ANNUALREPORT2023-24 KMEAENGINEERINGCOLLEGE KMEAInstitution's Innovation Council (K-IIC)



A. ABOUTK-IIC

The Institution'sInnovation Councilat KMEAEngineering College isfocused on building afull ecosystemtoencouragean innovation cultureacross theKMEA,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 facultiesbyaligningwithvariousstateandcentralgovernmentprogramsovertheyears.

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

JourneyofIICatKMEA

KMEA IICorK-IIC wasestablished in theyear2018,underMoE-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 withTHREEStarperformanceintheyear2018-2019,FIVEstarratingfor academicyear,2019-2020,FOURstarratingfortheacademicyear,2020-2021,THREEPOINTFIVEstarratingfor2021-2022andTHREEPOINT FIVE star rating for 2022-2023. Thecollege is actively participating in MIC driven activities, IIC driven activities and self-driven activities on innovation, IPR and entrepreneurship.

ObjectivesofK-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 passinginformation to students and faculty so that innovation and startup culture may be inculcated though concentrated efforts.
- Toevaluatetheperformanceofeach entityinKIC,todoamappingbetweenefforts 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, womenempowerment, environmental and gender neutrality issues.
- Be the framework for students and faculties to develop their ideas, whileidentifying the support programs and initiatives by the Government at state and central levels.

FunctionsofK-IICs

- To conduct various innovation and entrepreneurship-related activities prescribedby IIC in a time-bound fashion.
- Identifyandrewardinnovationsandsharesuccessstories.
- 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 anInstitution's Innovation portalto highlight innovativeprojectscarriedout by the institution's faculty and students.
- Organize Hackathons, idea competitions, mini-challenges etc. with theinvolvement of industries.

B. KeyFunctionariesatK-IIC

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SI. No.	NameofMember	Member Type (Teaching/ Non- teaching/External expert	Key Role/ Position assignedin IIC
1	Dr.AmarNishadT.M	HeadoftheInstitution	Member
2	Dr.RekhaLakshmanan	VicePrincipal	Member
3	Mr.ManuFrancis	Externalexpert	Member
4	Ms.SreevidyaKG	Externalexpert	Member
5	Mr.DixonMelittJames	Externalexpert	Member
6	Ms.JeenaYousuf	Externalexpert	Member
7	DrBijeshPaul	Teaching	IQACcoordinator
8	Dr.SangeethaCP	Teaching	President
9	Mr.MuhammedAjmal	Teaching	VicePresident
10	DrSmithaKM	Teaching	Academics coordinator
11	Dr.SajithTA	Teaching	Research&NIRF coordinator

12	Ms.FaznaNazim	Teaching	IICConvener
13	Mr.PaulosePaulose	Teaching	Startupactivity coordinator
14	MrRajeeshRPillai	Teaching	Internship activity coordinator &KDISCcoordinat or
15	Mr.RijulM	Teaching	IEDCNodalOfficer
16	Ms.AliyaShahul	Teaching	IEDCAsstnodal Officer
17	Mr.BinishMC	Teaching	IPR&Incubation coordinator
18	MsJasnaAAzeez	Teaching	ARIIA&NISP coordinator
19	DrFaseelaCK	Teaching	Hackclubcoordinator
20	Ms.AbeeraVP	Teaching	EDCcoordinator
21	Ms.ShailaC K	Teaching	E-Yantracoordinator
22	Ms.ShahinaMS	Teaching	Tinkerhub coordinator
23	Ms.ShikhaUS	Teaching	HackClub

			coordinator
24	DrBijiChinammaThomas	Teaching	YuktiandASAP coordinator
25	Ms.SabeenaSalam	Teaching	PMKVYcoordinator
26	Ms.ShyniShajahan	Teaching	Member
27	Ms.LakshmiEG	Teaching	Member
28	Ms.Neenu B	Teaching	Member
29	Ms.AbiniMA	Teaching	Member
30	Dr.DanielPaulT	Teaching	Member
31	Ms.AsnaFathima	Student(CE)	IICStudentPresident &Innovationstudent coordinator
32	Mr.FarhanShabeer	Student(CE)	IIC/YuktiStudent Vice President
33	Mr.PranavMohanan	Student(CE)	Social media student coordinator&ARIIA President
34	Mr.MansoorMajeed	Student(CS)	Startupstudent coordinator

