

### **INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR**



2023

HANDBOOK





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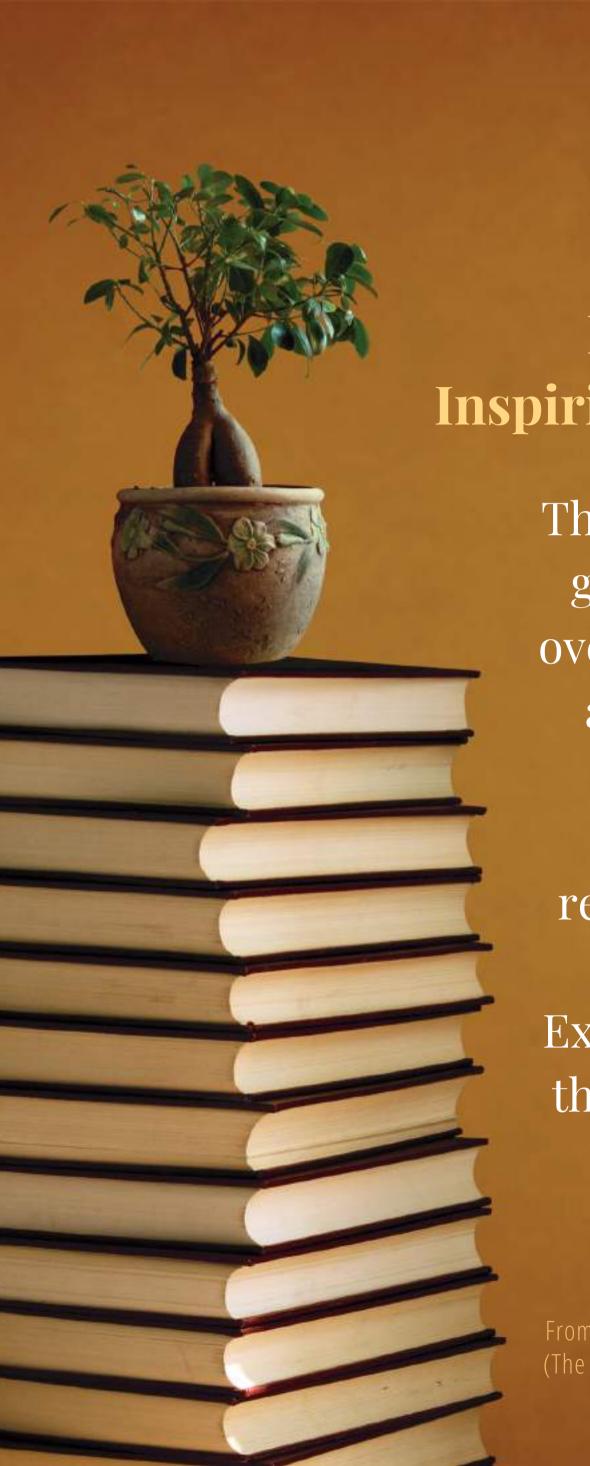
For more information about induction programme scan this QR code

Indian Institute of Technology Kharagpur

Kharagpur-721 302, West Bengal, India



THE ULTIMATE GUIDE FOR YOUR FIRST STEP





The Karma Yogi
gives himself
over to his work
and does so
without
expecting
recognition or
return.
Excellence is all
that matters to
him ...

From the teachings of the Bhagavad Gita (The Celestial Song) Chapter 2, verse 47"



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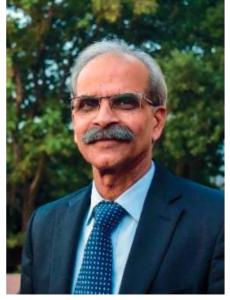
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# MESSAGE FROM THE DIRECTOR

Virendra K Tiwari
Director
IIT Khargpur

Greetings and a warm welcome to my fellow KGPians!

