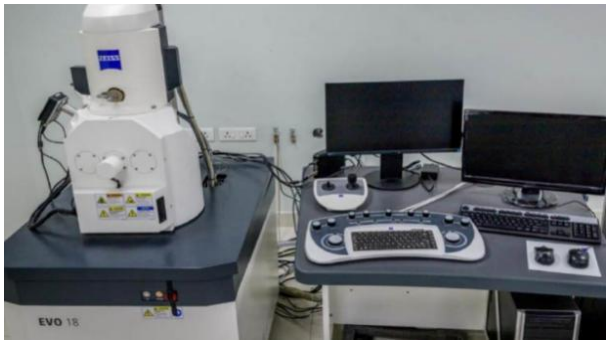
- Servo Hydraulic Dynamic Testing System
- Thermo-Mechanical Simulator
- Ion Chromatography
- Scanning Electron Microscopy
- Field Emission Scanning Electron Microscope (FESEM)
- Chn Analyzer
- 400-MHz NMR Spectrometer
- X-Ray Diffraction (XRD)
- Micro-Raman Spectrometer
- Atomic Emission Spectrometer
- Atomic Force Microscope (AFM)
- Spectro-Fluorometer With Phosphorescence and Polariser
- Particle Size Analyser

Some of the Sophisticated Equipment at CRF:

Servo Hydraulic Dynamic Testing System

Thermo-Mechanical Simulator

Ion Chromatography



Scanning Electron Microscopy

Field Emission Scanning Electron Microscope (FESEM)

CHN Analyzer

400MHz NMR SPECTROMETER

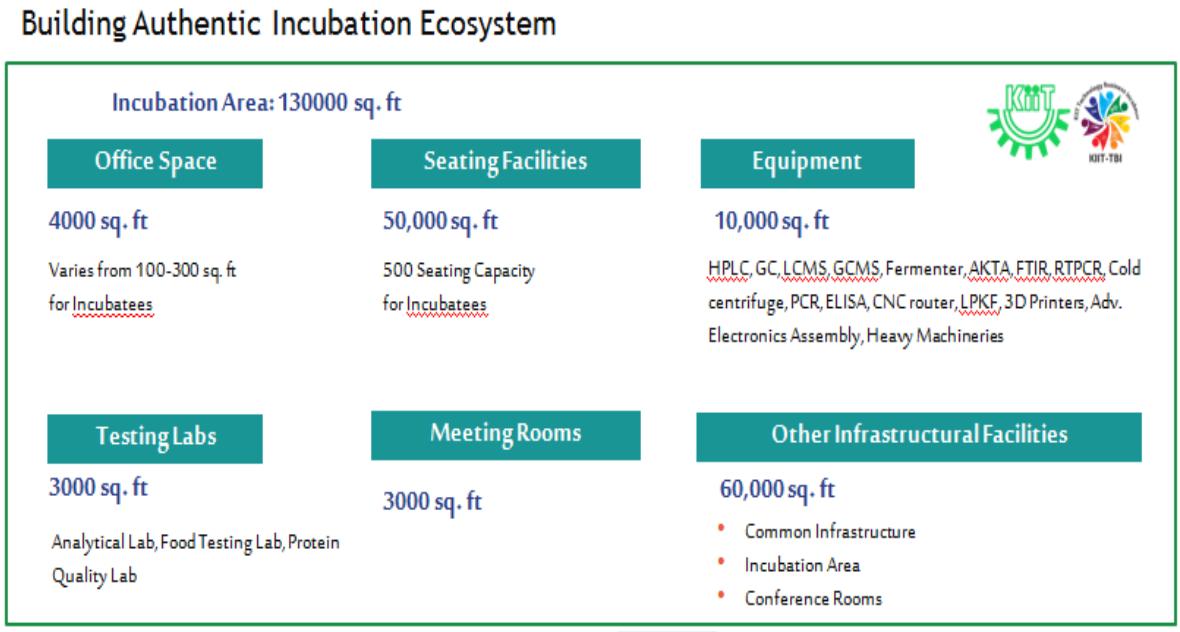
X-ray diffraction (XRD)

