Guru Nanak Educational Society's

GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY

AFFILIATED TO R.T.M.N.U | AICTE, DTE APPROVED | ISO 9001: 2008

NAAC ACCREDIATED

INSTITUTION'S INNOVATION COUNCIL (IIC)

(Established under aegis of MHRD 's Innovation Cell, Government of India)

Annual Report 2022-23

A. About IIC Institute:

Institution's Innovation Council (IIC) program is initiative of Ministry of Education (MoE) through MoE's Innovation Cell (MIC) in collaboration with AICTE for Higher Educational Institutions (HEIs) to systematically foster the culture of innovation and start-up ecosystem in education institutions.

- **Vision**: "To be a leading hub of innovation and entrepreneurship, fostering a dynamic ecosystem where students, faculty, and staff collaborate, ideate, and innovate, driving positive societal impact and transformative growth."

- **Mission:**

1. **Empowerment through Education:** Provide a transformative educational experience that equips students, faculty, and staff with the knowledge, skills, and mindset necessary for entrepreneurship and innovation.
2. **Cultivate a Culture of Innovation:** Foster an environment that nurtures creativity, risk-taking, and experimentation, encouraging all members to ideate and develop innovative solutions to real-world challenges.
3. **Collaboration and Networking:** Facilitate multidisciplinary collaboration and networking among students, faculty, staff, industry partners, and the community, creating a vibrant ecosystem for idea exchange and collaboration.
4. **Incubation and Support:** Establish comprehensive incubation programs and support mechanisms that guide and empower aspiring entrepreneurs in transforming their ideas into viable, sustainable ventures.
5. **Ethical and Sustainable Practices:** Instil ethical values and a commitment to sustainability in all entrepreneurial endeavours, ensuring responsible and socially impactful innovations.

6. **Engage with the Community:** Actively engage with the local and global communities to address their needs and challenges, applying innovation and entrepreneurship to make a meaningful difference.
7. **Research and Development Excellence:** Encourage and support cutting-edge research and development in innovation and entrepreneurship, promoting breakthroughs that advance knowledge and drive economic growth.
8. **Continuous Learning and Adaptability:** Promote a culture of lifelong learning and adaptability, enabling students, faculty, and staff to stay at the forefront of emerging technologies, trends, and market dynamics.
9. **Visibility and Branding:** Enhance the visibility and branding of the IIC as a premier institute for innovation and entrepreneurship, attracting top talent and strategic partnerships that further our mission.
10. **Measure and Celebrate Success:** Establish clear metrics to measure the impact and success of our initiatives, celebrating achievements and learnings to continually improve and evolve in fulfilling our vision.

- ## Journey of IIC established at the Institute:

The Institution's Innovation Council (IIC) at Guru Nanak Institute of Engineering & Technology (GNIET) in Nagpur was established in 2021 with a strong emphasis on fostering entrepreneurship and innovation among its students and faculty. The IIC is dedicated to nurturing a culture of innovation and supporting the growth of aspiring entrepreneurs.

Key Initiatives and Activities of the IIC:

1. **Startup and Innovation Workshops:** The IIC organizes various workshops focused on startups, innovation, and design thinking. These workshops aim to provide students with hands-on experience, knowledge, and skills to kick-start their entrepreneurial journey and encourage innovative thinking.
2. **Entrepreneurship and Innovation as Career Opportunity:** The IIC actively promotes entrepreneurship and innovation as viable career choices. It educates students about the opportunities and pathways available for those interested in pursuing entrepreneurial ventures.
3. **Industry Visits and IPR Center Tours:** Students and faculty are given the opportunity to visit industries to gain practical insights into the corporate world and understand the latest trends and technologies. Additionally, visits to Intellectual Property Rights (IPR) centers help in educating individuals about the significance of protecting intellectual property.
4. **Celebration of Entrepreneurship and Innovation Days:** The IIC celebrates various important days such as Entrepreneur Day, National Science Day, Innovation Day, and National Education Day. These celebrations aim to raise awareness about entrepreneurship, innovation, and the impact they can have on society.
5. **National Energy Conservation Week:** The IIC actively participates in National Energy Conservation Week, focusing on promoting energy conservation and sustainable practices among students and the community.

6. **Innovation and Entrepreneurship Outreach Program:** The IIC organizes outreach programs to engage with the community and promote innovation and entrepreneurship beyond the campus. These programs may include workshops, seminars, and awareness campaigns.

