



KPR Institute of Engineering
and Technology
(Autonomous)
Avinashi Road, Arasur, Coimbatore - 641 407



INSTITUTION'S INNOVATION COUNCIL

ANNUAL REPORT
ACADEMIC YEAR 2020-21

INSTITUTION'S INNOVATION COUNCIL

2020 – 2021

A. ABOUT IIC

Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years.

MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs) across selected HEIs. **A network of IICs** are established to promote innovation and entrepreneurship in the Institution through multitudinous modes leading to an innovation promotion ecosystem in the campuses. MIC has established Institution's Innovation Council in more than 2200 Institution's till November 2020.

Vision and Mission of IIC established at the Institute

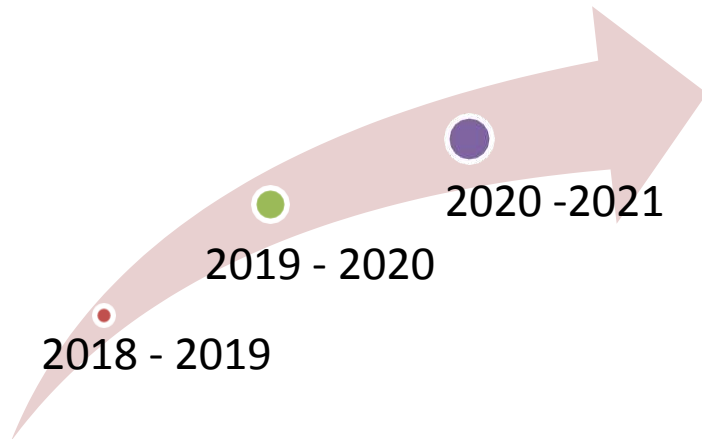
- To create a vibrant local innovation ecosystem.
- Start-up supporting mechanism in HEIs.
- Prepare institute for Atal Ranking of institutions on innovation achievements framework.
- Establish function ecosystem for scouting ideas and pre-incubation of ideas.
- Develop better cognitive ability among students.

Functions of IIC

- To conduct various Innovation, IPR and entrepreneurship-related activities prescribed by 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.

Journey of IIC established at the Institute



Diversified representation in the IIC established at the Institute from Industry , Interdisciplinary and Departments / Units etc.

The aim of this Centre is to achieve excellence in R&D using latest technology at the global level and produce trained professional manpower for the industry. In addition to many of the core engineering and science departments several state-of-the-art research units of the Institute carry out research under the academic umbrella of KPR.

B. Brief mention of Key functionaries at the IIC Institute

KPR- IIC -ID : IC201810247
KPR-IIC-PRESIDENT : Dr.AKILA M PRINCIPAL, KPRIET
KPR-IIC-VICE PRESIDENT: Dr.V.VIGNESH ASSOCIATE PROFESSOR / CSE
KPR-IIC-CONVENOR : Dr.TAMILSELVAN K.S ASSOCIATE PROFESSOR/ECE
KPR-IIC-HEAD : Dr.K.S.ELANGO ASSOCIATE PROFESSOR / CIVIL
CIIED-HEAD : Dr.S.RAMACHANDARAN PROFESSOR/CHEMICAL
BANNER



RATING CERTIFICATE 2019-2020



MEMBERS**COUNCIL MEMBERS - INTERNAL**

Sl.No	Name Of Faculty Member	Designation	Department	Keyrole / Position Assigned In IIC
1.	Dr.M.Akila	Principal	Principal	President
2.	Dr.S.Ramachandaran	Professor	Chemical	CIIED-Head
3.	Dr.V.Vignesh	Associate Professor	CSE	Vice-President
4.	Dr.K.S.Tamilselvan	Associate Professor	ECE	Convener
5.	Dr.K.S.Elango	Associate Professor	Civil	Innovation Activity Coordinator
6.	Dr.G.Anusha	Head of the Department	CIVIL	Internship Activity Coordinator
7.	Mr.D.Balaji	Assistant Professor (Sl.Gr)	Mech	IPR Activity Coordinator
8.	Dr.D.Surendran	Professor	CSE	ARIIA & NIRF Coordinator
9.	Dr.R.Dharmaraj	Associate Professor	Civil	Startup Activity Coordinator
10	Mr.S.Mohanraj	Assistant Professor (Sr.Gr)	CSE	Social Media Coordinator
11	Mr.K.Saravanan	Assistant Professor (Sr.Gr)	ECE	Member
12	Mr.Allwyn Gnanadas	Assistant Professor (Sr.Gr)	BME	Member
13.	Mr.S.Vivekanandan	Assistant Professor (Sl.Gr)	EEE	Member
14.	Dr.E.Nakkeeran	Assistant Professor (Sr.Gr)	Chemical	Member
15.	Dr.K. Ravi Kumar	Professor	Mech	Member
16.	Mr.R.Sampath Kumar	Assistant Professor (Sl.Gr)	EEE	Member

