

Goel Institute of Technology & Management, Lucknow

Annual Report 2020-21

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 the Students, Staffs and Faculties under the Supervision of Alumnus, 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 take part in periodic innovative related activity programs, identify challenges and documentations for their professional success.
- ❖ Providing 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 MHRD NSIP campaign. Our institute joined 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 institute Academic council
- ❖ 15th July, 2020: Nominations of President, Vice President and Convenor of institute innovation council
- ❖ 25th July 2020: Nomination of Different Activity Coordinators, Members and Proposal for seeking External Experts members
- ❖ 30th July 2020: Finalization of all internal IIC members, External IIC members, student members and the Final list is approved by Director of institution
- ❖ 10th August 2020: Convenor 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 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, which have to be conducted this calendar year, were also discussed.

- ❖ 23stOctober 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 send to Chairman of institution for kind approval.

➤ **Objective:**

- ❖ The objective of the GITM Innovation cell is to create an attractive work environment that nourishes the vibrant research works towards 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.

➤ **Policies:**

- ❖ The policies of GITM Innovation Cell are mentioned as below:

1. Development of expertise groups based on thrust area of GITM, Innovation Cell at the institute level.
2. All participants (inside/outside/alumni of the Institute) get register at the incubation centres 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/staffs 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/staffs/students or registered candidate 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 monthly basis.
8. Mentors from each thrust area should represent the work performance after 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 incubation centre 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 flourishing of several activities based on expertise network.

15. The Innovation cell also looks into the conversion of start-ups into small industries or MSME 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.**

INTERNAL MEMBER LIST			
Sr. No.	Name of Member	Member Type (Teaching/ Non-teaching / External Expert)	Key Role/ Position assigned in IIC
1.	Dr. Rishi Asthana	Teaching	President
2.	Dr. Devendra Agarwal	Teaching	Vice President
3.	Dr. Priyanka Jaiswal	Teaching	Convener
4.	Dr. Bipin Kumar Singh	Teaching	Innovation activity, start-up activity Coordinator
5.	Mr. Mohammad Shariq Ansari	Teaching	Social Media, ARIIA Coordinator
6.	Ms. Vidushi Srivastava	Teaching	IPR activity coordinator
7.	Dr. Satya Bhushan Verma	Teaching	Internship activity Coordinator
8.	Dr. Richa Verma	Teaching	NIRF Coordinator
9.	Mr. Dharmendra Kumar Yadav	Teaching	Member
10.	Mr. Durgesh Kumar Tiwari	Teaching	Member
11.	Mr. Abhay Kumar Mishra	Teaching	Member
12.	Dr. Jyoti Agarwal	Teaching	Member
13.	Mr. Shiv Kumar Tripathi	Teaching	Member
14.	Dr. Rajan Kumar Singh	Teaching	Member
15.	Mr. Ranjan Das Bagh	Teaching	Member

EXTERNAL MEMBER LIST			
Sr. No.	Name of external experts	Designation	Key Role/ Position assigned in GITM-IC
1.	Dr. Arun Kumar Singh	Associate Professor, REC Kannauj	External Expert
2.	Mr. Ajay Varshney	CEO, Capgemini	External Expert
3.	Dr. Hemant Ahuja	Professor, ABES Engineering College	External Expert
4.	Mr. Robin Goel	Director, K.G Construction	External Expert

5.	Mr. Vivek Gupta	CEO, Margsoft Technologies Pvt. Ltd.	External Expert
6.	Dr. R.P.S Chauhan	Head of Department, IMS Engineering College, Ghaziabad	External Expert
7.	Mr. Sameer Gupta	General Manager, WEBCO India Pvt. Ltd.	External Expert
8.	Mr. Sameer Tiwari	Executive Engineer, HAL	External Expert
9.	Mr. GauravSrivastava	Training Manager, Royal Enfield	External Expert
10.	Mr. RajendraKalra	Senior Project Engineer, TCS	External Expert
11.	Er. AkhileshKushwaha	Director, ITLS Lucknow	External Expert

