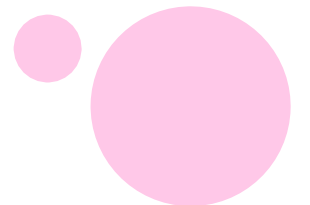
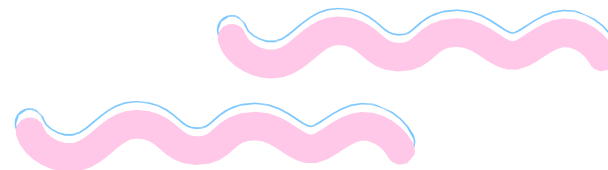
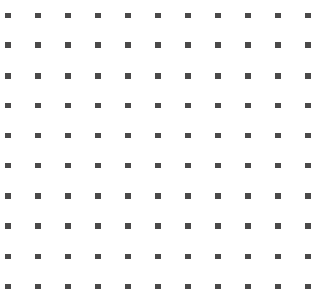


GTBIRC

Guru Tegh Bahadur Innovation and Research Centre



An Opportunity To Scale Up Technology
Led Innovation



1. Importance of Innovation

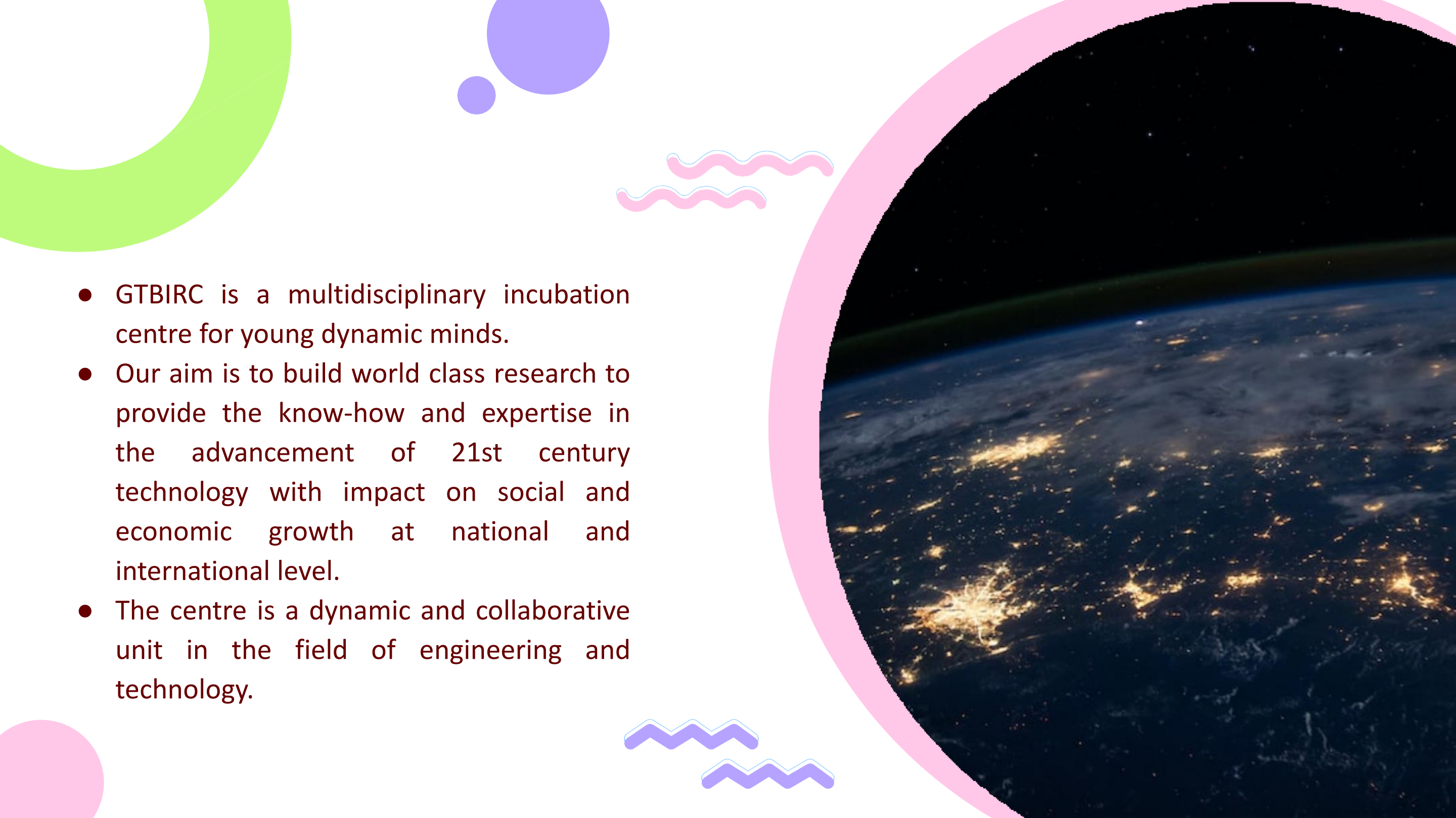
- In today's rapidly changing world, innovation is crucial for individuals and organizations to stay ahead.
- The GTBIRC recognizes the importance of innovation in solving complex problems and driving progress.
- By fostering a culture of creativity and research, the center aims to harness the potential of technology to create groundbreaking solutions that can transform industries and improve lives.