7. **Workshops on Intellectual Property Rights (IPRs):** Workshops focusing on Intellectual Property Rights (IPRs) and IP management are organized to educate students about the importance of safeguarding intellectual assets, fostering innovation, and understanding legal aspects related to innovation and entrepreneurship.

The IIC at GNIET in Nagpur is making significant efforts to create a conducive environment for innovation and entrepreneurship, nurturing a new generation of innovators and entrepreneurs who can contribute to the society and economy.

• Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments:

Achieving diversified representation within the Institution's Innovation Council (IIC) is essential to ensure a holistic and comprehensive approach to innovation and entrepreneurship. Involving stakeholders from various domains including industry, interdisciplinary fields, and different departments/units within the institute brings diverse perspectives and expertise to drive innovation forward. By incorporating diverse representation from industry, interdisciplinary fields, and different departments/units within the institute, the IIC can effectively encourage collaboration, creativity, and a broader approach to innovation and entrepreneurship. It allows for a rich exchange of ideas and perspectives, leading to more impactful initiatives and outcomes.

Representation from Industry:

❖ **Industry Experts and Entrepreneurs:** Involve professionals, successful entrepreneurs, and experts from diverse industries as advisors or members of the IIC. Their experience and insights can guide students and faculty in understanding industry trends, challenges, and best practices.

❖ **Industry Partnerships:** Collaborate with industry partners to actively participate in the IIC's activities, workshops, and events. Engage them in mentorship programs and as judges for innovation challenges, startup pitches, or hackathons.

❖ **Alumni Involvement:** Engage successful alumni who have ventured into entrepreneurship or made significant contributions to the industry. Their experiences can inspire and mentor current students.

Interdisciplinary Representation:

❖ **Cross-Disciplinary Faculty:** Involve faculty members from various disciplines to bring a multidisciplinary approach to innovation. This can foster cross-pollination of ideas and encourage innovative solutions that integrate knowledge from different fields.

❖ **Student Teams:** Encourage the formation of student teams with members from different disciplines. These teams can collaborate on innovative projects and initiatives under the guidance of the IIC.

Departments/Units within the Institute:

❖ **Faculty Members:** Include representation from different departments within the institute, ensuring that faculty members from various disciplines are part of the IIC. This ensures that diverse academic perspectives are considered in decision-making.

❖ **Student Representatives:** Have student representatives from different departments to provide a comprehensive view of student needs, aspirations, and innovative ideas across disciplines.

❖ **Research and Development Units:** Involve units dedicated to research and development within the institute to foster an environment of continuous innovation and experimentation.

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

Date: **18/07/2023**

Sr. No.	Name of Portfolio	Name of In-charge	Responsibility	Signature
1	President	**Prof. Sadaf Gauhar** HoD, ASH	**The President will constitute:** • Will call the meetings, set meeting agenda and will monitorthe deliverable • Will lead the IIC Council. • Will ensure Institution's participation in IIC calendar activity and take lead in the institution driven activities (own initiatives). • Will coordinate with MHRD innovation cell • Will be responsible for submitting the monthly progress/activity reports on the IIC portal.	

				Signature
2	**Vice-President**	**Prof. Rajendra Bhombe** Vice-principal	• It is an honorary post for a senior expert representative from Industry/Ecosystem enablers. • He can be from faculty representative as well in case no experts are available	
3	**Convener**	**Prof. Pranjali Markand** Asst, Prof. ASH	• The Convener will work in close coordination with IIC president and will provide help wherever required for smooth conduction of activities. • Will be required to prepare the meeting agenda at least 10 days prior to meeting. • Supposed to collect the inputs from all the members of the council at regular interval, especially external members for better planning of IIC activities and effective delivery of results.	
4	**Innovation Activity Coordinator**	**Dr. Sushma Telrandhe** Associate Dean (R&D)	• Will work to promote innovation related activities on campus or as mandated in IIC council meeting. • Required to research on how we can bring in more creativeside of the students.	
5	**Start-Up Activity Coordinator**	**Dr. Balram Timande** HoD, CSE	• Will work to boost startup generation among students and related activities or as mandated in IIC council meeting.	
6	**Internship Coordinator**	**Prof. Manish Agrawal** Coordinator, IIIC	• Will work to arrange student internships in startups, so to expose them with startup ecosystem in India, real-life challenges in startup and their success stories or as mandated in IIC council meeting. • Giving them exposure to the opportunities available and motivating them for the same.	
7	**IPR Activity Coordinator**	**Prof. Sandeep Buradkar** In-charge Co-Curricular Activity, Asst. Professor, ETC	• To promote awareness about IPRs and conduct related activities on campus or as mandated in IIC council meeting.	
8	**Social Media Coordinator**	**Prof. Puja Nagpure** HoD, MBA	• Will create and manage IIC page/account on Facebook, Twitter and YouTube and other relevant social media platforms. • He will be responsible for posting all the relevant information about council meeting	

