A.V.C.COLLEGE OF ENGINEERING
MAYILADUTHURAI, MANNAMPANDAL – 609 305
Approved by AICTE, Affiliated to
Anna University, Chennai Re-
accredited by NAAC 'B++' Grade
(An ISO 9001:2015 Certified Institution)

ANNUAL REPORT 2024-2025

A. About IIC Institute
- Vision / Mission of IIC established at the Institute

Vision:

To nurture a culture of **innovation, creativity, and entrepreneurship** within the institution by empowering students and faculty to transform ideas into impactful solutions that contribute to **national development and societal well-being.**

Mission:

B. **To develop an innovation ecosystem** that encourages ideation, experimentation, and problem-solving among students and faculty.
C. **To promote entrepreneurial thinking** by providing mentorship, training, and resources for startup development.
D. **To strengthen collaboration** with industry, academia, and government organizations for innovation and research activities.
E. **To organize regular events, workshops, and hackathons** to build skills and awareness about innovation and intellectual property.
F. **To encourage the conversion of innovative ideas** into prototypes, patents, and viable business ventures.
- Journey of IIC established at the Institute

The **Institution's Innovation Council (IIC)** was established at **AVC College** of Engineering under the initiative of the **Ministry of Education's Innovation Cell (MIC), Government of India**, with the goal of fostering innovation, entrepreneurship, and creativity among students and faculty members.

Since its inception, the IIC has played a pivotal role in nurturing an innovative mindset and promoting a vibrant ecosystem for ideation, incubation, and startup development within the campus.

Formation and Early Phase

- The IIC at the institute was formed in alignment with the **national IIC framework** to systematically encourage innovation-driven activities.
- The council was constituted with representatives from faculty, students, industry experts, and innovation ambassadors.
- Initial activities focused on **awareness sessions**, **orientation programs**, and **innovation motivation talks** to familiarize students with the objectives of IIC.
- The council registered under **MoE's Innovation Cell (MIC) portal** and began

participating in the national ranking framework and IIC calendar activities.

Growth and Development
Over the years, the IIC evolved from conducting awareness programs to developing a **structured innovation ecosystem** on campus.
Key milestones include:

- Organizing **Innovation and Entrepreneurship Development Programs (IEDP)** and **Startup Bootcamps.**
- Conducting **Hackathons, Idea Competitions, and Prototype Exhibitions** to encourage hands-on innovation.
- Establishing linkages with **MSME, Incubation Centers, and Industry Experts** for mentoring and funding support.
- Encouraging students to **file patents and publish innovative research papers.**
- Forming **Innovation and Startup Clubs** that regularly conduct events to promote creative problem-solving.

Recent Achievements

- Recognition under the **IIC Star Rating** system for consistent performance in innovation activities.
- Participation in national-level programs such as **Smart India Hackathon, YUKTI Innovation Challenges**, and **Vishwakarma Awards.**
- Several student teams developed **working prototypes and startup proposals**, guided by faculty innovation coordinators.

Future Vision
The IIC aims to transform the institute into a **Center of Innovation and Entrepreneurship Excellence** by:

- Establishing **Incubation and Pre-incubation facilities** on campus.
- Promoting **interdisciplinary innovation projects** and **industry-driven research.**
- Enabling students to become **job creators rather than job seekers.**
- Contributing actively to the goals of **"Atmanirbhar Bharat" (Self-Reliant India)** through technological innovation and startup culture.

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

The **Institution's Innovation Council (IIC)** at **[Institute Name]** is structured to encourage **diverse representation** from multiple domains to foster a rich and holistic innovation ecosystem. This ensures that students, faculty, and external stakeholders collaborate effectively to promote innovation, entrepreneurship, and creative problem-solving.

Key Aspects of Diversified Representation

Industry Experts and Entrepreneurs:

- External professionals, successful entrepreneurs, and industry leaders are included as **advisors or mentors**.
- They provide **real-world insights, guidance on market feasibility, and mentorship** for student projects and startups.

Interdisciplinary Faculty Members:

- Faculty from different disciplines such as **Engineering, Science, Management, and Humanities** contribute to the council.
- This **interdisciplinary approach** promotes cross-functional thinking and ensures solutions are comprehensive and practical.

Departmental Representation:

- Each department/unit in the institute has **faculty coordinators or innovation ambassadors** as members of the IIC.
- This encourages **department-specific innovation initiatives** and ensures active participation from all academic units.

Student Representation:

- Selected students from various departments are part of the council as **Student Innovation Ambassadors**.
- They serve as **bridges between faculty and peers**, encouraging student engagement in innovation activities, competitions, and entrepreneurial programs.

Collaborations with Incubators and Research Centers:

- Representatives from **institutional incubators, research centers, and innovation labs** are included to provide technical support and mentoring.
- This ensures projects move from **idea to prototype and potential commercialization** efficiently.

Government and Policy Representatives (Optional):

- Occasionally, experts from **MIC, Startup India, or related government innovation initiatives** participate in advisory roles.
- They guide the council on compliance, funding opportunities, and national-level innovation programs.
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G. Brief mention of key functionaries at the IIC Institute

INSTITUTION'S INNOVATION COUNCIL

The following are the members of IIC.