STUDENT MEMBER LIST

Sr. No.	Name	Member Type (Teaching/ Non-teaching / External Expert/ Student)	Key Role/ Position assigned in IIC
1.	Mr. MayankShukla	Student	Student Member
2.	Ms. Muskan Gupta	Student	Student Member
3.	Ms. PoonamMaurya	Student	Student Member
4.	Mr. AtendraVerma	Student	Student Member
5.	Mr. Vishal Sharma	Student	Student Member
6.	Mr. AniketVerma	Student	Student Member
7.	Mr. AbhishekSrivastava	Student	Student Member
8.	Mr. Manglesh Kumar Arya	Student	Student Member
9.	Ms. ShivaniDwivedi	Student	Student Member
10.	Ms. YashasviJaiswal	Student	Student Member
11.	Mr. Aniket Mishra	Student	Student Member
12.	Mr. Verma Ram Naresh	Student	Student Member

B. Brief mention of key functionaries at the IIC Institute

- **President**
The president initiate, identify, form the council and assign the role and responsibility to members in an orderly and efficient way. He/she communicate from IIC National Coordination team (MHRD Innovation cell) and take lead in the institution driven activity. He/She ensure effective implementation of IIC activities with the help of convenor.
- **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 the institutional collaboration with ecosystem at different level.
- **Convenor**
The convenor coordinates with all departments for participation in the meeting with the inputs from all valuable council members and 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 in IIC council.
- **Internship Coordinator**
The internship activity coordinator organizes and coordinates internship opportunity 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 responsible for social media promotion and public relation about IIC activities. He/she ensure 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 IIC Members:** **40**

- **Total No. of IAs:** **06(Foundation Level)**
 - 1 Dr. Rishi Asthana
 - 2 Dr.PriyankaJaiswal
 - 3 Dr.Bipin Kumar Singh
 - 4 Dr.RajanKunar Singh
 - 5 Dr.JyotiAgarwal
 - 6 Mrs.Samikksha Singh

- **Total No. of faculty Mentors From Portal:** **Nil**
- **Pre-Incubation Units, If any:** **01**

Center of Excellence-Incubation Unit-Royal Enfield
- **Incubation Units, If any:** **01**

Center of Excellence-Incubation Unit-Royal Enfield
- **IP Facilitation Unit, If any:** **01**

(MOU with Mr.TusharSrivastava, Patent Attorney, Innovation Evangelist)

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

“**Centre of Excellence -Incubation Unit-Royal Enfield**” is established at our campus of **GoelInstitute of Technology & Management, Lucknow** in association with **Royal Enfield** (A Unit of Eicher Motors Ltd.) on **11th March 2021**. It is an esteemed center that facilitates the students to get aware of all technical aspects & renowned technology governed by Royal Enfield.

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.

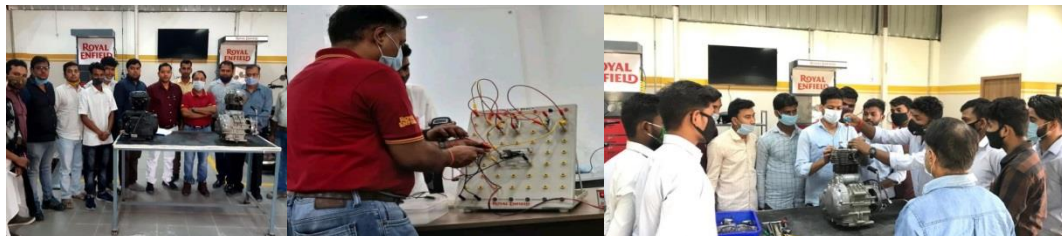
Faculty Coordinator:

Dr.PriyankaJaiswal
Dr. Shiv Kumar Tripathi
Dr.Abhay Mishra

External Expert:

Mr. GauravSrivastava, Manager Royal Enfield

- **Photos:**



Student Club- GITM Innovation Club

Objective: To Conduct different Activities under guidance of IIC and promote them on College Facebook, Twitter and Instagram

Faculty Coordinators:

Dr.Bipin Kumar Singh
Dr.Rajan Kumar Singh
Dr.Jyoti Agarwal

Student Coordinators:

Student members of IIC, GITM

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

- **List of Successful entrepreneurs of Institute:**

S. No.	Roll No.	Name of Student	Branch	Year of Passing	Details of Entrepreneurial work
1.	2003600700052	Ms. Pari Rastogi	MBA	2022	Creamy Creation, Barabanki (In-home bakery)
2.	1906600700013	Mr. Aryan Gupta	MBA	2021	Flora Aroma, Lucknow (Attar based sanitizers)
3.	1906600700024	Ms. Harshita Wadhvani	MBA	2021	Om collection Textiles, Varanasi (deals in clothing line)
4.	1836031902	Mr. Ayush Kumar Singh	EC	2021	TGISES Pvt. Ltd. (an Ed-Tech organization)
	1836031903	Mr. Kaoshilendra Kumar	EC	2021	(The Group for Incubating students & Entrepreneurs by skillers) www.tgises.com

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

Quarter	IIC Driven Activities	MIC Driven Activities	Self-Driven Activities	Total Activities
1.	3	0	4	7
2.	4	0	3	7
3.	6	3	4	13
4.	7	3	6	16
Total	20	6	17	43

	2018-2019	2019-2020	2020-2021
No. of faculty's ideas generated	2	4	5
No. of student's ideas generated	50	55	65
No. of faculty's Innovation/prototypes developed	0	2	4
No. of student's Innovation/prototypes developed	26	28	35
No. of IPs generated, published and granted	0	1	2
No. of Student & Faculty Start-ups/Ventures established	2	3	6
Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus	10000	25000	50000
Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR	5000	15000	50000
No. of Technology Transfer and Commercialization happened	0	0	2

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

E-BOOTATHON01(A National level competition for developing innovative prototype virtual lab application)

Expert Mentor:

Mr. Yogendra Pratap Singh (Assistant Professor, Department of Computer Science, GITM)
Awarded Silver Medal

Team members:	Ms.AsiyaSayed	(CSE -2nd year)
	Mr.Manik Jain	(CSE -3rd year)
	Mr.Samajeet Singh Gautam	(CSE -2nd year)
	Mr.OmkarVerma	(CSE -3rd year)

Awarded Silver Medal

The team of four students and a mentor participated for 'E-Bootathon 01' from Department of Computer Science and Engineering, GITM and developed two innovative prototype virtual lab applications entitled:

The team has awarded 'Silver Developer certificate' and their newly innovative created applications were hosted live during the Bootathon on the Community Portal Vlabsof IIT Kanpur This competition was helpful for students to develop skill set, put them into practice, test them through a challenge, revise what they have learned and in future these applications can be converted into start-ups.

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

Four Projectscomprises of 13 students with 4 Faculty Mentors participated in Toycathon-2020-21(A National level competition)

❖ AUTO IRRIGATION SYSTEM



- Mr.Deepu Kumar Sharma (Roll No.: 1903600400022)
- Mr.AlokYadav (Roll No.: 1903600400005)
- Mr.Manish Kumar (Roll No.: 1903600400025)

❖ PEDEL POWERED WASHING MACHINE



- Mr. Ravi Rai (Roll No.: 1903600400038)
- Mr.Akash Singh (Roll No.: 1903600400004)
- Mr.RinkuRawat (Roll No.: 1903600400040)
- Mr.AhivamBharti (Roll No.: 1903600400046)

❖ **INFRARED SENSOR**



- Mr.Rishi Kashyap (Roll No.: 1903600310011)
- Mr.RaghvendraViswakarma (Roll No.: 1903600310010)
- Mr.KaushalPrajapati (Roll No.: 2003600319003)

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

1. TECHSOFT INDIA,Lucknow: Software Design and Development

<http://web.archive.org/web/20210304152302/https://techsoftindia.co.in/>

Founder Name: Mr.DurgeshTiwari, Assistant Professor, GITM

2. TINTAGE PHOTO Android Application

Founder Name: Mr.DurgeshTiwari&Mr. Rahul Yadav Assistant Professor, GITM

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

- 1. Goel Training & Placement Application:** The mobile application developed by the institute trains students to develop soft skilland technical skills for placements in reputed industry. The application consists of video lectures from renowned academicians, database of various questions asked in companies, practice tests and self-continuous evaluation for improvement
- 2. Goel ERP:** An ERP is self-developed by faculty of institute, which work as per NBA and NAAC format and guidelines.

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

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

Trained Faculty Name: Dr.PriyankaJaiswal
Policy Formulation Status: Completed in all respect
Policy Implementation Status: Completed in all respect

K. 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

L. 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/>

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

N. Contact: Dr. Rishi Asthana

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