It is such a happy occasion to see all these new faces in the campus. This is the time of the year I look forward to, for welcoming the new aspirants, the Future Leaders as I would like to address you all. Welcoming the brilliant minds of the nation to the first and the oldest IIT of this country, fills me up with great pride and honour that you have chosen IIT Kharagpur as the Custodian of your Dreams. I am happy that all of your endeavours for clearing the most difficult entrance examination of the country have finally paid off and today you became a part of this premier Indian Institute of Technology and a part of IIT KGP family as well. In years to come, you will experience the unique and diverse culture of the mother of all IITs.

Being in IIT Kharagpur for more than 4 decades, I can assure you that these 4-5 years of your life in this campus will be an unforgettable journey as here you will create your own timeline of lifelong connections with your friends, seniors, teachers and enjoy a holistic development of your personal and professional skills. The curriculum of IIT KGP will guide you to pursue your interest and evoke a passion for creating something new every day. The student groups, your seniors, faculty members and staffs will guide you throughout your academic pursuits. Do not hesitate to approach anyone with genuine issues and keep compassion towards people who try to help you.

Technology is the tempo of this Institute which can lead you to greater accomplishments. I hope your academic excellence brings in a new creative dimension to the novelty of this Institution of Eminence. Apart from academics, I want you to develop yourself in an integrated way through personality development which will help you to engage in other socio-cultural and co-curricular activities like debates, sports, dramatics etc.

I would also like to thank all the parents for their efforts towards making their child an IITian. Their hardships towards shaping up your future is unparallel and praiseworthy. Always remember success is not final and failure is not fatal, it is the courage to continue that counts. Be grounded, show humility and always try to improve yourself in all situations. Together, we all will continue our endeavours to make this institute your happy and safe place.

Once a KGPian - Always a KGPian!

Welcome to IIT Kharagpur I 02

# MESSAGE FROM THE DEPUTY DIRECTOR

#### Dear student

Congratulations on being selected for admission at the prestigious Indian Institute of Technology Kharagpur, the first IIT in the country! Our Institute is not only the pioneering organization to bring modern technological education to the country, but all other IITs and many other Institutes have been inspired and mentored by it. It has brought management and intellectual property law under its fold and is on the verge of introducing medical education as well. IIT Kharagpur was established in 1951 in the infamous Hijli Jail, which is now known as the Old-Building. We have come a long way from there, and are soon going to reach our Platinum Jubilee in 2026. All of you are going to be the lucky ones who will get the chance to witness and enjoy all the celebrations. Remember that the landmark has been achieved due to the hard work of all the former faculty, staff and students of the Institute, and you are expected to contribute in your own way during your stay. We are currently going through some challenges, particularly related to accommodation and other related logistics. We hope to see better days soon with the completion of two more hostels, one for girls and one for boys, each having a capacity of 500. These were delayed mainly by Covid-19, but these new hostels are expected to be ready within the next six months and then we would be able to move some of you from the current temporary locations. We may also do some reallocations in December and again in June to ensure that each of you get a chance to develop, both academically and extra-academically to a well-rounded individual, to take the country forward to reach its goal of becoming technologically self-reliant. Wish you all the best!



Amit Patra
Deputy Director,
IIT Kharagpur

#### Deans and Associate Deans



Maddali Ramgopal

Dean, Faculty of Engineering

and Architecture (FoE&A)

Coordinating Dean



Sujit Kumar Dash
Associate Dean, Faculty of Engineering
and Architecture (FoE&A)



Saibal Gupta
Associate Dean, Faculty of Sciences (FoS)



Pranab Kumar Dutta
Associate Dean, Faculty of Engineering and Architecture (FoE&A)



Krishna Kumar

Dean, Faculty of Sciences (FoS)

Coordinating Dean



Saswat Chakrabarti

Dean, Faculty of Bio-Technology
and Bio-Sciences (BTBS)

Coordinating Dean



Shiv Brat Singh
Associate Dean, Faculty of Bio-Technology
and Bio-Sciences (BTBS)



