

**GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING  
(AUTONOMOUS)  
MADHURAWADA :: VISAKHAPATNAM - 530048**

**5.1.3 A Summary Report along with photographs on programmes/activities conducted to enhance Awareness of trends in technology during the last five academic years**

Awareness of trends in technology is crucial in today's rapidly evolving digital landscape. Staying informed about technological advancements, emerging innovations, and industry trends is essential for individuals and organizations across various sectors. Staying informed about trends in technology is essential for organizations to drive innovation, maintain competitiveness, anticipate market changes, attract talent, manage risks, and make informed decisions that positively impact both business and society.

Gayatri Vidya Parishad College of Engineering organized a variety of events and activities related to trends in technology to keep the students updated and engaged with the latest developments in the field. Tech Talks, Guest Lectures, Tech Competition, Hackathons, Workshops, Seminars, Industry Visits, Internships programs, Tech Exhibitions, Expos, Symposiums and Conferences are being organized in the institution to enhance the awareness in latest trends and technology.

The Institute Innovation Council of Gayatri Vidya Parishad College of Engineering has organized Poster Presentation/Idea Competition on 1<sup>st</sup> to 4<sup>th</sup> November 2022. The presentations were conducted to ignite innovation among students and the best posters will be selected to participate in YUKTI-NIR. The Idea Competition was conducted with jury member's combination of Faculty, IIC members, and students. Total 130 students were participated in the competition.



**Poster Presentation/Idea Competition on 1<sup>st</sup> to 4<sup>th</sup> November 2022**

IIC GVPCE, in association with ASME student chapter has organized a field visit to APSRTC Zonal workshop, Vizianagaram on 15.10.22 as a IIC Calendar Activity under the theme Exposure and field visit for problem identification. APSRTC Zonal workshop provides many facilities for bus body building unit, transmission and gear box assembly. It has facilities like engine room, power room, tyre section, assembly unit. 89 students participated in this field visit. The students visited every section and gained knowledge on different aspects of bus building and servicing. They also had hand on experience on components assembly and identified scope for different problems during the process. This helped the students to identify opportunities in this area for entrepreneurship and skill development.



**APSRTC Zonal workshop on 15.10.22**

During the academic year 2021-22, the MOE & Innovation Cell and the Institution & Innovation Council at Gayatri Vidya Parishad College of Engineering spearheaded three impactful initiatives. The first, the IPR Awareness Session-KAPILA held in June, aimed to raise awareness about the patent filing process and various forms of intellectual property. Participants gleaned valuable insights into the significance of IP and the intricacies of patenting through a one-day seminar and case studies. In November, the Demo Day/Exhibition/Poster Presentation of Start-ups emphasized fostering critical and design thinking among students. This initiative empowered students to formulate real-time solutions, establishing connections with innovation ambassadors for mentorship. Aligned with the IIC

Calendar Activity, the program showcased the themes of Design Thinking & Critical Thinking. The World Entrepreneurs Day in August facilitated interactive sessions with startup entrepreneurs, offering participants a profound understanding of entrepreneurial challenges and experiences through motivational speeches over a six-day duration. Collectively, these diverse programs significantly contributed to enriching students skills, knowledge, and fostering an entrepreneurial spirit, ensuring a holistic and comprehensive educational experience.

A motivational talk was conducted on “Importance of Ethics for Successful Life” on 13-12-2021 at main auditorium (Administration Block) Gayatri Vidya Parishad College of Engineering (A), Madhurawada, Visakhapatnam, A.P. The talk was conducted as a part of self-driven activity, OFF line under IIC 4.0 Series of Talks. The speech was given by Dr. B.N. Ramesh (IPS) who is currently the Director General of Police (DGP) of West Bengal, India. Nearly 300 students participated in the event.

