



PRAGATI ENGINEERING COLLEGE

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

Annual Report 2021-22

The Institutions Innovation Council of Pragati Engineering College (IIC -PEC) is established in September 2020. The first quarterly meeting was conducted on 13 May 2021. The IIC members of Pragati Engineering College was approved and action plan to conduct various activities related Innovation, entrepreneurship, start-ups and IPR were prepared and discussed in the meeting.

The institute received 2 star rating during the academic year 2020-21.

The following activities are conducted during academic year 2021-22.

S.No	Activity	Quarter	Type	Remarks
1.	Funding Support for early stage of Entrepreneurship	-	Impact Lecture Session 1; Lecture 1	Institution's Innovation Council (IIC) of Pragati Engineering College organized a lecture on "Funding Support for early stage of Entrepreneurship" on 27 th September 2021 at 10.30am. Prof. M Shameem Jawed, Chief Operating officer and Director of the Section 8 Company IIMV Foundation for Incubation Entrepreneurial Learning and Development (IIMV FIELD) has participated as resource person and presented his lecture about various funding support for entrepreneurships and startups. Totally 116 participants attended the lecture. Out of it, 9 faculties, 3 research scholars, 4 students from other institutions and 28 faculties and 72 students from Pragati Engineering College have actively participated.
2.	Intellectual Property and Innovation Management	-	Impact Lecture Session 1; Lecture 2	Organized a lecture on "Intellectual Property and Innovation Management" on 28 th September 2021 at 10.00am. Dr. B K. Sahu, Regional manager,

				NRDC, IPFL & TISC, Visakhapatnam has participated as resource person and presented his lecture about Intellectual Property Rights (IPR) and how to protect our innovations by filing patents, copy rights, etc. Totally 93 participants attended the lecture. Out of it, 2 faculties, 1 student from other institutions, 2 participants from industry, and 23 faculties and 65 students from Pragati Engineering College have actively participated.
3.	Institutional Assistance in Promoting Entrepreneurship	-	Impact Lecture Session 2; Lecture 1	Organized a lecture on “Institutional Assistance in Promoting Entrepreneurship” on 08 th October 2021 at 11.00am. Mr.G.Raghuram, Assistant Director, MSME Development Institute, Visakhapatnam has delivered lecture about Institutional Assistance in Promoting Entrepreneurship. Totally 112 participants attended the lecture. Out of it, 68 faculties, 43 students from Pragati Engineering College and 1 person from industry have actively participated.
4.	Role of Innovation and entrepreneurship in Professional education for a successful career	-	Impact Lecture Session 2; Lecture 2	Organized a lecture on “Role of Innovation and entrepreneurship in Professional education for a successful career” on 08 th October 2021 at 1.30am. Dr. V. Krishna Mohan, Professor-Entrepreneurship, Andhra University, Visakhapatnam has delivered lecture about importance of innovation and entrepreneurship to promote successful career of budding entrepreneurs. Totally 103 participants attended the lecture. Out of it, 63 faculties, 40 students from Pragati Engineering College have actively participated.
5.	Quarterly Meeting I	Quarterly 1	Quarterly Meeting 1 (Q1)	The Institution’s Innovation Council (IIC) meeting is conducted on 09.11.2021 at

				2.30PM. IIC members are attended the meeting.
6.	Essay writing competition on “The Promotion of Technical Education For Inculcating Innovation, Startup & Entrepreneurship Culture among the Student Community”	Quarterly 1	Celebration activity - Celebration of National Education Day	Essay writing competition on “The Promotion of Technical Education For inculcating Innovation, Startup & Entrepreneurship Culture among the Student Community” is organized by Institution’s Innovation Council of Pragati Engineering College Andhra Pradesh on 11.11.2020, 10 at 11.00AM in E – Seminar hall, Mechanical Block. Totally 78 students participated in the competition and top three essays have been honoured with the cash prize of Rs.2250.
7.	Entrepreneurship and Innovation as Career Opportunities	Quarterly 1	IIC Driven activity	Organized online and offline workshop on "Entrepreneurship and Innovation as Career Opportunities" on 03.12.2021 at 11.00AM for all the faculty members and students of higher education institutions. The Resource person of the workshop is Mr.Satya Sidhartha Panda, Faculty of Management, Digital Marketing & Creative Communication, Jain (Deemed-to-be University), i-Nurture New Age Programme, Bengaluru. Totally 256 students and 8 faculty members attended the workshop. Out of 256, one faculty participated from other institution.
8.	Problem solving ideation workshop – IoT as startup opportunity	Quarterly 1	IIC Driven activity	Organized online and offline session on “Problem solving ideation workshop – IoT as startup opportunity” on 20.12.2021 at 2.30PM for all the faculty members and students of higher education institutions. The Resource person of the workshop is Shri N. Venkata Reddy, Founder for Teck Team Solutions. Totally 79 students and 5 faculty members attended the workshop.
9.	Innovative Design Ideas – Pitching Event for	Quarterly 1	IIC Driven activity	Organized online session on “Innovative Design Ideas –

