

Goel Institute of Technology & Management, Lucknow

Annual Report 2023-24 Institute Innovation Council

A. About IIC Institute

- ❖ GITM Institute Innovation Council is the Emergence of Entrepreneurial Activity at Goel Institute of Technology & Management, Lucknow. It was established in the IIC calendar year 2020-21
- ❖ It Nurtures Entrepreneurial Activities and Inventions for Students, Staff and Faculties under the Supervision of alumni, Industry Professionals, Business Leaders and Renowned Academicians. Its Main Aim is to Identify Grass-Root Innovators in Various Engineering Streams by Creating a Healthy Atmosphere of Expressing, Discovering and Developing Skills and Talent.

➤ **Vision**

- ❖ To Promote New Technology, Knowledge and Innovation-Based Start-Ups and Entrepreneurial Ventures for Societal Needs and National Development.

➤ **Mission**

- ❖ Mentoring students to become young entrepreneurs with the help of regional and international resources for product development.
- ❖ Encouraging students to participate in periodic innovative related activity programs, and identify challenges and documentation for their professional success.
- ❖ Providing a financial support platform to establish a vibrant start-up ecosystem for various prototypes.

➤ **Journey of IIC established at the Institute**

- ❖ 12th June 2020: Received an invitation from AICTE to join the MHRD NSIP campaign. Our institute joined the NSIP campaign.
- ❖ 13th June, 2020: Dr. Priyanka Jaiswal, nominated as NSIP faculty coordinator from our institute.
- ❖ 25th June 2020: Under the guidelines of NSIP and UP state startup policy, formulation of an innovation council was recommended by the institute Academic council.
- ❖ 15th July, 2020: Nominations of President, Vice President and Convener of institute innovation council.
- ❖ 25th July 2020: Nomination of Different Activity Coordinators, Members and Proposal for seeking External Experts members.
- ❖ 30st July 2020: Finalization of all internal IIC members, External IIC members, student members and the Final list is approved by Director of the institution.
- ❖ 10th August 2020: Convener was asked to elaborate Vision, Mission and objectives of IIC.
- ❖ 28th August 2020: First Brainstorming meeting of IIC to finalize vision, mission and objectives of innovation cell. President, IIC, approved the vision, mission and objectives of the Innovation Cell. The major Thrust Areas for

activities were also discussed by IIC.

- ❖ 22nd September 2020: Second Brainstorming meeting of IIC to finalize short- term and long-term plan and goals of IIC. President, IIC, approved the short- term and long-term plan and goals. The activities that must be conducted this calendar year were also discussed.
- ❖ 23rd October 2020: Third Brainstorming meeting to finalize policy of IIC based on guidelines of MoE, IIC. The policies of IIC were approved by President IIC, GITM and sent to the Chairman of the institution for kind approval.

➤ **Performance of IIC-GITM for Session 2022-23:**

- **NIRF India Ranking-2023 – Positioned in the band 51-100 in the Innovation Category**
- **Awarded 4 Star rating in IIC-4 Session 2022-23**
- ❖ The Number of Activities conducted and verified
 - IIC Driven Activity- 30
 - MIC Driven Activity- 9
 - Self Driven Activity- 49
 - Celebrity Activity- 16

➤ **Performance of IIC-GITM for Session 2021-22:**

- **Awarded 4 Star rating in IIC-4 Session 2021-22**
- ❖ The Number of Activities conducted and verified
 - IIC Driven Activity- 21
 - MIC Driven Activity- 7
 - Self Driven Activity- 49
 - Celebrity Activity- 9

➤ **Performance of IIC-GITM for Session 2020-21:**

- **Awarded 3.5 Star rating in IIC-3 Session 2020-21**
- ❖ The Number of Activities conducted by GITM innovation Cell;
 - IIC Driven Activity- 20
 - MIC Driven Activity- 6
 - Self Driven Activity- 18
 - Celebrity Activity- 4

➤ **Objectives:**

- ❖ The objective of the GITM Innovation cell is to create an attractive work environment that nourishes the vibrant research works toward the development of social as well as national issues. It provides a platform for Faculties, Staffs Students of GITM to be part of this cell and come up with Innovative Ideas in the field of waste management, genetic diseases & renewable source of energy fruitful for the development of low-cost equipment used in agriculture as well as industrial sectors.