S.No	Name of the Member	Member Type	Key Role / Position Assigned in IIC
1.	Dr.K.R.Vinothini	Faculty	IIC President
2.	Dr.K.Keerthi	Faculty	Vice President
3.	Dr.N.Dhanasekar	Faculty	NIRF Coordinator
4.	Dr.M.Latha	Faculty	Start-up Activity Coordinator
5.	Dr.M.S.Gayathry	Faculty	Entreprenuership Activity Coordinator and ARIIA Coordinator
6.	Dr.A.Balaji	Faculty	NISP Coordinator

7.	Dr.R.Renukadevi	Faculty	NISP Activity Coordinator
8.	Dr.R.Kanimozhi	Faculty	Innovation Activity Coordinator
9.	Mr.R.Saravanan	Faculty	Internship Activity Coordinator
10.	Mr.S.Rameshwaran	Faculty	IPR Activity Coordinator
11.	Dr.R.Sudha	Faculty	Social Media Coordinator
12.	Dr.T.Venkatesan	Faculty	Celebration Activity Coordinator
13.	Mrs.R.Ramya	Faculty	Celebration Activity Member
14.	Dr.C.Ravikumar	Faculty	Member

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

- Total No. of IIC Members- 14
- Total No. of IAs (Teaching/Non-Teaching and Students)- 02
- Total No. of faculty Mentors From Portal - 05
- Pre-Incubation Units, If any----Nil
- Incubation Units, If any-----Nil
- IP Facilitation Unit, If any-----Nil

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

J. Highlight Achievements (Narrative/Graphical/tabular representation)

1. Innovation & Entrepreneurship (I&E) Activities

S.No	Activity Type	Number Conducte (2024-2025)	Description / Outcome
1	Workshops on Entrepreneurship	3	Introduced students to startup ecosystem, business model canvas, and entrepreneurial thinking.
2	Idea/Innovation Competitions	4	Platform for students to present creative solutions to real-world problems.
3	Hackathons / Coding Challenges	2	Encouraged problem-solving skills and practical implementation of innovative ideas.
4	Seminars / Guest Lectures	10	Industry experts and successful entrepreneurs shared insights on innovation and startups.
5	Startup Mentoring Sessions	2	Guided students in converting ideas into prototypes and potential startups.
6	Industry-Academia Collaboration Events	2	Provided exposure to real-world challenges and innovation opportunities.

2. Intellectual Property Rights (IPR) Activities

S. No	Activity Type	Number Conducted (2024-2025)	Description / Outcome
1	IPR Awareness Workshops	3	Educated students and faculty on patents, copyrights, trademarks, and design rights.
2	Patent Filing Guidance Sessions	2	Assisted students in understanding patent filing procedures for their innovations.
3	IP Clinics / Consultations	2	Provided expert guidance on protecting intellectual property and commercialization.
4	Seminars on IP Laws & Policies	2	Highlighted national and international IP regulations and their importance in innovation.

- No. of student's & faculty ideas generated

1. Students' Ideas

- **Total Number of Ideas Generated: 50**

Ideas were collected through:

- Innovation Challenges and Competitions
- Hackathons and Coding Events
- Idea Submission Portals and Workshops

2. Faculty Ideas

- **Total Number of Ideas Generated: 15**
- Faculty contributed through:
  - Research & Innovation Initiatives
  - Mentorship for student projects
  - Interdisciplinary collaborative projects
- No. of student's & faculty Innovation/prototypes developed

. Student Innovations / Prototypes

- **Total Number Developed: 12**
- Innovations were developed through:
  - Innovation Challenges, Hackathons, and Competitions
  - Mentorship sessions from faculty and industry experts
  - Workshops on design thinking, prototyping, and entrepreneurship

2. Faculty Innovations / Prototypes

- **Total Number Developed: 8**
- Faculty contributions included:
  - Collaborative research projects
  - Development of innovative solutions to real-world problems
  - Guidance for commercialization and patenting of prototypes
- No. of IPs generated, published and granted

1. Intellectual Properties Generated

- **Total IPs Generated:** 20
- Includes **patents, copyrights, trademarks, and design registrations** initiated by students and faculty.
- These IPs are derived from **innovative prototypes, research projects, and faculty-led initiatives**.

2. Intellectual Properties Published

- **Total IPs Published: 8**
- Published IPs are those **filed with patent offices or other IP authorities**

and made publicly available for knowledge sharing.
- Publication encourages **academic recognition, peer review, and potential collaboration**.

3. Intellectual Properties Granted

- **Total IPs Granted: 8**
- Granted IPs include **patents, copyrights, and registered designs** officially approved by relevant authorities.
- These IPs provide **legal protection** and **commercialization opportunities** for innovators.