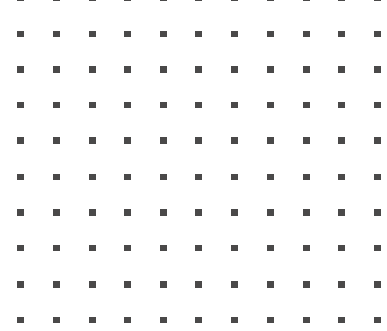
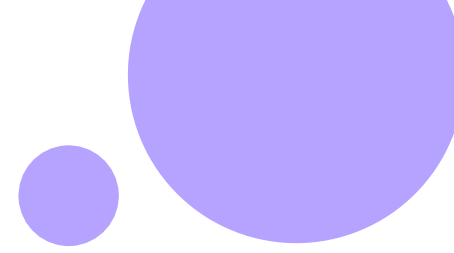
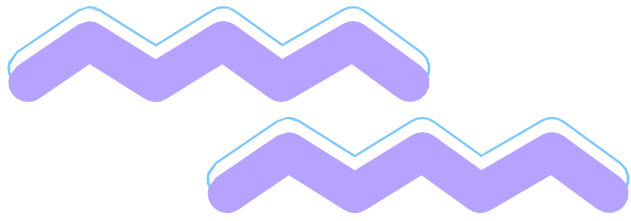


2. GTBIRC Innovation And Research Centre

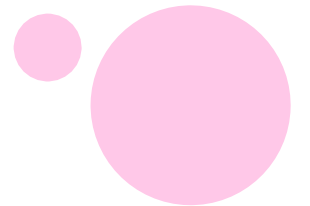
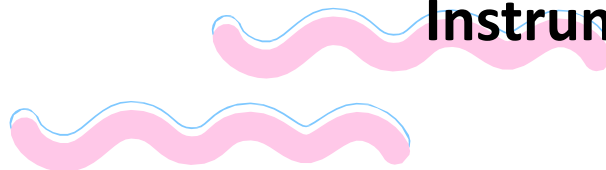
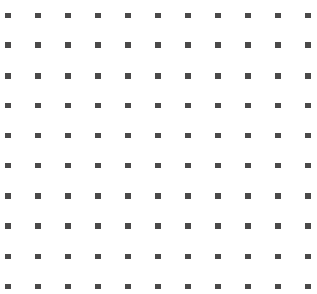
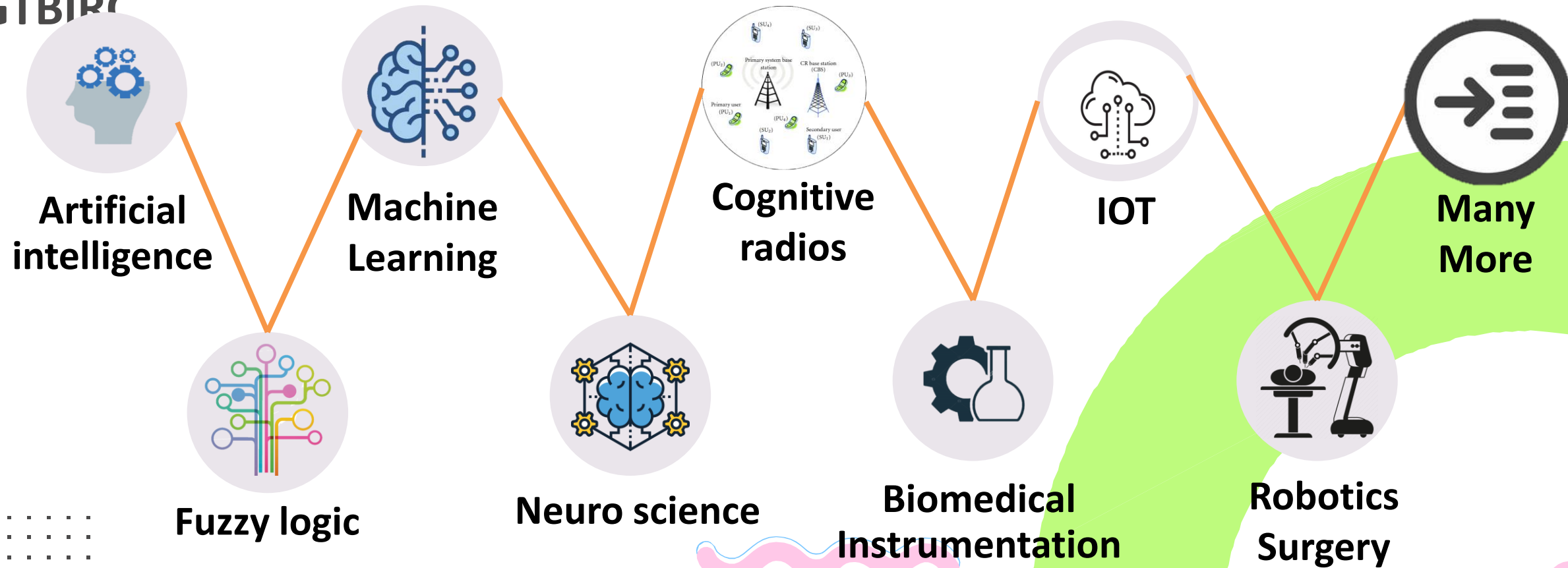
- Welcome to the world of innovation! Get ready to unlock endless possibilities with the GTBIRC.
- Cutting-edge hub, breeding ground for groundbreaking ideas, where creativity and research thrive.
- **Join us on a journey of innovation, as we redefine what's possible in the world of technology.**

- 
- GTBIRC is a multidisciplinary incubation centre for young dynamic minds.
 - Our aim is to build world class research to provide the know-how and expertise in the advancement of 21st century technology with impact on social and economic growth at national and international level.
 - The centre is a dynamic and collaborative unit in the field of engineering and technology.





