

# Centre for Innovation and Entrepreneurship Development (CIED)

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## ABOUT US

Islamic University of Science & Technology has a rich tradition of fostering Entrepreneurship since its inception. It has already thrown up a number of success stories wherein its students have successfully set up diverse businesses of different magnitude. The establishment of Center for Innovation and Entrepreneurship Development Cell (CIED) is a step towards promoting the culture of innovation, incubation in line with the new normal and thought process as envisaged under New Education Policy (NEP 2020) and National Skill Development Mission of the Country.

CIED shall be the front-and-center to identify, nurture, mentor potential Entrepreneurs within Educational Institutions, grass root level innovators with or without any formal education and training and the rest to help them develop tiny, small, medium scale enterprises. Awareness about the importance of incubating new technologies resulting in start-ups and other ventures shall be the main driver of CIED. Business avenues in different sectors relevant to J&K like Food Processing, Horticulture, Tourism, Handicrafts, IECT etc. shall be explored fully and leveraged to create native UNICORNS in future. CIED shall be a bridge between institutions, existing industries, and futuristic ventures for creating successful business enterprises. Intellectual Property Rights, Women Entrepreneurship, Upskilling, Design Innovation and Technology Intervention in Energy and Climate Change to be its main tailwinds.

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## ► Vision:

"To nurture innovation and entrepreneurial culture amongst the youth, and thereby enable them to serve as instruments for enriching the society as a whole"

## ► Mission:

"To act as a catalyst in promoting a culture of entrepreneurship through education, training, research and institution building which, in turn, will help achieve inclusive and sustainable growth of J&K."

## ► Objectives:

- i. To create awareness and provide entrepreneurship education to potential entrepreneurs.
- ii. To design and conduct capacity building and training programs to promote and develop entrepreneurship among various stakeholders.
- iii. To train, mentor, and handhold existing and potential entrepreneurs and IUST students for establishing new businesses.
- iv. To maintain, operate and share infrastructure that would provide technical training through incubation labs to potential and existing entrepreneurs.
- v. To establish and maintain a resource Centre to enable knowledge creation and sharing in the area of management, science, engineering and technology.
- vi. To integrate entrepreneurship in academic programs of IUST and promote entrepreneurship among students of IUST.
- vii. To collaborate with various funding agencies, trade and commerce bodies, industry, and training Centres for entrepreneurship development.
- viii. To provide training and development sessions to rural community (including schools, colleges, and villages) as part of Corporate Social Responsibility (CSR).
- ix. To collaborate with various institutions and experts for helping and guiding entrepreneurship development activities.

## ► Structure:

CIED has the following eight verticals at present. In future, these verticals may be increased based on market dynamics.

- i. Skill and Capacity Development Cell
- ii. IPR/Registration Cell
- iii. Entrepreneurship Development Cell (EDC)
- iv. Technological Business Incubator Cell (TBIC)
- v. Centre of Excellence
- vi. Design and Innovation Centre
- vii. Women's Entrepreneurship Development Cell (WEDC)
- viii. Technology Innovation in Renewable Energy and Climate Change (TIREC)



## ► Skill and Capacity Development Cell:

Skill development and capacity building will be a vital tool to empower the youth to safeguard their future and for the overall development of the individual. Moreover, it will help in developing entrepreneurship skills for corporate leadership. As it is important to develop the required skills at an early stage of the career, parents and teachers are supposed to provide conducive environment to our youth in order to develop the necessary entrepreneurship skills. The cell will work in sync with the mission of Skill India policy.

- The Skill & Capacity building Cell will offer market driven skills to the youth of J&K,
- Besides technical skills, the student will be exposed to conceptual and human skills.
- The students will be also sensitized about the entrepreneurial leadership skill so that they become relevant for current and future market demands.

## ► Intellectual property rights (IPR)/

### Registration Cell:

Intellectual property rights are the rights given to persons over the creations of their minds and gives the creator an exclusive right over the use of his/her creation for a certain period of time. This cell will help students in writing and filing patents and the cost of filing the patent will be borne by CIED as per the terms and conditions of CIED-IUST. Further, the cell will also assist new start-ups to complete the registration process for establishing new companies.

- This cell will provide awareness related to importance of intellectual property in the current globalized world.
- The IPR cell will organize special training on the preparation of Detailed Project Reports (DPRs) as per the specification of the respective industries.
- The students will be exposed to different processes related to filling of IPR/ Company registration.
- Moreover, the cell will help in establishing ideation/ innovation clubs across the UT of J&K.