COUNCIL MEMBERS - EXTERNAL

Sl.No	Name Of Member	Industry	Role
1.	Mr.P.S.Kannan	TBI – Kongu Engineering College, Perundurai	Member
2.	Mr.Srivinoth	Federal Bank, Coimbatore	Member
3.	Mr.Ravikumar	Roots Multiclean Ltd., Coimbatore	Member
4.	Mr.Soundararaj	Renso Automotive and Aerospace Services, Coimbatore.	Member
5.	Ms.Aruna Thangaraj	AGT Electronics	Member
6.	Dr.Joshy V Cherian	Omega Ecotech Products India Pvt.Ltd., Saravanampatty, Coimbatore	Member
7.	Mr.Raja Rajan	Boston Creative Company, US	Member
8.	Mr.R.S.Venkatachalam	Wizaard systems	Member

COUNCIL MEMBERS -STUDENTS

Sl.No.	Name of the Student Incharge	Department	Year	Section	Position Assigned In IIC
1.	RAMYA LAKSHMI	CSE	I	C	Innovation Cell
2.	SHRI VISHNU	ECE	I	C	IPR/Techn
3.	KOWSALYA	EEE	I	A	Research Park
4.	BHARANITHARAN S	CIVIL	I	A	Incubation & Pre-Incubation
5.	RITHIKA	CHEMICAL	I	A	Innovation and Entrepreneurship Development Cell
6.	HARIHARASUDHAN	MECH	I	A	EDE
7.	HARINI	AI & DS	I	A	Design Centre
8.	VYTHEESHWAR P	BME	I	A	NewGenIEDC

C.Portfolio / Graphical /Tabular Representation of Resource strength (Human capital and Physical Capital) of the IIC Institution

Sl.No.	Data	Volume
1	Total Number of IIC Members	32
2	Total Number of IAs	13
3	Total Number of Faculty Members from Portal	16
4	Pre-Incubation Units , if any	1
5	Incubation Units, if any	0
6	IP Facilitation Unit, if any	1

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

In the promotion of Innovation and Entrepreneurship in the campus, **Centre for Innovation Incubation and Entrepreneurship Development cell (CIIED)** is initiated. Students can utilize this cell for the purpose to establish startup, utilization of pre-incubation unit to promote innovative ideas to prototype with further evaluation by industry experts it is converted to product.

E.Highlight Achievement (Narrative / Graphical /Tabular Representation)

Sl.No.	Highlight Achievemmet	
1	Number and Different types of I&E and IPR activities Conducted	75
2	Number of students and faculty ideas generated	30
3	Number of student's faculty innovation / prototype developed	10
4	Number of IPs generated, published and granted	68
5	Number of Student & Faculty startup/ ventures established	2
6	Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	Rs.90,000
7	Amount grant or fund supported to student & faculty lead , Innovations, startups and IPR	Rs.4,50,000
8	Number of technology transfer and commercialization happened	6

F.Highlight few best IIC Faculty / Student Members and their achievements. Rewarded for the Innovations at different forum (Profile of few faculties with 2-3 line of their achievements.

- **Dr.V.Vignesh (IIC-Vicepresident)**
 - Publish papers in reputed journals with Industry peoples.
 - Published patents and attended various contest.
 - Received many awards
 - Advisory board member in Incubation unit
 - Act as resource person to promote innovation and entrepreneur
 - Acted as Jury for various project competition
- **Dr.K.S.Elango (IIC Innovation Activity coordinator)**
 - Publish papers in reputed journals with Industry peoples.
 - Published patents and attended various contest.
 - Received many awards
 - Act as resource person to promote innovation and entrepreneur
 - Acted as Jury for various project competition
- **Dr.R.Dharmaraj (Head – Entrepreneurship Development Cell)**
 - Publish papers in reputed journals with Industry peoples.
 - Published patents and attended various contest.
 - Received many awards
 - Act as resource person to promote innovation and entrepreneur
 - Acted as Jury for various project competition

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

1.Foot Operated Hand Washer

- ❖ To help the people to avoid any contact with water tap or the hand wash dispenser by hand.
- ❖ To keep the people safe from getting infected through contact by hands.
- ❖ To minimize the water usage.