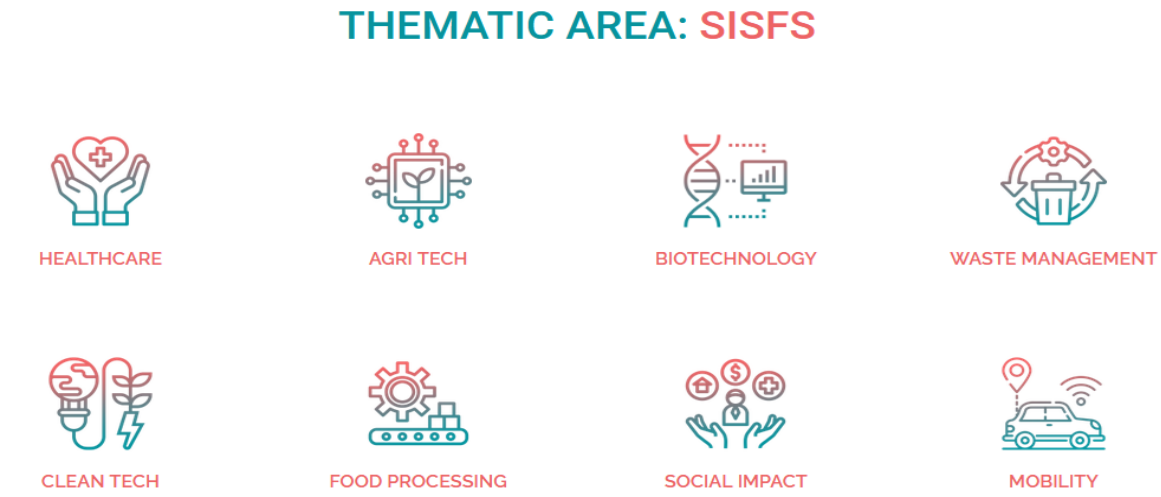
Micro-Raman Spectrometer

2. KIIT Technology Business Incubator (KIIT TBI)

KIIT TBI was started in 2009 as an initiative of KIIT with the support of Department of Science & Technology (DST), Govt. of India. KIIT-TBI has always strived to boost the entrepreneurial ecosystem in the country.

https://kiitincubator.in/,
https://dstcoe.kiitincubator.in/wp-content/uploads/2022/08/Brochure.pdf





3. Interdisciplinary Research Laboratories

The laboratory ecosystem at the KIIT University provides advanced facilities that strongly support interdisciplinary research, innovation, and technology development. These laboratories act as shared platforms where researchers, students, startups, and industry professionals collaborate across multiple scientific and technological domains.

- Thin Film Photovoltaic Lab
- Design Thinking Lab
- Wireless Communication and Networking
- Microwave Lab
- Composites Development and Characterization Lab
- SKF-KIIT Advanced Reliability Centre
- Thermal Research Lab
- Production Research Lab
- Machining Research Lab
- Green Engine Technology Centre
- Renewable Energy Lab
- Autodesk Lab
- Schneider Electric Lab
- Geo-spatial Lab
- Building Information Modeling Lab
- Industrial Waste Utilization Lab
- Microbiology Lab
- Translational Research Lab
- Cancer Research Lab
- Immunology Lab
- Analytical Chemistry Lab
- Chemical Process Engineering Lab
- Extractive Metallurgy Lab
- Nanotechnology Lab
- Polymer Technology Lab
- Reaction Engineering Lab

These shared laboratories enable researchers from different academic backgrounds to work collaboratively on complex scientific challenges such as **Biomedical Diagnostics, Environmental Analysis, Biotechnology Processes, and Advanced Material Characterization**. Equipped with modern instruments such as chromatographic systems, spectroscopy tools, fermenters, and molecular diagnostic equipment, the labs support high-quality research, prototyping, and technology validation.

Additionally, the incubation ecosystem integrates **Fabrication Labs, Testing Facilities, and Co-Working Spaces**, allowing interdisciplinary teams to transform research ideas into prototypes, start-ups, and scalable innovations. Through training programs, workshops, and industry collaborations, the KIIT-TBI laboratory ecosystem acts as a catalyst for **Translational Research, Entrepreneurship, and Cross-Disciplinary Knowledge Exchange**.

Analytical Testing Facility: State of the art licensed commercial grade analytical test facility.

Cell Culture Facility: Expert consultation for cell culture needs and experimental design.