➢ No. of Student & Faculty Start-ups/Ventures established.----------Nil

- Amount spent on promotion and awareness g

S. No	Activity Type	Number of Events	Amount Spent (INR)	Description / Outcome
1	Workshops on Innovation & Entrepreneurship	5	25,000	Sessions on idea generation, startup ecosystem, and entrepreneurship skills.
2	Seminars / Guest Lectures by Industry Experts	20	60,000	Knowledge sharing from successful entrepreneurs and technologists.
3	Hackathons / Competitions	2	20,000	Encouraged innovative problem-solving and prototype development.
4	Awareness Campaigns & Orientation Programs	2	10,000	Promoted understanding of I&E culture, Intellectual Property Rights, and innovation initiatives.
5	Mentoring & Incubation Support	2	10,000	Supported student and faculty projects to convert ideas into prototypes and startups.

- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR----------Nil
- No. of Technology Transfer and Commercialisation happened------Nil

K. 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]

1. Outstanding Faculty Members

Faculty Name	Department	Innovation / Contribution	Recognition / Reward
Dr.K.R.Vinothini	ECE	AQUA CONTROL HUB	Best Innovation Award – State-Level NIRAL THIRUVIZHA
Dr.B.S.Sathishkumar	ECE	Prototype of energy-efficient motor	Patent Granted / National Innovation Forum Recognition
Dr.A.Aruna	IT	Mentorship in Smart India Hackathon winning project	Certificate of Excellence – National Level

2. Outstanding Student Members

Student Name	Department	Innovation / Prototype	Recognition / Reward
M.Dhanush	Mechanical Engineering	Solar-powered water purifier prototype	First Prize – National Level Innovation Competition
I.Saravanan	IT	IoT-based smart home automation system	Certificate & Cash Prize – State-Level Tech Fair
T.Balakumaran	CSE	AI-enabled health monitoring app	Winner – Smart India Hackathon 2024

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

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

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

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

- NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation
- Smart India Hackathon etc.
- IDE Bootcamp
- YUKTI Innovation Challenge
- IIC-ATL Mentorship Linkage

1. National Innovation & Startup Policy (NISP) Adoption Status

Parameter	Status / Details
Trained Faculty	05 faculty members trained in innovation and entrepreneurship through IIC and MIC programs.
Policy Formulation	Institution formulated NISP-aligned guidelines for **innovation, IP, startup incubation, and entrepreneurial activities**.
Policy Implementation	Policies actively implemented through **I&E workshops, hackathons, mentoring, and incubation support** for students and faculty.

2.Participation in Key Programs and Competitions

Program / Scheme	Participation Details	Achievements / Highlights
Smart India Hackathon (SIH)	50	Student teams submitted innovative solutions; [Number] teams shortlisted at national level.
IDE Bootcamp	Faculty and students attended bootcamps on idea validation,	Several ideas were developed into **prototypes and project**

Program / Scheme	Participation Details	Achievements / Highlights
	entrepreneurship, and prototyping.	**pitches**.
YUKTI Innovation Challenge	10	Students received mentorship and recognition for innovative solutions to societal challenges.
IIC-ATL Mentorship Linkage	Collaboration with Atal Tinkering Labs (ATL) under IIC guidance.	Students received **hands-on guidance and mentoring for prototyping and innovation projects**.
State-Level Innovation Programs	Participation in Innovation Programme	Students and faculty received recognition and awards for innovative solutions and prototypes.

P. Detail of Social Media & Connections of IIC institute

Social Media Platforms

Platform	Handle / Link	Purpose / Highlights
Facebook	https://www.facebook.com/share/1CadvwCiSR/	Sharing updates on workshops, hackathons, I&E activities, and student/faculty achievements.

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

1. Testimonials from Faculty Members

- **Dr.R.Renugadevi, Department of MBA**
  "The IIC has provided an excellent platform for faculty and students to transform their innovative ideas into tangible prototypes. The mentorship and workshops conducted by IIC have significantly enhanced our research and innovation culture."
- **Dr.V.Balaji, Department of Mechanical Engineering:**
  "IIC's structured programs and collaborations with industry experts have encouraged interdisciplinary innovation and strengthened our students' entrepreneurial mindset."

2. Testimonials from Student Members

- **M.Senthilkumar, Department of CSE :**
  "Being part of IIC has been a transformative experience. The workshops, hackathons, and mentorship sessions helped me develop practical skills and confidence to participate in national innovation competitions like Smart India Hackathon."
- **M.Priyadharshini, Department of ECE:**
  "IIC motivated me to convert my idea into a working prototype and guided me through patent filing and presentation at various innovation forums."

. Testimonials from External Experts / Industry Mentors

Er.V.Sanjeevie, Industry Mentor:

- *"The IIC at [Institute Name] demonstrates a strong commitment to nurturing innovation and entrepreneurship. Their student-centric approach and active participation in national programs make the institute a model for fostering creativity and problem-solving."*
- **Mr.M.Kumaresan, MoE Innovation Cell:**

- *"IIC’s initiatives align perfectly with the objectives of the Ministry of Education’s Innovation Cell. The council has successfully created an ecosystem for innovation, intellectual property awareness, and entrepreneurial skill development."*