## ► Entrepreneurship Development Cell (EDC):

The Entrepreneurship Development Cell (EDC) was established in July 2017 with a vision to develop entrepreneurial mind-set among the students of IUST in particular and was subsumed with CIED on 1st September 2021. EDC is intended to go a long way towards the revival of entrepreneurship culture so that our younger generation thinks intuitively in terms of becoming 'employers rather than employees' EDC has Entrepreneurship Start-up Cell (ESC) and Industry-Institute Interaction Cell (IIIC) as its constituent bodies.

- The objective of this cell will be to convert ideas into prototypes so that the same can be recommended for incubation depending upon the technical, marketing, and economic feasibility reports.
- Moreover, it will promote the benefits of Start-up India and Stand-up India to our budding entrepreneurs.

- EDC also helps in incubating micro, small and medium business enterprises, preferably using innovative or patented technologies, so that they contribute towards generation of employment and economic development.
- The Entrepreneurship Start-up Cell (ESC) is intended to help students in providing small seed capital grants for developing innovative prototype products/services. whereas IIIC is supposed to help them in commercialization of their products/services by minimizing the gap between industry and academia.

## ► Technology Business Incubation Cell (TBIC):

The role of TBIC would be to provide all the lab and incubation facility for a period of two years to established start-ups and will include following activities:

- i. To create awareness about innovation in the form of ideation workshops, hackathons, and other promotional events.
- ii. To identify potential ideas that could be developed as production prototypes through pre-incubation activities.
- iii. To provide incubation facilities in the form of:
  - Physical infrastructure (workspace, conference room, meeting place, laboratories, workshops etc.)
  - Utilities like Internet, electricity, water
  - Linkages with mentors, Industry Professionals, Academia, Researchers, Investors, Venture Capitalists
  - Arrangement of Seed Capital
  - Tie-ups with financial institutions
  - Tie-up with Govt. Institutions
  - Marketing support
  - Intellectual property safeguards
  - Legal assistance, CA assistance
  - Launch of start-ups & hand holding support till they achieve sustainability

### ► Centre of Excellence (CoE):

The role of Centre for Excellence (CoE) & Technology Transfer Centre (TTC) would be in the following areas broad areas:

- i. IoT driven applications for smart agriculture, precision farming and water management
- ii. AI/ML based systems as per societal requirements
- iii. Applied Mechanical Engineering and Robotics
- vi. Smart City driven applications
- vii. Web based applications for different platforms.
- iv. Energy efficient systems harnessing photovoltaic energy
- v. Smart Geo-information systems
- vi. Smart City driven applications
- vii. Web based applications for different platforms.

### ► Design Innovation Centre (DIC):

Islamic University of Science & Technology in partnership with the University of Delhi, Jamia Milia Islamia, and School of Planning & Architecture (New Delhi), has established a Design Innovation Centre (DIC) under the MHRD scheme of 'National Initiative for setting up of Design Innovation Centres, Open Design School & National Design Innovation Network'. Till date more than 15 patents have been filed and few of them have been granted.

- The basic purpose of setting up Design Innovation Centres is to promote a culture of innovation and creative problem solving.
- To promote design-based education and practices.
- Moreover, to create an ecosystem facilitating students and faculty to take their innovative ideas from classrooms/labs to market.

### ► Women's Entrepreneurship Development Cell (WEDC):

The objectives of WEDC include:

- i. To identify, encourage and selected potential female entrepreneurs in and outside university by helping them to set up small, medium, and large-scale enterprises.

ii. To create awareness among female students in the UT of Jammu & Kashmir in order to develop their 'entrepreneurial mindset'.

iii. To provide women specific consultancy service or in association with other institutions of national and international repute for the sustainable development of entrepreneurship in the state. institutions/departments and other related organizations in the region/nation engaged in promoting small and medium enterprises (SMEs) including NGOs and other voluntary organizations.

v. To conduct and/or sponsor research in the field of entrepreneurship and also to publish leaflets, books, journals needed for the promotion and development of women entrepreneurship.

### ► Technology Innovation in Renewable Energy and Climate Change (TIREC):

Renewable power could cover up to four-fifths of global electricity supply by 2050 – drastically reducing carbon emissions and helping to mitigate climate change. However, strategies are needed to fully integrate the variable renewables, solar and wind energy. Taking cognizance of the impetus given to renewable energy and climate change, both at the national and global level, also India's commitment towards achieving net zero carbon emission by 2070. Therefore, the TIREC vertical of the organization (CIED) will be helpful in paving ways for promoting research and incubating the ideas encouraging the development of affordable renewable energy.

- The purpose of this cell is to create a proper ecosystem in renewable energy and climate change.
- This cell will create talent pool in the field of renewable energy and climate change.
- The cell will support studies, research, innovation, and incubation of relevant technologies in the renewable energy and climate change.
- The efforts towards monitoring and controlling climate change shall be nurtured under this vertical.

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