



## Annual Report 2020-21

### Institute of Innovation Council POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY JAIPUR

#### A. About IIC Institute

- **Vision / Mission of IIC established at the Institute**

##### **Vision**

To create knowledge-based society with scientific temper through cutting-edge technologies, innovative research and to become valuable resource for enriching mankind.

##### **Mission**

1. To provide an environment that will allow students and faculty members to be skilled in creation and implementation of new ideas.
2. To provide platform to improve questioning, observing, testing, analyzing and communication skills.
3. To provide qualitative education and generate new knowledge with integration of emerging technologies and research.
4. To practice and promote high standard of potential ethics, transparency and accountability

- **Journey of IIC established at the Institute**

In the year 2018, the Ministry of Education (MoE) through MoE's Innovation Cell (MIC) launched the Institution's Innovation Council (IIC) program in collaboration with AICTE for Higher Educational Institutions (HEIs) to systematically foster the culture of innovation and start-up ecosystem in education institutions.

IICs' major role is to engage large number of faculty, students and staff 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., so that innovation and entrepreneurship ecosystem gets established and stabilized in HEIs.

The IIC model is designed to address the existing challenges/issues in HEIs such as less numbers, occasional and unplanned Innovation & Entrepreneurship (I&E) activities organized in HEIs with low involvement of top leadership, lack of coherence and absence of synergy in resource mobilization, deployment and underutilization of creative potential of youths as major barrier for vibrant I&E ecosystem to emerge from HEIs.

IIC model is unique and distinct as it integrates the functionalities of flexibility calendar activities, scoring and reward system, decentralizing operation with division of work, progress monitoring and incentive mechanisms in coordinated manner through a robust digital platform.

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

## **B. Brief mention of key functionaries at the IIC Institute**

### COMMITTEE

<b>Name and Designation</b>	<b>Position</b>
Dr. Dinesh Goyal, Director	Head of Institute
Dr. Pran Nath Dadhich, Professor (Dept. of Civil Engineering)	President
Dr. Gautam Singh, Registrar	Vice President
Mr. Manish Bhardwaj, Assistant Professor, (Dept. of Computer Engineering)	Convener
Dr. Mukesh Chandra, Associate Professor, (First Year Department)	NIRF Coordinator
Dr. Pooja Gupta, Associate Professor (Dept. of Civil Engineering)	Innovation Activity Coordinator
Ms. Priyanka Sharma, Assistant Professor (Dept. of Electronics & Comm. Engineering)	ARIIA Coordinator
Mr. Mohit Bajpai, Assistant Professor, (First Year Department)	Social Media Coordinator
Mr. Arshad Ali, Assistant Professor, (First Year Department)	Start up Activity Coordinator
Mr. Udit Mamodia, Assistant Professor, (First Year Department)	IPR Activity Coordinator
Mr. Mukul Nama, Assistant Professor, (Dept. of Civil Engineering)	Internship Activity Coordinator
Mr. Akhilesh Natani, Director, Appcino Technologies Pvt. Ltd., Jaipur	External Expert
Mr. Puneet Mittal, Co-Founder & CEO, Pratham Software, Jaipur	Industrialists/ stakeholders

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

- Total No. of IIC Members - 13
- Total No. of IAs -4
- Total No. of faculty Mentors from Portal -5
- Pre-Incubation Units, If any 3
- Incubation Units, If any 5
- IP Facilitation Unit, If any

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



**POORNIMA**  
BUSINESS INCUBATION CENTRE

**Poornima Business Incubation Centre (PBIC)** is the venture arm of **Poornima Institute of Engineering & Technology (PIET)** nurtures and fosters incubation of startups. It is an incubation centre for startups whose objectives are to cultivate and promote entrepreneurship among talented youth, students and experienced alike. Anyone with an idea and unflinching determination to give it a shape is an ideal candidate to associate with PBIC. Poornima Business Incubation Centre (PBIC) is set up to promote innovation and entrepreneurship by converting and translating technology ideas and innovation in various disciplines of science and engineering into products, processes and services for commercial exploitation and for the benefit of society. PBIC offers incubation facilities and services to prospective entrepreneurs to their innovative ideas into commercially viable products. PBIC provides certain facilities like physical infrastructure and support systems necessary for business incubation activities, Services such as training or High- speed Internet access, links to higher education resources, accounting and financial management etc. It facilitates networking with professional resources, which include mentors, experts, consultants and advisors for the incubates. PBIC also conducts events like entrepreneurial talk series, workshops, open pitches and seminars to offer a good interface and visibility in the region. **Poornima Institute of Engineering & Technology** has been supporting the new budding Entrepreneurs since 2014 through a club which is known as E-cell and which is now working in coordination with PBIC.