	MEMBERS	**Name of Staff (Teaching/Non-Teaching)**	**Responsibility**	**Signature**
			resolution and action plan. • IIC activities and follow/tag MIC/IIC page and posts on theseplatforms. • He will also ensure that all students follow MIC/IICpage/account on social media to get first-hand information.	
9	**Teaching Staff:**	1. **Dr. Satishchandra Ragit** Head IQAC 2. **Prof. Akshay Pillewan** NSS Coordinator 3. **Prof. Deepak Deshpande** Extra-Curicular In-charge 4. **Prof. Shubhangi Ghadinkar** Women Development Cell In-charge, Asst. Prof, CSE 5. **Prof. Yashraj Chopkar** Asst. Prof. ASH 6. **Prof. Divya Lande** Asst. Prof. ASH 7. **Prof. Vaishali Dhanwate** Asst. Prof. EE 8. **Prof. Soniya Milmile** Asst. Prof. ETC	• Required to be present for all the meetings scheduled by the President. • Any work or task allotted by the president should be completed as and when required. • Should be sincere in their work • Should do a proper research and have clarity of the task allotted before converting it in action. • Minutes of the Meeting (MoM) and Report to be made whenever required.	

Non-Teaching Staff:	1. **Mr. Shital Likhar** Deputy Registrar, GNI	• Providing with the details associated with the institution when required	
	2. **Mr. Prashant Wankhede** AO, GNI	• Looking at the Technical and Non-Technical aspect.	
	3. **Mr. Ishwar Dhote** Electrician, GNI	• Taking care of the sound system and making make arrangements	
Peon:	1. Baby Lakhe 2. Suvarna Waghmare	• Completing task given by the president • Taking care of the refreshments. • Taking care of the documents that are being transferred from one individual to the other.	

Prof. Sadaf Gauhar
HoD, ASH
(President IIC)

Dr. Hemant Hajare
Principal
(HOI, IIC)

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

- Total No. of IIC Members: 11
- Total No. of IAs: 4
- Total No. of faculty Mentors: 02

- **Pre-Incubation Units: Yes**

Pre-incubation is a critical stage in the entrepreneurial journey where early-stage startups and innovative projects receive essential support, guidance, and resources to develop into viable, sustainable businesses.

Ideation and Concept Validation:

- Offer workshops and mentorship programs to help aspiring entrepreneurs refine their ideas, assess market demand, and validate their concepts for feasibility and potential success.

Business Model Development:
- Provide guidance in structuring and refining business models, emphasizing value proposition, revenue streams, cost structures, and scalability to ensure long-term viability.

Market Research and Analysis:
- Assist startups in conducting thorough market research to understand target markets, consumer behavior, competitive landscapes, and market trends, enabling informed business decisions.

Product or Service Prototyping:
- Support startups in building minimum viable products (MVPs) or prototypes, aiding in product validation, gathering feedback, and iterating based on real-world testing.

Technology and Intellectual Property Integration:
- Help startups integrate technological advancements and intellectual property strategies into their products or services, ensuring innovation, competitive advantage,

and protection of intellectual assets.

Team Building and Skill Development:

- Conduct training sessions and workshops on team dynamics, leadership, communication, and other essential skills to help entrepreneurs build effective teams and lead their ventures.

Financial and Legal Guidance:

- Provide training on financial planning, budgeting, fundraising strategies, legal compliance, contracts, and intellectual property rights to ensure startups are equipped to handle financial and legal aspects effectively.

Mentorship and Networking:

- Connect startups with experienced mentors, industry experts, and successful entrepreneurs who can provide guidance, advice, and valuable insights to navigate challenges and make informed decisions.

Access to Resources and Facilities:

- Offer access to co-working spaces, laboratories, research facilities, and other necessary resources to support startups during the pre-incubation phase.

