Annual Report 2022-23
Institution's Innovation Council (IIC)
Mar Baselios College of Engineering and Technology (Autonomous)
Mar Ivanios Vidyanagar, Trivandrum, Kerala

A. About IIC MBCET

Ministry of Human Resource Development (MHRD), Govt. of India has established 'MHRD's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst 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.

Major focus

- 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 for Technology Students

Vision

To become a Centre of Excellence in Innovation and Entrepreneurship.

Mission

1. To develop and encourage the spirit of innovation among students for handling socially relevant projects.
2. To spearhead the Institutional Innovation Rankings.
3. To kindle a Learner centered approach that focuses on entrepreneurial skill upgradation.
4. To enable an ecosystem that promote start-ups and entrepreneurial ventures of students, faculty and staff

IIC MBCET is actively involving in spreading the spirit of innovation and entrepreneurship in and out the campus by conducting various activities in domains like Innovation, Entrepreneurship and IPR, strictly adhering to the guidelines of MIC from the year 2018 and awarded with 4.5 star rating for the excellent performance in the academic year 2019-20,4 star (the highest rating) in the academic year 2020-21 and 3.5 star rating in 2021-22 academic year.

In addition to all the activities, faculty members from MBCET have attended the Innovation Ambassador training (Foundation Level and Advanced Level), the students have participated in the National Innovation Contest, developing online repository, ATL linkage, Mentor Mentee Program and Smart India Hackathon.

The summary of activities conducted by the IIC MBCET during the academic year 2021-22 are listed below.

- IIC calendar Activities   –   13
- MIC driven Activities   –   3
- Self-Driven Activities   –   11
- Celebration Day Activities -   4

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

Sr. No.	Name of Member	Member Type (Teaching/ Nonteaching /Student/External Expert)	Key Role/ Position assigned in IIC
1	Mr Arun J S	Teaching	Vice President
2	Mr. Jijo Jose	Teaching	Convener
3	Mr Sherry Varghese George	Teaching	Social Media Coordinator
4	Ms Lakshmy S	Teaching	ARIIA & NIRF Coordinator
5	Dr.Lani Rachel Mathew	Teaching	NISP Coordinator
6	Dr Prasanth P.S	Teaching	IPR Activity Coordinator
7	Ms Anila A. V.	Teaching	Secretary & Faculty in Charge for Yukthi
8	Dr Dishore S V	Teaching	Innovations Coordinator
9	Ms. Sreeja S R	Teaching	Internships Coordinator
10	Ms. Ansu Mathew	Teaching	Start up Coordinator
11	Dr Pradeep M.	Teaching	Member
12	Ms Sherin Mathew	Teaching	Member
13	Mr Shiras S N	Teaching	Member
14	Mr. Deepu S Nath	External Expert	Member
15	Mr V. K. Adarsh	External Expert	Member
16	Mr. Ashok Kurian Panjikkaran	External Expert	Expert from Nearby Incubation Center
17	Mr. Safikh	External Expert	IP / Patent Expert
18	Mr. Savio Victor	External Expert	Member- Alumni Entrepreneur
19	Mr. Allen Fencer	Student	IIC Lead & Innovation Coordinator
20	Ms. Rithika Pradeep	Student	IIC Co Lead & Startup Coordinator
21	Mr. Abhiram Krishna P S	Student	Collaboration &Internship Coordinator
22	Mr. Prajwal P P	Student	Social Media Coordinator
23	Mr. A R Gokul	Student	Marketing & IPR Coordinator
24	Mr. Chris Mathew	Student	Member

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

Total No. of IIC Members	24
Total No. of IAs	Foundation Level – 4 Advanced Level – 2
Total No. of faculty Mentors	6
Pre-Incubation Units	

	Name of the Incubation centre	Dr. APJ Abdul Kalam Centre for Innovation, Incubation and Entrepreneurship (ACIIE)
	• Thrust Area	Electronics & IT
	• No of Start-up Incubated	7
	• Faculty In charge	Mr. Arun J S, Assistant Professor

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

- **Name of the pre- incubation centre** - Dr. APJ Abdul Kalam Centre for Innovation, Incubation and Entrepreneurship (ACIIE)
- **Types of Services offered** –
  - Mentoring support
  - Seed grant assistance
  - Incubation facility
- **Facilities** –
  - IEDC Maker Space
  - Access to software and hardware Lab
  - High Speed Internet Connectivity
  - Access to Experts/Mentors/Advisory support
  - Access to Library and e Library of the institution
  - Access to Venture capital fund support
  - Co working space at Incubation Unit
  - Grand and Mini Challenges, Competitions etc
  - Idea/innovation validation consultation and expert service
  - PoC validation
  - Provide access to avail seed/grant support/ access to Govt. schemes available

- **Student Bodies/ Club –** **Innovation and Entrepreneurship Development Centre(IEDC) –** Established under Kerala Start-up Mission (KSUM)

E. Highlight Achievements (Narrative/Graphical/tabular representation)
   - Number and Different types of I&E and IPR activities Conducted

SL No	Activity Type	Title
1	IIC Calendar Activity	My Story - Motivational Session by Successful Entrepreneur/Start-up founder.
2	IIC Calendar Activity	Workshop on "Entrepreneurship and Innovation as Career Opportunity"
3	IIC Calendar Activity	Demo Day/Exhibition/Poster Presentation of Ideas/PoC & linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR
4	MIC Driven Activity	Launch of 5G services
5	Self-Driven Activity	INNOVATIONS 101