Long Term objectives:

1. To establish an innovation hub with the best pre-incubation facilities in collaboration with government funding agencies and ecosystem enablers.
2. To facilitate a good number of technology transfers, technology licensing and commercialization of technologies developed by faculty and students.
3. To incubate successful student startups and business ventures.
4. To promote resources in innovation and entrepreneurship to improve the Atal Ranking of the institution.
5. Associate with DST, MSME and other academic institutions for transferring world-class facilities for innovation activities.

Short-Term Objectives:

1. To help student groups to prototype their ideas.
2. To improve innovation, creativity and design thinking among the student community.
3. Organize hackathons and boot camps on campus.
4. To organize FDP, seminars and workshops, and distinguish talks for students and faculty to promote entrepreneurial culture.

To connect the academic process with innovation and entrepreneurship.

➤ **Policies:**

❖ The policies of GITM Innovation Cell are mentioned below:

1. Development of expertise groups based on the thrust area of GITM, Innovation Cell at the institute level.
2. All participants (inside/ outside/ alumni of the Institute) get to register at the incubation centers with due permission from the institute for their work.
3. Motivational and training programs like seminars/ expert lectures/ workshops/FDP/ Conferences based on the thrust area should be organized on a timely basis.
4. Innovation cell members get free short-term/ six-month/ one-year training programs related to their thrust area.
5. To nourish the Innovation cell, faculties/ staff will be facilitated in terms of leaves/ increments for their active participation after monitoring their work. The students will be facilitated by providing good credits in academics.
6. Faculties/ staff/ students or registered candidates of innovation cell are free to utilize (without any payment) the resources of the institute for their start-ups.
7. The progress of work carried out in the innovation cell will be judged on a monthly basis.
8. Mentors from each thrust area should represent the work performance after the completion of one semester (odd/ even).
9. The institute may update/ change/ revise performance evaluation policies for faculty/ staff/ students.
10. Infrastructure comprises R&D equipment that has been developed at the institute level to encourage innovative thinking and research work. Journal

publications on start-ups are highly appreciated.

11. Innovation cell always encourages the filing of IPR. The filled IPR is jointly owned by inventors and the institute under the supervision of the IPR decision-making committee of the institute.
12. For nourishing the Innovation cell an “Innovation Fund” which is 2% of the total annual budget has been created in the Institute to take care of seed-funding, creation of an incubation center and start-ups.
13. Various strategies will be initiated to raise the funds from diverse sources such as private and corporate sectors, alumni network, sponsorships etc.
14. Center of excellence should be started after the flourishing of several activities based on an expertise network.
15. The Innovation cell also looks into the conversion of start-ups into small industries or MSMEs for their commercial production.
16. The GITM Innovation cell takes active participation in the events/activities organized by the government of India based on social work.

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

Number of Interdisciplinary Department Representation: 8

Number of Internal Faculties Representation: 36

Number of Student members Representation: 302

Number of Academicians from other institute Representation as External member: 10

Number of Academicians from Industry Representation as External member: 7

B. Brief mention of key functionaries at the IIC Institute

President

The president initiates, identifies, forms the council and assigns the role and responsibilities to members in an orderly and efficient way. He/ She communicates with the IIC National Coordination team (MHRD Innovation cell) and takes lead in the institution-driven activity. He/ She ensures effective implementation of IIC activities with the help of the convener.

Vice President

The vice president is a senior expert representative. He/ She strengthens the campus innovation and entrepreneurship activities by providing infrastructure support and facilities within and outside the institute. He/ she also strengthens institutional collaboration with the ecosystem at a different level.

Convener

The convener coordinates with all departments for participation in the meeting with the inputs from all valuable council members and the president. He/ She ensures effective delivery of IIC activities with no interference with academics

Innovation activity coordinator

The innovation activity coordinator organizes and coordinates innovation promotion activities and extends support to other activities.

Start-up activity coordinator

The start-up activity coordinator works to boost start-up-related activities among students as mandated by the IIC council.

Internship Coordinator

The internship activity coordinator organizes and coordinates internship opportunities in start-ups, tinkering labs and incubation centers etc. to promote innovation activities among students.