. Pitching and Investor Readiness:

- Conduct training on effective pitching, storytelling, and investor relations to prepare startups for engaging with potential investors, securing funding, and scaling their businesses.

. Community Engagement and Collaboration:

- Encourage collaboration and knowledge sharing among startups within the pre-incubation program, fostering a sense of community and providing opportunities for partnerships and synergies.

. Monitoring and Progress Tracking:

- Establish mechanisms to monitor the progress of startups, track key performance indicators, and provide timely feedback to help them stay on the right track and make necessary adjustments.

- **Incubation Units: Yes**

Incubation is a crucial phase in the entrepreneurial journey where startups receive comprehensive support and resources to develop into sustainable, scalable businesses.

Strategic Guidance and Business Development:

- Provide strategic guidance and mentorship to startups for refining their business strategies, identifying market opportunities, and establishing a strong value proposition.

Access to Funding and Investment Networking:

- Facilitate access to funding opportunities by connecting startups with investors, venture capitalists, angel investors, and government grants to secure the necessary financial support for growth and expansion.

Market Expansion and Scaling Strategies:

- Assist startups in developing market expansion strategies, entering new markets,

scaling their operations, and achieving sustainable growth.

Product Development and Enhancement:
- Offer technical and advisory support for product development, refinement, and enhancement based on market feedback and changing industry trends.

Technology Integration and Innovation:
- Help startups integrate cutting-edge technologies and innovations into their products or services to gain a competitive edge and meet evolving consumer demands.

IPR Protection and Management:
- Provide guidance and support on Intellectual Property Rights (IPR) strategies, including patents, trademarks, copyrights, and trade secrets, to protect the startup's intellectual assets.

Marketing and Branding Strategies:
- Assist startups in developing effective marketing and branding strategies to increase visibility, customer engagement, and market reach.

. Operational Efficiency and Process Optimization:
- Offer expertise in optimizing operations, streamlining processes, and improving efficiency to enhance productivity and reduce costs.

. Talent Acquisition and Team Building:
- Help startups in recruiting and building a skilled and motivated team, promoting a positive work culture, and fostering talent development and retention.

. Legal and Compliance Support:
- Provide guidance on legal compliance, regulatory requirements, contracts, agreements, and other legal aspects essential for the smooth functioning of the startup.

. Networking and Partnerships:
- Facilitate networking opportunities, collaborations, and partnerships with industry experts, established businesses, research institutions, and other stakeholders to enhance the startup's ecosystem.

. Monitoring and Impact Assessment:
- Establish mechanisms for monitoring startup progress, assessing key performance indicators, and evaluating the impact of incubation support on the startup's growth and success.

. Community Engagement and Events:
- Organize events, workshops, demo days, and networking sessions to promote interaction and collaboration among startups, mentors, investors, and the wider entrepreneurial community.

- **IP Facilitation Unit: Yes**

Intellectual Property Rights (IPR) are crucial in fostering innovation, protecting creations, and encouraging economic growth.

IPR Awareness and Education:
- Conduct workshops, seminars, and training programs to raise awareness about the importance of IPR and educate students, faculty, and staff on different aspects of

patents, copyrights, trademarks, and trade secrets.

- Offer courses or modules on IPR within the curriculum to ensure a foundational understanding of IPR principles among all stakeholders.

IPR Strategy and Management:

- Provide guidance on formulating an effective IPR strategy for innovators and entrepreneurs, including strategies for filing patents, managing copyrights, and protecting trade secrets.
- Help in developing technology transfer and commercialization strategies to derive maximum value from intellectual property assets.

Patent Filing and Commercialization:

- Support innovators and startups in the process of patent filing, including conducting patent searches, drafting patent applications, and navigating the patent examination process.
- Facilitate connections with legal experts and patent agents to assist in the commercialization of patented technologies.

Innovation with IPR Integration:

- Encourage innovators to embed IPR considerations during the ideation and development phases to ensure that new innovations are protected and aligned with the organization's IP strategy.
- Promote research and projects that generate valuable intellectual property and have the potential for commercialization.

IPR Legal and Ethical Aspects:

- Organize sessions on legal aspects of IPR, addressing infringement issues, licensing agreements, and international IPR laws and regulations.
- Emphasize ethical considerations in handling intellectual property, promoting fair usage and responsible practices.

IPR for Startups and MSMEs:

- Tailor IPR support programs specifically for startups and Micro, Small, and Medium Enterprises (MSMEs), helping them understand how to protect their innovations and leverage intellectual property for growth and market competitiveness.