Bioprocess Lab: Utilizes living cells or their cellular components, viruses or an entire organism.

Common Instrumentation: Enriching the resources on a shared basis for promoting research activities.

Lab Facilities: One Stop Solution for Innovation

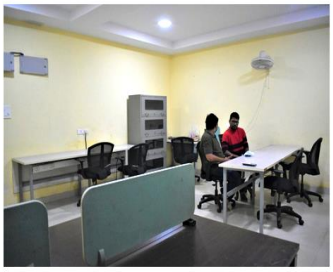
Conference Room

Lobby

Meeting Room

Corporate Metting Room

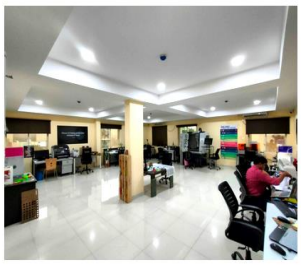
Bioprocessing Lab



Incubate Office

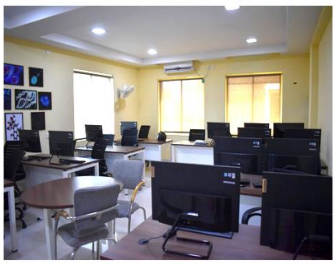
Cafeteria

Corridor



Fabrication Lab

Testing Lab



Co Working Space

Open Space

BIRAC BIG Innovation Lab

Central Instrumentation Lab

Bioprocess Lab

Analytical Testing Facility

In essence, the KIIT-TBI laboratory infrastructure provides a comprehensive platform that bridges academic research, industry needs, and innovation, thereby strengthening interdisciplinary research and technology development at KIIT University.

https://kiitincubator.in/lab-facilities/

4. KIIT Technology Enabling Centre (TEC)

KIIT-TEC is supported by Department of Science and Technology, Government of India, to create an Ecosystem for technology development primarily in the state of Odisha.

https://kiittec.in/

Focus of KIIT-TEC

- Identifying industry problem areas
- IP protection
- Prototype development
- Technology transfer
- Licensing and Commercialization support system

5. Centers of Excellence in various Interdisciplinary Science Research

KIIT University has 18 state-of-the-art Centers of Excellence which are involved in interdisciplinary science research and are listed in tabular form, Table I.

Table I. Centers of Excellence for Interdisciplinary Science Research

Sl. No.	Centres of Excellence	Sponsoring/ Supporting Body
i	Centre of Excellence in Translational Research Program on Gastrointestinal bacteria pathogens	Department of Biotechnology, Govt. of India.
ii	TBI- NIDHI Centre of Excellence	Department of Science and Technology, Govt. of India.
iii	SAP Centre of Excellence	System Analysis & Product (SAP)
iv	IBM Centre of Excellence	IBM Corporation
v	IoT Centre of Excellence	Texas Instruments
vi	Siemens Laboratory	Siemens
vii	Centre of Excellence in Robotics	Bosch
viii	Interdisciplinary Centre of Energy	Schneider Electric
ix	Centre of Excellence for Automotive Mechatronics	Mercedez-Benz
x	NI Centre of Excellence	National Instruments
xi	Tech Mahindra Design Laboratory	Tech Mahindra
xii	Intel Design Laboratory	Intel

xiii	Centre of Excellence for Space Science.	ISRO (Knowledge support) and KIIT-DU
xiv	Boeing Centre	Boeing India
xv	Centre of Excellence for Water Studies	KIIT-DU
xvi	Centre of Excellence for Renewable Energy	KIIT-DU
xvii	Interdisciplinary Research Centre in Materials and Nano-Sciences	KIIT-DU
xviii	Fintech Centre of Excellence	High Radius corporation

https://kiit.ac.in/centres-of-excellence/

6. Centers of Excellence in various Interdisciplinary Research areas (Excluded Science Research)

KIIT University has 14 state-of-the-art Centers of Excellence which are involved in interdisciplinary research (excluded science discipline) and are listed in tabular form, Table II.