3. Research areas and focus of GTBIRC



4. Objective

- **Expert-Led Seminars and Discussions:**
 - Organize seminars and discussions with experts in various fields, focusing on ongoing research and progress. Conduct these sessions on a monthly basis to keep students and faculty updated with the latest advancements, fostering a culture of continuous learning and innovation.





Event sponsor: Coding blocks

GURU TEGH BAHADUR
INNOVATION AND RESEARCH CENTRE

PRESENTS

A SEMINAR ON

THE ADVENT OF ARTIFICIAL INTELLIGENCE
AND MACHINE LEARNING

●
DR. MANMEET SINGH
B.E. Thapar Institute , Ph.D IIT Bombay,
Fulbright Scholar
Scientist , Indian Institute of Tropical
Meterology



Tuesday May 24 , 2022
1:00-3:00 pm
AUDITORIUM , BVS
BLOCK, GTBIT

- **Facilitating Industry Exposure:**
 - Arrange visits to renowned institutions like Mother dairy, CSIR-NPL, DMRC and various research centers and industries. These visits provide firsthand exposure, enabling students and faculty to connect theory with real-world applications, fostering a deeper understanding.



   INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

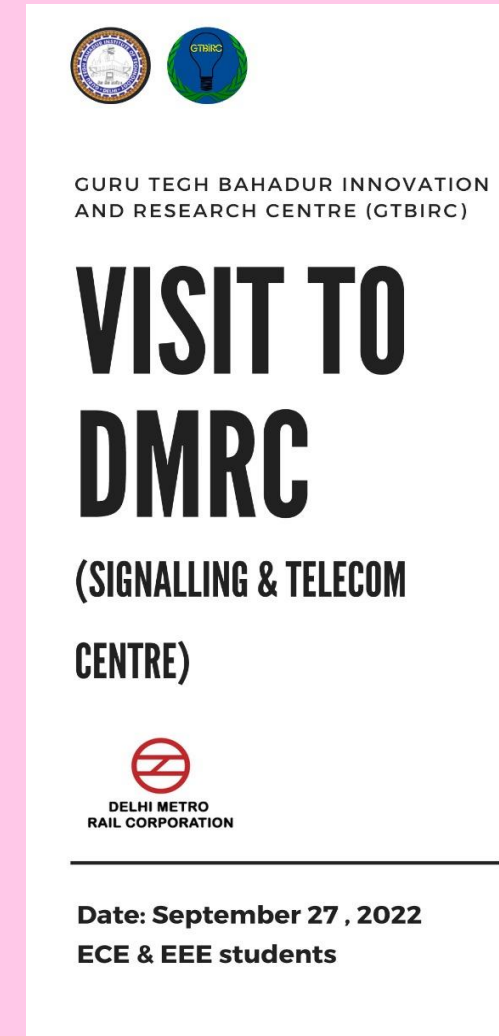
INDUSTRIAL VISIT



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

NATIONAL PHYSICS LABORATORY

 **20th April 2023**

For Research and Development (R&D)
Conclave




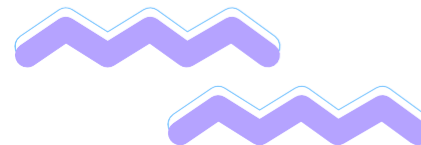
GURU TEGH BAHADUR INNOVATION AND RESEARCH CENTRE (GTBIRC)

VISIT TO DMRC

(SIGNALLING & TELECOM CENTRE)

 DELHI METRO RAIL CORPORATION

Date: September 27 , 2022
ECE & EEE students



● VISIT TO CSIR- NATIONAL PHYSICAL LABORATORY

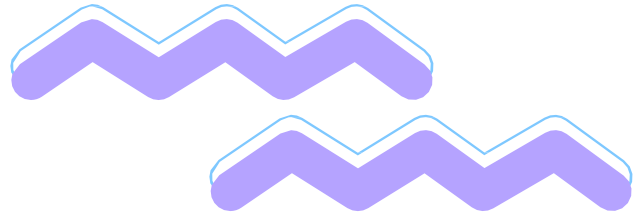
The four-day visit to CSIR National Physical Laboratory provided an immersive learning experience.

- Day 1: Introduction to ongoing research projects.
- Day 2: Insight into startup ideation, exploring innovative solutions to global challenges and their potential societal impact.
- Day 3: Visits to various labs showcasing technology's impact on healthcare, energy, and environmental monitoring.
- Day 4: Reflection on the visit's learnings, deeply appreciating the dedication of scientists and the transformative potential of technology.