Santanu Chattopadhyay
Associate Dean, Student Affairs



Koel Chaudhury
Associate Dean, Student Affairs



Bhargab Maitra

Dean, Student Affairs



Rabibrata Mukherjee
Associate Dean, Student Affairs



**Debjani Chakraborty**Dean, Outreach and Alumni Affairs



Debashish Chakravarty

Associate Dean, Alumni Affairs,
Associate Dean, International Relations/Branding



Alok Kanti Deb
Associate Dean, Infrastructure (Electrical)



Santanu Dhara
Associate Dean, Research & Development



Arghya Deb
Dean, Infrastructure



Chandan Chakraborty
Dean, Research and Development (R&D)



**Debalay Chakrabarti**Associate Dean, Research & Development



Kamal Lochan Panigrahi
Dean, Human Resources

# MESSAGE FROM THE PRESIDENT, TSG



Ajay Kumar Singh

President
Technology Students' Gymkhana
Indian Institute of Technology
Kharagpur

Dear freshers,

Let me take this opportunity to congratulate you for qualifying JEE advanced exam. I also thank you for choosing IIT Kharagpur for your career advancement. On behalf of the Technology Students' Gymkhana, I welcome you to the campus.

As you know that the Technology Students' Gymkhana (TSG) is a hub of extra-curricular activities, which are classified broadly into four categories, sports, cultural activities, technology development, and students welfare. The building blocks of TSG are its societies and clubs, and I strongly suggest you join them as per your interest and liking. I believe that academics and extra-curricular activities can go together in making a complete KGPian, and you should try to utilize all the opportunities available on the campus to their fullest.

I thank the Students' Welfare for releasing the handbook for the incoming batch. It contains all the information relevant to Academics, Halls, TSG, and campus. I hope this booklet will help you by providing the necessary information about the campus. I wish you all the best for a successful career ahead.

# MESSAGE FROM THE VICE PRESIDENT, TSG

On behalf of the entire IIT Kharagpur community, I extend a warm and enthusiastic welcome to each one of you.

You are about to embark on a journey that will challenge you, inspire you, and shape you into leaders of tomorrow. As you settle into your new home away from home, know that you have a support system of faculty, staff, and fellow students who are here to guide and encourage you at every step. Embrace the challenges, embrace the opportunities, and make the most of your time here.

While you excel in your academic pursuits, remember to immerse yourself in the array of cocurricular and extracurricular activities that our campus has to offer. Whether it's cultural events, sports, entrepreneurship, or community service, there is something for everyone to explore and contribute to.

IIT Kharagpur is not just an institute; it is a way of life. It's a place where your aspirations find wings, and your potential knows no bounds. So, seize this moment, embrace the possibilities, and let your journey at IIT Kharagpur be nothing short of extraordinary.

Best wishes for an unforgettable and fulfilling journey ahead! KGP ka tempo high hai!



