



# PRAGATI ENGINEERING COLLEGE

(Approved by AICTE, Permanently Affiliated to JNTUK Kakinada)  
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## Institution's Innovation Council

- 1) The Institutions Innovation Council of Pragati Engineering College (IIC -PEC) is established in September 2020. IIC –PEC got 3.0 star in 5-star rating scale from **MoE's Innovation Cell** for the session 2023-24 and conducted 39 activities towards developing Entrepreneurship, Startup, IPR, Innovation and Research ecosystem during the period 01/9/23 to 31/8/24 and received participation certification on NIRF-23 (INNOVATION) ranking.
- 2)

### Activities Conducted

S. No	Activity Name	Category	Quarter	Remarks
1	A Mentoring Support program for <b>ATAL Tinkering lab</b> To ZPP high school, Gandepalli on 15/09/2023	Calender Activity	Quarter-I	The program was conducted on 15.09.2023 on entrepreneurship and sustainability at atal tinkering lab. In this program, students 61 no's has participated.
2	<b>National Intellectual Property Conference #NIP Conf2023</b> On 13/10/2023 to 14/10/2023	Self Driven Activity	Quarter-I	The Program Was Conducted for IIC-PEC students, Interested Students Participated the event.
3	<b>A Role of innovation and entrepreneurship in modern life</b> on 14/10/23	Calender Activity	Quarter-I	The program was conducted on 14.10.2023. total 54 student members participated the program
4	<b>National Innovation Day</b> on 15/10/2024	Celebration Activity	Quarter-I	IIC-PEC celebrated National Innovation Day. Total 55 Students Participated the Program.
5	<b>An Innovative idea competition on the eve of national entrepreneurship day</b> on 9/11/23	Celebration Activity	Quarter-I	The program was conducted on 09.11.2023 at 10.30am. total 43 students are participated for innovative idea competition and shared their ideas towards entrepreneurship.
6	<b>Poster presentation</b>	Celebration	Quarter=I	The program was conducted on

	<b>on national education day on 11/11/23</b>	Activity		11.11.2023.total 53student members participated the program.
7	<b>Entrepreneurship Opportunities for Engineers on 14/11/2023</b>	Self Driven Activity	Quarter-I	The program was conducted on the IIC-PEC Students.
8	<b>Entrepreneurship Mind setup on 21/11/2023</b>	Self Driven Activity	Quarter-I	The program was conducted on the eve of jan jatiya gourav diwas on 21.11.2023.
9	<b>Role of technology on tribal development &amp; welfare on 22/11/23</b>	Self Driven Activity	Quarter-I	The program was conducted on the eve of jan jatiya gourav diwas on 22.11.2023,total 41 members joined the program.
10	<b>Innovative methods for protection of environment on 24/11/23</b>	Self Driven Activity	Quarter-I	The program was conducted on 22.11.2023. On the eve of jan jatiya gourav diwas on 24.11.2023 Total 45 members joined the program.
11	<b>Artificial intelligence startups in the world: a hot spot for AI innovation on 25/11/23</b>	Self Driven Activity	Quarter-I	The program was conducted on 25.11.2023. Total 41 members joined the program.
12	<b>Startup funding in india: webinar on 28/11/23</b>	Calender Activity	Quarter-I	The program was conducted on 28.11.2023.total 40 members joined the program.
13	<b>National Pollution Control Day on 02/12/2023</b>	Celebration Activity	Quarter-II	The program was conducted on 02/12/2023.Article Writing Was conducted to the Students.
14	<b>National Energy Conservation Day 14/12/2024</b>	Celebration Activity	Quarter-II	Article Writing, Poster Presentation Activities Conducted.
15	<b>Technology For Viksit Bharat @2047, An Idea Wxchange Program on 18/12/2023</b>	MIC Driven Activity	Quarter-II	Department of ECE Conducted Technology For Viksit Bharat @2047, An Idea Wxchange Program on 18.12.2023
16	<b>IIC regional meet</b>	MIC Driven	Quarter-II	The program was held at kL