IPR activity coordinator

The IPR activity coordinator organizes and coordinates IPR mentoring and awareness programs to extend support for innovation and entrepreneurial activities

Social Media Coordinator

The social media coordinator is responsible for social media promotion and public relations about IIC activities. He/ She ensures that all students follow social media to get first-hand information.

C. Portfolio/Graphical/Tabular representation of Resource strength (Human capital and Physical capital) of the IIC institution

- **Total No. of Institute Innovation Council Member:** 350
- **Total No. of Innovation Ambassadors:** 29
- **Total No. of faculty Mentors from Portal:** 29

- **Pre-Incubation Units:** 04
 1. New Gen IEDC
 2. Innovation Cell
 3. AeroBay Lab
 4. AI Skills Lab

- **Incubation Unit:** 04
 1. Royal Enfield Center of Excellence & Incubation Center
 2. BOSCH-CSR
 3. Goel Incubation Foundation-Section 8 Company
 4. Blue Star Center of Excellence & Incubation Center

- **IP Facilitation Unit:** 01
 1. GGI IPR Cell

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

PRE-INCUBATION UNITS

1. NEW GEN IEDC:

The objective of New Gen IEDC (Innovation and Entrepreneurship Development Center) is to improve Innovation, Creative thinking skills of students and thereby develop good social relevant projects and to prototype them and help them to find funding/ incubation from Govt./ Private sources to start a Start-up or help them be good innovators. Our mode of operation is to plan, train and monitor the IEDC activities of students in their department with the help of each faculty mentors which would aid in achieving the mission.

The activities under IEDC activities are student leadership points, IEDC IOT and Robotic lab activity, social innovations, internship in startup, Attended/ participated Exhibitions, project contest ,prototype development, company registration, IPR, Start-up activity etc.

Faculty Coordinator: Dr. Devendra Agarwal (Vice-President, IIC-GITM)

2. INNOVATION CELL

GITM Innovation Cell is envisaged to network people, ideas, experience and resources to motivate the innovation community in the college. This cell helps to nurture the student's innovative ideas and encourage them to translate ideas into reality or bring up business proposals by using the facilities of workshops, laboratories, library including digital library facility, internet and intranet facilities and research facilities available in the institute.

The main aim of this Cell is to provide students a perfect platform for working together as teams and participate in various competitions. It will also serve to provide the students a platform to excel in their specialized area of interest.

Faculty Coordinator: Dr. Priyanka Jaiswal (Convener, IIC-GITM)

3. AEROBAY LAB:

Aerobay Lab is a Preincubation Unit of GITM that offers upskilling training in AI, robotics, and design thinking for students. This Lab is dedicated to advancing the field through rigorous experimentation, simulations and groundbreaking research. This lab provides a platform for students to upgrade themselves in aerospace industry and pushing the boundaries.

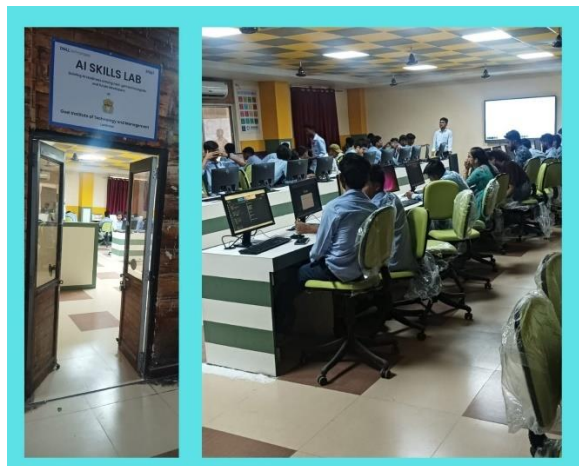
Faculty Coordinator: Mr. Abhinav Shukla (Member, IIC-GITM)



4. AI SKILLS LAB- PRE INCUBATION UNIT

The establishment of the **AI Skills Lab - Pre-Incubation Unit** offers students hands-on experience in AI technologies, fostering innovation, critical thinking, and entrepreneurship. It equips them with industry-relevant skills, preparing them for AI-driven careers and start-up opportunities.