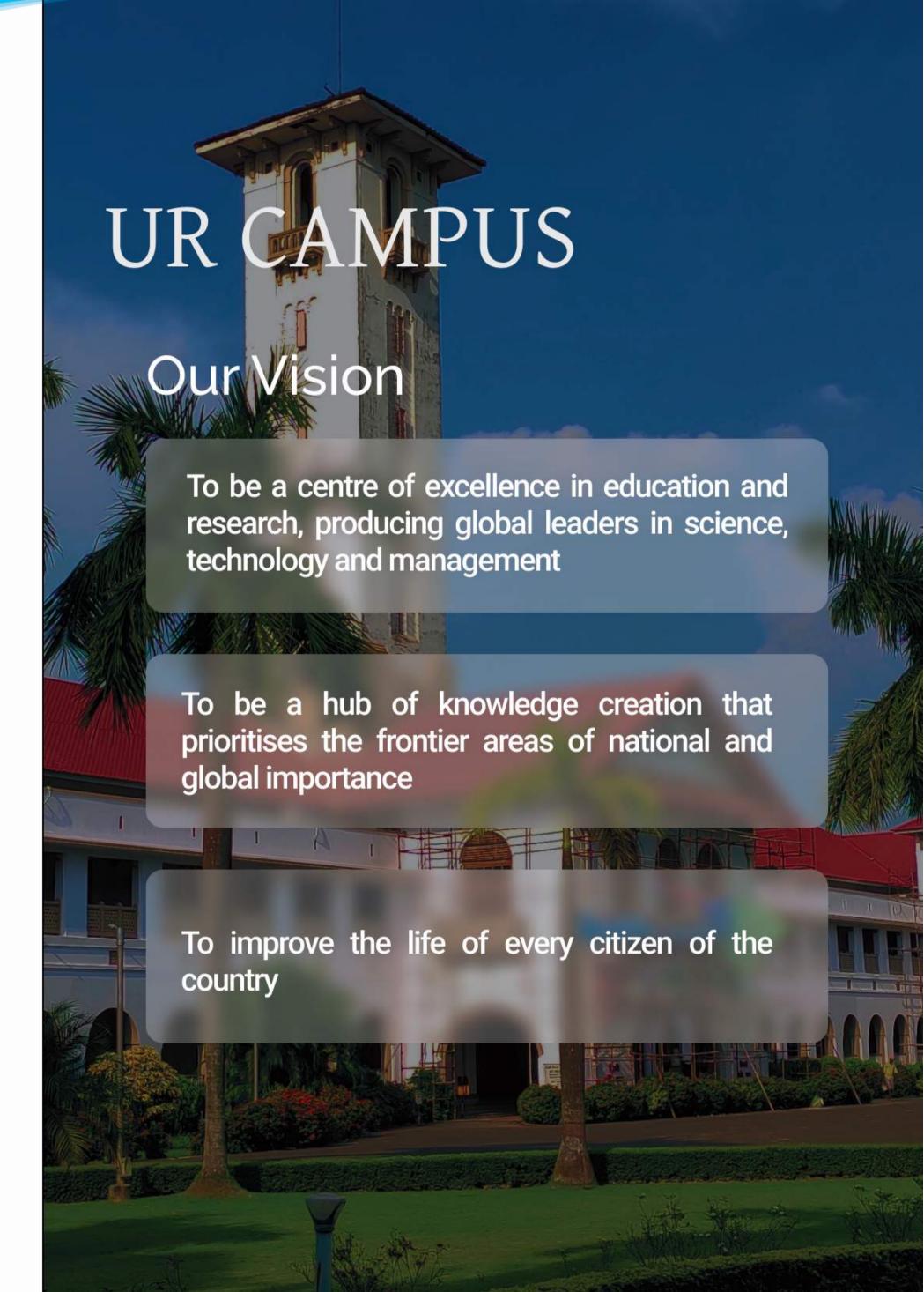
Samarth Singh

Vice President Technology Students' Gymkhana Indian Institute of Technology Kharagpur

# KNOW YO

## About IIT Kharagpur

The motto of IIT Kharagpur is "Yogah Karmasu Kaushalam". This literally means "yoga is excellence in action", essentially implying that doing your work well is (true) yoga. This can be traced to Sri Krishna's discourse with Arjuna in the Bhagavad Gita. The quote, in the larger context of the Gita, urges man to acquire equanimity because a mind of equanimity allows a man to shed distracting thoughts of the effects of his deeds and concentrate on the task before him. Equanimity is the source of perfection in Karmic endeavours that leads to Salvation.



# HISTORY

The history of the IIT system dates back to 1946 when a committee was set up by Hon'ble Sir Jogendra Singh, Member of the Viceroy's Executive Council, Department of Education, Health and Agriculture to consider the setting up of Higher Technical Institutions for post war industrial development in India. In its report, the 22-member committee headed by Sri N.R.Sarkar recommended the establishment of four Higher Technical Institutions in the Eastern, Western, Northern and Southern regions, possibly on the lines of the Massachusetts Institute of Technology, USA, with a number of secondary institutions affiliated to it.