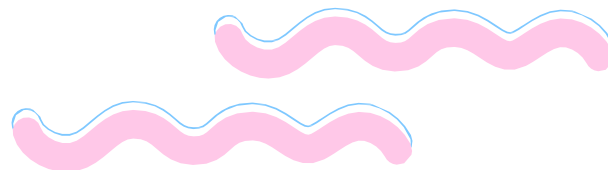


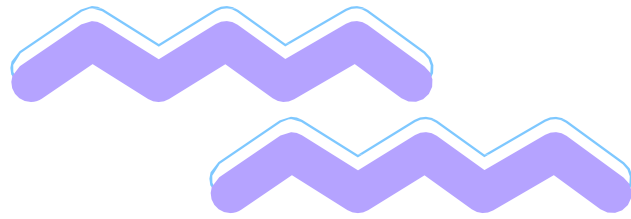
This experience left students inspired and motivated to pursue our own aspirations in the dynamic fields of science and technology, with a newfound understanding of the power of innovation and dedication in shaping the future



- **VISIT TO DMRC**

The visit to the DMRC Signalling and Telecom Center on September 27th 2022, led by 27 students and teachers, provided profound insights into the operational intricacies of the metro system. Exploring concepts like the Master Clock for synchronized timekeeping, hot-swappable OCC centers, and revenue division enriched understanding of DMRC's technological prowess. This educational journey underscored the commitment to fostering excellence beyond the classroom





- **Inspiring Research Excellence:**
 - Cultivate a culture of curiosity, motivating students to engage in high-quality research and publish their findings in esteemed journals and conferences.



GTBIRC & IIC @GTBIT is commemorating

INTELLECTUAL PROPERTY RIGHTS-IPR DAY

Advocate Gurpreet Gulati
Founder of IP-Caravan



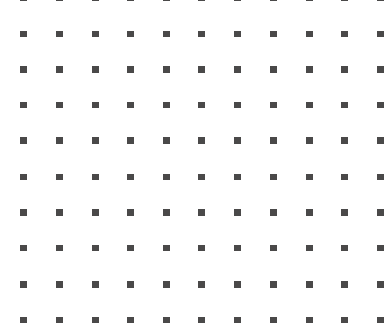
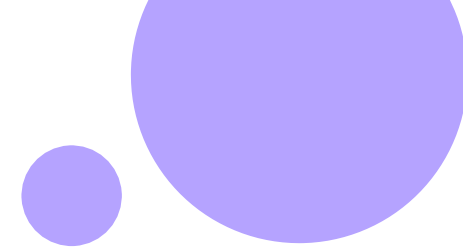
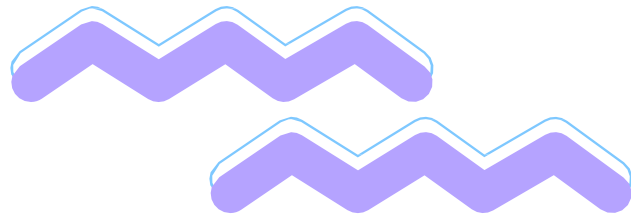
Topic: Overview on Intellectual Property Rights

 26th April'23  Offline  11 am- 12 pm  Auditorium

Faculty Coordinators Dr. Gurmeet Singh | Dr. Amandeep Kaur | Dr. Mahender Singh

IPR Activity Coordinator Dr. Jasleen Kaur

Student Coordinators Sharon Kaur Katiyal | Binal Singh | Yashika Chugh



- **Driving Innovation and Patents:**
 - Foster an environment of innovation by nurturing groundbreaking ideas from students. Actively supporting the transformation of these ideas into tangible prototypes, ultimately leading to the filing of patents.

Department of Information Technology and GTBIRC



Dr Ashish Khanna

Senior IEEE Member
Postdoc (IoT Lab) INATEL Brazil
PhD (CSE) NIT Kurukshetra

HOW TO WRITE AN EFFECTIVE RESEARCH PAPER

Friday, 14th October'22
9:00 AM
AUDITORIUM, BVS BLOCK, GTBIT



GTBIRC WEBINAR

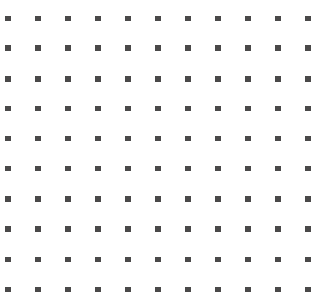
-BY Dr. Amritpal Singh
(NIT Srinagar)

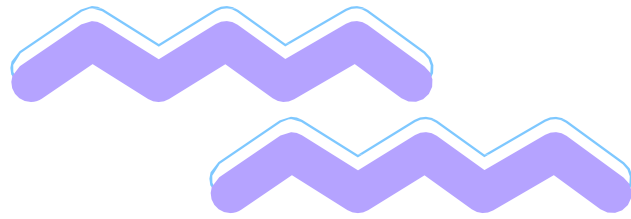
RESEARCH METHODOLOGY

- **Date** : 17th MAY, 2022
- **Time** : 12:30 pm-1:30 pm
- **Venue** : BVS Auditorium,GTBIT



GTBIT Innovation and Research Center





- **Entrepreneurship Development:**

- Mentor and guide students to start their own startups under the Skill India scheme initiated by the Government of India. Provide the necessary support and resources to nurture entrepreneurial spirit and skills among students.

