



INSTITUTIONAL INNOVATION COUNCIL, DACN
INNOVATE WITH US

Dr. Ambedkar College, Deekshabhoomi, Nagpur.

Institutional Innovation Council (IIC)

Annual Report 2021-22

A. About IIC Institute

- Vision / Mission of IIC established at the Institute

Vision: To provide an innovation ecosystem for nurturing innovation from idea to practice

Mission: Escalate the institutional standard for creation of world-class entrepreneurship platform

- Journey of IIC established at the Institute

Even before the establishment of IIC at our institute, the department of Biochemistry & Biotechnology provided student consultancy services to nurture innovative ideas of the students. Students were motivated to come forward with their ideas and present it in front of their peers and seniors. Brain storming sessions were conducted to test the validity and innovativeness of the ideas. Post such sessions, students were guided to take their ideas to the PoC level utilizing the research laboratory infrastructure of the institute. Only handful ideas could sustain through this course of testing. Some would totally change till they reach the PoC level. Despite this practice a few students could continue with their ideas to make it to the level of a commercial product development. All this use to happen under the banner of Seeding Labs Campus chapter of our college which came into existence in February 2016 and got affiliated to its parent body Seeding Labs, Boston, USA. Thus, by the emergence and establishment of IIC at our institute, we were already incubating a start-up called Curo Biosciences Pvt. Ltd. which was incorporated in 2019 by alumnus of our College, Mr. Shubhendra Singh Thakur. Previously, he was working on early kidney disease diagnostic strip test but later through such brain storming sessions he decided to work on early oral cancer diagnostic kit using saliva. The idea reached to the PoC level and the prototype was developed after the establishment of IIC and technology incubation center

(TIC) in our college premises. Now the IIC is nurturing two more ideas under the TIC and conducting awareness and training programs to motivate the students in this part of India. During the current Session another start-up establishment happened which was incorporated by Mr. Priyal Dhunde and the company works in the field of sustainable pest management in agriculture sector. This company called the NeoAgrotech is again a biotechnology start-up which was incubated throughout this session and went on to bag the Global Best Student Entrepreneurship Award this year.

We Participated in the The MoE's Innovation Cell led Institutions' Innovation Council's Regional Meet of western region was organized at the G H Rasoni College of Engineering, Digdoh Hills, Hingna Road, Nagpur-440016 (Maharashtra) on 29th July 2022. To represent the achievements of Dr. Ambedkar college's IIC a group of young entrepreneurs and the IIC coordinator of the our college Dr. D. N. Begde went on to participate in the Regional Meet. The IIC of Dr. Ambedkar College, Nagpur also participated in the poster competition which was organized as a part of this regional meet to display the progress of our college's Incubation Centre in last few years. The poster displayed by our college also attracted special attention of the jury members and the invited guests as it showcased the incorporation and development of two start-ups in recent passed working in the sector of Biotechnology. The start-ups nurtured by the college's IIC established their uniqueness not only through new IP registrations but also through bagging various awards in sector of healthcare and student entrepreneurial categories.

The IIC of the institute is now a fully functional body which organizes several MIC and self driven activities pertaining to Entrepreneurship, Innovation, IPR and business planning throughout the IIC calendar year and is striving hard to develop self-employability capabilities amongst its students. Presently, four such innovative ideas are under prototyping at our incubation centre and are being mentored by our experienced faculty members. IIC has now decided to up skill all the faculty members of the college so that many new innovations could be developed at the college level.

- Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.

Our IIC contains a mixed bag of representation from experts across disciplines for holistic development of the students. We have representation of qualified experts from the Department of Biochemistry, Biotechnology, Botany, Zoology, Physics and Law, plus three student representatives and one qualified external member from clinical research industry.

B. Brief mention of key functionaries at the IIC Institute

- **President** : Principal of our college is to initiate and facilitate a dialogue between the college and industry.
- **Vice President**: Handles the MIC driven and self driven activity profile of the institute and co-ordinates the IPR related activities.

- **Convenor:** Has a strong background of legal matters and establishes ground for institutional IPR generation, conducts sessions with students for development of their company profile.
- **Coordinators:** Are assigned with the tasks right from ideation to product development and also to arrange VC interaction of the students for knowledge about successful pitch preparation and fundraise process.

C. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

- Total No. of IIC Members: 12 (including the President)
- Total No. of IAs : 2
- Total No. of faculty Mentors :1 From Portal
- Pre-Incubation Units :1
- Incubation Units :1
- IP Facilitation Unit:1

D. Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

High-end research facility such as recently procured Real-time PCR, Nanotechnology Laboratory, Plant and Animal Cell culture Laboratory, 24x7 High-speed Internet with super processivity computers for the incubatees, 3D printing and IPR filing facility in collaboration with Lemon Ideas center, Nagpur. 300sq ft. Preincubation and 500 sq.ft. Incubation centres with state-of-the-art facilities for incubatees. Student body called Seeding Labs Campus chapter is engaged in arrangement of activities pertaining to ideation, innovation and Entrepreneurship. Another dedicated initiative of the college called UNNATI is run under college's Entrepreneurship development cell to help and motivate the students to become self employed.

E. Highlight Achievements (Narrative/Graphical/tabular representation)

- Number and Different types of I&E and IPR activities Conducted: **5** I&E orientation and IPR filing related activities
- No. of student's & faculty ideas generated: **4**
- No. of student's & faculty Innovation/prototypes developed: **2**
- No. of IPs generated, published and granted: **2**
- No. of Student & Faculty Start-ups/Ventures established: **2**
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus: **Nil**
- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR : **Nil**
- No. of Technology Transfer and Commercialisation happened: **2**

F. Highlight few best IIC Faculty/Student members and their achievements/Rewarded for the innovations at different forum.

1. Mr. Priyal Dhunde has incorporated his own Agri-Biotech company and has won the Global Student Entrepreneurship Award 2021-22 worth rupees 1 Lakh.
2. ErlySign incubated at our IIC became one of the 10 best MedTech Startups 2022 by SiliconCity India, got selected into the 2022 cohort of Mazumdar Shaw Medical Foundation, Selected as Best Early Stage Cancer Diagnostic Start-up (South Asia) by Global Health & Pharma's Seventh Biotechnology Awards, became the only Indian start-up amongst 10 winners of SPARK (early-stage start-ups) competition being organized by World Innovation Summit for Health (WISH).

G. Highlight selected best Innovations & images with mention of inventor/innovation name



Erlysign is a non-invasive early cancer detection kit for oral cancer, using saliva. It is developed by Mr. Shubhendra Singh Thakur and Dr. Deovrat Begde and is marketed by Curo Biosciences Pvt. Ltd. Nagpur.

H. Highlight selected start-ups established by students/faculties with mention of founder/cofounder name

Curo Biosciences Pvt. Ltd. incorporated on 14th August 2019 (CIN-U85300MH2019PTC329302) registered under Startup India (DIPP70563).
 Founder: **Mr. Shubhendra Singh Thakur**
 Co-founder: **Dr. Deovrat Begde**

I. List if any break through Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation)

The early cancer diagnosis test kit named Erlysign was developed in the institute that is capable of early detection of oral cancer just through estimation of active salivary biomarkers. The kit recently got awarded with Indian National Patent and is currently into its clinical trials conducted at HCG, Ltd, Southeast Asia's leader in oncology care.

Another Breakthrough has been achieved in the area of sustainable pest management wherein a Pheromone Based Lure is being developed from genetically modified bacteria to attract male insects to the insect traps in the field to create a disparity of sexes for restricted pest breeding and thereby inducing a biological control mechanism. The traps thus developed have been tested in agricultural fields in and around Nagpur city to gather some encouraging data. Neo Agrotech is branding the said product for marketing.

- J. Participation of IIC-institute in various programs of Central and State Govt. Highlighting specially for the schemes or programs
- ARIIA – participated/ Rank –Performing Institute in non-technical Band
 - NISP Adoption status – Faculty Trained, Policy is in Formulation and will be implemented in current session.
 - Smart India Hackathon etc.-NA-

K. Detail of Social Media & Connections of IIC institute

Facebook Link

<https://www.facebook.com/DRambedkar-college-nagpur-221594994594582/>

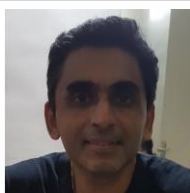
Instagram Link

https://www.instagram.com/dacn_in/?hl=en

Twitter Link

<https://twitter.com/ambedkarcollege?lang=en>

L. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell



Mr. Devang Mehta, Anthill Ventures, Singapore

Mob: +91 77188 88763

Email: devang@anthillventures.com

IIC of Dr. Ambedkar college, is a great initiative to cultivate talent in young innovators and entrepreneurs. This is one such place that is already making a mark on the world map through its innovation incubator.



Dr. Sateesh Kunigal, HCG, Bangalore.

Mob: +91-9686861969

Email: drsateesh.s@hcgel.com

A promising and disruptive technology development is not possible without effective mentoring. Erlysign is one such product that came into existence through tireless efforts from Dr. Ambedkar College, IIC mentors.