	On 6/1/24	Activity		deemed to be university, vijayawada on 06.01.2024 Total 2 faculty members & 1 student participated the program.
17	<b>National Youth Day</b> on 11/01/2024	celebration Activity	Quarter-II	Article Writing Event Conducted on the occasion of National Youth Day. total 51 student members participated the program
18	<b>Innovation Festival</b> on 20/01/2024	Calender Activity	Quarter-II	The program was conducted on 20.01.24, Total 57 Students Participated.
20	<b>Article writing on national startup day</b> 25/01/23	Celebration Activity	Quarter-II	The program was conducted on 25.01.2024. total 46 student members participated the program
21	<b>Industry Exposure Visit @ISRO</b> on 31/01/2024	Calender Activity	Quarter-II	Satish Dhawan Space Centre(SDSC) SHAR, Sriharikota Visited by ECE Department Students.
22	<b>Future trends for entrepreneur skills</b> 2/2/24	calendar Activity	Quarter-II	The program was conducted on 02.02.2024. total 62 student members participated the program
23	<b>Aligning entrepreneurial orientation &amp; behaviour</b> On 08.02.2024	calendar Activity	Quarter-II	The program was conducted on 08.02.2024. total 42 student members participated the program
24	<b>How to use ai as innovation co-pilot</b> on 2/2/24	Self Driven Activity	Quarter-II	The program was conducted on 20.02.2024. total 67 student members participated the program
25	<b>Expert talk on national science day</b> 20/02/24	Celebration Activity	Quarter-II	The program was conducted on 20.02.2024. total 67 student members participated the program
26	<b>International womens day</b> on 8/3/24	Celebration Activity	Quarter-II	Pragati engg. College celebrated the international womens day in seminar hall , Total 54 faculty, 200 students involved.
27	<b>Nurturing your agri-startup idea into reality</b> on 13.04.24	calendar Activity	Quarter-III	A program for agri-entrepreneurship has the prospect of social and economic development on 13 /4/24  53 student and 10 faculty joined this program
28	<b>Patent licensing</b> on	calendar	Quarter-III	Aim is long-term and provides

	17/4/24	Activity		overall direction, while objectives are short-term and measurable  Total 23 faculty and 22 student joined this program
29	<b>Essential business skills for engineers: bridging the gap between business and engineering.</b> On 17/4/24	calendar Activity	Quarter-III	This program help on how to leverage cross-disciplinary concepts to contribute to your organization's success  opportunities for growth in business management and leadership roles for engineers and technical professionals
30	<b>Increasing awareness of open science at your research institution</b> on 18/4/2024	calendar Activity	Quarter-III	Total 41 students & 10 faculty members participated. this program bringing the use of science on innovation design among student and faculty
31	<b>Rethinking teacher education for innovation</b> on 19/4/24	calendar Activity	Quarter-III	This continuous process of gaining new knowledge, refining skills, adopting new methods are essential in enhancing the quality of teachers trained in teacher education institutions. To adapt such practices, guidance, and motivation are essential to make student teachers achieve their goals. Total participant 46.
32	<b>Intellectual property rights, protection &amp; valuation</b> 24/4/24 to 26/4/24	calendar Activity	Quarter-III	Total 45 students & 32 faculty members participated the program. its an awareness and guideline for faculty and student on patent and ipr activities
33	<b>Navigating the future entrepreneurship, innovation, and change managment</b>	calendar Activity	Quarter-III	The purpose of change management is to implement strategies for effecting and controlling change and helping people to adapt to change. Change management activities