IPR Collaboration and Networking:

- Foster collaboration among researchers, innovators, and industry to encourage the exchange of ideas and expertise in the realm of IPR.
- Facilitate partnerships with research institutions, legal firms, and industry experts to enhance IPR-related capabilities and opportunities.

IPR Policy and Advocacy:

- Advocate for favorable IPR policies at the institutional, regional, and national levels to support innovation and entrepreneurship.
- Participate in policy dialogues and contribute to the development of IPR frameworks that encourage creativity and innovation.

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

▪ **Facilities and Infrastructure:**

Innovation Labs and Maker Spaces:
- Equipped with advanced tools and technologies for prototyping, experimenting, and developing innovative products or solutions.

Collaborative Workspaces:
- Modern, flexible workspaces that encourage collaboration, brainstorming, and idea sharing among individuals and teams.

Meeting and Presentation Rooms:
- Well-equipped rooms for conducting meetings, workshops, seminars, and presentations essential for brainstorming and sharing ideas.

Incubation Office Spaces:
- Dedicated office spaces for startups undergoing incubation, providing them with a professional and conducive working environment.

Access to Research Facilities:
- Access to research centers, laboratories, and specialized equipment to support R&D activities and technology-driven innovation.

Technology Transfer Offices:
- Dedicated offices to facilitate the transfer of technology and knowledge from academic research to practical applications and commercialization.

Networking Hubs:
- Spaces designed for networking, fostering connections among startups, mentors, investors, industry experts, and alumni.

▪ **Student Bodies/Clubs Engaged in Promotion of Innovation and Entrepreneurship:**

Entrepreneurship Club:
- Engages students interested in entrepreneurship by organizing workshops, events, and guest lectures featuring successful entrepreneurs.

Innovation Club:
- Encourages students to innovate and develop creative solutions by organizing idea generation sessions, hackathons, and innovation challenges.

Startup Support Group:
- Provides a platform for students interested in startups to collaborate, share ideas, and receive mentorship and guidance.

Technology and Research Society:
- Promotes technology-driven innovation and research among students, facilitating participation in innovation-focused projects and competitions.

Business Plan Competitions Team:

- Organizes and participates in business plan competitions, encouraging students to develop and pitch their startup ideas.

Incubator Student Team:
- A team of students responsible for managing and supporting the operations of the incubator, facilitating the pre-incubation and incubation process.

Society for Intellectual Property Rights:
- Raises awareness about intellectual property rights and encourages students to protect their innovations and creative work.

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

Institute Level Celebration Activity under IIC (2022-2023)

Sr. No.	Event/Activity	Date	Department/Cell
1	National Innovation Day	15/10/2022	R & D Cell
2	National Education Day	11/11/2022	Associate Dean (Academic)
3	National Pollution Control Day	02/12/2022	NSS In-charge
4	National Energy Conservation Day (INDIA)	14/12/2022	EE Department & Internship In-charge
5	National Youth Day	12/01/2023	Extra curriculum Cell
6	India Startup Day	16/01/2023	III Cell & Startup In-charge
7	National Science Day	28/02/2023	R &D Cell
8	International Women's Day	08/03/2023	Women's Development Cell
9	World Earth Day	22/04/2023	NSS In-charge
10	World Intellectual Property Day	26/04/2023	IPR In-charge
11	National Technology Day	11/05/2023	CSE Department
12	World Environment Day	05/06/2023	NSS / Rotract In-charge
13	Independence Day-Celebrating Azadi ka Amritkal	15/08/2023	NSS In-charge
14	World Entrepreneurs Day	21/08/2023	III Cell

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QUATERLY ACTIVITIES-I

Date- 06/10/2022

Sr. no	Name of the Activity	Coordinator's Cell	Coordinator's name	Date
1	One day workshop on Entrepreneurship and innovation; career opportunity	III Cell	Prof. Manish Agrawal	12/10/22
2	My story- Motivational session by successful innovators	R&D Cell	SushmaTelrandhe	19/10/22
3	My story- Motivational session by successful Entrepreneur/ Start-up founder	III Cell	Prof. Manish Agrawal	26/10/22
4	Session on Problem solving and ideation	R&D Cell	SushmaTelrandhe	02/11/22
5	Industrial visit; Problem identification	III Cell	Prof. Manish Agrawal	09/11/22
6	Project Based Learning; Inter level competition	R&D Cell	SushmaTelrandhe	16/11/22
7	Poster Presentation	Start-up	Dr. Sanjay Uttarwar	23/11/22