	Ideas Scouted & linkage with Innovation Ambassadors for mentorship support			Pitching event for Ideas Scouted & Linkage with Innovation Ambassadors for Mentorship Support” on 24.12.2021 at 10.00AM for all the faculty members and students of higher education institutions. Totally 12 students presented their ideas and some of them shown their model which have been developed. The panel members reviewed the ideas and gave their suggestion for further improvement. After the discussion, IAs also assigned to the projects for mentorship.
10.	National Intellectual Property Awareness Mission(NIPAM)	Quarterly 1	Self Driven Activity	Institution Innovation Council of Pragati Engineering College organized a webinar on National Intellectual Property Awareness Mission(NIPAM) on 19.01.2021 through Cisco Webex online platform. Mr.Vivek Raj, NIPAM/Examiner of P&D, Mechanical Engineering Group, IPO Chennai consented as resource person and delivered lecture on Intellectual Property Rights. Totally 71 students and 14 faculty members attended the program. Students were assembled in seminar hall and attended the program through online.
11.	Quarterly meeting II	Quarter II	Quarterly Meeting II (Q2)	The Institution’s Innovation Council (IIC) meeting is conducted on 31.01.2022 at 2.30PM. IIC members are attended the meeting.
12.	Orientation Session on IIC4.0 & Features	Quarter II	MIC driven activity	Totally 14 faculties and 12 students are attended the program
13.	E-Symposium on Building Innovation in Educational Institutions- Day 1 (11th Jan 2022)	Quarter II	MIC driven activity	Eleven faculty members and 16 students successfully attended the Day-I sessions
14.	E-Symposium on Building Innovation in Educational	Quarter II	MIC driven activity	Eleven faculty members and 16 students successfully attended the Day-II sessions

	Institutions- Day 2 (12th Jan 2022)			
15.	National Science Day	Quarter II	Self driven activity	Institution's Innovation Council (IIC) and Entrepreneurship Development Cell of Pragati Engineering College (Autonomous) organized Essay writing competition on "The Role of Innovation and Technology for Sustainable Future" on the occasion of National Science Day on 28.02.2022 at 2.00pm. 148 Students participated in the competition. E - Certificates are distributed to all the participants who attended the program. 6 Prize winners are felicitated with cash prize.
16.	Quarterly meeting III	Quarter III	Quarterly Meeting III (Q3)	The Institution's Innovation Council (IIC) meeting is conducted on 04.03.2022 at 11.00AM. IIC members are attended the meeting.
17.	How to Plan Start-Up and Legal & Ethical Steps	Quarter III	IIC Driven activity	Organized online session on "How to Plan Start-Up and Legal & Ethical Steps" on 13.04.2022 at 2.00PM .The resource person Mr.Rashmi Ranjan Sahu, Senior Mission Associate, Startup Odisha (Govt. of Odisha), Bhubaneswar has delivered the session. Totally 6 faculty members and 113 students from Pragati Engineering College has participated in the session.
18.	Importance of Intellectual Property Rights	Quarter III	Celebration day activity	The Institution's Innovation Council of Pragati Engineering College (IIC – PEC) is celebrated World Intellectual Property Rights Day on 26 th April 2022. In this regard, IIC -PEC & EDC Cell organized a Webinar on "Importance of Intellectual Property Rights". Mr. Govind Sharma, Registered Patent Agent, Ex. Chief - National Research Development Corporation, New Delhi. Totally 95 participants