Faculty Coordinator: Dr. Yusuf Perwej, Professor- Computer Science & Engineering Department, GITM & Member, IIC-GITM)



INCUBATION UNITS

1. ROYAL ENFIELD-CENTER OF EXCELLENCE & INCUBATION CENTER

“**Royal Enfield Center of Excellence & Incubation Center**” is established at our campus of **Goel Institute of Technology & Management, Lucknow** in association with **Royal Enfield** (A Unit of Eicher Motors Ltd.) on **11th March 2021**. The objective of Royal Enfield – Centre of Excellence & Incubation Center is to enrich the knowledge of repair, maintenance and diagnostic techniques and terminology of two-wheeler vehicles in specific with Royal Enfield among the students aspirants.

The incubation unit is equipped with the latest machines and tools to provide startup by Research, skill development, and practical training in the fields of Mechanical, Electrical, and Automobile Engineering. The students undergo different phases of trainings under the experts from Royal Enfield and received certificates. The faculty members are also given time to be part of the training and improve their understanding of all the existing and advanced techniques in the Royal Enfield.

Incharge:

Mr. Gaurav Srivastava, Manager Royal Enfield

Faculty Coordinator:

Mr. Shiv Kumar Tripathi (Head ME Dept. & Member IIC GITM)
Mr. Rahul Shukla (Member, IIC GITM)



2. BOSCH CSR

The Nation Building Training (NBT) has been performed of GITM students, in collaboration with BOSCH INDIA FOUNDATION for CSR Industry-Academia Collaboration Initiative. Its objective is to inculcate the importance of ethics and integrity among students like responsibility, accountability, saving and investment etc.

Faculty coordinator: Dr. Richa Verma, Member IIC, GITM



3. GOEL INCUBATION FOUNDATION-SECTION 8 COMPANY

The GOEL INCUBATION FOUNDATION-SECTION 8 COMPANY provides a platform of experimental basics for nurturing and overseeing innovation and entrepreneurship among students.

Faculty Coordinator: Dr. S.K Shukla, Member IIC, GITM



4. BLUE STAR-CENTER OF EXCELLENCE

The **Bluestar Center of Excellence** aims to equip students with hands-on industry experience and training, preparing them for the latest technological advancements. This initiative represents a key milestone in fostering academic and industrial collaboration, reinforcing commitment to promoting innovation. The incubation unit focuses on skill development in **air conditioning, refrigeration, and commercial cooling technologies**, integrating **HVAC systems, IoT-enabled smart cooling solutions, and energy-efficient products**. Students will gain expertise in advanced **air purification technologies** tailored for residential, commercial, and industrial applications, positioning them to excel in the evolving landscape of cooling and environmental control systems.

Faculty Coordinator: Mr. S K Tripathi (HOD ME & Member IIC, GITM)



IPR FACILITATION UNIT

1. GGI IPR CELL

The GGI IPR Cell has been formed at Goel Group of Institutions (GGI) to provide knowledge by coordinating, conducting and managing activities related to the Intellectual Property Rights in the college and also to create awareness among the stakeholders.

Faculty Coordinator:

Dr. Akash Ved (IPR activity Coordinator, IIC-GITM)

Dr. Jyoti Agarwal (IPR activity Coordinator, IIC-GITM)

STUDENT CLUB- GITM INNOVATION CLUB

Objective: To Conduct different Activities under the guidance of IIC related to innovation, startup, IPR & entrepreneurship and promote them on College Facebook, Twitter and Instagram

Faculty Coordinators:

Internal Members of IIC, GITM

Student Coordinators:

Student members of IIC, GITM

External Mentors:

External Members of IIC, GITM

INNOVATION & ENTREPRENEURSHIP COLLABORATION =26

- **Corporate/Industry Association: 15**
- **International Agency: 3**
- **Knowledge/Mentoring agency: 7**
- **Government Agency (Central): 1**

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

- **NIRF India Ranking-2023 – Positioned in the band 51-100 in the Innovation Category**
- **Awarded 4 Star rating in IIC-4 Session 2022-23, 2021-22**
- **List of Successful entrepreneurs of Institute:**

