

Goel Institute of Technology & Management, Lucknow

Annual Report 2021-22 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 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

Awarded 3.5 Star rating in IIC-3 Session 2020-21

➤ **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.

5. 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.**

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 & New Gen IEDC Incharge
3.	Dr. Priyanka Jaiswal	Teaching	Convener & ARIIA Coordinator
4.	Dr. Piyush Pal	Teaching	Co-Convener & Startup activity coordinator
5.	Dr. Akash Ved	Teaching	IPR activity coordinator
6.	Dr. Jyoti Agarwal	Teaching	IPR activity coordinator
7.	Ms. Vidushi Srivastava	Teaching	NIRF Coordinator
8.	Mr. Md. Shariq Ansari	Teaching	Social Media Coordinator
9.	Dr. S K Shukla	Teaching	GITM Incubation Center Incharge
10.	Mr. Abhay Kumar Mishra	Teaching	Innovation activity coordinator
11.	Dr. Taru Gupta	Teaching	Internship activity coordinator
12.	Mr. Yogendra Pratap Singh	Teaching	Innovation activity Coordinator
13.	Mr. Shubhendu Mishra	Teaching	Member
14.	Ms. Samiksha Singh	Teaching	Member
15.	Mr. Shiv Kumar Tripathi	Teaching	Coordinator ,Royal Enfield Center of Excellence & Incubation Center
16.	Dr. Richa Verma	Teaching	Bosch CSR Coordinator
17.	Mr. Dharmendra Kumar Yadav	Teaching	Member
18.	Dr. Satya Bhushan Verma	Teaching	Member
19.	Ms. Kanchan Bhatt	Teaching	Member
20.	Ms. Prachi Yadav	Teaching	Member
21.	Mrs. Namrata Budhiraja	Teaching	Member
22.	Ms. Anamika Sharma	Teaching	Member
23.	Mr. Sandeep Srivastava	Teaching	Member
24.	Mr. Himanshu Srivastava	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. Gaurav Srivastava	Training Manager, Royal Enfield	Incharge Royal Enfield Center of Excellence Incubation Center
10.	Mr. Rajendra Kalra	Senior Project Engineer, TCS	External Expert
11.	Er. Akhilesh Kushwaha	Director, ITLS Lucknow	External Expert
12.	Er. Arvind Raja	TULA-SOLAR POWER Founder & CEO	External Expert
13.	Mr. Vikas Tiwari	DIZITAL DREAMS Founder & CEO	Entrepreneur Incubation Unit

STUDENT MEMBER LIST

Sr. No.	Name of student	Branch and year	Key Role/ Position assigned in IIC
1.	Himanshu Srivastava	CS-2	Student Member
2.	Bhoomika Verma	IT-2	Student Member
3.	Ashish Verma	IT-3	Student Member
4.	Anveshika Shukla	CS-3	Student Member
5.	Ritik Saini	BT-2	Student Member
6.	Rahul Tiwari	BT-3	Student Member
7.	Amit Kumar Saxena	EC-2	Student Member

8.	Abhishek Singh	EE-2	Student Member
9.	Ritesh Kumar	EC-3	Student Member
10.	Aryan Maurya	EE-3	Student Member
11.	Meneesha Awasthi	ME-2	Student Member
12.	Shaharyar Khan	ME-3	Student Member
13.	Pratyoosh Vardhan	CE-2	Student Member
14.	Aman Singh Yadav	CE-3	Student Member
15.	Atul Kumar Tiwari	MBA-2	Student Member
16.	Mahima Gupta	BT-4	Student Member
17.	Prakhar Verma	EE-4	Student Member
18.	Rishi Kashyap	EC-4	Student Member
19.	Satyam Jaiswal	CE-4	Student Member
20.	Anudeep Verma	IT-4	Student Member
21.	Ravi Rai	ME-4	Student Member
22.	Nishat Pandey	CS-4	Student Member

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 IIC Members:** **40**
- **Total No. of IAs:** **11**

S.No.	Name of Innovation Ambassadors	Level of Training
1.	Dr. Rishi Asthana	Advance Level
2.	Dr. Priyanka Jaiswal	Advance Level
3.	Dr. Jyoti Agarwal	Advance Level
4.	Ms. Samiksha Singh	Advance Level
5.	Ms. Vidushi Srivastava	Advance Level
6.	Ms. Prachi Yadav	Foundation Level
7.	Dr. Piyush Pal	Foundation Level
8.	Mr. Shubhendu Mishra	Foundation Level
9.	Mr. Md. Shariq Ansari	Foundation Level
10.	Mr. Yogendra Pratap Singh	Foundation Level
11.	Ms. Kanchan Bhatt	Foundation Level

- **Total No. of faculty Mentors from Portal:** **11**

- **Pre-Incubation Units, If any:** **02**
 1. New Gen IEDC
 2. Innovation Cell

- **Incubation Units, If any:** **03**
 1. Royal Enfield Center of Excellence & Incubation Center
 2. BOSCH-CSR
 3. GITM Incubation Center

- **IP Facilitation Unit, If any:** **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)

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 (Member, IIC-GITM)

Mr. Abhay Mishra (Innovation Activity Coordinator)

● **Photos:**



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. GITM INCUBATION CENTER

The GITM INCUBATION CENTER provides a platform of experimental basics for nurturing and overseeing innovation and entrepreneurship among students.