				participated from Pragati Engineering College and other institutions.
19.	Out of the box thinking for problem solving	Quarter IV	MIC Driven activity	Ministry of Education Innovation cell was conducted a 1 hour session with our IIC faculty members, students, and staff on the topic "Out of the box thinking for problem solving" on 28th June 2022, from 2:00 PM - 3:00 PM through Online, via YouTube. Prof. V. Kamakoti, Director, IIT Madras delivered the session on the above mentioned topic. Totally 46 students and 7 faculty members were attended the program.
20.	Intellectual Property Rights and IP Management for Start-ups & Entrepreneurs	Quarter IV	Impact Lecture Session 1 Lecture 1	Lecture 1 was conducted on 22.6.2022 at 10.30am. The resource person was Mr. Govind Sharma, Retired Chief of National Research Development Corporation, New Delhi. The program was organized in both online and offline mode. Totally 118 members were participate in the program (88 participants joined through offline participants and 30 participants joined through online via Microsoft Teams app. 15 faculties and 103 students for Pragati Engineering College has participated in the session.
21.	Intellectual Property and Understanding Patent Filling Process	Quarter IV	Impact Lecture Session 1 Lecture 2	The program was conducted on 22.6.2022 at 1.30pm. The resource person was Dr. Ganesh, Director & Founder, IP EVER LLP, Director & Co Founder, Emsensing Technologies Private Limited. Totally 140 members were participate in the program (105 participants joined through offline participants and 35 participants joined through online via Microsoft Teams app.
22.	IPRs are key for Academic Excellence	Quarter IV	Impact Lecture Session 2 Lecture 1	The program was conducted on 20.7.2022 at 10.30am. The resource person is Dr. H.Purushotham, DPIIT - Ministry of Commerce and Industry IPR

				Chair Professor at Andhra University Visakhapatnam. There are 111 students and 10 faculties from Pragati Engineering College and 4 participants from other institutions attended the program.
23.	Idea, Innovation and IPR	Quarter IV	Impact Lecture Session 2 Lecture 2	The program was conducted on 20.7.2022 at 1.30pm. The resource person is Mr. Jnana Teja Bandi, Qualified Patent Agent of India & IPR Attorney. Totally 136 participants attended the program. Out of it 122 students and 12 faculties from Pragati Engineering College and 2 Participants from other institutions have attended the program.
24.	Workshop on Design Thinking, Critical thinking and Innovation Design	Quarter IV	It is a IIC driven Q2 activity. But, as it is conducted during Q4, which is entered as self driven activity	The program was conducted on 16.08.2022 at 10am through online. The participants are assembled in E-class room, ME Block and connected through LCD projector. The resource person Dr.R.Dharmalingam, Innovation Ambassador & Associate Professor, Department of Mechanical Engineering, Pragati Engineering College has delivered the session. Totally 4 faculty members and 53 students attended the program.
25.	Process of Innovation Development & Technology Readiness Level (TRL) & Commercialisation of Lab Technologies & Tech-Transfer	Quarter IV	It is a IIC driven Q2 activity. But, as it is conducted during Q4, which is entered as self driven activity	The program was conducted on 17.08.2022 at 10am through online. The participants are assembled in E-class room, ME Block and connected through LCD projector. The resource person Dr.Subodh Panda, Innovation Ambassador & Associate Professor, Department of ECE, Pragati Engineering College has delivered the session. Totally 4 faculty members and 47 students from Pragati Engineering College has participated in the session. Finally, participants have raised the questions and resource person cleared their doubts.

26.	Session on Achieving Problem-Solution Fit & Product-Market Fit	Quarter IV	It is a IIC driven Q2 activity. But, as it is conducted during Q4, which is entered as self driven activity	The program was conducted on 18 Aug 2022 and Mr.B.Rajesh Kumar, Innovation Ambassador/Assistant Professor, Department of MBA, Pragati Engineering college delivered the session. Totally 6 faculties and 65 students attended the program.
27.	Workshop on Prototype/Process Design and Development - Prototyping	Quarter IV	It is a IIC driven Q3 activity. But, as it is conducted during Q4, which is entered as self driven activity	The program is conducted on Prototype/Process Design and Development - Prototyping on 20.08.2022. The resource person is Dr.K.Saroja Rani, Innovation Ambassador/ Associate Professor, Department of Civil Engineering, Pragati Engineering College. Totally 7 faculties and 59 students attended the program
28.	Session on Business Model Canvas (BMC)	Quarter IV	It is a IIC driven Q3 activity. But, as it is conducted during Q4, which is entered as self driven activity	The session is conducted on Business Model Canvas (BMC) on 22/08/2022. The resource person is Dr.K.Saroja Rani, Innovation Ambassador & Associate Professor of Pragati Engineering College. Totally 3 faculties and 96 students participated in the program
29.	Session on Accelerators/Incubation - Opportunities for Students & Faculties – Early Stage Entrepreneurs	Quarter IV	IIC driven activity	The session on 23.08.2022 at 10am through online. The participants are assembled in E-class room, ME Block and connected through LCD projector. The resource person Dr.Subodh Panda, Innovation Ambassador & Associate Professor, Department of ECE, Pragati Engineering College has delivered the session. Totally 3 faculty members and 41 students from Pragati Engineering College has participated in the session.
30.	Session on Achieving "Value Proposition Fit" & "Business Fit"	Quarter IV	IIC driven activity	The program was conducted on 24.08.2022 at 10am through online. The participants are assembled in E-class room, ME Block and connected through LCD projector. The resource person Dr.R.Dharmalingam, Innovation Ambassador &