S. No.	Name of Student	Details of Entrepreneurial work
1.	Om Verma & Md. Abid Khan	Partial Replacement of Concrete with Glass fibre
2.	Satyam Kushwaha	Sand Sieving Machine
3.	Anand Shekhar	Use of Waste Plastic as Brick Manufacturing
4.	Mr. Vikas Tiwari	DIZITAL DREAMS
5.	Er. Arvind Raja (Founder and CEO)	TULA-SOLAR POWER (Building Your Trust in Solar)
6.	Praval Kumar	Enfusion Power (An Innovation Solution for Renewable Energies)
7.	Rishi Kashyap	Drone Tech Innovations: An Alternative for highly secure drones
8.	Ratnesh	IoT Health Solutions
9.	Vivek Kumar Pandey	Energy Fit Innovations
10.	Prachi Srivastava	DanikLife Innovations

- **Number and Different types of I&E and IPR activities Conducted in IIC-6 Session 2023-24**

Quarter	IIC	MIC	Self – Driven	Celebratory	Total Activities
1	7	0	23	3	33
2	8	2	10	5	25
3	7	0	9	4	20
4	8	7	7	4	26
Total	30	9	49	16	104

○ **Number of Different Innovation & Entrepreneurship related Academics and Non Academics Courses Conducted in IIC-6 Session 2023-24**

- **Academic Courses: 19**
- **Non Academics Courses: 16**

	2020-2021	2021-2022	2022-2023	2023-2024
No. of faculty's ideas generated	5	8	20	35
No. of students' ideas generated	45	54	140	320
No. of faculty's Innovation/prototypes developed	4	4	10	25
No. of student's Innovation/prototypes developed	2	26	136	150
No. of IPs generated, published and granted	5	8	9	11
No. of Student & Faculty Start-ups/Ventures established	4	4	17	120
Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus (in INR)	50000.00	75000.00	85000.00	150000.00
Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR (in INR)	50000.00	100000.00	110000.00	150000.00
No. of Technology Transfer and Commercialization happened	0	0	0	1

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

1. Dr. Devendra Agarwal (Vice- President, IIC GITM) has evaluated projects for School Innovation Contest of Innovation Cell & department of school education & Literacy, MoE, GoI
2. Dr. Rishi Asthana (President, IIC- GITM) is selected as Mentor by IEEE for Mentorship to faculty members
3. Dr. Vidushi Srivastava (Member, IIC-GITM) and Ms. Kanchan Bhatt (Member, IIC-GITM) participated in IIC Regional Meet 2024- Varanasi (Banaras Hindu University) as representative of IIC-GITM (Mentor institute) and secured First Position in IIC POSTER PRESENTATION, organized by MoE's Innovation cell & AICTE.

4. Innovation Ambassadors of GITM are successfully Mentoring Schools of Intermediate Level under ATL School Linkage scheme

IIC Member	External Mentorship
Dr. Rishi Asthana	<ul style="list-style-type: none"> • Jaipuria School, Lucknow
Dr. Priyanka Jaiswal	<ul style="list-style-type: none"> • Jaipuria School, Lucknow • Kashishwar Inter College, Mohanlal Ganj, Lucknow • Kendriya Vidyalaya, Barabanki • Central Academy senior secondary School, Barabanki
Dr. Jyoti Agarwal	<ul style="list-style-type: none"> • Jaipuria School, Lucknow
Dr. Vidushi Srivastava	<ul style="list-style-type: none"> • Jaipuria School, Lucknow • Kashishwar Inter College, Mohanlal Ganj, Lucknow • Kendriya Vidyalaya, Barabanki
Dr. Anita Pal	<ul style="list-style-type: none"> • Jaipuria School, Lucknow
Ms. Kanchan Bhatt	<ul style="list-style-type: none"> • Kendriya Vidyalaya, Barabanki • Kashishwar Inter College, Mohanlal Ganj, Lucknow
Ms. Prachi Yadav	<ul style="list-style-type: none"> • Kendriya Vidyalaya, Gomtinagar
Dr. Mrinalini Srivastava	<ul style="list-style-type: none"> • Kendriya Vidyalaya, Gomtinagar
Mr. Md. Shariq Ansari	<ul style="list-style-type: none"> • Kashishwar Inter College, Mohanlal Ganj, Lucknow • Central Academy senior secondary School, Barabanki

4. Winners of Startup Plan Competition:

Dept.	Student	Mentor
BT	Rahul Tiwari	Mr. Ahsan Masood
CE	Jahanvi	Mr. Vijendra Kumar Shukla
EC	Hemant Kumar Rao	Mr. Ravi Shankar Yadav