Table II. Centers of Excellence for Interdisciplinary Research (Excluded Science Research)

Sl. No.	Centres of Excellence	Sponsoring/ Supporting Body
i	Centre of Excellence in Occupational Health and Safety	Berufsgnossenschft-Der Bauwirtschaft, Germany
ii	Technology Enabling Centre	DST, Govt. of India
iii	Technology Transfer Office	BIRAC, Govt. of India and Worldbank
iv	Centre for Excellence in Sales Management (CESM)	KIIT-DU
v	Centre for Translational Medicine	KIIT-DU
vi	Centre of Excellence for Rare Earth Materials	KIIT-DU
vii	Centre of Excellence for Sustainability and Equity	KIIT-DU
viii	Technology Transfer Office	KIIT-DU
ix	Centre of Excellence for Public Policy and Research	KIIT-DU
x	Centre of Excellence for Leadership & Happiness	KIIT-DU
xi	Centre of Studies in Criminal Law and Criminal Justice administration	KIIT-DU
xii	Centre of Arbitration	KIIT-DU
xiii	Centre for Constitutional Law Studies and Research	KIIT-DU
xiv	Centre for IPR	KIIT-DU

https://kiit.ac.in/centres-of-excellence/

7. Interdisciplinary Research Facilities (Excluded Science Discipline)

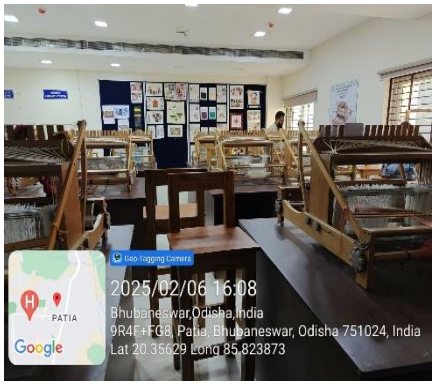
i. Cutting-Edge Research Facilities at KIIT SFMS

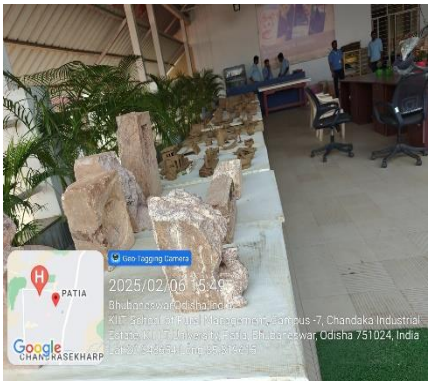
The KIIT SFMS has been equipped with state-of-the-art physical facilities to support interdisciplinary research, ensuring a seamless integration of technology and creative exploration. The institute houses a "**Non-linear Editing Studio"**, furnished with the latest post-production software, enabling researchers to experiment with advanced editing techniques. An "**Audio and Sound Dubbing & Designing Studio"** facilitates high-quality sound production, essential for diverse research areas involving acoustics, linguistics, and media studies. The "**Acoustically Designed Screening Theatre"** provides an optimal environment for evaluating visual and auditory outputs, supporting studies in film, psychology, and audience engagement. Additionally, an "**Advanced Chroma Set-up"** allows for innovative research in visual effects, virtual environments, and augmented reality. A "**Still Photography Lab"** further enhances interdisciplinary collaborations, offering a controlled space for experimental photography, documentation, and visual storytelling. These facilities collectively foster a dynamic research environment, encouraging innovation across multiple disciplines.