A seminar was conducted on “Application of Shear Thickening Fluids in Material Development” on 18-11-2021 at Simulation Lab, Department of Chemical Engineering, Gayatri Vidya Parishad College of Engineering (A), Madhurawada, Visakhapatnam, A.P. The seminar was conducted as a part of IIC-calendar activity, OFF line under a theme of Problem Solving and Ideation Workshop, IIC 4.0. The seminar was given by Mr. T. Ajeeth Prabhu, Assistant Professor, Department of Chemical Engineering, Gayatri Vidya Parishad College of Engineering (A). A total of 45 participants attended this seminar. The students and faculty asked several questions on the working mechanism and its applications of Shear Thickening Fluids.

IIC GVPCE organized a one-day demo exhibition on 20-08-2022 with Festo Facilitated Mobile Expotainer in the campus as an IIC Self Driven Activity under Quarter-4 Activities. This event was organized in collaboration with APSSDC and ARC (Applied Robot Controls). Festo-facilitated Mobile Expotainer is an innovation on wheels on the road to GVPCE(A). It features a variety of Dynamic and Static displays which shows fast and easy the latest product applications of Pneumatic technology in Industrial Automation and Powerful engineering tools and easy-to-use software for your digital transformation.

The Institution’s innovation council MHRD’s innovation cell innovation and startup events such as KAPILA: KALAM PROGRAM FOR IP LITERACY AND AWARENESS IDEA/ POC PITCHING & VALIDATION AND INSTITUTE LEVEL POC COMPETITION. SUBMISSION OF IDEA, IKS ORIENTATION SESSION, MY STORY - MOTIVATIONAL SESSION BY SUCCESSFUL ENTREPRENEUR/STARTUP FOUNDER, PANEL DISCUSSION ON ATMANIRBHAR BHARAT- VOCAL FOR LOCAL, MAKE IN INDIA, DESIGN VALIDATION PROCESS, ORIENTATION SESSION ON NATIONAL INNOVATION AND STARTUP POLICY (NISP), IDENTIFYING INTELLECTUAL PROPERTY COMPONENT AT THE EARLY STAGE OF INNOVATION, Gayatri Vidya Parishad College of Engineering DESIGN THINKING AND STORY TELLING events in the academic year 2020-21.

A Panel Discussion with Students/Faculty and Entrepreneurs titled "Entrepreneurship or Job - What Comes First?" on 23rd August 2021 at 12:00 PM, Design Thinking-Innovation Expo -2021. A talk on Why IP is important in academia?

Orientation Session on "Managing Innovation for Early Startups" on 28th July 2021, Online Workshop on “Building an Innovative product for Market" on 15th July 2021, FIELD VISIT TECHNOLOGY TRANSFER CENTRE REPORT on 15th July 2021, 10:00AM to 1:00PM.

Digital Transformation and Innovation in Healthcare, on 29th July 2021 at 04:00 PM through Online, Entrepreneurship: Creativity to Commercialization on 25th July 2021. To identify intellectual property component at the early stage of innovation, the innovation cell organized 'Key to Start-up - Incubators, Accelerators' on 29th July 2021 virtually.

Institution's Innovation Council of also organized webinars such on "Women Entrepreneurship - A success Story" on 22nd July 2021, "A Journey of a Campus Entrepreneur" on 25th July 2021.



**STAR rated certificated received from MoE, Govt of India on 22nd July 2021**

Innovation and Entrepreneurship Initiatives in the academic year 2019-20: GVPCE's Innovation and Entrepreneurship initiatives have played a pivotal role in fostering innovation and entrepreneurship among students and faculty. Key activities include:

1. Motivational Speeches and Workshops:
  - Date: Various sessions held throughout the academic year.
  - Participants: Students and faculty members.
  - Objective: To inspire and encourage students to innovate, ideate, and pursue entrepreneurial ventures. Workshops focused on developing problem-solving skills, design thinking, and ideation.
2. Hackathons and Competitions:
  - ApplyML Hackathon: Held on September 14-15, 2019.
  - Smart India Hackathon 2020: Conducted on January 7-8, 2020.
  - Idea Submission for the Launch of 5G Hackathon: Open from February 21 to April 30, 2020.
  - Objective: These events provided platforms for students to demonstrate their skills, tackle real-world challenges, and promote innovation.
3. Leadership Talks and Motivational Speeches:
  - Date: Conducted periodically throughout the academic year.