6	Self-Driven Activity	Innovative Project Selection and Patenting
7	Self-Driven Activity	Incubation Opportunity for Faculty and Students
8	IIC Calendar Activity	Workshop on Entrepreneurship Skill, Attitude and Behavior Development
9	IIC Calendar Activity	Inter/Intra Institutional Innovation Competition/Challenge/Hackathon and Reward Best Innovations - Manage through YUKTI-NIR
10	IIC Calendar Activity	Workshop on Design Thinking, Critical thinking and Innovation Design
11	IIC Calendar Activity	Session on Achieving Problem-Solution Fit & Product-Market Fit
12	MIC Driven Activity	Leadership Talk with Prof. T. G. Sitharam, Hon'ble Chairman, All India Council for Technical Education (AICTE)
13	Self-Driven Activity	We have a dream - women exclusive workshop and idea competition
14	Self-Driven Activity	Entrepreneurship Opportunities in Biomedical Field
15	Self-Driven Activity	Entrepreneurs Skill Development Program on AI with Computer Vision
16	Celebration Activity	National Science Day
17	Celebration Activity	National Youth Day
18	IIC Calendar Activity	Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support – Manage through YUKTI-NIR
19	IIC Calendar Activity	Workshop on Intellectual Property Rights (IPRs) and IP management for start up
20	IIC Calendar Activity	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/ Technology Transfer Centre such as Atal Incubation Centre etc
21	Self-Driven Activity	Sustathon - Sustainability Hackathon Challenge
22	Self-Driven Activity	Assistive Technology Internship for Innovators and Starups
23	Self-Driven Activity	A talk session on Accelerating Change - Be the change you want to see in the world
24	Celebration Activity	International Women's Day
25	Celebration Activity	Independence Day- Celebrating Aazadi Ka Amritkal

26	Self-Driven Activity	MongoDB Masterclass: Nurturing Techpreneurs of Tomorrow
27	Self-Driven Activity	Fueling Innovation: Empowering Tomorrow's Entrepreneurs with Energy Conservation
28	Self-Driven Activity	Entrepreneurial Insights: Charting Career and Life Paths
29	MIC Activity	IIC 5.0 Annual Report (2022-23)
30	IIC Calendar Activity	Organising Innovation & Entrepreneurship Outreach Program in Schools/Community
31	IIC Calendar Activity	Session on Accelerators/Incubation - Opportunities for Students & Faculties - Early Stage Entrepreneurs
32	IIC Calendar Activity	Session on Innovation/Prototype Validation – Converting Innovation into a Start-up or Session on Achieving "Value Proposition Fit" & "Business Fit"

- No. of student's & faculty ideas generated – 92
- No. of student's & faculty Innovation/prototypes developed - 40
- No. of IPs generated, published and granted - 2
- No. of Student & Faculty Start-ups/Ventures established.- 0
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus – 9,50,000
- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR - 8,50,000
- No. of Technology Transfer and Commercialisation happened - 0

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

1. **Mr. Arun J S** – Innovation Ambassador(Advanced Level)
2. **Mr. Jijo Jose** – Innovation ambassador (Advanced Level), Principal Investigator, KSUM-KWA Hackathon
3. **Mr. Sherry Varghese George** – Innovation Ambassador
4. **Mr. Pradeep M** – Innovation Ambassador
5. **Mr. Shiras S N** – Innovation Ambassador
6. **Ms. Sherin Mathew** - Innovation Ambassador

G. Highlight selected best Innovations & images with mention of inventor/innovation name
Environ - Campus Utility Vehicle (CUV)
The Electric Campus Utility Vehicle, developed by the dedicated innovative team at the Department of Mechanical Engineering, is an eco-friendly, electric vehicle designed to serve the needs of the campus community. This initiative aligns with the college's vision of promoting green technology and creating a more environmentally conscious campus.

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

- Name of the start-up :EcoRich Technologies
- Sector or domain of operation : Health Care, Agritech
- Products   : Grow Mira, Ckit, Napkin Incinerator
- Names of founders : Vishnu P Kumar (CEO), Milad Muhammed (CTO)

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

Environ - Campus Utility Vehicle

J. Participation of IIC-institute in various programs of Central and Stage Govt. Highlighting specially for the schemes or programs
- ARIIA – participation and Rank
    - Institute have participated in ARIIA 2022 ranking
    - Faculty Coordinator **: Ms. Lakshmy S,** Assistant Professor, Dept. of Electronics & Communication Engineering

- **NISP Adoption status** - Trained Faculty, Policy Formulation, Policy Implementation
    - Faculty Coordinator: **Ms. Lani Rachel Mathew,** Assistant Professor, Dept. of Electronics & Communication Engineering
    - Policy formation/Implementation Status : The Innovation & Start-up policy of MBCET has been approved by the NISP (National Innovation and Start-up policy) panel of the Ministry of Education.

- ATL Lnkage
    - IIC MBCET Choose 3 ATL Schools in Trivandrum

K. Detail of Social Media & Connections of IIC institute

- Facebook : officialmbcet
- Instagram : officialmbcet
- Twitter : officialmbcet

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

M. **Contact**

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