

ANNUAL REPORT 2022-23
KMEA ENGINEERING COLLEGE
KMEA Institution's Innovation
Council (K-IIC)



A. ABOUT K-IIC

The Institution's Innovation Council at KMEA Engineering College is focused on building a full ecosystem to encourage an innovation culture across the KMEA, from ideacreation to pre-incubation, incubation, and graduation from the incubator as successful start-ups. KMEA IIC or K-IIC will also focus on evaluation methods to identify and nurture students who will transition from dependent to startup status. IIC was established to inspire our students' creativity to work on new ideas and innovation and to promote them in the creation of start-ups and entrepreneurial enterprises. K-IIC has taken steps to inculcate the incubation and start-up mantra among students and faculties by aligning with various state and central government programs over the years.

Vision

To cater for the needs of students as well as faculty entrepreneurs with innovative ideas of social relevance and thereby disseminating a culture of entrepreneurship in the campus which will boost our education system and thereby growing the national economic and social development. Also, to inculcate the incubation start-up practices among students, through their academic calendar, making them nurture their ideas, bring them to conceptual stage, promote funding through various schemes and programs, while encouraging them to transform to a start-up through incubation.

Mission

To develop a system with the required infrastructure that can enable students and faculty to innovate and prototype their ideas with industrial standards and support from Government, industry and reputed academic institutions around the world and help them to realize their potentials

Journey of IIC at KMEA

KMEA IIC or K-IIC was established in the year 2018, under MoE- GOVT of India to establish an innovative and startup ecosystem on the campus. IIC follows the activity calendar provided by MoE. KMEA IIC became one of the

IICs in Kerala with THREE Star performance in the year 2018-2019, FIVE star rating for the academic year, 2019-2020, FOUR star rating for the academic year, 2020-2021 and THREE POINT FIVE star rating for 2021-2022. The college is actively participating in MIC driven activities, IIC driven activities and self-driven activities on innovation, IPR and entrepreneurship.

Objectives of K-IIC

- To streamline the activities under the KIC for value addition towards IIC and ARIIA ranking
- To understand, evaluate and disseminate objectives framed under each KIC entity so that the objectives may be equally shared and supplemented, while not contradicting each other.
- To work in alignment with National objectives under the NISP program, while excel in contribution towards IIC and ARIIA each academic year.
- To disseminate information at each level in the college, working towards common goal, while passing information to students and faculty so that innovation and start-up culture may be inculcated through concentrated efforts.
- To evaluate the performance of each entity in KIC, to do a mapping between efforts and outcomes on a regular basis.
- To equip students to test, fail and then correct their ideas so that they are made industry ready to leave the campus.
- To be a guiding light in the society, where the institution exist, addressing socioeconomic, women empowerment, environmental and gender neutrality issues.
- Be the framework for students and faculties to develop their ideas, while identifying the support programs and initiatives by the Government at state and central levels.

Functions of K-IICs

- To conduct various innovation and entrepreneurship-related activities prescribed by IIC in a 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 the institution's faculty and students.
- Organize Hackathons, idea competitions, mini-challenges etc. with the involvement of industries.

B. Key Functionaries at K-IIC

Sl. No.	Name of Member	Member Type (Teaching/ Non-teaching / External expert)	Key Role/ Position assigned in IIC
1	Dr. Amar Nishad T.M	Head of the Institution	Member
2	Dr. Rekha Lakshmanan	Vice Principal	Member
3	Mr. Prasant Balakrishnan	External expert	Member
4	Ms. Preethi M	External expert	Member
5	Mr. Mathew Lijo Luckose	External expert	Member
6	Ms. Jeena Yousuf	External expert	Member
7	Mr. Joby Mattathil Johnson	External expert	Member
8	Mr. Sanjay Menon	External expert	Member
9	Dr. Sangeetha C P	Teaching	President
10	Mr. Muhammed Ajmal	Teaching	Vice President
11	Ms. Fazna Nazim	Teaching	Convener and KDISC coordinator

12	Dr. Sajith T A	Teaching	Innovation activity and KDISC coordinator
13	Dr. Ajay Rane	Teaching	Startup activity and Social mediacoordinator
14	Mr Rajeesh R Pillai	Teaching	Internship activity coordinator
15	Mr. Ajasudheen V A	Teaching	NISP coordinator
16	Mr. Binish M C	Teaching	IPR coordinator
17	Ms Jasna A Azeez	Teaching	ARIIA coordinator
18	Dr Smitha K M	Teaching	NIRF coordinator
19	Dr Faseela C K	Teaching	IEDC coordinator
20	Ms. Abeera V P	Teaching	EDC coordinator
21	Ms.Shaila C K	Teaching	E-Yantra coordinator
22	Ms. Shahina M S	Teaching	Tinker hub coordinator
23	Ms. Shikha U S	Teaching	Hack Club coordinator