- Participants: Students and faculty members.
  - Objective: To inspire students and faculty members to embrace innovation, entrepreneurship, and leadership roles.
4. Field Visits and Exhibitions:
- Visits to Design Centers, Makers' Spaces, and Railway Stations.
  - Participants: Students and faculty members.
  - Objective: To provide practical exposure and insights into real-world innovation and entrepreneurial activities.
5. Awareness Programs:
- Sessions on Accelerator/Incubation Opportunities, Intellectual Property Rights (IPR) & IP Management, and Rural Business Incubators.
  - Participants: Students and faculty members.
  - Objective: To educate students and faculty about various aspects of entrepreneurship, innovation, and the startup ecosystem.

These initiatives reflect GVPCE's commitment to holistic development and innovation in education, aligning with NAAC's criteria for quality assessment and enhancement."



### STAR rated certificated received from MoE, Govt of India 22-09-2020

The design thinking workshop was conducted by the IIC GVP College of Engineering as part of the MHRD IISC schedule on 5th May 2019. The main objective of this workshop is to get students involved in various activities that are regarded as the innovation tools which would be very useful for ideating a problem statement. This improves the process of design thinking skills of the students. The session was started by Dr Mohan Jagdish convener of GVP IIC, by formally inviting all the participants and introducing the members of ISC to the students. Each department has specific mentor to guide the young minds of the college.

Innovation in GVP blooms-an ornithopter was designed with the help of 3D printer known as Sreshth Vihang. It is a security surveillance assistant, suitable for surveillance, a replacement to surveillance drones, it can fly in radio signals jam areas, with the help of image processing, it can identify objects from the air itself. WORKSHOP on IPR was conducted.

Illuminating talks by eminent people of national repute were rendered. Prof. Anil.D Sahasra Budhe, chairman, AICTE, Ajit Doval, Mahindra, Chairman, Tech Mahindra were a few guest speakers who motivated the GVP students with their inspiring stories of success giving valuable life changing inputs.



### **STAR rated certificated received from MoE, Govt of India 2019-11-06**

Overall, Gayatri Vidya Parishad College of Engineering is committed in providing the students with opportunities to stay updated and engaged with the latest trends and developments in technology through a variety of events, activities, and initiatives. These efforts help prepare students for successful careers in the rapidly evolving field of technology.

In summary, awareness of trends in technology is essential for driving innovation, staying competitive, enhancing productivity, and addressing societal challenges in an increasingly digital world. By staying informed and proactive, individuals and organizations can harness the power of technology to create value, drive positive change, and shape the future of society and industry.

A total of **10757 students** has participated in total of **135 events** organised for the enhancement of Awareness of trends in technology in the institution during the last five academic years.

The list of events that are organized in the institution, for attaining Awareness about Trends in Technology are tabulated here as follows:

<b>Year</b>	<b>S.No</b>	<b>Name of the capability enhancement program</b>	<b>Date of implementation (DD-MM-YYYY)</b>	<b>Number of students enrolled</b>	<b>Name of the agencies/experts involved with contact details (if any)</b>
<b>2022-23</b>	1	Field Visit to RMC cement plant	16/9/2022	42	IIC
	2	Launch of 5G services	10-01-2022	25	IIC
	3	Exposure and field visit for problem identification	15/10/2022	89	IIC
	4	Climate Change, Social Impact and Innovation Opportunities.	11-03-2023	90	IIC
	5	Poster Presentation Competition	1/11/2023-4/11/2023	130	IIC
	6	National Education Day	11-11-2022	40	IIC
	7	Workshop on “Entrepreneurship and Innovation as Career Opportunity	15/11/2022	25	IIC
	8	Session on Problem Solving and Ideation Workshop	20/11/2022	80	IIC
	9	Leadership Talk with Prof. T. G. Sitharam, Hon’ble Chairman, All India Council for Technical Education (AICTE)	21/12/2022	42	IIC
	10	Inter/Intra Institutional Innovation Competition/Challenge/Hackathon and Reward Best Innovations - Manage through YUKTI-NIR	23/12/2022	509	IIC
	11	National Youth Day	01-07-2023	100	IIC
	12	Orientation Session on IIC 5.0 & Features	01-11-2023	42	IIC