GURU TEGH BAHADUR INSTITUTE OF TECHNOLOGY



NEIL DEWAS BHUTANI

FOUNDER, DAWESCO LLP
BARRISTER [ADVOCATE], GRAY'S
INN LONDON

JOIN OUR WEBINAR ON

CYBER INNOVATION

A NEW AGE OF
ENTREPRENEURS

 3:00 PM

TECHNICAL LECTURE: 3:00 -4:00 P.M.
QUESTION ANSWER: 4:00-4:30 P.M.

 9TH JULY 2022

Link: <http://meet.google.com/zea-ejrz-cwm>

GURU TEGH BAHADUR INNOVATION AND RESEARCH CENTRE

Celebrating Innovation Day On Birth
Anniversary Of Dr. A.P.J. Abdul Kalam



STARTING YOUR OWN STARTUP

NUTS AND BOLTS OF ENTREPRENEURSHIP



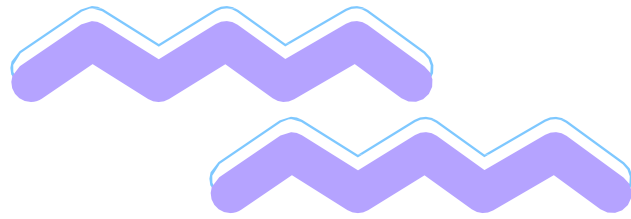
DR. PANKAJ PARASHAR

Serial innovator, Entrepreneur
and Mentor

MBBS, PhD (Biomedical
Engineering, IIT Delhi, pursuing)
Royal Academy of Engineering –
LIF fellow

Saturday, 15th October'22

2:00- 3:00 PM



- **Effective Communication and Outreach:**
 - Release newsletters of GTBIT, keeping the college community informed about the latest developments, achievements, and activities within the institution and the society. Ensure transparent communication and active engagement with the college community.

GURU TEGH BAHADUR INSTITUTE OF TECHNOLOGY (GTBIT)

GURU TEGH BAHADUR INNOVATION AND RESEARCH CENTRE (GTBIRC) NEWSLETTER

Issue No.1 | November'22



An opportunity to scale up technology led innovation

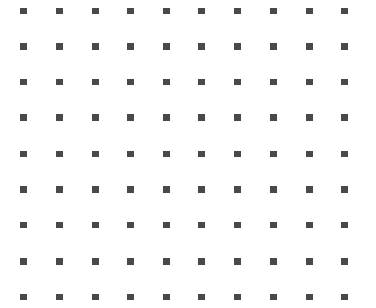
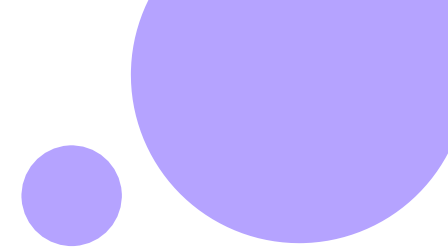
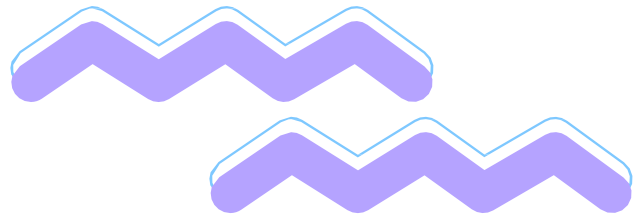
Innovation and research lab is the spinal cord of any engineering college and is essential to ignite the innovative minds to become excellent engineers. A Research centre can enhance the growth of the organization through leaders and subject experts. With this idea of inculcating research culture in students and faculty, GTBIRC has been established in the GTBIT premises.

About GTBIT

Guru Tegh Bahadur Institute of Technology (GTBIT) was established in 1999 by Delhi Sikh Gurdwara Management Committee (DSGMC), which is running a large number of educational institutes.

GTBIT is a degree level technical institute, approved by AICTE and affiliated to Guru Gobind Singh Indraprastha University, Delhi. GTBIT was established by the Government of NCT of Delhi under provisions of Guru Gobind Singh University Act, 1998 read

with its Amendment in 1999. It is affiliating and teaching University, recognised by University Grant Commission, India under section 12B of UGC Act.



5. Achievements of our students

- One of our Students presented a research paper entitled A comparative Analysis of big data analytics in cloud computing (Paper ID-212) during the 12th international Conference on Soft Computing for Problem Solving held at Indian Institute of Technology Roorkee, Roorkee.



12th International Conference on
Soft Computing for Problem Solving
(SocProS 2023)
Moving Towards Society 5.0
11-13th August 2023



Department of Applied Mathematics and Scientific Computing
Indian Institute of Technology Roorkee, Roorkee, India

CERTIFICATE

This is to certify that Prof./ Dr./ Mr./ Ms. Sarthak Gaur presented a paper entitled **A Comparative Analysis of big data analytics in cloud computing (Paper ID-212)** during the 12th International Conference on Soft Computing for Problem Solving (SocProS 2023) held at Indian Institute of Technology Roorkee, Roorkee, India during 11th to 13th August 2023.

Prof. Kusum Deep
Convenor

Prof. Atulya K. Nagar
Convenor

Prof. Millie Pant
Chair and Head of AMSC Dept.