## Structure of PBIC

Mr. Manish Bhardwaj -PBIC Coordinator

Dr.Pran Dadhich -PBIC Coordinator

### Details of Facilities

Dr. Gautam Singh -	PBIC Campus Coordinator, PIET
Dr. Mukesh Chandra -	PBIC Campus Coordinator, PIET
Mr. Deepak Moud -	PBIC Campus Coordinator, PIET
Dr.Megha Gupta -	PBIC Campus Coordinator, PIET

### Physical infrastructure:

- Fully furnished Office Space
- Shared resources: Meeting rooms, Conference rooms.
- Office productivity equipment: Fax, Photocopier, Printer, Scanner, Projector
- Lab: PBIC Lab with Equipment and software tools, Facilitation for access to PIET Labs

### Utility:

- Electricity
- Internet

(# No cost for electricity/internet consumption or any utility or service is charged separately to the Incubates. However, Incubator retains a right to limit the free electricity/internet consumption and other utility, beyond which charges will become payable by the Incubate.)

### Activities organized under EDC / PBIC

Session	SI.No.	Activity Details	No. of Members	Organized/Planned on
<b>Year 2019-20</b>	1	Summer Internship Program in Entrepreneurship (SIPE)	2nd Year Students	3-May-19
	2	Summer Internship Program in Entrepreneurship (SIPE)	3rd Year students	3-Jun-19
	3	Awareness session on IPR, Patent filing and Trademark Registration by Mr. Vikas Asawat	All Students	14-Jul-20

### Activities to be organized under PBIC

Session	S.No.	Name of Session
<b>Year 2020-21</b>	1	General Orientation of PBIC

	2	Social Media Challenge
	3	Panel discussion
	4	Session on "Finance in Startups"
	5	Pitching Workshop
	6	Pitching Competition
	7	Session on "Is College right time of startups?"

### List of Incubates at PBIC

S.No.	Name of Startup	Website / online link	Area
1	Theta Electronics	<a href="http://www.thetaelectronics.in">www.thetaelectronics.in</a>	IOT/Electronic Items
2	Writer's Voice Society	YouTube channel (Cliff hangers by wvs)	Platform for Writers/Poets etc.
3	GoodMinds Club	<a href="http://www.goodminds.in">www.goodminds.in</a>	Academic Counselling
4	RashanBag	<a href="http://www.rashanbag.in">www.rashanbag.in</a> (under construction)	Grocery Home Delivery
5	Origin Club	<a href="http://www.facebook.com/origin.poornima.club">www.facebook.com/origin.poornima.club</a>	Technical and non-technical events

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

- Number and Different types of I&E and IPR activities Conducted -4
- No. of student's & faculty ideas generated -5
- No. of student's & faculty Innovation/prototypes developed -3
- No. of IPs generated, published and granted -5
- No. of Student & Faculty Start-ups/Ventures established-5

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

Mr. Udit Mamodia organized IPR activity as well as he filled patent during this session. He is an active learner and participates in innovative activities.

Mr. Manish Bhardwaj organized Hackathon21, Toycathon2021 and several webinars on startup to provide opportunity to students all over the India.

Dr. Pran N Dadhich Organized Start-up Event, Workshops on Innovation and webinars to promote the innovation culture among students.

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

1. Our students participated in Hackathon organized by Rajasthan Technical University, Kota and bagged third position. Group members are Muskaan bhatia , namrata harsh, naman gupta and namita bilandi. Their innovative project title “Quality Education in rural and semi urban area in times of pandemic (learning across area in times of pandemic (learning across globe, quality learning, etc.)”



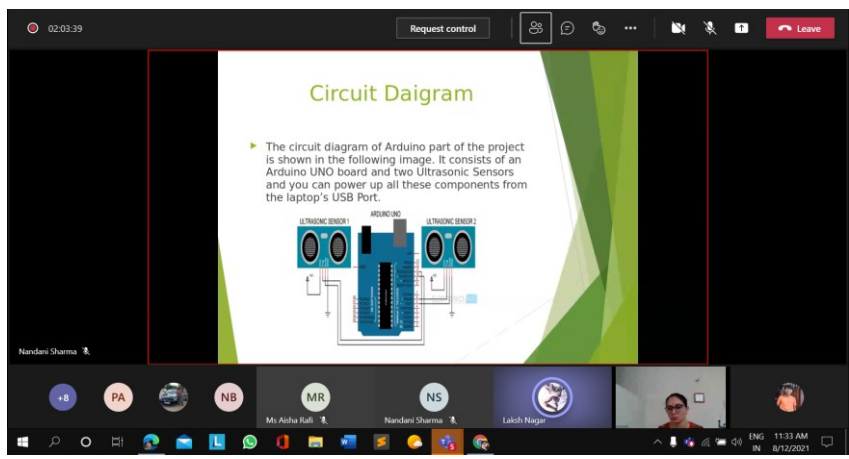
Group Members

2. We are proud to share that our student Mr. Purvansh Singh has been selected by Google to participate in the Google Summer of Code 2021 program, Administered by Google. Google will act as the host organization for the duration of his participation. He is one out of the 1292 students selected among 69 countries Worldwide. He will be working on his innovative idea on Building Banking Service with Hydra Ecosystem & Open Risk.