Prof. Sadaf Gauhar
President IIC
HOD, ASH, GNIET
**HOD
Department of Applied
Science & Humanities
GNIET Nagpur**

Principal
Guru Nanak Institute of
Engineering & Technology
Nagpur - 441501

QUATERLY ACTIVITIES-II (2022-2023)

Duration: 1st December 2022 to 28th February 2023   **Date- 25/11/2022**

Sr. no	Name of the Activity	Coordinator's Cell	Coordinator's name	Date	Signature
1	Workshop on Design Thinking, Critical thinking and Innovation Design	III Cell	Prof. Manish Agrawal	17/01/2023	
2	Organising Innovation & Entrepreneurship Outreach Program in Schools/Community ("One day workshop on technology and startup")	MBA Deptt.	Dr. S.S.Uttarwar	14/12/2022	
3	An Expert talk on Process of Innovation Development, Technology Readiness Level (TRL); Commercialisation of Lab Technologies & Tech-Transfer	R&D Cell	Dr. Sushma Telrandhe	24/01/2023	
4	Workshop on Entrepreneurship Skill, Attitude and Behaviour Development	ETC Deptt.	Prof. Neha Chaurasia	09/02/2023	
5	A Session on Achieving Problem-Solution Fit and Product-Market Fit	CSE Deptt.	Prof. Ayaz Khan	15/02/2023	
6	Field/Exposure Visit to Pre-incubation units such as Ideas Lab, Fab lab, Makers Space, Design Centres, City MSME clusters, workshops etc.	III Cell	Prof. Manish Agrawal	20/01/2023	
7	An Inter/Intra Institutional Innovation Competition and Reward Best Innovations - Manage through YUKTI-NIR	EE Deptt.	Prof. Rajendra Bhombe	23/02/2023	

8	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Innovations/Prototypes & linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR	R&D Cell	Dr. Sushma Telrandhe	28/02/23	

QUATERLY ACTIVITIES-III (2022-2023)

Duration: 1st March 2023 to 31st May 2023   **Date- 27/02/2023**

Sr. no	Name of the Activity	Mode	Deptt./ Coordinator's Cell	Coordinator's name	Date	Signature
1	Workshop on Prototype/Process Design and Development	Offline/Online	EE Dept. CSE Dept.	HoD EE & HoD CSE	31st March 2023	
2	Session on "How to plan for Start-up and legal & Ethical Steps"	Offline/Online	Innovation Incubation Centre	Dr. Balram Timande	05th April 2023	
3	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	Offline/Online	R&D Cell	Dr. Sushma Telrandhe	19th April 2023	
4	Session/ Workshop on Business Model Canvas (BMC)	Offline/Online	MBA Deptt. ETC Dept.	Prof. Puja Nagpure	27th April 2023	
5	Organise an Inter/Intra Institutional Business Plan Competition and Reward Best Innovations - Manage through YUKTI-NIR	Offline	IIC & IIIC	Prof. Sadaf Gauhar & Prof. Manish Agrawal	08th May 2023	
6	Mentoring Event: Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR	Offline/Online	IIC & IIIC	Prof. Sadaf Gauhar & Prof. Manish Agrawal	19th May 2023	

Sr. no	Name of the Activity	Mode	Deptt./ Coordinator's Cell	Coordinator's name	Date	Signature
7	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre such as Atal Incubation Centre etc	Offline	ASH Dept. & IIIC	Prof. Sadaf Gauhar & Prof. Manish Agrawal	26th May 2023	

QUATERLY ACTIVITIES-IV (2022-2023)