5. Inter Collage Business Plan Competition:

	Business Plan	Students
Unique Idea Award	Electronic Fuse	Gaurav Singh
Best Plan Award	Multifunctional Backpack	Firoz Alam
Best Presenter Award	Smart Fencing with Sensors	Abhay Yadav

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

Participated Teams for SMART INDIA HACKATHON 2024

(A) Team Innovation Category: HARDWARE

Department	Team Name	Team Leader	Mentor	Problem statement ID [Problem Statement Title/ Theme]
Civil Engineering	TECHWARD	Adarsh Shukla (Male)	Mr. Shubhendu Mishra	SIH 1532 [Student Innovation, Clean & Green Technology]
Civil Engineering	WORRIERS	Mohd Khalid (Male)	Mr. Shubhendu Mishra	SIH 1527 [Student Innovation, Disaster Management]
Civil Engineering	CARBOTECH	Vivek Tiwari (Male)	Mr. Raj Kumar Gupta	SIH 1532 [Student Innovation, Clean & Green Technology]
Civil Engineering	CIVITECH	Sachin Kumar (Male)	Mr. Raj Kumar Gupta	SIH 1527 [Student Innovation, Clean & Green Technology]
Civil Engineering	LOOP HOLE	Shubham Maurya (Male)	Mr. Om Prakash Pal	SIH 1584 [AI based acoustic wave monitoring of rail defects like cracks, fracture and prediction for rail wear, quality along with other parameter/ Transportation & Logistics]
Civil Engineering	CIVIL HEROES	Saurabh Kashyap (Male)	Mr. Om Prakash Pal	SIH 1584 [AI based acoustic wave monitoring of rail defects like cracks, fracture and prediction for rail wear, quality along with other parameter/ Transportation & Logistics]
Civil Engineering	VIBRATORS	Abhishek Singh Parihar (Male)	Mr. Vijendra Kumar Yadav	SIH 1527 [[Student Innovation, Disaster Management]
Electrical Engineering	ELECTROHOLICS	Abhishek Singh (Male)	Mr. Md. Shariq Ansari	SIH 1566 [Enhancing body detection in CSSR Operations Using Advanced Technology/ Disaster Management]
Electrical Engineering	ELECTRIC MIND	Rishabh Singh (Male)	Mr. Dheeraj Kumar	SIH 1535 [Student Innovation/ Smart Vehicles]
Electrical Engineering	DTC PATHFONDERS	Alok Kumar Verma (Male)	Mrs. Subhana Siddiqui	SIH 1612 [Automated Bus Scheduling and Route Management

				System for Delhi Transport Corporation / Smart Vehicles]
Elec. & Comm. Engg.	JOURNEY ELEVATORS	Dev Agarwal (Male)	Mr. Abhishek Jain	SIH 1710 [Enhancing Navigation for Railway Station Facilities and Locations/ Transportation & Logistics]
Mechanical Engg.	TEAM ALPHA	Harsh Yadav (Male)	Mr. Ashish Kumar Srivastava	SIH 1534 [Student Innovation/ Transportation & Logistics]
Mechanical Engg.	TEAM BETA	Deepak Kushwaha (Male)	Mr. Rahul Shukla	SIH 1536 [Student Innovation/ Agriculture, FoodTech & Rural Development]
Mechanical Engg.	TEAM GAMMA	Anurag Tiwari (Male)	Mr. Shiv Kumar Tripathi	SIH 1535 [Student Innovation/ Smart Vehicles]
Mechanical Engg.	ENERGY SQUAD	Pranjal Gupta (Male)	Dr. Shailendra Kumar	SIH 1532 [Student Innovation, Clean & Green Technology]
Bio- Technology Engg.	BIOGIANTS	Shubham Sharma (Male)	Mrs. Namrata Budhiraja	SIH 1764 [Grey Water Management (GWM)- Implementing low cost technical solutions to mitigate water contamination, especially removal of contaminants, before discharge into rivers and lakes / Clean & Green Technology]
Bio- Technology Engg.	BIOTECH VENTURES	Aditya Pandey (Male)	Ms. Surya Mishra	SIH 1556 [Develop a Smart Yoga Mat integrated with Artificial Intelligence (AI) capabilities to support smart watch integration for tracking progress and provide curated yoga content by experts, while ensuring its affordability/ MedTech / BioTech / HealthTech]
Bio- Technology Engg.	BRAINIES	Atharva Chittransh (Male)	Ms. Kanchan Bhatt	SIH 1541 [Student Innovation/ Toys & Games]
Bio- Technology Engg.	BIO GENIUS	Ritesh Verma (Male)	Mr. Ahsan Masood	SIH 1536 [Student Innovation/ Agriculture, FoodTech & Rural Development]