13	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Innovations/Prototypes & linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR	19/01/2023	68	IIC
14	Workshop on Design Thinking and Critical Design	23/01/2023	62	IIC
15	Workshop on Design Thinking, Critical thinking and Innovation Design	13/2/2023	200	IIC
16	orientation session on IIC 5.0	21/2/23	63	IIC
17	Poster Presentation Competition	22/2/2023	45	IIC
18	Session/ Workshop on Business Model Canvas (BMC)	03-02-2023	60	IIC
19	GVP Tech Fest	03-03-2023	100	IIC
20	Workshop on Prototype/Process Design and Development	29/3/23	40	IIC
21	World creativity and Innovation day	21/4/23	50	IIC
22	Creating YUKTI Innovation Repository & Participation in Innovation Challenge	26/4/23	80	IIC
23	National Technology Week Inaugural Address of Hon'ble Prime Minister of India at 10.00 AM, 11th May 2023	05-11-2023	30	IIC
24	Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support – Manage through YUKTI-NIR	16/5/2023	67	IIC
25	DRONES PRESENTATION	17/5/23	40	IIC
26	DTI idea pitching session	22/5/23	68	IIC
27	Session on Innovation/Prototype Validation – Converting Innovation into a Start-up or Session on Achieving “Value Proposition Fit” & “Business Fit	24/6/23	45	IIC
28	IPR Awareness session	45053	75	IIC
29	NEP ki Samajh Celebrating 3 years of Implementation of NEP 2020	45267	59	IIC

	30	Field Visit to NASSCOM incubation center	15/7/23	51	IIC
	31	Celebrating India's presidency of the G20	26/7/23	54	IIC
	32	Session on Accelerators/Incubation - Opportunities for Students & Faculties - Early Stage Entrepreneur	26/7/23	81	IIC
	33	GVPCE Innovation and Entrepreneurship policies and IPR (Intellectual Property Rights)	28/7/23	100	IIC
	34	celebrate the 3rd Anniversary of the National Education Policy (NEP) 2020 and the 2nd edition of the Akhil Bhartiya Shiksha Samagam	29.07.23	100	IIC
	35	Demo Day/Exhibition/Poster Presentation of Start-Ups & Linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR	08-08-2023	146	IIC
	36	World Entrepreneurs Day	21/8/23	135	IIC
2021- 22	37	Entrepreneurship and Innovation as Career Opportunity	15.11.21	88	IIC
	38	Session on Problem Solving and Ideation Workshop	18.11.21	51	IIC
	39	Applications of IoT for different Domains	19.11.21	57	IIC
	40	Webinar by Successful Innovator	23.11.21	53	IIC
	41	Workshop on Entrepreneurship skill Attitude and Behavioural Development Skill	23.11.21	60	IIC
	42	Motivational Session by successful Startup Founder	24.11.21	43	IIC
	43	Seminar on Opportunities and Mega Technological Trends	25.11.21	60	IIC
	44	Motivational Session Talk for UPSC Aspirants	27.11.21	80	IIC
	45	Design Thinking and Innovation Workshop	29.11.21	30	IIC
	46	India Startup Day	29.11.21	29	IIC
	47	National Pollution Control Day	03.12.21	56	IIC