35	Ms.Asiya	Student(CS)	EDCPresident
36	Mr.AhamedJishfanMS	Student(ME)	IEDCPresident
37	Ms.ShahanazAH	Student(CS)	IEDCVicePresident
38	Mr.MuhammedRiyasM	Student(ME)	KDISCPresident
39	MsAfreethaAfzal	Student(EI)	E-YantraPresident
40	Ms.AnupamaPT	Student(EC)	IPR-President
41	Mr.SalmanulFarizy	Student(CS)	TinkerhubPresident
42	Ms.SafnaPH	Student(EEE)	HackclubPresident
43	MrAnandhuBalachandran	Student(ME)	KICConvener
44	Mr.JenjaxVJ	Student(EEE)	Member
45	Mr.MuhammedArshaq	Student(EC)	Member
46	MohamedMusthafaAK	Student(RA)	Member
47	SarangK	Student(RA)	Member
48	MuhammedNiyas	Student(RA)	Member

ExternalRepresentationfromIndustry:

Sl.No.	NameandDetails
1	Mr.ManuFrancis
2	Ms.SreevidyaKG
3	Mr.DixonMelittJames
4	Ms.JeenaYousuf

- •K-IIC consists of 26 teaching faculties and 19 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 2023-2024.
- During the academic year 2023-2024, 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 preincubation space to develop their idea and product.
- At K-IIC, under the leadership of the senior innovation ambassadors, we host anIPR Cell to facilitate all the IP related activities.

C. PORTFOLIO

SlNo	ResourceTitle	Strength
1	IIC Members	50
2	InnovationAmbassadors	20
3	FacultyMentors	10
4	IncubationUnit	2000sq.ft

D. INFRASTRUCTUREANDFACILITIES

Theinstitution has a sprawling campusspreadover25 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 33spaciousclassroomswithproperventilationandlighting,ofwhich12classrooms

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 interactionsbetween 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 availablefor 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 areparticipating in various startup activities in college and outside. Faculty Coordinators of the club are Mr. Paulose Paulose and Mr. Rijul M 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 technoentrepreneurship 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 tofostergrowth 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.

ElectronicIncubator(ElectronicStartupIncubator)

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 withthe 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(KeralaDevelopmentandInnovationStrategicCouncil)

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 pathbreaking 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, servicesor 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.

IntellectualPropertyRights(IPR)Cell

IPR Cell adopts a sound IP strategy, to secure IPR for a large base of knowledgeablefaculties and highly talented students at the college to promote their regular project andresearchactivities having innovation potential. TheIPRCell 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 ishere 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 theIPRCellinKMEA isAsst.ProfBinish M. C and the student coordinator is Mr Sharan K S.

Sl.No	Achievements	Number
1	I&E,IPRactivities	65
2	Ideasgenerated	79
3	Innovationprototypedeveloped	15
4	No.ofIPfiled	1
5	Amount spent for promotion of innovation- related activities	65000
6	Amountfundsupportedtostudents	25000

E. ACHIEVEMENTS

F. BESTIICSTUDENTACHIEVEMENTS

Sl.No.	Nameofstudent	Department	Company
1.	AbdulHafis	EEE,2018-2 022	HardwareEngineer,Nimo InnovationPvtLtd.
2.	Sharan K S DivyaLakshmiP MuhammedJezwan	ECE,2019-2023 ECE,2019-2023 CSE,2020-2024	Directors,ProtoheimPvt Ltd.(Incubatee-KMEA Incubation Centre)
3.	MansoorMajeed Fahas Basil K j Shahanaz A H Abdul Sameeu Aman T F Nidal Yoonus Selmanul Farizy C A Kalidas FathimaShebreen DhilshadV A	CSE,2020-2024 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	TZETITSolutionsPvt Ltd.(Incubatee-KMEA Incubation Centre)
4.	MuhammedJezwan Aina Fathima Abina Fathima	CSE2020-2024	Company: Menosafe Receivedideagenerationfund ofRs.90000/-fromChunauti Scheme, STPI, Govt of India Project:Sanitary Napkin Vending Machine
5.	FathimaAsnaMA NoorulHaqueTN Adarsh T S	CE2021-2025 ECE2021-2025 ECE2021-2025	Team:iBIN Receivedideagenerationfund ofRs.90000/-fromChunauti Scheme, STPI, Govt of India Project: Smart Bin
6.	FathimaAsnaMA	CE2021-2025	SelectedasCampusExecutive Entrepreneurship cell IITBombay

