



Institution's Innovation Council (IIC)

Don Bosco College of Engineering

Academic year 2019-2020

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OVERVIEW

Ministry of Human Resource Development (MHRD), Govt. of India has established 'MHRD's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs) to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in their formative years.

MIC has envisioned encouraging creation of 'Institution's Innovation Council' (IICs) across selected HEIs. A network of IICs is established to promote innovation and entrepreneurship in the Institution through multitudinous modes leading to an innovation promotion ecosystem in the campuses. A network of more than 950 IICs was established on 21st November 2018.

MAJOR FOCUS OF IIC

- To create a vibrant local innovation ecosystem.
- Start-up supporting mechanism in HEIs.
- Prepare Institute for Atal Ranking of Institutions on Innovation Achievements Framework.
- Establish function ecosystem for scouting ideas and pre-incubation of ideas.
- Develop better cognitive ability among students.

FUNCTIONS OF IIC

- To conduct various innovation and entrepreneurship-related activities prescribed by Central MIC in time bound fashion.
- Identify and reward innovations and share success stories.

- Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- Network with peers and national entrepreneurship development organizations.
- Create an Institution's Innovation portal to highlight innovative projects carried out by institution's faculty and students.
- Organize hackathons, idea competition, mini-challenges etc. with the involvement of industries.

IIC AT DON BOSCO COLLEGE OF ENGINEERING

IIC at Don Bosco College of Engineering (DBCE) was started in November 2018. Being a part of this project our Institute has participated in Atal Ranking of Institutions on Innovation Achievements (ARIIA) and has given various opportunities to students to participate in various competitions like Smart India Hackathon (SIH), Proof of Concept(POC) to name a few.

For the academic year 2018-19, on a five-star scale, DBCE earned the highest rating of four stars. We have secured the 8th rank out of 159 colleges in the Western/WRO Zone. Among the engineering colleges in Goa, DBCE secured the highest rank.

For the academic year 2019-20, on a five-star scale, DBCE earned the highest rating of 3.5 stars.

INSTITUTIONAL ACTIVITIES

The IIC team at DBCE comprises of:

- President: Dr.Neena Panandikar
- Vice President: Dr.Varsha Turkar
- Convener: Michelle Lilian Araujo e Viegas
- Social Media Coordinator: Avila Naik
- IPR Activity Coordinator: Gaurang Patkar
- Internship Activity Coordinator: Vivek Jog
- Innovation Activity Coordinator: Swapnil Ramani
- ARIIA Coordinator: Anisha Cotta
- NIRF Coordinator: Suraj Marathe
- Startup Activity Coordinator: Satyesh Kakodkar

External Members:

- Patent expert: Shalini Menezes
- Expert from nearby Industry/Industry association/ Ecosystem Enablers: Milind Anvekar
- Incubation Centre: D S Prashant
- Startup/ Alumni Entrepreneur: Shravan Hegde
- Expert from nearby Industry: Gajanan Nagarsekar

In addition there are 14 student members from the entire college.



SMART INDIA HACKATHON (SIH) 2020 INTERNAL CAMPUS HACKATHON

Smart India Hackathon (SIH) 2020 is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. In SIH 2020, the students would have the opportunity to work on challenges faced within various Ministries, Departments, Industries, PSUs and NGOs to create world class solutions for some of the top organizations including industries in the world, thus helping the private sector hire the best minds from across the nation.

In order to shortlist the teams for the Hardware and Software edition of SIH 2020 an Internal Hackathon was conducted in the college campus on 27th January 2020. A total of 22 teams comprising of 6 members each participated in the hackathon. The teams comprised of students from Mechanical, Computers, Electronics & Telecommunication and Civil Engineering. They presented their innovative ideas in front of a two member jury panel comprising of Mr. Aaron Miranda Colaco, Software Consultant, working with Blockchain and Mr. Venu Gopal, Corporate Relation Manager at FIIRE.