	24/4/24			range from individual.43 participate join this program
34	<b>Building our common future with innovation and creativity</b> on 26/4/24	calendar Activity	Quarter-III	Total 42 students participated this program.this program provide scope of an innovators and its value on creativities
35	<b>Bootstrapping your startup</b> on 30/4/24	calendar Activity	Quarter-III	Explore technological and business partnership with ibm. Ibm for startups is the hub to help you innovate and enhance your solution with ibm ai.44 participate join this.
36	<b>Entrepreneurial decision-making</b> On 20/05/2024	Self driven activity	Quarter-III	Mr.B.Bharath kumar, Asst.Professor, ME dept, delivered a talk, 45 students attended the session.
37	<b>Explore innovation strategies for business growth. Learn to foster creativity, develop new products</b> 25/06/2024	Self Driven Activity	Quarter-IV	Mr.Siva Sankar, Assistant Professor, EEE, IA Member, Delvered a talk, total 52 members participated.
38	<b>New technologies in engineering field for startups-additive manufacturing</b> On 02/07/2024	Calender activity	Quarter-IV	Resource person of the session is mr.K. Sandeep, Engineer at Incredible, Additive Manufacturing. Total 53 students & 8 faculty members attended the program.
39	<b>New innovative technologies for brightiening ideas through internet of things</b> On 22/7/2024	Self driven activity	Quarter-IV	The speaker of the session is Dr.subodh panda,Professor, iic coordinator,ECE dept, pragati engineering college, surampalem. Totally 52 students are attended the session.
40	<b>Guiding framework for creating and engaging trained faculty and student iic members innovation</b>	MIC driven activity	Quarter-IV	Mr. Sahu introduced the innovation ambassador training program under the institution innovation council (iic) umbrella,8 faculty and 52 students attended this very

	<b>ambassadors (IA) in iic institutions and rewarding mechanisms for IA”</b> on 29/07/2024			informative session.
41	<b>Entrepreneurship as a start up culture for young engineers</b> On 30/7/2024	Self driven activity	Quarter-IV	The speaker of the session is Dr.subodh panda,professor, iic coordinator,ece dept, pragati engineering college, surampalem.  Totally 50 students are attended the session.
42	<b>“Strengthening IIC Linkages with ATLS and SICs in Schools and the Framework for Providing Mentorship and Guidance”</b> on 31/7/2024	MIC Driven Activity	Quarter-IV	Mic Driven Activity program attended by Pragati Engineering College, Total 52 Students are participated.
43	<b>Alumni talk On Unveiling the fluid mechanics potential in marine engines and ship construction</b> on 3/7/24	Calender activity	Quarter-IV	The guest lecture is delivered by keynote speaker Mr. Ahamed sharief shaik who is currently working as a sub lieutenant, indian merchant navy, engineers department. 100 students were participated curiously for the event
44	<b>“Orientation cum Refreshers,Session on Institution&amp; Innovation Council Objectives, Structure, Operation for IIC Institutions”</b> on 5/8/2024	MIC Driven Activity	Quarter-IV	A total of 51 students were participated for the MIC Driven event,
45	<b>Innovation &amp; entrepreneurship outreach program under ATAL TINKERING LAB</b>	Calender activity	Quarter-IV	In this program, students 55 no’s has participated and gained the knowledge about the entrepreneurship in day to day life.

	To zpp high school, gandepalli on 09/08/2024			
46	<b>Career opportunities in mechanical engineering after graduation &amp; entrepreneurial skill set</b> On 08/07/2024	Self driven activity	Quarter-IV	A total of 44 students were participated for the event, Mr. B.Bharath kumar interacted well with the students.
47	<b>Azadi ka Amritkal on Independence Day- 15/08/2024</b>	Celebration Activity	Quarter-IV	Article writing was conducted on the occasion of Independence Day- 2024
48	<b>Iot &amp; ai integration –enhancing startup capabilities through advanced technologies</b> On 27/8/2024	Calender activity	Quarter-IV	The speaker of the session is Mr.Abhisek tiwary, program director, KPMG,Lucknow. Totally 52 students are attended the session.