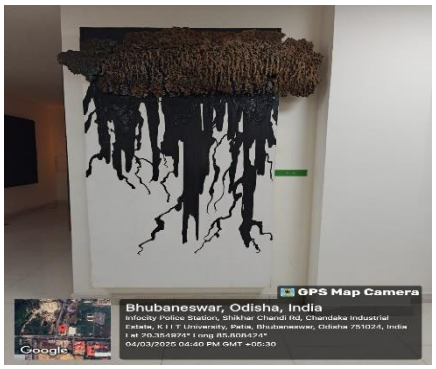
https://film.kiit.ac.in/facility/

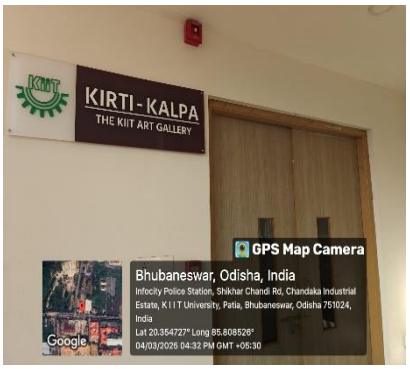
ii. Kirti Kalpa- The KIIT Art Gallery

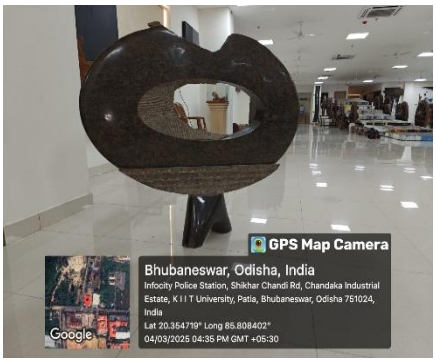
"Kirti Kalpa- The KIIT Art Gallery", a place where history, art, and culture come to life. KIIT public museum is a repository of human knowledge and creativity, dedicated to preserving the past and inspiring the future.

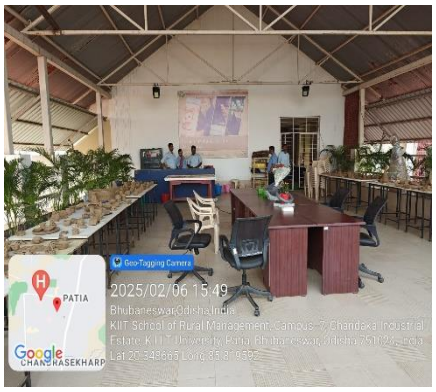


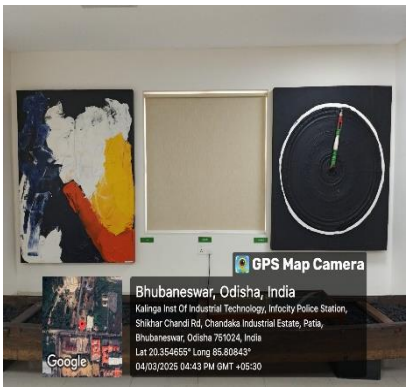


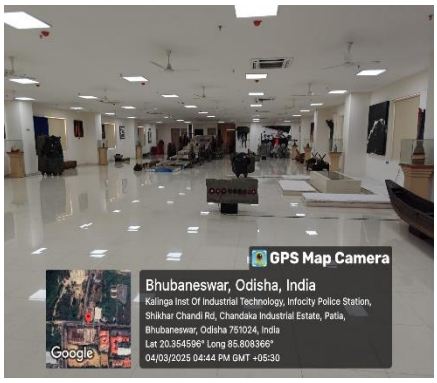












It's a Contemporary Art Gallery which consists of Paintings, Abstract painting, Granite Stone Sculptures, Wooden Sculptures, Art Installations, Artifacts, Tribal Artifacts, Ceramic Sculptures etc.

8. Centre of Innovation and Research (COIR)

In the dynamic landscape of the educational system, departments encounter constraints in prioritizing research activities such as interdisciplinary research, collaboration, joint research initiatives, technology deployment, technology transfer, and business model development across schools and institutes. These challenges significantly impede the departments' ability to secure extramural funding, thereby undermining the research environment of educational institutions.

A promising solution observed in both global and Indian higher education institutions (HEIs) involve establishing dedicated research centers focused solely on fostering interdisciplinary research and collaboration. The primary objective of these centers is to cultivate a robust research culture, anticipate future needs, and strategically advance through research and innovation to meet these evolving demands.

List of the 8 New KIIT COIRs:

- **Centre of Innovation and Research in AI (CIRAI)**
- **Centre for Next-Generation Materials and Technology (CNGMT)**
- **Centre of Innovation and Research on Quantum Technology (COIR-QuTe)**
- **Centre for Water Research and Climate Change (CWRCC)**
- **Centre of Remote Sensing and Disaster Management (CRS-DM)**
- **Centre of Excellence for Applied Behavioural Sciences (COIR-ABS)**
- **Cultural Studies and Comparative Languages (CCSCL)**
- **Centre for Defence and Strategic Studies (CDSS)**

A notice issued by the **Office of the Registrar of Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar** on **28th September 2024** announces the establishment of **eight new Centers of Innovation and Research (COIR)** starting from **1st October 2024**. These centers are designed to strengthen interdisciplinary research and innovation across the university.