24	Dr Biji Chinamma Thomas	Teaching	Yukti and ASAP coordinator
25	Mr. Muhammed Yasar C A	Teaching	PMKVY coordinator
26	Ms. Shyni Shajahan	Teaching	Member
27	Ms. Lakshmi E G	Teaching	Member
28	Ms. Neenu B	Teaching	Member
29	Mr. Ajmal E B	Teaching	SDPK coordinator
30	Ms. Abini M A	Teaching	Member

External Representation from Industry:

Sl. No.	Name and Details
1	Mathew Lijo Luckose, Manager, Central Bank of India
2	Joby Mattathil Johnson, CEO, Aldrin Agro Pvt Ltd
3	Prasanth Balakrishnan, COO, Maker Village
4	Sanjay Menon, CEO Envigo Technologiues
5	Jeena Yousuf, Linsys Innovations Pvt Ltd

- K-IIC consists of 30 teaching faculties and 20 student members from different departments united for the same goal of working for the vision and mission of IIC at the institution during the academic year 2022-2023.
- During the academic year 2022-2023, 20 faculties were trained as Innovation ambassadors. Out of 20, 10 IAs undergone advanced level training.
- At KMEA we have a DIC sponsored incubation unit with all the lab and infrastructure facilities, in which currently one company has been given pre-incubation space to develop their idea and product.
- At K-IIC, under the leadership of the senior innovation ambassadors, we host an

IPR Cell to facilitate all the IP related activities.

C. PORTFOLIO

SI No	Resource Title	Strength
1	IIC Members	50
2	Innovation Ambassadors	20
3	Faculty Mentors	10
4	Incubation Unit	2000 sq. ft

D. INFRASTRUCTURE AND FACILITIES

The institution has a sprawling campus spread over 25 acres and 70.529 cents with modern buildings, technology-enabled classrooms, internet with Wi-Fi, library with a reading room, digital library, well-equipped laboratories, central computing facility, spacious hostels for the students, seminar halls and an auditorium. We have 33 spacious classrooms with proper ventilation and lighting, of which 12 classrooms are equipped with ICT facilities. We have four seminar halls with ICT facilities. The college has well-equipped labs for all branches that incorporate modern technology and facilitate interactions between faculty members and students. Sports facilities for students such as basketball court, football and cricket ground, volleyball court, indoor badminton court etc. are provided. All sports activities are coordinated by the Department of Physical Education. There are sufficient numbers of conference halls and an auditorium for organizing cultural and literary events. A fully equipped auditorium with a seating capacity of 1000 is available for organizing intercollegiate as well as Intra college cultural events every year.

IEDC

IEDC stands for **Innovation and Entrepreneurship Development Centre**, is conducting different innovative and start-up activities to enable students to start startups. These activities are funded by the start-up mission of Kerala state. Students and teachers are participating in various startup activities in college and outside. Faculty Coordinators of the club are Mr. Amal M R and Asst. Prof. Rajeesh R Pillai and the student coordinator is Mr Jishfan from the ME department.

EDC

The Entrepreneurship Development Club (EDC) at KMEA is promoted by the Govt. of Kerala Directorate of Industries & Commerce to foster techno-entrepreneurship for the generation of wealth and employment. The mission of the EDC is to develop institutional mechanisms to create an entrepreneurial culture among the stakeholders and to foster growth entrepreneurship amongst the students, faculty and the society at large. The faculty coordinator of the EDC at KMEA is Asst. Prof Abeera V P with student coordinator Ms Ameena A K.

Electronic Incubator (Electronic Startup Incubator)

This is a facility having 2000 sq. ft., established by DIC to perform student's ideation and prototype development needs. Students and teachers are using this facility for their entrepreneurship development. A team of KMEA alumni has been given pre- incubation space to develop their idea and product. They are proceeding with the registration of the company and also have acquired their incubation space with all the facilities provided by the college in the incubation period.

K-DISC (Kerala Development and Innovation Strategic Council)

The Kerala Development and Innovation Strategy Council, (K-DISC) is a strategic think-tank and advisory body constituted by the Government of Kerala. K-DISC aims at bringing out path-breaking strategic plans that reflect new directions in technology, product and process innovations, social shaping of technology and creating a healthy and conducive ecosystem for fostering innovations in the State.

The various objectives of KDISC are promotion of innovation, establishment of a supportive eco system, enhancing of innovation spirit and talent, specifically young talent, developing systems for translational Engineering in the State jointly with universities, etc. We are actively participating in Young Innovators Programme which aims to empower future innovators to innovate new products, services or models to meet emerging requirements, unarticulated needs, or existing market needs of the society more effectively through an innovative challenge. Also, KMEA is joining hands with other higher educational institutions for KDISC- Innovation cluster program to support various MSME clusters. Two funded projects (Edathala Panchayath Kudumbasree and Aluva Plastics) were awarded as part of One District One Idea (ODOI)- MSME innovation cluster development programme.

Intellectual Property Rights (IPR) Cell

IPR Cell adopts a sound IP strategy, to secure IPR for a large base of knowledgeable faculties and highly talented students at the college to promote their regular project and research activities having innovation potential. The IPR Cell is an exclusive unit dedicated to strategizing the process of setting up structured

processes to identify, facilitate and develop innovation at the campus. IPR cell is here to provide relevant, timely and targeted support to inventors in protecting their IPR and to boost confidence in generating IPR to make the innovator or entrepreneur self-reliant in finance and preserve their ideas/innovations. The faculty coordinator for the IPR Cell in KMEA is Asst. Prof Binish M. C and the student coordinator is Mr Sharan K S.