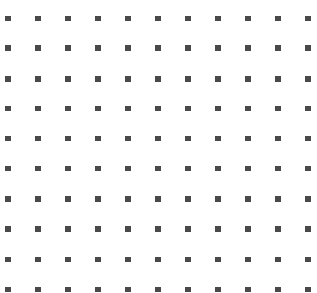
Deloitte.

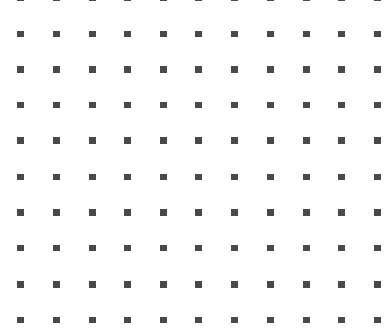
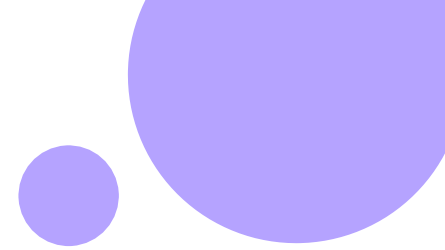
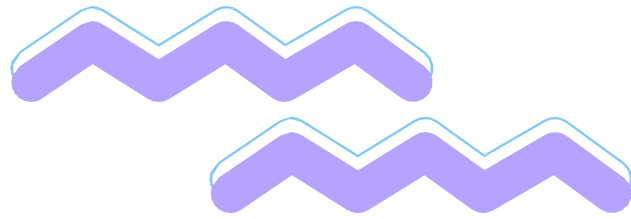


Sponsored by:

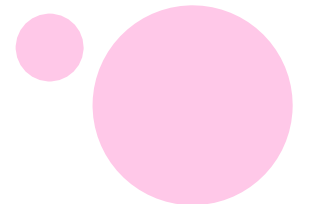
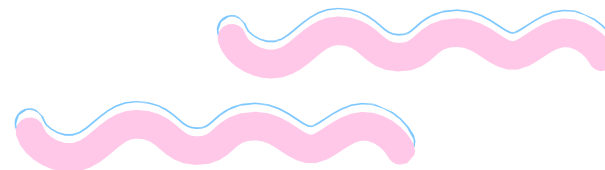
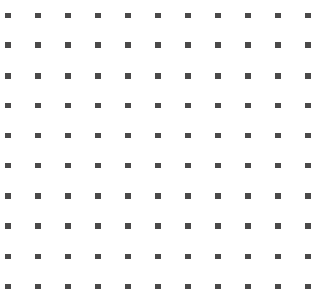


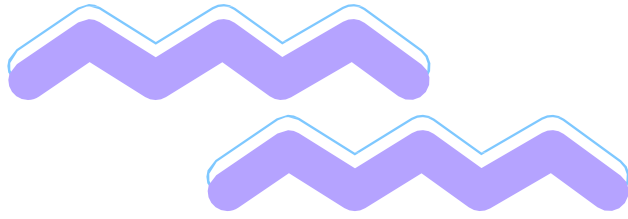
Springer





- Three students Aadika Bhatia, Suraj Kumar Singh, and Bismanpal Singh Anand participated in the semi-finals of the The Investors Challenge





AIC GGSIPU Foundation Delhi
Guru Gobind Singh Indraprastha University
Sector-16C, Dwarka, New Delhi – 110 078
Email: aic.ggsipu@ipu.ac.in Ph: 011-2530 2751

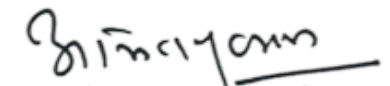
Date: 25th September 2023
No. : GGSIPU\AIC\2023-24_____

- One team was selected for AIC GGSIPU Incubation Programme.
- The team will present the idea and prototype in Talkatora stadium on Oct 5-10 , 2023

Committee has taken the presentation and found following team suitable for pre-incubation category at AIC GGSIPU Foundation Delhi.

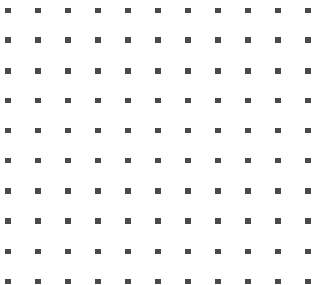
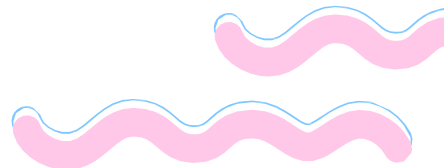
Committee has also assigned mentors to nurture the team. All the team are requested to prepare the prototype and banner for presentation during University Health Mela scheduled to be held during October 5-10, 2023 at Talkatora Stadium, Delhi.