In the Hardware edition teams APOGEE and Electrovert emerged as the finalists. In the Software Edition teams INS, Haystack, Bazinga, Innovative Geeks and Mind Benders were declared the finalists. Teams Focus, Rekrete and Squadron-7, Technocrats were placed in the waitlist category in the Hardware Edition and Software Edition respectively.



MHRD's INNOVATION CELL-ONLINE SESSION

Due to the difficulty faced by IIC-Institutes to complete the IIC calendar activities for Quarter 3(Q3) and quarter 4(Q4) for the IIC calendar year 2019-20, IIC-MIC organized 17 e-sessions as e-activities on various themes of Innovation, IPR, Entrepreneurship and Start-up which would replace the physical activities of Q3 and Q4, from 28th April 2020 to 22nd May 2020.

The faculty of Don Bosco College of Engineering-Fatorda attended e-sessions on National Innovation and Start-up Policy for students and Faculty 2019- A Guiding Framework for HEIs for Implementation, Role and Importance of Pre-Incubators, Incubators and Accelerators in HEIs - Harnessing Innovation and Entrepreneurial Potential of Students and Faculties at Early Stage, Hangout with emerging Innovator & Entrepreneurs Supported through MIC & AICTE, Role of network enablers in driving I & E HEI's-A case of TIE-India, Entrepreneurship, Business Idea and Business model canvas to name a few.

These e-sessions covered various topics related to innovation and start-up policies strategies and governance for promoting entrepreneurship such as norms for students and faculty driven start-ups, incubation and pre- incubation support, incentives and rewards for students and faculty pursuing innovation and start-ups, IP ownership and equity / revenue sharing mechanisms to name a few.

Overall the e-session was very informative and well received by the faculty.

Session 3: Hangout with Emerging Innovator & Entrepreneurs Supported through MIC & AICTE

Vandana Thakur, Anil Lohande, Ashwini, Parag Pandey, AICTE

MHRD Ministry of Human Resource Development Government of India

INSTITUTION'S INNOVATION COUNCIL (Council of HE Institutes)

MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

My Achievements so far as Innovator

- Won 2nd for best Idea in Exploring Traditional Remedies in Healthcare under Student Startup Innovation Policy (SSIP) and AIC-LMCP Foundation (ALF), 2019, Govt., of Gujarat
- Finalist of National Innovation Contest 2019, IIC-MIC, AICTE
- Part of Female Entrepreneur Delegation to Canada, CIAP 2020
- Inventor - National Patent Applied (IN 202021010935)
- Recipient of IIC-Innovation Ambassador, MHRD's Innovation Cell

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MHRD

MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL (Council of HE Institutes)

E. Pedagogy and Learning Interventions for Entrepreneurship Development

- Adopt and produce desirable learning outcomes as part of curricular, co- curricular and extra curricular level.
- Create and publish tool kit on innovation and startup and IPR for open access to students and faculties.
- Student clubs/bodies on innovation and IPR and Startup must be established and engaged.
- HEI should start recognizing and giving Innovation and Entrepreneurship awards to best achievers form campus annually, And confer gold medal kind of rewards during convocations ceremony.
- Teaching on tolerating and encouraging failures.
- Creating awareness among students and teaching methods should include case studies of real business stories of failure and success, experiential learnings.
- Pedagogy changes need to be done to ensure that maximum number of students projects and innovations are based around life challenges. It should be constantly reviewed and updated.
- Start a part time or full time MS/MBA/PGDM in Innovation , Entrepreneurship and Venture Development Course to be offered through Incubation Unit as per the AICTE guideline.

Planning an Incubator



Establishing an incubator is a significant, long term investment for the community at stake.

Effective planning is a key factor in ensuring the future success of such an initiative and the return on investment for the principle stakeholders.

THEREFORE - the incubator development team should apply a systematic approach to plan the incubator exploring step by step:

- the feasibility study planning
- the incubator's business plan
- the incubator pc

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MHRD
INNOVATION CELL
UNIVERSITY OF GOA
NATIONAL INSTITUTE OF TECHNOLOGY
GOA

IIC ONLINE SESSION

By

Mr. Sushanto Mitra

Founder & CEO, Lead Angels Pvt. Ltd.