G. BESTINNOVATIONS

- a. iBIN:Aninnovativewastemanagementtechniquewhichgotselectedfor Chunauti funding of Rs. 90000/- during 2022-23 by Asna Fathima, S5 CE
- b. Automatic Sanitary Vending Machine: Women empowerment project received funding from Chunauti scheme Rs. 90000/- by Ms. Aina and Jeswan, S7 CSE

H. STARTUPSESTABLISHEDATKMEAINCUBATION

Sharan K	ECE,2019-2023	Directors, Protoheim Pvt
SDivyaLakshmi	ECE,2019-2023	Ltd.(Incubatee-KMEA
Р	CSE,2020-2024	Incubation Centre)
MuhammedJezwan		
MansoorMajeed	CSE,2020-2024	TZETITSolutionsPvt
FahasBasilKj	CSE,2020-2024	Ltd.(Incubatee-KMEA

ShahanazAH	CSE,2020-2024	IncubationCentre)
AbdulSameeu	CSE,2020-2024	
AmanTF	CSE,2020-2024	
NidalYoonus	CSE,2020-2024	
SelmanulFarizy	CSE,2021-2025	
CAKalidas	CSE,2021-2025	
FathimaShebreen	CSE,2021-2025	
DhilshadVA	CSE,2021-2025	

I. PARTICIPATIONINVARIOUSPROGRAMS

• ARIIA(AtalRankingofInstitutionsonInnovationAchievements)

ARIIAis 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 and 2023-24.

• NISPADOPTIONSTATUS

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

• YUKTISCHEME

KMEA participated in e-repository YUKTI scheme where staff and studentscontributed82 ideas, 18prototypesand 2startupsthrough IICportal.

J. ACHIEVEMENTS

- ▶ KMEA-IIC received star rating of 3.5 by Ministry of Education, Government of India
- KMEA Engineering college has been selected as 'Mentor' for five mentee institutions to streamline and assist the IIC activities in their campus
- IIC President of 2023-24, Dr Sangeetha C P has been invited as a resource person for the IIC Regional Meet 2024 at CUSAT on 16 January 2024 by MIC, GoI
- Anandhu Balachandran and Ammer Shahul M P of ME Department bagged second prize in stae level competition organised by Kerala State Productivity Council, February 2024-10-26
- > Three student team got shortlisted for Tomato Grand Challenge(TGC) 2023 by MoE, GoI
- Agrispan student project of Robotics and Automation department got shortlisted by e-Yantra Innovation Challenge, IIT Bombay
- Two student team from RA and ECE department participated in surface boat competition at IIT Madras, April 2024-10-26

- > Third startup of KMEA registered by Fathima Asna of Civil Engineering, May 2024-10-26
- Nafeeela And Asst Prof Suriya Prasanth got shortlisted for paper presentation on the occasion of International Women's day at VSSC, Trivandrum
- Agrispan project of Robotics department got shortlisted by KTu to exhibit at Robotics round table at Grand Hyatt, Kochi by Industries department, Government of Kerala, 23 August 2024
- Mubeena Mirshad of ECE department got shortlisted to attend the prestigious national level IDE boot camp by AICTE, MoE, GoI at RIT Kottayam, September 2024.

K. SOCIALMEDIADETAILS



L. TESTIMONIALS

DrSangeethaCP, IICPresident

"KMEA-IIC has startedfunctioningfrom 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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