Team Innovation Category: Software

Department	Team Name	Team Leader	Mentor	Problem ID [Problem statement/ Theme]
Computer Science & Engg.	Net Surfers	Tanvi Srivastava(Female)	Dr. Nikhat Akhtar Dr. Ranjeet Pathak	SIH1620 [Queuing models in OPDs/ availability of beds/ admission of patients. A hospital based

				solution is ideal which can be integrated with city wide module /MedTech/BioTech/HealthTech]
Computer Science & Engg.	Drone Maniacs	Ujjawal Thakur(Male)	Dr. Yusuf Perwej Dr. Nikhat Akhtar	SIH1618 [Online monitoring of Unauthorized construction across the city/Robotics and Drones]
Computer Science & Engg.	Code Wave	Anand Kumar Sharma(Male)	Ms. Prachi Yadav Dr. Nikhat Akhtar	SIH1605 [Women Safety Analytics – Protecting Women from safety threats/Miscellaneous]
Computer Science & Engg.	Clean Green Copes	Javed Warsi(Male)	Mr. Kumar Bibhuti B. Singh Dr. Yusuf Perwej	SIH1592 [Student Innovation/Clean & Green Technology]
Computer Science & Engg	Rapid Rescue	Shrejal Singh(Female)	Dr. Anita Pal Dr. Nikhat Akhtar	SIH1605 [Women Safety Analytics – Protecting Women from safety threats/Miscellaneous]
Computer Science & Engg	Hexabytes	Krishna Chaurasiya(Male)	Mrs. Namita Srivastava Mr. Dileep Kr. Gupta	SIH1597 [Student Innovation /MedTech/BioTech/HealthTech]
Computer Science & Engg	Tech Trojans	Vishal Mishra(Male)	Ms. Neha Singh Dr. Nikhat Akhtar	SIH1590 [Energy Consumption Dashboard for House board] /Renewable/Sustainable Energy]
Computer Science & Engg	AI Overloads	Amarendra Singh(Male)	Ms. Neha Singh Dr. Nikhat Akhtar	SIH1592 [Student Innovation/ Clean & Green Technology]
Computer Science & Engg	Cyber Fort	Saksham Verma(Male)	Mr. Shivam Shukla Dr Ranjeet Pathak	SIH1589 [Student Innovation/Blockchain and cyber security]
Computer Science & Engg	True Fuel	Aditya Kumar(Male)	Ms. Neha Singh Dr. Nikhat Akhtar	SIH1590 Student Innovation/[Renewable/Sustainable Energy]
Computer Science & Engg	Wo Guardians	Ajay Pandit (Male)	Mr. Shivam Shukla Dr Ranjeet Pathak	SIH1605 [Women Safety Analytics – Protecting Women from safety threats/Miscellaneous]
Computer Science & Engg	MI Ackerman	Ayush Tripathi (Male)	Dr Ranjeet Pathak Mr. Shivam Shukla	SIH1597 [Student Innovation/ MedTech/Biotech/HealthTech]

IMAGES:



