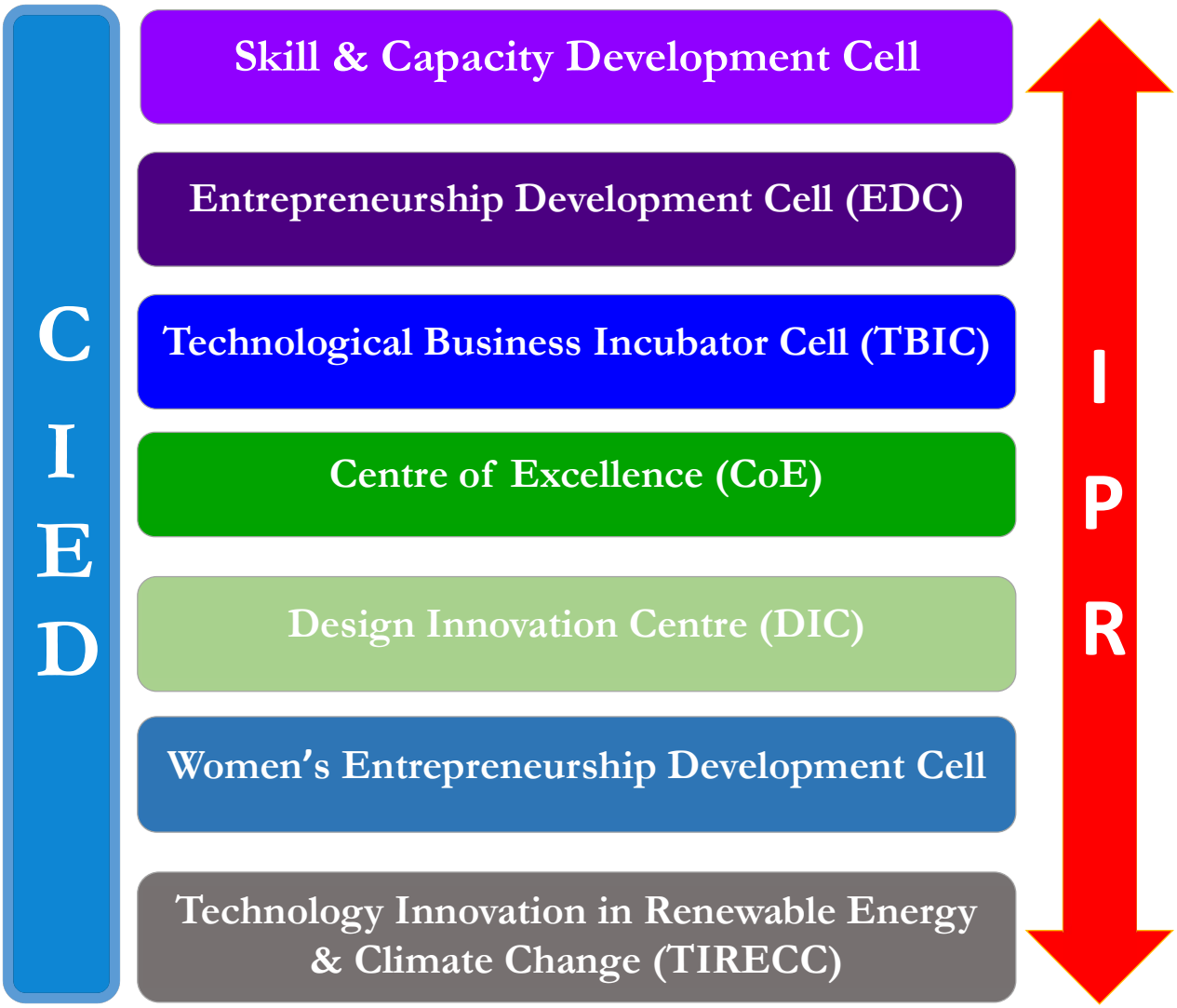
Islamic University of Science and Technology (IUST)

Centre for Innovation and Entrepreneurship Development (CIED)

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)



I. 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 objective of the Skill & Capacity building Cell will be to offer market driven skills to the youth of J&K, so that they become relevant for current and future market demands.

II. Intellectual Property Right (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 organize workshop/seminars on IPR/Company registration and for designing Detailed Project Reports (DPRs) as per the specification of the respective industries. Moreover, the cell will help in establishing ideation/innovation clubs in different departments/institutions of J&K and will try to improve the ARIIA ranking at the national level.

III. 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 17th May 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'. The major application areas of EDC include promoting Entrepreneurship in Science and Technology with special emphasis on Food Processing, Agri-Business, Engineering, Services, Medicinal plants, and Business Management. 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. EDC also has Entrepreneurship Start-up Cell (ESC) and Industry-Institute Interaction Cell (IIIC) as its constituent bodies. 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.

IV. Technology Business Incubation Cell (TBIC):

The role of TBIC would be in the following areas:

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

V. Centre of Excellence (CoE):

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

- IoT driven applications for smart agriculture, precision farming and water management
- AI/MI based systems as per societal requirements
- Applied Mechanical Engineering and Robotics
- Energy efficient systems harnessing photovoltaic energy
- Smart Geo-information systems
- Smart City driven applications
- Web based applications for different platforms

VI. 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'.

The basic purpose of setting up Design Innovation Centres is to promote a culture of innovation and creative problem solving, to serve as a place that imparts design-based education and practice and to create an ecosystem facilitating students and faculty to take their innovative ideas from classrooms/labs to market/people. Till date more than 15 patents have been filed and few of them have been granted.

VII. 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.
iv. To develop linkages with the Industry, R&D institutions and government 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.

VIII. 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. It is enjoined upon IUST to create a proper ecosystem in renewable energy and climate change supporting studies, research, innovation, and incubation of relevant technologies. 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 efforts towards monitoring and controlling climate change shall be nurture under TIREC vertical.