OFFICE OF THE REGISTRAR
KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY
DEEMED TO BE UNIVERSITY, BHUBANESWAR

Ref. No. KIIT-DU/1158 / 24 Date: 28th September 2024

NOTICE

This is to inform you that eight Centers of Innovation and Research (COIR) will start from 1st October, 2024. Of these, five are in the fields of science and technology and rest three are in the Language and Social Science discipline. In the future more centers will be introduced phase wise.

1. Centre of Innovation and Research in AI (CIRAI)
2. Centre for Next-Generation Materials and Technology (CNGMT)
3. Centre of Innovation and Research on Quantum Technology (COIR-QuTe)
4. Centre for Water Research and Climate Change (CWRCC)
5. Centre of Remote Sensing and Disaster Management (CRS-DM)
6. Centre of Excellence for Applied Behavioral Sciences (COIR-ABS)
7. Cultural Studies and Comparative Languages (CCSCL)
8. Centre for Defence and Strategic Studies (CDSS)

These specialized centers will serve as essential hubs for innovation, research, and collaboration across various disciplines. By concentrating expertise and resources, we aim to create an environment that accelerates the pace of discovery and fosters meaningful interdisciplinary engagement.

For more detailed information or to submit a new COIR proposal or idea, please contact Dr. Sutanu Mangal, Assistant Registrar, email: k.coir@kiit.ac.in

Registrar

Copy to:

- All Faculty Members
- Head of the Schools
- KIIT Digital
- Pro Vice Chancellor for kind information
- AO to the Vice Chancellor for kind information of Hon'ble Vice Chancellor
- PS to Founder for kind information of Hon'ble Founder, KIIT & KISS

9. KIIT DU's School Advanced Research Labs

Each School of Kalinga Institute of Industrial Technology (KIIT University) is equipped with advanced research laboratories and specialized facilities that support high-quality academic and scientific investigations. These laboratories are designed with modern instruments, experimental setups, and digital research tools that enable faculty members, scholars, and students to undertake innovative and application-oriented research.

The availability of such advanced labs across different schools promotes interdisciplinary collaboration, allowing researchers from diverse domains to work together on complex scientific and societal challenges. By integrating expertise from multiple disciplines, these facilities create a dynamic research ecosystem that encourages knowledge exchange, innovation, and the development of impactful solutions.

KIIT-TBI has incubated 500+ startups, including space/aerospace-focused ones:

- **Space Fields Private Limited:** Dual-use solid rocket propulsion systems (TRL 7, 6 patents, Boeing BUILD winner).
- **BONV Technology Pvt Ltd:** e-VTOL logistics drones for defense/space logistics (TRL 8). Focus areas: Propulsion, drones, satellite-adjacent tech.

Aeroengine & Airframe Laboratory

Following weblinks provide details of the specialized research labs supporting academic and interdisciplinary research in the respective KIIT School.

Name of KIIT's School	Research Labs Weblink
School of Computer Engineering	https://cse.kiit.ac.in/research/
School of Civil Engineering	https://civil.kiit.ac.in/
School of Electronics Engineering	https://electronics.kiit.ac.in/research-lab/
School of Mechanical Engineering	https://mechanical.kiit.ac.in/research-labs/
School of Aerospace Engineering	https://ksae.kiit.ac.in/
School of Electrical Engineering	https://electrical.kiit.ac.in/
School of Chemical Engineering	https://chemical.kiit.ac.in/
School of Biotechnology	https://biotech.kiit.ac.in/
School of Applied Sciences	https://ksas.kiit.ac.in/
School of Architecture & Planning	https://ksap.kiit.ac.in/research/
School of Fashion Technology	https://ksoft.kiit.ac.in/
School of Film & Media Sciences	https://film.kiit.ac.in/facility/
School of Mass Communication	https://ksmc.kiit.ac.in/school-facility/
School of Medical Sciences	https://kims.kiit.ac.in/
School of Dental Sciences	https://kids.kiit.ac.in/
School of Nursing Sciences	https://kins.kiit.ac.in/
School of Public Health	https://ksph.kiit.ac.in/

Through these state-of-the-art laboratories, KIIT strengthens its commitment to **Cutting-Edge Interdisciplinary Research, Innovation, and Global Academic Excellence**.