Topic:

Understanding Angel and Venture Capital Funding - What is there for Early Stage innovator & Entrepreneurs



How to find an idea?

Signicent



- Observation
- Web browsing
- Writing Journals
- Book reading
- Socialize Outside Your Normal Circles

signicent.com | patview.com



SELF DRIVEN ACTIVITY

Talk on Innovation and Product Development:

The students were briefed about the skill gap existing in the current crop of graduates and the importance to inculcate right mindset for problem solving. The students were informed that they have to be able to adapt to changing technology and should be able to build their own tools in order to find solutions to their problems.



Mentoring sessions for start-ups with Mrs. Aditi Tiwari on Go to Market Strategy:

Mentoring sessions for start-ups with Mrs. Aditi Tiwari on Go to Market Strategy at FiiRE Fatorda, on 11th and 12th December 2019.



One - One Mentoring Session
with
Aditi Tiwari

Date: 11/12 & 12/12
Time: 10:00 Am - 05:00 PM

OTHER CALENDER AND MIC DRIVEN ACTIVITIES CARRIED OUT THROUGH IIC

India First Leadership Talk Series:

The Honorable HRD Minister, Dr. Ramesh Pokhriyal Nishank addressed the young students on 22nd August 2019 through the MHRD IIC at Don Bosco College of Engineering. Dr. Ramesh Pokhriyal Nishank, a dynamic personality, who has authored several great books, shared his success story. He expressed his views on the importance of moral virtues one has to keep in mind for the development of oneself and hence for the development of the country. He spoke in detail about the qualities a good leader should possess.



My Story - Entrepreneur's Life & Crossroad – Motivational Speak - To be Share by Entrepreneurs:

This talk was for first year students to make them aware of entrepreneurship as a career option.

Field Visit to Village – Identity real Life Problem:

The aim behind conducting this trail in the Western Ghats was to showcase and educate the school children the richness in our biodiversity, explore the forest, learn about our ecosystems, educate them on different types of animal species found or spotted in that area and experience the nature in a different way. It also aimed at students finding problem areas and using technology to come up with solutions.



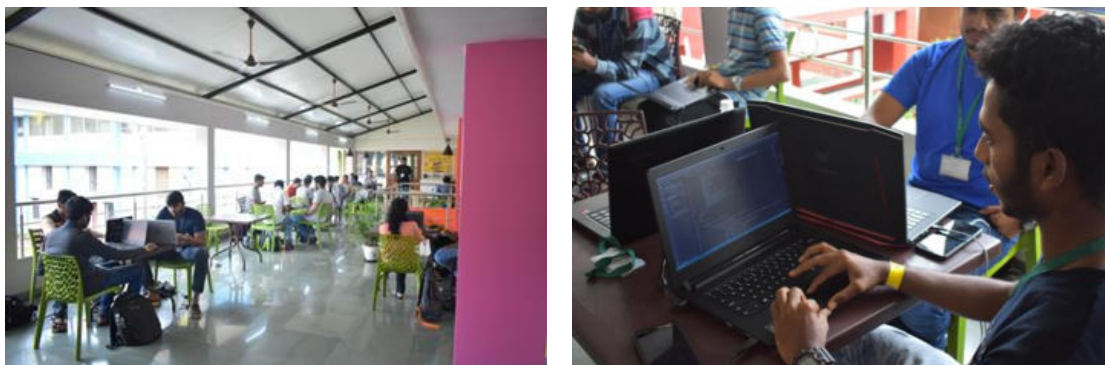
Organized One Day Workshop on “Entrepreneurship and Innovation as Career Opportunity”:

The boot camp was organized to promote an entrepreneurial culture among the students.



Organized One Day Campus Hackathon:

The hackathon was aimed at promoting innovation and coming up with ideas for the startup community housed at the incubation centre FiiRE.