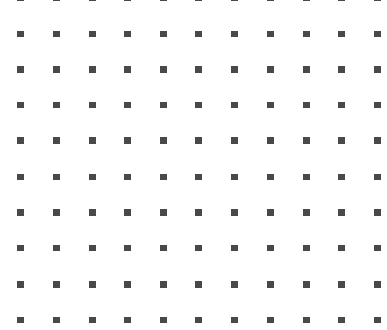
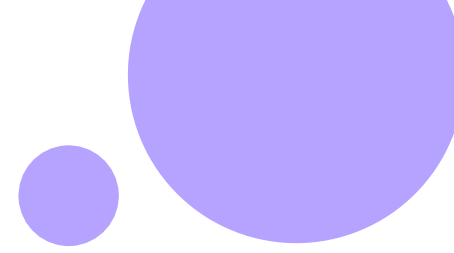
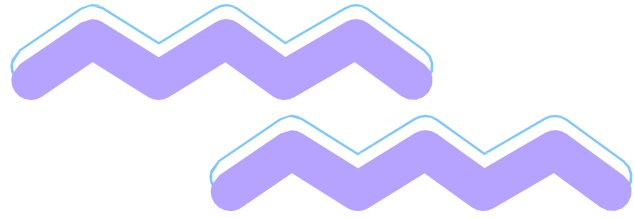
Sr. No.	Name of the Team Lead	USS/College	Mentor	Mobile no.	Email ID
1.	Raman Kumar	USICT	Neha	8700258012	raman.5416403222@ipu.ac.in
2.	Ujjwal Gupta	USICT	Chandni	9871922407	ujjwal.516401521@ipu.ac.in
3.	Ritik Kumar	USICT	Heena	7762855749	srivastavaritik360@gmail.com
4.	Yash Khattar	USICT	Kirti	8448721780	yashkhattar73@gmail.com
5.	Binal Singh	GTBIT	Dr. Gurmeet	9313777788	binal02singh@gmail.com
6.	Aryan Kumar	USICT	Jasmeet	8595689629	kumar.ak.aryan2@gmail.com


(Amit Prakash Singh)
M: 9899166168

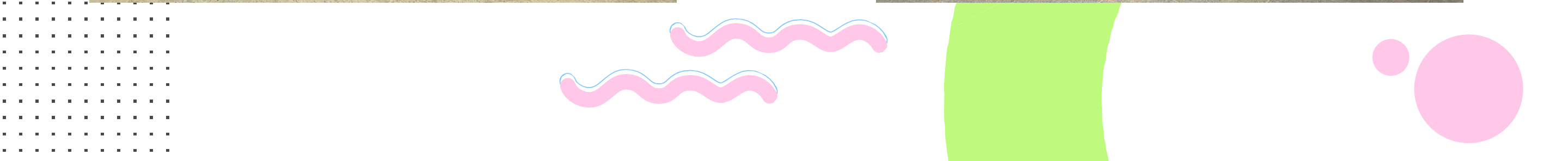
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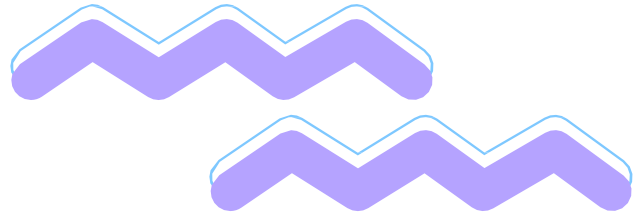
1. Dean, USICT for kind information (dean.usict@ipu.ac.in)
2. Director, GTBIT (gtbitdr@gmail.com)
3. All concerned mentor(s) with a request for guidance to students
4. Office copy



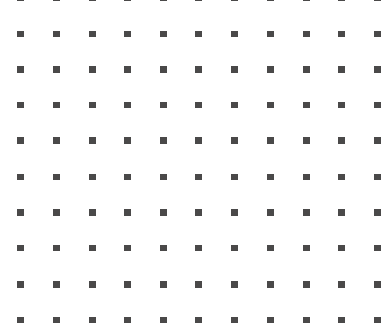
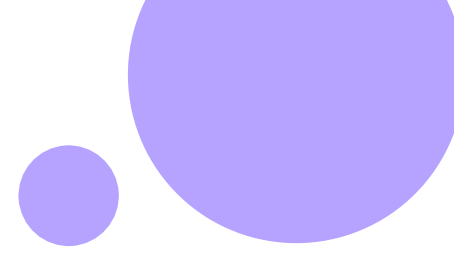


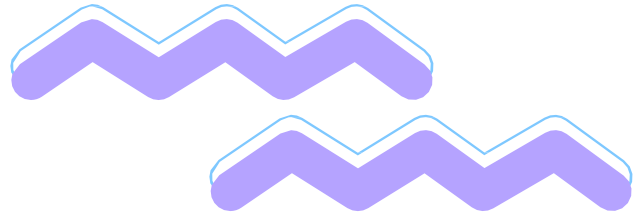
IIC Regional meet in amity university on 23rd nov 2023



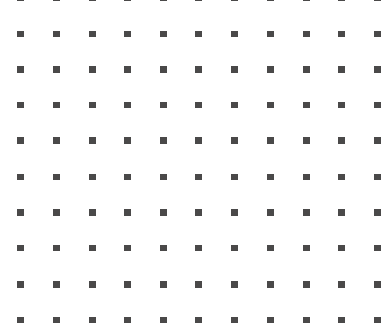
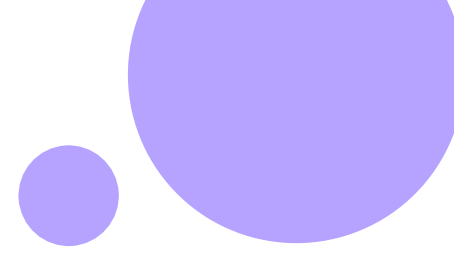


PCB DESIGNING WORKSHOP FOR ECE STUDENTS OF GTBIT AT CDAC NOIDA





PCB DESIGNING WORKSHOP FOR ECE STUDENTS OF GTBIT AT CDAC NOIDA



Dr. Mukesh kumar khandelwal Associate professor delhi university South campus delivered a lecture on” Role of Electromagnetic field (EMF)in our life” on 24th April 2024.