#### A. Brief mention of key functionaries at the IIC

##### IIC Members:

1. Dr.G.Naresh - President
2. Shri M.Srinivas - Expert from nearby Industry,  
(Managing Director, Sri Lalitha Enterprises Industries Pvt. Ltd)
3. Mr.Sesha Sai - Member/Startup / Alumni entrepreneur  
(Director, Imagtorel Technologies PVT LTD)
4. Mrs. M.Radhika Mani - Vice President
5. Dr.G.Satish - NIRF Coordinator
6. Dr.Subodh Panda - Convenor & ARIIA Coordinator
7. Mrs. A. Sri Divya - Member/Patent Expert
8. Mr.K.Chandrasekhar - Start-up activity coordinator
9. Mr. Garaga raju - IPR activity coordinator
10. Mr.K.Sivasankar - Innovation activity coordinator
11. Mr. B Bharath Kumar - Internship coordinator
12. Mrs T.Durga - Social Media Coordinator
13. Mr.V.Sai Kiran - Member
14. Mr.D.Konda Babu - Member
15. Mrs. Pericherla Sravani - Member
16. Mr. P.Ram Mohan Rao - Member
17. Mr. A.Surya Narayana Rao - Member

##### Student Coordinators:

1. J Sri sai Mukund, EEE - Innovation activity coordinator
2. A.Vyshnavika, EEE - Innovation activity coordinator
3. K Siva Sankari, ME - Internship coordinator

- |  |                                 |
|--|---------------------------------|
| 4. D.Ashish Vardhan, ME                | - Internship coordinator        |
| 5. T.Durga Pavani, ECE                 | - IPR activity coordinator      |
| 6. Badam Navya, ECE                    | - IPR activity coordinator      |
| 7. K.V.V.L.S.Karthik, CSE              | - Start-up activity coordinator |
| 8. Challa.Mohan Lakshmi Suryakala,CSE- | Start-up activity coordinator   |
| 9. Sk.Towsiq,CSE(AI&ML)                | - Social Media Coordinator      |
| 10. D.Bhanu Durgesh, CSE-DS            | - Social Media Coordinator      |
| 11. A.Chirag                           | - Member                        |
| 12. M.Sri Reshma Lakshmi, IT           | - Member                        |
| 13. P.Prathyusha, CE                   | - Member                        |
| 14. Y.Rakesh, CE                       | - Member                        |
| 15. B.Avinash, CSE-AI                  | - Member                        |

### **IIC Convenor Message:**

#### **Dr.Subodh Panda**

To coruscate the idea of innovative thinking and competitive mindset, I feel great pleasure for various events structured in accordance with the dynamic interest of the students which offer several intellectual activities, exposure for the skills of critical thinking.

This IIC would become a more suitable platform for exchange of views on recent technologies among the students, which develop their level of confidence and personality. Undoubtedly, it will be a great benefit to the participants on enhancing and strengthening their skills in Yukti, Kavach,SIH.etc., Hope all the participants will carry greater memories of technical fest.

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

#### **Total No. of IIC Members**

- |                             |  |
|-----------------------------|--|
| 1. Dr.G.Naresh              | - President  |
| 2.Shri M.Srinivas           | - Expert from nearby Industry,<br>(Managing Director, Sri Lalitha Enterprises Industries Pvt. Ltd) |
| 3.Mr.Sesha Sai              | - Member/Startup / Alumni entrepreneur<br>(Director, Imagtorel Technologies PVT LTD)               |
| 4.Mrs. M.Radhika Mani       | - Vice President   |
| 5. Dr.G.Satish              | - NIRF Coordinator   |
| 6. Dr.Subodh Panda          | - Convenor & ARIIA Coordinator   |
| 7. Mrs. A. Sri Divya        | - Member/Patent Expert   |
| 8. Mr.K.Chandrasekhar       | - Start-up activity coordinator  |
| 9. Mr. Garaga raju          | - IPR activity coordinator   |
| 10. Mr.K.Sivasankar         | - Innovation activity coordinator  |
| 11. Mr. B Bharath Kumar     | - Internship coordinator   |
| 12. Mrs T.Durga             | - Social Media Coordinator   |
| 13.Mr.V.Sai Kiran           | - Member   |
| 14. Mr.D.Konda Babu         | - Member   |
| 15. Mrs. Pericherla Sravani | - Member   |
| 16. Mr. P.Ram Mohan Rao     | - Member   |
| 17.Mr. A.Surya Narayana Rao | - Member   |

