

Research and Entrepreneurship Hub

Innovation and Incubation Related Activities

To enhance research activities and cultivate pleasant research atmosphere, a multi-crore state of the art building with all modern technical facilities is established. It accommodates all departments to carry out advanced research, establish incubation cells and start-ups. The R&D Centre, with its State-of-the-Art Infrastructure, has been established to promote Research and Innovations amongst the Faculty and Students by identifying new Research Areas, developing Projects leading to Publications, Products, Innovations and Start-Ups. The primary focus will be on the Time and Cost bound Projects sponsored by Government, Public, Private, National and International Agencies and Autonomous Bodies. To achieve results on these sponsored Projects within the acceptable timelines, the Centre has been structured into Sectional Areas for streamlining its functioning in different Technology Domains. The Sectional Areas will together cover all the Disciplines/ Inter Disciplinary Topics in which the Institute has expertise. All research activities are being streamlined to make a mark in 'Make in India' concept of Indian Government.

MSME Incubation Centre

CBIT has established its Business incubator with MSME in the year 2019. The main aim of the incubator goes hand in hand with MSME and ACIC objectives. The main goal is to nurture ideas from professionals / students/ local community and foster such entrepreneurial ideas in a supportive environment before they become attractive for venture capital. The Incubation center aims to promote and support untapped creativity of individual innovators and to assist them to become technology-based entrepreneurs. It also seeks to promote networking and forging of linkages with other constituents of the innovation chain for commercialization of their developments, provide support and training for students and innovators who are interested in converting their social ideas into social startup. Incubation Centre, CBIT facilitates necessary infrastructure, prototype development support, research assistance, help in getting funding, business consulting assistance, mentoring and guidance to make their idea into a successful venture.

The proposed Innovation and Incubation policy will be applicable for all MSMEs, startups, incubates under CBIT-MSME Incubation center managed by CBIT and also the ACIC-CBIT Incubation center which will under final approval. The incubation Centre aims at :

- To create awareness about the importance of entrepreneurship among the students and local community
- To promote new technology/ knowledge/ innovation-based startups.
- To promote design thinking process among the incubates and provide the platform for

speedy commercialisation of technology

- To enhance the domain knowledge / skills to develop the innovative products / services
- To build a vibrant startup ecosystem, by establishing a network between academia, financial institutions, industries, and other institutes.

Atal Community Innovation Centre (ACIC)

Atal Innovation Mission (AIM) at NITI Aayog is mandated to promote a culture of innovation and entrepreneurship in India. Until now, AIM has selected a number of institutions for supporting them in establishment of Atal Incubation Centres (AICs) programme. CBIT has also been selected from Telangana by AIM for the establishment of Atal Community Innovation Centre (ACIC) at our Campus. ACIC-CBIT Research and Entrepreneurship Foundation has been registered by CBIT as a Special Purpose Vehicle (SPV) under the companies Act. The ACIC will provide requisite infrastructure for innovation in the unserved / underserved regions or having potential to build innovation ecosystems in various parts of the country. Thus, nurturing entrepreneurs from the community to help them address various societal challenges.

The objective of the ACIC program is to offer unique and incentivized solutions, which will encourage students, researchers or any individual/group of individuals to ideate and design novel innovative solutions for the communities in and around the Atal Community Innovation Centers. The program would deliver the objectives to ensure,

- Nurture innovators to ideate in areas of societal importance
- Design thinking process to spur creativity
- Opportunity for everyone to innovate, ideate and design solutions, irrespective of their age
- Community oriented approach enabling innovative solutions through Community Tinkering
- lab facilities in the Community Innovation Center
- Capacity building of emerging innovators in evolving technologies and designing their
- innovations from ideation to impactful solutions.
- Partnerships with local industries / institutions in problem solving through innovative
- offerings in terms of products, services and processes and identifying innovation challenges
- Public Private Partnership (PPP) to enable support for financial sustainability and
- encourage participation of central agencies, PSUs, other legal entities etc. to mobilize resources for running the program

INCUBATION CENTER at CBIT encourages and mentors ideas from diverse domains as mentioned below