IEEE AP-S
Antennas and Propagation Society

GTBIRC

IEEE RFID

GTBIRC presents

Dr Mukesh Kumar Khandelwal
Associate Professor, Dept of Electronic Science, University of Delhi South Campus
Senior Member of IEEE, Joint-Secretary, IEEE APS & RFID Chapter, Delhi Section

Topic: Role of Electromagnetic Field (EMF) in our Life

24th April'24 **Offline** **10 am**

Faculty Coordinators
Dr. Gurmeet Singh | Dr. Mahender Singh | Dr. Amandeep Kaur



It Is a matter of proud that GTBIT Team has been declared as a winner team in Zeemerquest 2023 AI for social cause event . Team has worked on an innovative idea of stress measurement and management using EEG device. Many congratulation to all GTBIT family.

zimetrics

WINNER'S TEAM CERTIFICATE

This is to certify that Team

**GURU TEGH BAHADUR INSTITUTE OF TECHNOLOGY
- RAJOURI GARDEN, NEW DELHI**

Has been declared as Winner's Team for the Zeemerquest '23 - AI for social cause Event.

Swati Patil

SWATI PATIL
HEAD HR

zimetrics

ZEEMERQUEST' 23 WINNER'S CERTIFICATE

This is to certify that

HIMIKA PRABHAT

has participated in Zeemerquest '23 - AI for social cause & was a part of the Winning Team.

SWATI PATIL
HEAD HR

zimetrics

ZEEMERQUEST' 23 WINNER'S CERTIFICATE

This is to certify that

BINAL SINGH

has participated in Zeemerquest '23 - AI for social cause & was a part of the Winning Team.

SWATI PATIL
HEAD HR

zimetrics

ZEEMERQUEST' 23 WINNER'S CERTIFICATE

This is to certify that

ARSHPREET SINGH

has participated in Zeemerquest '23 - AI for social cause & was a part of the Winning Team.

SWATI PATIL
HEAD HR

zimetrics

ZEEMERQUEST' 23 WINNER'S CERTIFICATE

This is to certify that

DR. GURMEET SINGH

has participated in Zeemerquest '23 - AI for social cause & was a part of the Winning Team.

SWATI PATIL
HEAD HR

zimetrics

ZEEMERQUEST' 23 WINNER'S CERTIFICATE

This is to certify that

SAHIB PREET SINGH

has participated in Zeemerquest '23 - AI for social cause & was a part of the Winning Team.

SWATI PATIL
HEAD HR

6. Conclusion and call to action

- To conclude, the GTBIRC offers a unique platform for individuals and teams to push the boundaries of innovation.
- By actively engaging with the centre, you can unlock countless opportunities for growth, collaboration, and success.
- Don't miss out on the chance to be part of something extraordinary. Take action today and join us on this exciting journey of discovery and transformation by participating in the upcoming events.



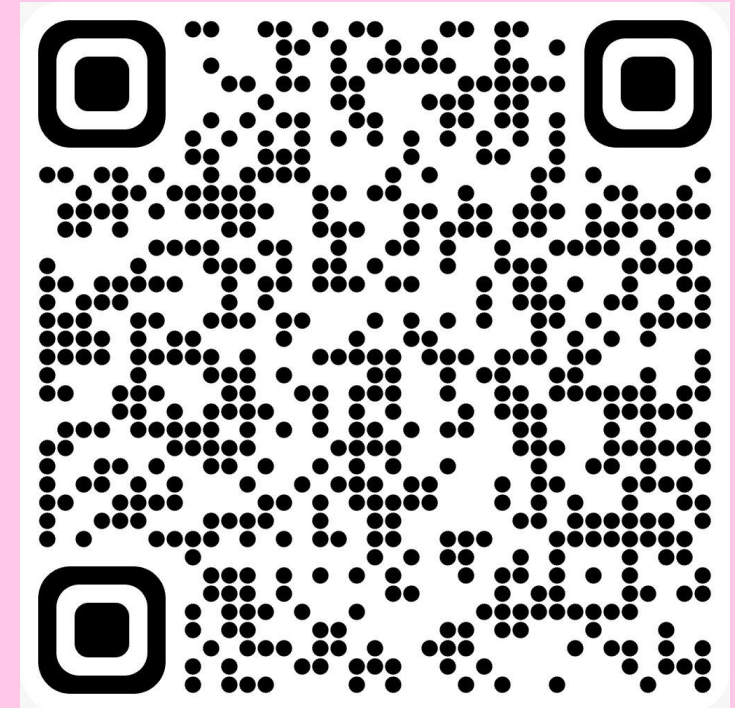
GTBIRC

Upcoming Events in August, 2024

- 1. Workshop at CDAC**
- 2. IIT Research Lab Visit**
- 3. Seminar on Writing Research Paper**
- 4. Lab Visit at CSIR-NPL**

LET'S START JOURNEY OF INNOVATION

SCAN THE QR TO FILL
THE GOOGLE FORM



gtb_irc