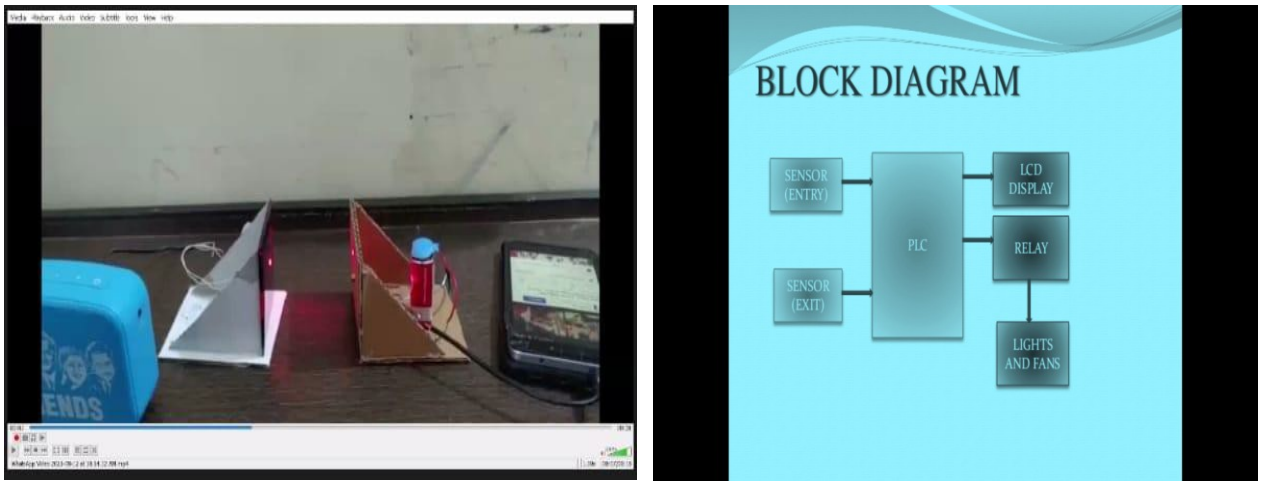
Mr. Purvansh

3. Mr. Laksh Nagar made a Digital Guitar Tuner Using MATLAB during this online learning due to Pandemic. This innovative idea of Laksh will certainly help to online learner of Guitar. Mr. Laksh Nagar is student of First year.



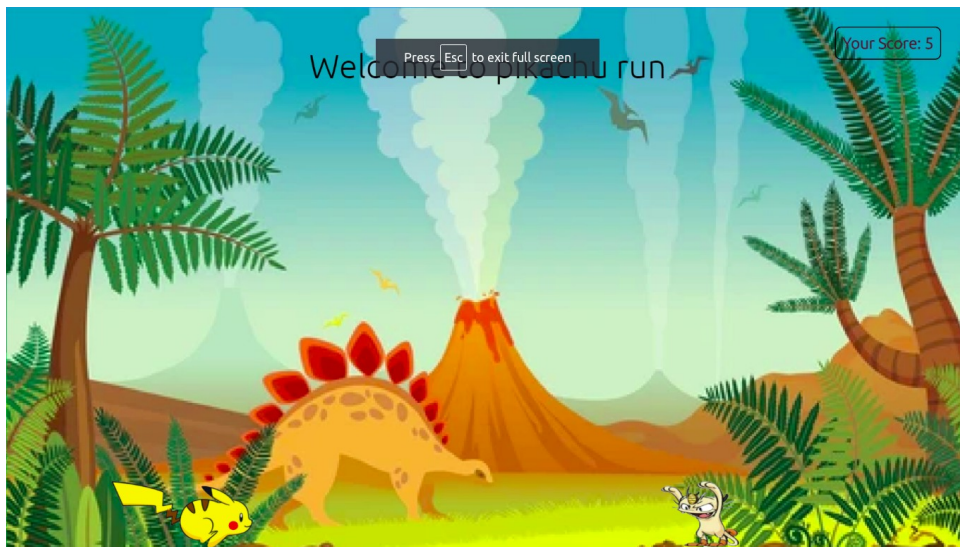
Guitar Tuner Project

4. Automatic room light controller with bi-directional visitor counter prepared by Mr. Ritik Sahu. This innovative approach will certainly help especially able persons.



Automatic Room Light Controller Project

5. Pika run is a one-man game that is easy to play. But it is a little hard when you go far by increasing the score the speed of the pikachu increases which makes the game difficult. It is fun to play and a very basic game. This is a web based game made in html,css & javascript. It is designed by Mr. Tushar Sumar student of first year.



PikaRun Game Project

6. Light Fidelity (Li-Fi) is VLC, visible light communication technology which utilizes light to transmit data and position between devices. The term was first introduced by Professor Harald Haas during a 2011 TEDGlobal talk. This project prepared and designed by Mr. Gaurav Soni.



Demonstration of Li-Fi