- ✓ Agricultural Farming
- ✓ Water, Sanitation and Solid-Liquid Waste Management
- ✓ Waste heat Recovery Systems
- ✓ Indian Traditional Knowledge system based products.
- ✓ Bio Technology and health monitoring systems and products
- ✓ Pharmaceuticals products and process
- ✓ COVID-19 related solutions and products.
- ✓ New technology and process for enhancing literacy rate in villages.
- ✓ Virtual lab creation and education related applications.
- ✓ Building Materials/Construction Technology
- ✓ Renewable Energy and Environmental sustainability
- ✓ Energy conservation, Energy efficient Motors and Equipments
- ✓ Electric Mobility
- ✓ Emission Control Systems and products
- ✓ Solar Photovoltaic systems and design optimisation
- ✓ Information & Communication Technology (ICT)
- ✓ Application of Artificial Intelligence and machine Learning for product/process
- ✓ Bloch chain related solutions.
- ✓ Manufacturing Automation and Engineering
- ✓ Additive Manufacturing
- ✓ Telecommunication
- ✓ Cyber Security
- ✓ Drone Technology
- ✓ Other emerging areas of social / national importance

Research and Consulting expertise

The CBIT Consulting and Research Expertise can help maximize commercial consulting and contract research opportunities by providing an exceptional range of support services to ensure engaging with industry is a positive, meaningful and rewarding experience.

CBIT supports Research and consultancy activities by providing:

- Supplementing organizational efforts with additional analysis, frameworks, and management support activities
- Conducting executive and stakeholder workshops and interviews to support complex engagements and to build buy-in across the organization
- Facilitating, coaching, ideation, and support to translate and socialize research findings into actionable strategies
- Professors with Industrial R&D Experience
- Introducing relevant industry insights and case examples to arrive at a solution.
- Risk management advice

A strong student and alumni network to support in ideation

Alumni are the strongest representation of CBIT in the outside world. The CBIT Alumni is a family of more than 30000 Alumni, many of them are doing extremely well in their respective fields and also contributing to the growth of our institute with their support and expertise. The Alumni Relations Team engages in various initiatives to connect with the alumni at various platforms such as -

- ✓ **Mentorship Programs:** Building a strong mentor connect between alumni and interns to help the interns in the organizations.
- ✓ **Alumni connect drives:** Connecting with alumni during various drives and taking their feedback to grow further.
- ✓ **Guest Lectures:** Inviting industry experts to share knowledge with students.
- ✓ **Alumni Meets:** Hosting meets in various cities to develop strong bond with them.
- ✓ **Homecoming** - Alumni from different batches come back to college for two days to relive those moments and memories.

Institute Innovation Cell.

CBIT has established its own Institution's Innovation Cell (IIC) to systematically foster the culture of creative thinking amongst its students aspiring to be entrepreneurs and innovative minds. Primarily, IIC established at CBIT will engage large number of students, faculties in various innovation and entrepreneurship related activities such as ideation, Problem solving, Proof of Concept development, Design Thinking, IPR, project handling and management at Pre-incubation/Incubation stage, etc., to establish innovation and entrepreneurship ecosystem. IIC conducts a number of programs related to Innovation, Incubation, Entrepreneurship, Startups and IPR related activities for the students and faculties in order to create innovation culture.

T-Hub's T-Tribe Launchpad Program.

CBIT, had partnered with A T-Hub's PAN India initiative, that envisions promoting and support Innovation & Entrepreneurship in students thereby creating wealth, strengthening the economy, and establishing sustainable employment opportunities in India. T-Tribe's Launchpad and the Masterclass Programs would nurture & source the individuals and their endeavours and create world-class entrepreneurs. T-Tribe plans to accomplish its goals of creating world-class entrepreneurs through a two-way approach, "Launchpad" and "Masterclass". CBIT has taken membership for the Launchpad Platform i. e One-year long entrepreneurship engagement that is designed for the academic institutions that believe in innovation and entrepreneurship and always go the extra mile in supporting their students to achieve their vision. The Masterclass Program is an entrepreneurship learning and pre-incubation program that is designed for early-stage ideas/start-ups. 50 students of CBIT were nominated and have attended a number of training program sessions arranged under the T-Tribe's Launchpad program from August 20 to April 21. Launchpad programs has focussed on developing an innovation ecosystem among institutions and students. The comprehensive curriculum has also inculcated entrepreneurial competencies and entrepreneurship as knowledge and practice among the nominated students. 40 students have successfully completed and received certificates for the course completion.