Duration: 1ˢᵗ June 2023 to 31ˢᵗ August 2023 **Date- 31/05/2023**

Sr. No	Name of the Activity	Mode	Deptt./ Coordinator's Cell	Coordinator's name	Date	Signature
1	Session on Innovation / Prototype Validation – Converting Innovation into a Start-up or Session on Achieving "Value Proposition Fit" & "Business Fit"	Offline/Online	EE Dept.	**Prof. Rajendra Bhombe** (HoD EE) **Prof. M. Dhage,** ETC	4ᵗʰ July 2023	
2	Session on Angel Investment / VC Funding Opportunity for Early Stage Entrepreneurs.	Offline/Online	ETC Dept.	**Prof. Manish Agrawal** (Coordinator IIIC) **Prof. S. Ghadinkar,** CSE	11ᵗʰ July 2023	
3	Organise Session on "Lean Start-up & Minimum Viable Product/Business"- Boot Camp (or) Mentoring Session	Offline/Online	CSE Dept.	**Dr. Balram Timande** (HoD CSE) **Prof. Puja Nagpure,** HoD, MBA	25ᵗʰ July 2023	
4	Session/ Panel discussion with innovation and Start-up Ecosystem Enablers from the region / state / national level	Offline/Online	R&D Cell	**Dr. Sushma Telrandhe** (Ass. Dean R&D) **Prof. D. Khare,** EE	9ᵗʰ August 2023	
5	Session on Accelerators / Incubation - Opportunities for Students & Faculties - Early Stage Entrepreneurs **(World Entrepreneurs**	Offline/Online	Innovation Incubation Centre	**Dr. Balram Timande** (Coordinator Innovation & Incubation) **Prof. S. Burdkar,** ETC	17ᵗʰ August 2023	

	Day)					
6	**MIC & G20:** Expert talk on "India's Research & Innovation"	Offline	IIC, IIIC & R&D	**Prof. Sadaf Gauhar** (President IIC & HoD ASH) **Prof. Manish Agrawal,** Head IIIC **Dr. S. Telrandhe,** HoD, ETC	22ⁿᵈ August 2023	

- **Number and Different types of I&E and IPR activities Conducted**

1. IPR Visit:

Department of Applied science and Humanities (ASH) of Guru Nanak Institute of

Engineering and Technology (GNIET) in collaboration with Institute Innovation Council (IIC) organized one day educational visit recently for B Tech second semester students at Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur. Dr. Madhubabu Bejjam, Assistant controller of Patents and Designs, RGNIIPM, conducted first technical session whereas second technical session was conducted by Dr. Pankaj P Borkar, Dy controller of Patents and Design. He spoke on importance of Patent filing and highlighted on Copyright in Research and Development field.

This visit was helpful to learn how to initiate start up activities, to develop innovation ideas and it also focus on management skill, team player attitude & leadership skills. About 100 students participated in the educational visit.

2. NEERI Visit:

Electronics and Telecommunication department of Guru Nanak Institute of Engineering and Technology has successfully organized student's Industrial visit at CSIR-NEERI, Nagpur. During visit the technical session was conducted by NEERI scientists and project associates of different Labs and control units. Green fire crackers, Dust identification system, automatic urinal flush system without sensors and electricity, air pollution detector machine, Drone supervision system were the Centre of attraction for the students. During visit Project associates and industry experts suggested new start up ideas for students. This industrial visit was great opportunity for students to interact with scientists of NEERI and industry experts to know about new innovation ideas. It was great experience for students to understand better management skills, team player attitude and leadership skills.

3. "Exploring the Essence: The Vital Role of Research in Academic Advancement"

From 11 AM to 1 PM, the stage graced by Dr. Sushma Telrande, Associate Dean of Research and Development, and Head of ETC Department at GNIET. This enlightening session, took place at the T2 auditorium within GNIET, delved into the pivotal role that research plays in academic advancement. Dr. Telrande provided valuable insights into the world of research, highlighted its significance in academic and professional growth. This session aimed to inspire students to embrace the spirit of inquiry and innovation as they embark on their academic journey.

Exploring India's Research and Innovation Landscape:

From 11 AM to 1 PM, Mr. Sulabh Deshpande, an enterprising figure known for his presidency at Udyojak Vikas Mancha BJP, took the stage. This session delved into the vibrant tapestry of research and innovation in India. With insights drawn from his entrepreneurial journey, Mr. Deshpande shedded light on the role of innovation in shaping India's progress. Held in the Auditorium T2 of GNIET, this session served as a source of inspiration, encouraging students to explore their own potential to contribute to the nation's research and innovation landscape.

NOTE: We have achieved all the mentioned and suggested activities according to the provided academic calender by IIC as well as institute academic calender.