				Associate Professor, Department of Mechanical Engineering, Pragati Engineering College has delivered the session. Totally 6 faculty members and 50 students.
31.	Session on “Lean Start-up & Minimum Viable Product/Business”- Mentoring Session	Quarter IV	IIC driven activity	The program was conducted on 26.08.2022. The resource person is Mr.B.Rajesh Kumar, Innovation Ambassador/ Assistant Professor, Department of MBA, Pragati Engineering College. Totally 12 faculties and 75 students attended the program.

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

Shri M.Srinivas, Managing Director, Sri Lalitha Enterprises Industries Private Limited representing industry expert, Mr.Sesha Sai, Director, Imagtorel Technologies PVT LTD representing Alumni entrepreneur. Apart from these two, the team consist of Start-up activity coordinator, IPR activity coordinator, Innovation activity coordinator, Internship coordinator, NIRF Coordinator, ARIIA Coordinator, Social Media Coordinator and members from faculty and student communities.

Total No. of IIC Members	Total No. of IAs	Total No. of faculty Mentors From Portal	Pre-incubation units, if any	Incubation Units, If any	IP Facilitation Unit, If any
30	08	18	1	Nil	Nil

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

Entrepreneurship Development Cell (EDC)

The program and responsibilities undergoing through Entrepreneurship Development Cell of Pragati Engineering College is to create an environment for self-employment and entrepreneurship development through formal and non-formal programmes, to promote employment opportunities, to create an entrepreneurial eco-system in institute where students will get motivated to take up entrepreneurship over job, facilitating students for campus companies and organizing motivational and inspirational talks from successful Entrepreneurs. The following subjects are being offered in the regular curriculum to promote entrepreneurship culture among the students.

1. Entrepreneurship
2. Intellectual Property Rights
3. Managerial Economics and Finance

Industry-Institute interface unit/centre

To enhance industry – institute interaction, 13 MoU’s have been signed with government and private organisations, industries and academic institutions. The details of MoU’s are given below.

S.No	MoU/Collaboration	Date of Collaboration	Period of Validity
1	Google	05-Dec-20	NA
2	Wipro TalentNext	10-Jul-20	NA
3	UiPath	26-Jun-20	3 years
4	Cisco	02-Jan-21	NA
5	RedHat	02-Jan-21	NA
6	Paloalto	03-Feb-21	2 years
7	Microchip	15-Jun-21	NA
8	Celonis Academic Alliance	15-Jun-21	1 year
9	Juniper Networks	15-Jun-21	NA
10	Blueprism	11-Feb-22	2 years
11	Salesforce	30-Mar-22	2 years
12	Qlik	11-Apr-22	2 years
13	EPAM	12-May-22	1 year
14	Infosys Springboard	28-Dec-21	NA
15	Github Academic Alliance	05-Mar-22	1 year
16	TCS	19-Aug-22	NA
17	Alteryx SparkED	07-Jul-22	2 years
18	Huawei ICT Academy	03-Aug-22	2 years

Pre-Incubation Units

S.No	Name of Centre	Type of Facility
1.	Entrepreneurship Development Cell	Pre-incubation

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

S.No.	Description	No. of activities completed
1.	Number and Different types of I&E and IPR activities Conducted	28
2.	No. of student’s & faculty ideas generated	Nil

3.	No. of student's & faculty Innovation/prototypes developed	Nil
4.	No. of IPs generated, published and granted	13
5.	No. of Student & Faculty Start-ups/Ventures established	Nil
6.	Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	Rs. 25,000/-
7.	Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	Nil
8.	No. of Technology Transfer and Commercialisation happened	Nil

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

Name of the faculty	Name of the organiser of the event/programme	Number of idea submitted	Number of students under his/her mentorship	Achievements, if any
Nil				

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

NA

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

NA

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

NA

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

S.No.	Participation in various programs of Central and Stage Govt.	Remarks
1.	ARIIA	Participated in ARIIA 2021 and got ranking in the promising band.
2.	NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation	<ul style="list-style-type: none"> • Dr.Subodh Panda and Dr.R.Dharmalingam has attended training session on policy formation. • Policy formulation completed. • Policy implementation is under progress.