Faculty Coordinator: Dr. S.K Shukla, 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

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

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)

Awarded 3.5 Star rating in IIC-3 Session for conducting various Activities prescribed by Innovation Cell, Ministry of Education- Government of India, to promote innovation and startup in campus during the IIC calendar year 2020-21.

Number and Different types of I&E and IPR activities Conducted in IIC-4 Session 2021-22

Quarter	IIC	MIC	Self – Driven	Celebratory	Total Activities
1	5	0	19	1	25
2	6	3	7	3	19
3	6	1	14	3	24
4	4	3	9	2	18
Total	21	7	49	9	86

	2018- 2019	2019- 2020	2020- 2021	2021- 2022
No. of faculty's ideas generated	2	4	5	8
No. of students' ideas generated	32	41	45	54
No. of faculty's Innovation/prototypes developed	0	2	4	4
No. of student's Innovation/prototypes developed	15	18	22	26
No. of IPs generated, published and granted	0	1	5	8
No. of Student & Faculty Start-ups/Ventures established	2	3	4	4
Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus (in INR)	10000.00	25000.00	50000.00	75000.00
Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR (in INR)	5000.00	15000.00	50000.00	100000.00
No. of Technology Transfer and Commercialization happened	0	0	0	0

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

1. Dr. Aakash Ved , IPR Activity Coordinator has published 8 National and International Patents in last two years
2. Innovation Ambassadors of GITM are successfully Mentoring Schools of Intermediate Level under ATL School Linkage scheme

IIC Member	External Mentorship
Dr. Rishi Asthana	Jaipuria School, Lucknow
Dr. Priyanka Jaiwal	1. Jaipuria School, Lucknow 2. Kashishwar Inter College, Mohanlal Ganj, Lucknow
Dr. Jyoti Agarwal	Jaipuria School, Lucknow

Ms. Vidushi Srivastava	<ol style="list-style-type: none"> 1. Jaipuria School, Lucknow 2. Kashishwar Inter College, Mohanlal Ganj, Lucknow
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G. Highlight selected best Innovations & images with mention of inventor/innovation name

Participated Teams for SMART INDIA HACKATHON 2022

Hardware Category:

Department	Team Name	Team Leader	Mentor	Problem statement Title
Biotechnology Engineering	Water Saviours	Mahima Gupta	Ms. Kanchan Bhatt	To develop new ways of wastewater management systems in rural areas.
Electrical Engineering	Aagaaz	Praveen Yadav	Ms. Swatika Srivastava	Automatic Water purifier with mass management system
Electrical Engineering	Udaan	Mayank Shukla	Md. Shariq Ansari	Eco-friendly air conditioner using solid state Peltier modules
Electrical Engineering	Spark	Mahesh Gupta	Ms. Poonam Yadav	Mountainous area accident prevention and traffic controller
Electronics & Comm. Engineering	Drishyak	Unnati Singh	Ms. Tanu Dhusia	Design a robot for handling medical emergencies, search and rescue operation etc.
Civil Engineering	Civil Tech	Dileep Singh	Mr. Raj Kumar Gupta	Self Cleaning Road
Civil Engineering	Civil Warriors	Priya Bharti	Mr. Shubhendu Mishra	Intelligent Analysis of Traffic Congestion from G.I.T.M. to Matiyari
Civil Engineering	Civil Stars	Nihal Srivastava	Mr. O.P. Pal	Utilization of Plastic waste material in construction of rural roads
Mechanical Engineering	Mech Flyer	Rinku Rawat	Mr. Ashish Srivastva	Fixed beam drone

Mechanical Engineering	Mech Shield	Arpit Maurya	Mr. Abhay Kumar Mishra	Solar powered sanitization machine
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Software Category:

Department	Team Name	Team Leader	Mentor	Problem statement Title
Computer Science & Engineering	Console.log	Aman kasudhan	Mr. Yogendra Pratap Singh	Prediction of admission & jobs in engineering & technology With respect to demographic locations
Computer Science & Engineering	Houndwarriors	Wasim Siddique	Ms. Samiksha Singh	Animal tracking system using gps module
Computer Science & Engineering	Haulwarriors	Samarjeet Gautam	Mr. Shivam Shukla	Near cart
Computer Science & Engineering	HOOPTIE	Nishant Pandey	Mr. Durgesh Tiwari	Project on hooptie
Computer Science & Engineering	Collateral	Anuj Singh	Mr. Ajay Kumar	Contactless door using IOT



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 Civil Engineering)
- 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)

I. List if any breakthrough Innovations/ Technology Developed at the institute (2-3 technology 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

- **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. 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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