H. Highlight selected startups established by students/faculties with mention of founder/cofounder name:

- 1. UREASE BACTERIA USE AS SELF HEALING CONCRETE**
Mr. Shubhendu Mishra (Assistant Professor & Member-IIC GITM, Dept. of CivilEngineering)
- 2. TULA-SOLAR POWER (Building Your Trust in Solar)**
Er. Arvind Raja- Founder and CEO (External Expert- IIC GITM)
- 3. DIZITAL DREAMS**
Mr. Vikas Tiwari - Founder and CEO (External Expert-IIC GITM)
- 4. Use of Waste Plastic as Brick Manufacturing**
Anand Shekhar (Student Member-IIC GITM)
- 5. Sand Sieving Machine**
Satyam Kushwaha (Student Member-IIC GITM)
- 6. Partial Replacement of Concrete with Glass Fibre**
Om Verma & Md. Abid Khan (Student Members- IIC GITM)
- 7. KRISHI SHIELD INNOVATIONS**
Dr. Rishi Asthana (President-IIC-GITM and Director-GITM)
- 8. E-Sense Mobility Solutions**
Dr. Rishi Asthana (President-IIC-GITM and Director-GITM)
- 9. Stitch Craft- Your Local Tailor**
Md. Amaan – Student Member, IIC-GITM
- 10. FarmConnect Analytics(An alternative for radical Innovations)**
Mr. Abhinav Shukla (Assistant Professor & Member-IIC GITM, Dept. of Electrical Engineering)
- 11. BYTELINKUP IT SOLUTIONS PRIVATE LIMITED**
Mr. Dhruv Shivhare (External Expert- IIC GITM)

I. List if any breakthrough Innovations/ Technology Developed at the institute (2-3technology with 2-3 lines about technology and innovation): NIL

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

- **Mentor-Mentee Scheme-2023-2024**

The IIC- GITM was the recipient of Rs.2,25,000/- (Two Lakhs Twenty-Five Thousand Only) as Grant-inAid as a Mentor Institute under the Mentor-Mentee Program for IIC institutions 2023-24,by MIC & AICTE

Mentor Institute : Goel Institute of Technology & Management, Lucknow

Mentee Institutes:

1. Veer bahadur Singh Rajkeeya Mahavidyalaya, Kanpiarganj, Gorakhpur
2. Government Polytechnic, Atrauliya, Azamgarh
3. Kali Charan Nigam Institute of Technology, Banda
4. Goel Institute of Pharmacy & Sciences, Lucknow
5. Goel Institute of Pharmaceutical Sciences, Lucknow

❖ **Number of Activities Conducted**

- **Orientation & Mentoring Session: 2 (for all 5-mentee institute)**
- **Organized IIC Calendar activities: 2 (for all 5-mentee institute)**
- **Quarterly Progress Review Meetings: 3 (for all 5-mentee institute)**
- **I & E Training & Exposure Visit: 1 (for all 5-mentee institute)**
- **Progress monitoring & Impact Measurement: 1 (for all 5-mentee institute)**

• **NISP Adoption Status:**

Trained Faculty, Policy Formulation, Policy Implementation:

Trained Faculty Name: Dr. Priyanka Jaiswal

Policy Formulation Status: Completed in all respect

Policy Implementation Status: Completed in all respect

K. ATL Linkage & Mentoring

❖ **Name of Schools**

- Central Academy Senior Secondary School Barabanki- School Code: 230211553
- Kashishwar Inter College Lucknow- School Code: 243714496
- Shri Sundar Lal Kamla Inter College Lucknow-School Code: 166119504

❖ **Number of Activities Conducted**

- **Orientation Session: 3**
- **Training & Boot camps: 3**
- **Mentor-Mentee Meet: 6**
- **Exposure Visit: 3**
- **Participation of Schools in IIC Activities: 0**

L. Yukti Innovation Challenge:

- **Number of young Innovators nominated for Yukti Innovation Challenge-2023: 5**

M. Innovation Ambassadors

- **Number of Innovation Ambassadors Basic Level Trained: 29**
- **Number of Innovation Ambassadors Advanced Level Trained: 29**
- **Number of Innovation Ambassadors Reskilling Level Trained: 22**
- **Number of Activities Conducted Internally: 93 (Total in three years)**
- **Number of Activities Conducted Externally : 17 (Total in three years**
- **Number of Innovation Ambassadors Upskilling/Reskilling certificate Trained: 26**

N. E Recourses Developed : 13

O. Detail of Social Media &Connections of IIC institute

- **Institute website:** www.gitm.goel.edu.in
- **Institute Facebook page:** www.facebook.com/GoelGroupLko
- **Institute Twitter account:** www.twitter.com/GoelGroup
- **Institute Instagram account:**
www.instagram.com/goel_group_of_institution

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

The testimonials are uploaded on institute website

Website link: <https://gitm.goel.edu.in/outreach/>

Q. Images: <https://gitm.goel.edu.in/gic-image-gallery/>

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