E. ACHIEVEMENTS

Sl.No	Achievements	Number
1	I&E, IPR activities	65
2	Ideas generated	79
3	Innovation prototype developed	15
4	No. of IP filed	1
5	Amount spent for promotion of innovation-related activities	65000
6	Amount fund supported to students	25000

F. BEST IIC STUDENT ACHIEVEMENTS

Sl.No.	Name of student	Department	Company
1.	Abdul Hafis	EEE, 2018-2022	Hardware Engineer, Nimo Innovation Pvt Ltd.
2.	Sharan K S Divya Lakshmi P Muhammed Jezwan	ECE, 2019-2023 ECE, 2019-2023 CSE, 2020-2024	Directors, Protoheim Pvt Ltd.(Incubatee-KMEA Incubation Centre)
3.	Mansoor Majeed Fahas Basil K j Shahanaz A H Abdul Sameeu Aman T F Nidal Yoonus Selmanul Farizy C A Kalidas Fathima Shebreen Dhilshad V A	CSE, 2020-2024 CSE, 2020-2024 CSE, 2020-2024 CSE, 2020-2024 CSE, 2020-2024 CSE, 2020-2024 CSE, 2021-2025 CSE, 2021-2025 CSE, 2021-2025 CSE, 2021-2025	TZET IT Solutions Pvt Ltd.(Incubatee-KMEA Incubation Centre)
4.	Muhammed Jezwan Aina Fathima Abina Fathima	CSE 2020-2024	Company: Menosafe Received idea generation fund of Rs. 90000/- from Chunauti Scheme, STPI, Govt of India Project:Sanitary Napkin Vending Machine
5.	Fathima Asna M A Noorul Haque T N Adarsh T S	CE 2021-2025 ECE 2021-2025 ECE 2021-2025	Team: iBIN Received idea generation fund of Rs. 90000/- from Chunauti Scheme, STPI, Govt of India Project: Smart Bin
6.	Fathima Asna M A	CE 2021-2025	Selected as Campus Executive Entrepreneurship cell IIT Bombay

G. BEST INNOVATIONS

- iBIN:An innovative waste management technique which got selected for Chunauti funding of Rs. 90000/- during 2022-23 by Asna Fathima, S5 CE
- Automatic Sanitary Vending Machine: Women empowerment project received funding from Chunauti scheme Rs. 90000/- by Ms. Aina and Jeswan, S7 CSE

H. STARTUPS ESTABLISHED AT KMEA INCUBATION

Sharan K S Divya Lakshmi P Muhammed Jezwan	ECE, 2019-2023 ECE, 2019-2023 CSE, 2020-2024	Directors, Protoheim Pvt Ltd.(Incubatee-KMEA Incubation Centre)
Mansoor Majeed Fahas Basil K j Shahanaz A H Abdul Sameeu Aman T F Nidal Yoonus Selmanul Farizy C A Kalidas Fathima Shebreen Dhilshad V A	CSE, 2020-2024 CSE, 2020-2024 CSE, 2020-2024 CSE, 2020-2024 CSE, 2020-2024 CSE, 2020-2024 CSE, 2021-2025 CSE, 2021-2025 CSE, 2021-2025 CSE, 2021-2025	TZET IT Solutions Pvt Ltd.(Incubatee-KMEA Incubation Centre)

I. PARTICIPATION IN VARIOUS PROGRAMS

- **ARIIA (Atal Ranking of Institutions on Innovation Achievements)**

ARIIA is established by MoE-GOVT of India for ranking educational institutions based on innovative and startup activities organized in the institution. KMEA participated in the 2019-2020 ARIIA ranking process and obtained 64th position in the national level ranking. KMEA is included in the 'PROMISING BAND' of ARIIA ranking for the academic year 2019-2020. KMEA also participated in NIRF innovation category during 2022-23.

- **NISP ADOPTION STATUS**

The NISP cell has been formed with the faculty coordinator as Ms. Jasna K Azeez. The NISP institute cell has framed startup policy for KMEA and it is approved.

- **SMART INDIA HACKATHON 2022**

KMEA Engineering college and its students are active members of the Smart India Hackathon. Five teams from KMEA participated in SIH 2022.

- **YUKTI SCHEME**

KMEA participated in e-repository YUKTI scheme where staff and students contributed 78 ideas, 15 prototypes and 2 startups through IIC portal.

J. SOCIAL MEDIA DETAILS



K. TESTIMONIALS

Dr Sangeetha CP, IIC President

“KMEA-IIC has started functioning from the year 2018 onwards. The growth of innovative culture among staff and students has been visible from the various activities and competitions conducted within and outside KMEA. IIC-MoE is the motivation behind the innovation, start-ups and IPRs in KMEA”

L. CONTACT

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