Organized a Poster Competition on Innovation/Social Innovation & Entrepreneurship:



Field Visit to /Tinkering Lab:

The field visit was organized for school children to visit our tinkering lab and a robotics workshop was also conducted on the sidelines.



Innovation Day Campaign:

To mark Dr. A. P. J. Abdul Kalam's Birth Anniversary, various Innovation Campaign Activities were organized between 23rd September 2019 to 15th October 2019.

Workshop on Product Development and Innovation:

The participants were made aware of innovations in AR and VR and were given live demonstrations of the same.



NATIONAL INNOVATION CONTEST 2020

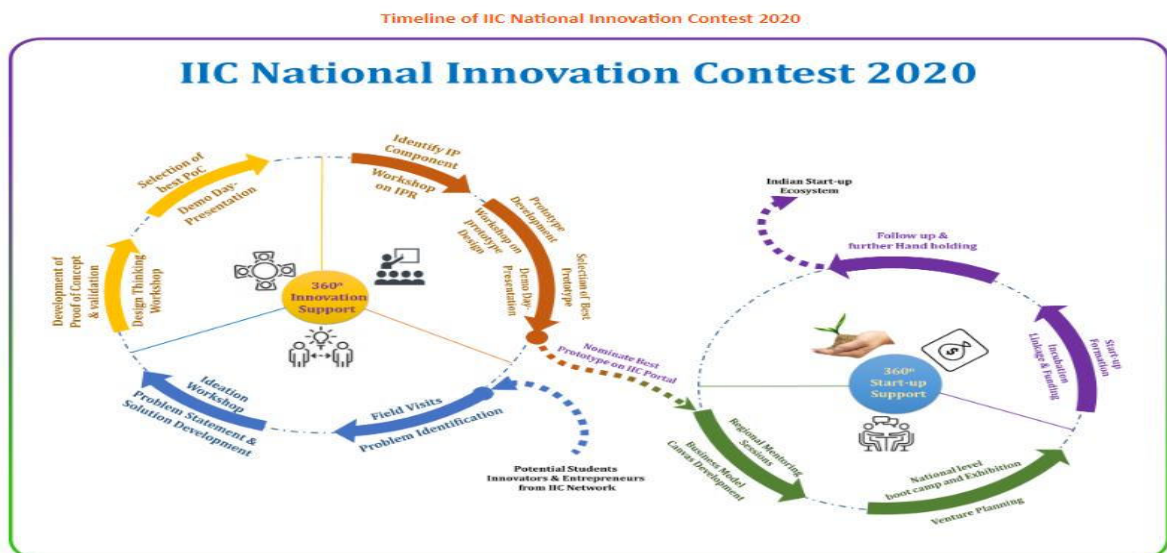
National Innovation Contest 2020: The IIC National Innovation Contest 2020 was announced during the month of February 2020. The 2nd edition of IIC-National Innovation Contest (2020) is currently under progress for the students from IIC-Institutes to take part in this 360-degree innovative and experiential learning process.

A 360-degree approach of Learning: The National Innovation Contest is going to provide 360-degree cycle of learning and understanding the process of innovation and start-up. It is designed in a way that, each team will traverse a path from problem identification and ideation to building business model and finally entering the phase of Enterprise development in a time period of one year.

List of Themes for the Contest:

- Healthcare & Biomedical devices.
- Agriculture & Rural Development.
- Smart Vehicles/ Electric vehicle/ Electric vehicle motor and battery technology.
- Food Processing.
- Robotics and Drones.
- Waste management.
- Clean & Potable water.
- Renewable and affordable Energy.
- IoT based technologies (e.g. Security & Surveillance systems etc.)
- ICT, cyber-physical systems, Blockchain, Cognitive computing, Cloud computing, AI & ML.

11 teams from Don Bosco College of Engineering have submitted their entries for this contest which is still in progress.



IIC RATING CERTIFICATE 2019-20



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