• Total No. of IAs

Dr.Subodh Panda - Convenor & ARIIA Coordinator



- Mr.K.Chandrasekhar - Start-up activity coordinator
- Mr.K.Sivasankar - Innovation activity coordinator
- Mr. B Bharath Kumar - Internship coordinator
- Mrs T.Durga - Social Media Coordinator
- Mr.G.Satya Mohan Chowdary –Member
- Mrs. PericherlaSravani - Member

• Total No. of faculty Mentors From Portal

- Dr.Subodh Panda - Convenor&ARIIA Coordinator
- Mr.K.Chandrasekhar - Start-up activity coordinator
- Mr.Garagaraju - IPR activity coordinator
- Mr.K.Sivasankar - Innovation activity coordinator
- Mr. B Bharath Kumar - Internship coordinator
- MrsT.Durga - Social Media Coordinator
- Dr.K.Saroja Rani - Member
- Mr.D.KondaBabu - Member
- Mrs. PericherlaSravani - Member

- Pre-Incubation Units, If any
- Incubation Units, If any
- IP Facilitation Unit, If any

**E. Highlight Achievements (Narrative/Graphical/tabular representation)**

• Number and Different types of I&E and IPR activities Conducted

S.no	Title of the Credit Course	Course Code	Type of course (Elective/Core)	Courses offering Department	Total Credit of the course	Year & Sem
1	Entrepreneurship	20HM5T03	Elective	CSE	3	III-I
2	Entrepreneurship	20HM5T03	Elective	IT	3	III-I
3	Entrepreneurship	20HM5T03	Elective	CSE (AI&ML)	3	III-I
4	Entrepreneurship	20HM5T03	Elective	CSE (AI)	3	III-I
5	Entrepreneurship	20HM5T03	Elective	CSE (DS)	3	III-I
6	Marketing Management	20HM7T04	Elective	CE	3	IV-I
7	Marketing Management	20HM7T04	Elective	EEE	3	IV-I
8	Marketing Management	20HM7T04	Elective	ME	3	IV-I

9	Marketing Management	20HM7T04	Elective	ECE	3	IV-I
10	Marketing Management	20HM7T04	Elective	CSE	3	IV-I
11	Marketing Management	20HM7T04	Elective	IT	3	IV-I
12	Marketing Management	20HM7T04	Elective	CSE (AI&ML)	3	IV-I
13	Marketing Management	20HM7T04	Elective	CSE (DS)	3	IV-I

- No. of student's & faculty ideas generated :247

SIH-23-24	86 IDEAS GENERATED
YUKTI INNOVATION	10
APSHE STUDENT INNOVATION	25
MSME 3.0 WOMEN'S HEKATHON	19

- No. of student's & faculty Innovation/prototypes developed = 2

- No. of IPs generated, published and granted = 4

ECE-2, ME-2

S.No.	Name of the Inventor(s)	Patent Number	Title of the Patent	Date of Published	Date of filing	Patent Agency
1	Dr. G Satish	Application No. Design 390362-001	Banana Fiber Extractor		13.07.2023	IPINDIA
2	Dr. G Satish	Application No. 202341061459	A Vehicle Gas Flow Systems Using Alternative Fuels And Method Thereof	06.10.2023	06.10.2023	IPINDIA

- No. of Student & Faculty Start-ups/Ventures established. =0

- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus

- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR

- No. of Technology Transfer and Commercialisation happened

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]