- No. of student's & faculty ideas generated: 03
- No. of student's & faculty Innovation/prototypes developed: 03
- No. of IPs generated, published and granted: 02
- No. of Student & Faculty Start-ups/Ventures established: Nil
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus: 25000/-
- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR: Nil
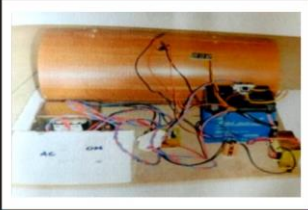- No. of Technology Transfer and Commercialisation happened: Nil

F. Highlight selected best Innovations & images:

Title	SENSOR BASED LPG GAS LEAKAGE DETECTOR SYSTEM		
Details of Team (Name, contact No and Mail ID)			
Name	**Contact**	**Mail**	**Role**
Mr.Saurabh Shambharkar	8956858009		Leader
Ms. Papiha Ajmire	7558494762		Member
Ms. Shraddha Khobragade	8329602408		Member
Ms. Laxmi Meshram	8010792923	laxmimeshram403@gmail.com	Member
Mr.Tharun Iragavarapu	8407910969	tharuniragavarapu@gmail.com	Member
PROF.MINAKSHI DHAGE	8600120906	Minakshidhage90@gmail.com	**Mentor**
Name of College	GNIET,NAGPUR		
Area of Work	Home Appliances		

Abstract: One of the preventive methods to stop accidents associated with the gas leakage is to install a gas leakage detection kit at vulnerable places. This proposed system automatically detect, alert and control gas leakage also includes an altering system for the users. The system is based on a sensor that easily detects a gas leakage.

Outcome: We also provide automatic doors and windows opening, so that the compressed gas can spread in to air freely. Hence a fire accident does not occurs.

Project Glimpses/ Photograph

108th Indian Science Congress (ISC-2023)
Science and Society
January 3-7, 2023

College : GURU NANAK INSTITUTE OF ENGINEERING & TECHNOLOGY
Dahegaon, Kalmeshwar Road, Nagpur

IPR

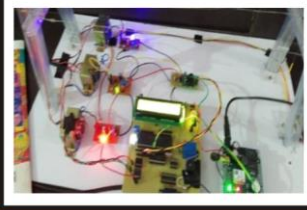Title : Exhaust air energy recovery system for Electrical Power generation

Department : Electrical Engineering

Mentor : Prof. Akshay Pilewan
Students : Mr. Gaurav Madekar, Mr. Ajinkya Mate, Mr. Saurabh Khujnare, Mr. Sumit Bhoyar, Mr. Harshal Jaiwar

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Dahegaon, Kalmeshwar Road, Nagpur

IPR

Title : Real Time fault Detection in transmission line using IOT

Department : Electrical Engineering

Mentor : Prof.Manish Agrawal
Students : Miss. Simran Ramteke, Mr.Vilas Mahure, Mr. Akhil Chhanikar, Miss. AchalWadbude, Miss Sadhna Bisen

G. Detail of Social Media & Connections of IIC institute:

Dear Students, Non-Teaching & Teaching Staff,

Kindly **send request/subscribe/follow** the Facebook, Twitter, YouTube & Instagram link given below of Institution's Innovation Council, GNIET. Whenever events will be uploaded, share & like it too.

IIC Link:

FaceBook Link: https://www.facebook.com/profile.php?id=100086426832173

Twitter Link: Check out IICGNIET
(@iicgniet): https://twitter.com/iicgniet?t=FjWx6QunYwA5wsiflki3sA&s=08

YouTube Link: https://www.youtube.com/channel/UCiAeWZus9GPbMjnxDebfJ_Q

Instagram Link: https://www.instagram.com/iicgniet/

H. __Testimonials:__

 Harshwardhani Kewate	94035968556	Hi, I'm Harshwardhani, a second-year student at GNIET. I recently had the incredible opportunity to present my project at the prestigious Indian Science Congress 2023, all thanks to the unwavering support and guidance from the IIC cell at GNIET. Their belief in my work and their continuous encouragement empowered me to showcase my research at a national platform. This experience has boosted my confidence and motivated me to strive for excellence in the field of science and engineering. I'm immensely grateful for the opportunities provided by GNIET's IIC cell, and I look forward to further exploration and growth in my academic journey."
 __Ritesh Wankhede__	9325321122	"Hello, I'm Ritesh, a second-year student at GNIET. I recently had the privilege of attending a stimulating startup program organized by the IIC cell at GNIET. This program opened up new horizons for me, providing valuable insights into the world of entrepreneurship. I gained practical knowledge, honed my skills, and connected with industry experts. The experience has been truly enriching and has sparked my passion for innovation and entrepreneurship. I'm looking forward to implementing the lessons learned and contributing to the entrepreneurial ecosystem in the future."