	48	Motivational Talk on Importance of Ethics for Successful Life	13.12.21	100	IIC
	49	Workshop on Design Thinking, Critical Thinking and Innovation Design	02.02.22	90	IIC
	50	Workshop on Business model Canvas	24.02.22	180	IIC
	51	Design Template Workshop	23.03.22	98	IIC
	52	Idea Pitching for SIH, 2022	25.03.22-26.03.22	210	IIC
	53	Design and Development of Medical Devices	17.03.22	26	IIC
	54	Field Visit – Incubation unit	21.04.22	60	IIC
	55	World IPR Day	28.04.22	38	IIC
	56	IPR Awareness Session under KAPILA	27.06.22	160	IIC
	57	Demo Day of Startup Developed – Linkage with Innovation Ambassadors for Mentorship support	17.07.22	110	IIC
	58	Session on Innovation or Prototype Validation	02.08.22	25	IIC
	59	Demo Day of Prototype Developed - Linkage with Innovation Ambassadors for Mentorship support	03.08.22	69	IIC
	60	Session on Accelerators or Incubation Opportunities	03.08.22	45	IIC
	61	World Entrepreneur's Day	22.08.22	40	IIC
	62	Demo Day – Festo Facilitated Mobile Exponent	20.08.22	75	IIC
2020-21	63	Name:- Design Thinking and Story Telling	23.08.2020	250	IIC
	64	Innovation and Startup Session	4.10.2020	40	IIC
	65	KAPILA: Kalam Program for IP Literacy and Awareness	15.10.20	50	IIC
	66	Idea/ PoC pitching & validation and Institute level PoC competition. Submission of Idea/PoC on IIC Portal	21.06.2020-31.12.2020	60	IIC
	67	IKS orientation session	02.11.2020	60	IIC
	68	My Story - Motivational Session by Successful Entrepreneur/Startup founder.	07.11.20	80	IIC

69	Orientation Session on National Education Policy (with a focus on Innovation and entrepreneurship)	08.11.20	80	IIC
70	Panel Discussion on Atmanirbhar Bharat- Vocal for Local, Make In India for the world.	28.09.2020	80	IIC
71	My Story - Motivational Session by Successful Innovator	21.11.2020	40	IIC
72	Design Validation Process	26.12.20	70	IIC
73	Orientation Session on National Innovation and Startup Policy (NISP)	27.12.20	20	IIC
74	Identifying intellectual property component at the early stage of innovation	28.12.20	20	IIC
75	Toy-Hackathon	15.01.21	25	IIC
76	Design Thinking - Innovation Expo	26.02.21	35	IIC
77	talk on "From your Ph.D./ Masters Thesis to a start-up	23.04.21	35	IIC
78	Session on Why IP is important in academia?	26.04.21	35	IIC
79	Orientation session for all students & faculties of Institute by Innovation Ambassador	28.07.21	90	IIC
80	Field Visit – Incubation unit	15.07.21	15	IIC
81	Session on Building an Innovation/ product fit for market	15.07.21	400	IIC
82	Digital Transformation and Innovation in Healthcare	29.07.21	100	IIC
83	Entrepreneurship: Creativity to Commercialization	25.07.21	85	IIC
84	Managing Innovation for Early Startups	28.07.21	109	IIC
85	Session on Accelerators/Incubation - Opportunities for the Students & Faculties - Early Stage Entrepreneurs	29.07.21	218	IIC
86	Women Entrepreneurship - A success Story"	22.07.21	270	IIC
87	A Journey of a Campus Entrepreneur	25.07.21	35	IIC
88	National Webinar on Research, Innovation and Ranking	11.08.21	59	IIC

	89	World Entrepreneurs Day Celebration	23.08.21	93	IIC
2019-20	90	My Story - Entrepreneur's Life & Crossroad – Motivational Speak - To be Share by Entrepreneurs	09/12/2019	40	IIC
	91	My Story - Innovator's Life & Crossroad- Motivational Speak - To be Share by Innovators	09/25/2019	5	IIC
	92	Organise One Day Workshop on Problem Solving/Design Thinking/Ideation Workshop/ Campus Hackathon etc.	10/10/2019	40	IIC
	93	Start and Improve Your Business		30	IIC
	94	APPLYML Hackathon	09/14/2019	60	IIC
	95	Workshop on National Innovation and Start-up Policy (NISP)	12/23/2019	100	IIC
	96	Field/Exposure Visit to Design Centre/Makers' Space/Fab Lab/Prototype Lab/Tinkering Lab etc	12/20/2019	50	IIC
	97	Innovation Day Campaign	10/19/2019	80	IIC
	98	Product Development Phases - Story Telling - (Innovators in Campus)	12/06/2019	80	IIC
	99	Idea Submission in Smart India Hackathon 2020	01/07/2020	270	IIC
	100	Demo Day – Exhibition Cum Demo for PoCs & Mentorship Session for Innovators (or) Student Entrepreneurs	12/28/2019	100	IIC
	101	Poster Presentation Competition	11/27/2019	400	IIC
	102	Template Design Workshop	12/18/2019	270	IIC
	103	A Voice of Social Conscious &#34;SATKAARYA - A Social Unite&#34;	12/07/2019	400	IIC
	104	Science Day	02/28/2020	35	IIC
	105	Session on Accelerator/Incubation - Opportunity for Student Faculty - Early Stage Entrepreneurs	04/29/2020	15	IIC
	106	National Innovation and Startup Policy for Students and Faculty 2019	04/28/2020	10	IIC
107	Interaction with Student Innovators and Entrepreneurs Emerged from Smart India Hackathon (SIH)	05/22/2020	15	IIC	