IIC Faculty

## Student members

Teamleader Name	Phone number	Branch	Year	Mentor name	Problem statement number	category	TeamID(checkedWebsite)	IdeaID(checkedWebsite)	Nameofthe Nodalcentre	City	State
Pvvskeerthana	9573648231	CIVIL	3rd	B.Indraniparmala	SG-864	Software	19955	21361	Nationalinstituteoftechnology	Silchar	Assam
GaliVenkatesh	9133539219	CSE	3rd	M.vrajesh	RK774	Software	18721	23578	SriEswariEngineeringCollege	Combitor	Tamilnadu
VedulaNarayana	8885532345	ECE	4th	Dr.SubodhPanda	MA1216	Hardware	26389	24684	KalasalingamAcademy	Srivilliputtur	TamilNadu
Vetukuridevyanjalisrinagalakshmi	9390333842	ECE	4th	TSekhar	Dv1081	Software	18729	20567	Klniversity	Vijayawada	AndhraPradesh
PasupuletiNavyaSri	7386965212	ECE	4th	D.V.VLakshmi	RK1113	Software	26320	23632	Prin.L.N.WelingkarInstituteofManagementDevelopment	Mumbai	Maharashtra
Bejjisaipravalika	9392633387	ECE	4th	B.kalyanchakravarthy,M.S.V.VRamesh	RK1113	Software	26414	24053	Prin.L.N.welingkarinstituteofmanagement	Mumbai	Maharashtra
S.AHARON	8367593669	EEE	4th	A.MOHANDURGAKUMAR	DA1072	Hardware	18412	25249	B. S. Abdur Rahman CrescentInstituteofScience&Technology	Chennai	TamiNadu
S. M. MANIK YAVALI	9398724268	IT	4th	D.KONDABABU	GM747	Software	18697	17038	Shri Ramdeobaba College ofEngineeringandManagement,	NAGPUR	MAHARASHTRA

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

### 1. Winners at India, International Space Hackathon 2023 at Haryana, 17-20 January 2024





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

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

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

- ARIIA – participation and Rank



- NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation

- Smart India Hackathon etc.

**1) UNDER SMART INDIA HACKATHON -23-24**

Total 86 teams consisting of 415 students participated in Internal Hackathon. The above teams presented projects in problem statements mentioned in Smart India Hackathon (SIH) 2023-24.

a) Out of 86 teams, 50 teams are shortlisted in internal hackathon and nominated for SIH 2023-24.

**2) APSICHE/STUDENTS INNOVATION AWARD = 25 IDEA SUBMITTED**

**3) UNDER YUKTI NATIONAL INNOVATION RESPOSITORY**

10 IDEA AND 06 INNOVATION/PROTOTYPE student project has been submitted.

One Student Idea Selected for Yukti Innovation Repository.

He presented idea at IIC REGIONAL MEET, KL University, Vijayawads on 06/01/2024.



**G.VENKATESH (CSE-DS- IV Year)**

4) MSME WOMEN IDEA HACKOTHAN-3.0 = 19 teams Submitted their ideas, 1 team selected

### K. Detail of Social Media & Connections of IIC institute

IIC PRAGATI ENGINEERING COLLEGE –FACEBOOK PAGE

<https://www.facebook.com/p/IIC-Pragati-Engineering-College-100068486282278/>

IIC PRAGATI ENGINEERING COLLEGE –YOUTUBE CHANNEL

<https://www.youtube.com/@iicpragatiengineeringcolle1688>

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

IIC-PEC in parallel guidance of MOE's / IIC & APSHE-ESIC Developing ecosystem for the following.

1. encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years.
2. create a vibrant local innovation ecosystem.
3. Start-up supporting Mechanism in Pragati Engineering College.
4. Working for Atal Ranking of Institutions on Innovation Achievements Framework.
5. Establish Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas.
6. Develop better Cognitive Ability for Technology Students.

### M. Images



ప్రాజెక్టులను పరిశీలిస్తున్న వర్కాఫీ డిజైన్. ఇన్ఫోవేషన్ సెంటర్ వైరెక్టర్ డాక్టర్ గోపాలకృష్ణ