Product Done by:

B.E. Mechanical Engineering (Batch 2017-2021) students:

1. M.Suresh Babu
2. S.Saravana Bharathi
3. R.Vidya Sakar

Guided by:

Mr.B.K.Saravanan, AP/Mechanical



2. Fahrentizer

- ❖ To prevent and control virus epidemics in public places like scenic spots, train stations, supermarkets, hospitals, office building, educational institutions etc.
- ❖ To help the people to avoid any contact with sanitizer dispenser by hand.
- ❖ To keep the people safe from getting infected through contact by hands.

Product Done by:

B.E. Mechanical Engineering (Batch 2017-2021) students:

1. R.Kavinesh
2. R.D.Kishore Kumar
3. R.Karthik Vishal

Guided by:

Mr.B.K.Saravanan, AP/Mechanical



3. SOWAIER

- ❖ To help the people to avoid any contact with water tap or the hand wash dispenser by hand.
- ❖ To keep the people safe from getting infected through contact by hands.
- ❖ To minimize the water usage.
- ❖ To eliminate water from the hands using a dryer.
- ❖ To prevent and control virus epidemics in public places like supermarkets, hotels, hospitals, office buildings, educational institutions etc.

Product Done by:

B.E. Mechanical Engineering (Batch 2017-2021) students:

1. S.Kavin Pradeep
2. J.Kesava Prasath
3. M.Karthikeyan
4. S.A.Lalith Kishore

Guided by:

Mr.B.K.Saravanan, AP/Mechanical

**4. Distembot**

- ❖ To ensure social distancing between people.
- ❖ To measure human body temperature continuously.
- ❖ To alert the supervisor when the body temperature of the employee exceeds normal.

Product Done by:

B.E. Mechanical Engineering (Batch 2017-2021) students:

1. D.N.Naga Surya
2. V.M.Prranesh
3. T.Mohan Das

Guided by:

Mr.B.K.Saravanan, AP/Mechanical & Mr.E.Joel, AP/Mechanical



5. SOCIZER DRONE

- ❖ To prevent and control virus epidemics in public places like daily and weekly markets, tourist spots and parks.
- ❖ To ensure that the people are maintaining the social distancing.
- ❖ To spray the disinfectant safely, rapidly, easily and avoid the contact of disinfectant on human beings.

Product Done by:

B.E. Mechanical Engineering (Batch 2017-2021) students:

1. S.Praveen Kumar
2. D.Mathiarashan
3. S.G. Padrinath
4. R.Mayilsamy

Guided by:

Mr.B.K.Saravanan, AP/Mechanical



6. MEDIDOC

- ❖ To make the health checkup process more efficient and smooth in hospitals.
- ❖ To optimize and transparent the queue in hospitals.
- ❖ To allocate resources better to improve operations and cost-savings further by saving the patient's data in hospitals.
- ❖ To reduce the need for staff who are just there to maintain order and guide patients, hence contributing to cost-savings for hospitals.

Product Done by:

B.E. Mechanical Engineering (Batch 2017-2021) students:

1. A.Jeevanantham
2. M.Keerthi Ganesh
3. M.Kirubaaharan
4. S.Hariharan

Guided by:

Mr.B.K.Saravanan, AP/Mechanical

& Mr.P.Nikhil Babu, AP/Mechanical



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

LIST OF STARTUPS INCUBATED BY KIC

Name of the Startup	Name and contact details of the founders	About Startup	Kind of support by KIC
4K Technologies	R. Karthik Vishal R. Kavinessh R.D. Kishore Kumar S. Kavin Pradeep karthikvishal711@gmail.com 8072963653 www.4k-technologies.com	FAHRENTIZER – Automatic Sanitizer contactless Dispenser	Seed Grant of 1.5L and Co working Space
EQUBZ	Sasidharan S equbzofficial@gmail.com 8508460823 www.equbz.com	EQUBZ develops new innovative batteries that can play a major role in future automotive Industry.	Seed Grant of 3L and Co working Space

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

1. Smart Vehicle parking system
2. Automatic Light On/Off System For Indoor
3. Smart Weather Monitoring System
4. Smart Staircase system
5. Smart Street light system

J.Participation of IIC-institute in various programs of Central and Stage Govt.Highlighting specially for the schemes or programs

- ARIIA – participation and Rank **: Submitted**
- NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation **: Implemented**
- Smart India Hackathon etc. **: Conducted**

K.Detail of Social Media & Connections of IIC institute

- Facebook : <https://www.facebook.com/KPRIETonline>
- Instagram : <https://www.instagram.com/kprietonline>
- Twitter : <https://twitter.com/KPRIETonline>

L :Testimonials from IIC members and external about IIC institute and IIC ofMoE’s Innovation Cell

Message from Mr.R.S.Venkatachalam External Expert Member/IIC/KPRIET



Message from Mr.S.Sasidharan Final EEE/KPRIET/IIC-Member



M.Images



N.Contact

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