108	Frugal Innovation and Social Entrepreneurship	05/21/2020	15	IIC
109	Use of Market Data and Application of Marketing Research Tools and Methodology - Advance Level	05/20/2020	15	IIC
110	Innovation Risk Diagnostic: Product Innovation Rubric (PIR)	05/15/2020	15	IIC
111	Understanding Role and Application of Marketing Research at Idea to StartUp Stage - Foundation Level	05/14/2020	5	IIC
112	Understanding Angel and Venture Capital Funding - What is there for Early Stage Innovator & Entrepreneurs	05/08/2020	5	IIC
113	Innovating Self- Screen and Identify right opportunities	05/13/2020	5	IIC
114	How to Identify Right Problem and Solution using the Double Diamond Approach in Design	05/06/2020	5	IIC
115	Hangout with Successful Startup Founder and Learn on Design thinking Approach for Hardware Innovation	05/04/2020	5	IIC
116	Role of Network Enablers in driving I&E in HEIs - A Case of TiE, India	05/01/2020	10	IIC
117	Idea Submission for the Launch of 5G hackathon by Department of Telecommunications	02/21/2020	3	IIC
118	Organise One/half day Interactive/online Session/Mentoring Session "Hangout with Successful Start-ups" (Entrepreneurs in Campus )	04/30/2020	5	IIC
119	Organise One Day Awareness/Mentoring Session on IPR & IP Management for Innovation and Start-ups or Online Session on Intellectual Property (IP) Management at Early Stage of Innovation and Start-ups	05/07/2020	5	IIC

	120	Organise Workshop on Business Model Canvas (BMC) and (or) Business Plan Competition to Invite Innovative Business Models from Students	05/05/2020	5	IIC
	121	Demo Day – Exhibition Cum Mentorship Session for Innovators (or) Student Entrepreneurs	03/13/2020	60	IIC
	122	Entrepreneurship Awareness and Business Plan Development		100	IIC
	123	one day workshop on “Start-ups by Wission Talks”	02/18/2020	300	IIC
	124	National Awareness Program on Build the Enterprise of your Dreams	02/26/2020	150	IIC
2018-19	125	Workshop on Cognitive skills, Design Thinking and Critical Thinking	01.12.2018	61	IIC
	126	Workshop on Cognitive skills, Design Thinking and Critical Thinking	27.12.2018	43	IIC
	127	Webinar on India Leadership Talk-Episode 1:	08.01.2019	55	IIC
	128	Workshop on Intellectual Property Rights	10.01.2019	81	IIC
	129	Workshop on IPR for Students and Faculty Members	10.01.2019	140	IIC
	130	Webinar on India Leadership Talk-Episode 2: Planning for Career, Future Industry Trends and Startups	24.01.2019	26	IIC
	131	SIH Internal Hackathon 2019	08.01.2019	108	IIC
	132	Webinar on India Leadership Talk-Episode 3: Art of Decision Making	19.03.2019	49	IIC
	133	Webinar on India Leadership Talk-Episode 4 Future of Technical Education in India	22.04.2019	25	IIC
	134	IIC Idea Competition	15.05.2019	14	IIC
	135	Webinar on India Leadership Talk-Episode 5 : Innovation for Resurgent India	22.08.2019	27	IIC