3.	Smart India Hackathon	<ul style="list-style-type: none"> • Totally 32 teams has participated in SIH 2022. There are 85 software projects and 47 hardware projects are taken up by the students. • Ten teams are qualified for grand final and one team got winner in Student innovation category.
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K. Detail of Social media & Connections of IIC institute

Facebook : <https://www.facebook.com/IIC-Pragati-Engineering-College-109731297959761>

YouTube : <https://www.youtube.com/channel/UCTPIYDI9sFybbllSdoOCpBQ>

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

Testimonial from Dr.S.Sambhu Prasad, President IIC & Principal

I highly acknowledge the activities on going and plan on hand with a concrete vision of generating future entrepreneur as joining hand by PEC towards Nation building program. Some of the burning role of IIC-PEC which bring a confident on innovation and start up policy of PEC are

- Conduct various innovation and entrepreneurship-related activities prescribed by Central IIC and MIC in time bounded fashion
- Identify and reward innovations and share success stories
- Organize periodic interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators
- Network with peers and national entrepreneurship development organizations
- Participating Hackathons, idea competition, mini-challenges.

Testimonial from Mr.Sesha Sai, Director, Imagtorel Technologies PVT LTD.

- My association with IIC-PEC and being an entrepreneur, I proudly expecting the bright and eye catching outcome which definitely appreciable by state and nationwide. I heartily welcome the moto of its policy execution through the following road map.
- Students/Faculty associated with IIC are getting exclusive opportunity to participate in various Innovation related initiatives and competitions organized by MHRD/ reputed platform.
- Encourage all to organize and participate exciting Prizes/Certificates winning program.
- Open hand support by management on opportunity to nurture and prototype new ideas.
- Welcoming Industry Professionals to act as Mentor.

M. Images

PRAGATI ENGINEERING COLLEGE
(Autonomous)

INSTITUTION'S INNOVATION COUNCIL

Institution's Innovation Council - Lecture Series
from 14 Aug 2022 to 28 Aug 2022

Workshop on Design Thinking, Critical Thinking and Innovation Design
By Dr. K. Chandrajagan, Innovation Ambassador
14th August 2022 @ 10am - Venue: E - Classroom, 4th Block

Process of Innovative Development & Technology Readiness Level (TRL) & Commercialization of Low Technology & Tech Transfer
By Dr. Subodh Parua, Innovation Ambassador
15th August 2022 @ 10am - Venue: E - Classroom, 4th Block

Session on Solving Problem Solving III & Problem-Making III
By Mr. R. Raju Kumar, Innovation Ambassador
16th August 2022 @ 10am - Venue: E - Classroom, 4th Block

Workshop on Prototyping Design and Development - Prototyping
By Dr. R. Raju Kumar, Innovation Ambassador
28th August 2022 @ 10am - Venue: E - Classroom, 4th Block

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INSTITUTION'S INNOVATION COUNCIL

Institution's Innovation Council - Lecture Series
from 22 Aug 2022 to 26 Aug 2022

Session on Business Model Canvas (BMC)
By Dr. R. Sangeetha, Innovation Ambassador
22nd August 2022 @ 10am - Venue: E - Classroom, 4th Block

Session on Accelerator/Incubator - Opportunities for Students & Parents - Early Stage Entrepreneurs
By Dr. Subodh Parua, Innovation Ambassador
23rd August 2022 @ 10am - Venue: E - Classroom, 4th Block

Session on Solving "Sales Proposition (SP)" & "Business Plan"
By Dr. K. Chandrajagan, Innovation Ambassador
24th August 2022 @ 10am - Venue: E - Classroom, 4th Block

Session on "Low Tech-up & Minimum Viable Product (MVP)", Marketing Session
By Mr. R. Raju Kumar, Innovation Ambassador
26th August 2022 @ 10am - Venue: E - Classroom, 4th Block