With the above recommendations of the Sarkar committee in view,

The first Indian Institute of Technology was born in May 1950 in the eastern part of India. Initially the IIT started functioning from 5, Esplanade East, Calcutta and very soon shifted to Hijli, Kharagpur, in Sept. 1950. The present name 'Indian Institute of Technology' was adopted before the formal inauguration of the Institute on August 18, 1951, by Maulana Abul Kalam Azad. IIT Kharagpur started its journey in the old Hijli Detention Camp where some of our great freedom fighters toiled and sacrificed their lives for the independence of our country. The history of IIT Kharagpur is thus intimately linked with the history of the Hijli Detention Camp. It is one of the very few Institutions all over the world which started life in a prison house.





# INCLUSIVITY

# 15000+ STUDENTS of IITKGP come from all ACROSS 29 STATES

of the country and beyond the national boundaries from JAPAN, UK, EU, USA, NEPAL, BHUTAN ETC.

## The campus is barrier-free with ramps,

elevators and other facilities to enable students with special needs to move around the campus with ease.





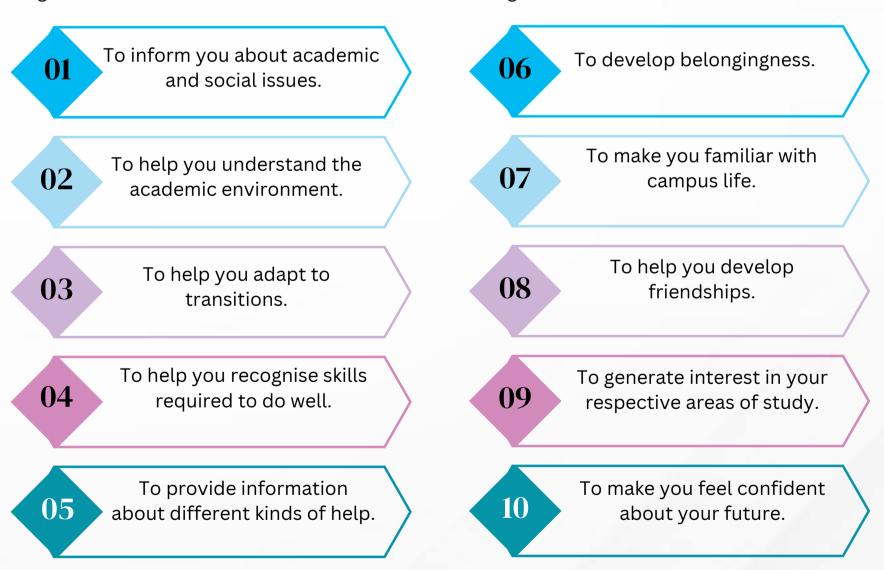
Dear Students,

Warm greetings from the Induction Program team at IIT Kharagpur! In this section, we would like to take you through the necessity and benefits of the Induction Program designed for you.

## Why Induction Program?

After going through the phase of school and JEE, coming to IIT Kharagpur and staying on campus is a significant shift in the students' lives. Being new to the campus, knowing about life at IIT Kharagpur, the resources you have, and the support you can avail as a student here will be of good help. And the Induction program is here for that purpose.

During this period, social activities, short seminars, sports challenges, etc., are organised for the students to fulfil the following needs.



During the Induction program, we will take you through activities beyond the as indicated:



**Know Your Department**: Guidance sessions with professors and seniors to make you aware of the study and opportunities your department offers.

**Physical activities**: Expose you to diverse sports and games at the Institute.

Introduction to **community life** by seniors.

Creative and cultural events.

**Guest Talks** by eminent people on various aspects.

**Life skill activities** help you know more about yourself and others and to develop skills to deal with a few crucial aspects of life.

During the Induction program, you will form small groups to do various activities. Please check the website (link: http://inductionprogram.iitkgp.ac.in/) periodically to find out details of schedules and other relevant downloads and information available.

We believe the Induction Program will be one of the most exciting weeks of your life, and you will surely love it.

Induction Team, IIT Kharagpur.

# LIFE SKILLS CLASSES AND ACTIVITIES

Developing life skills is an important facet of any academic program anywhere. Institutes of higher learning like IITs, where academic programs follow a distinct career path, are no exception. Though there are differences amongst these institutes in the way such knowledge is imparted, the general aim remains the same. The guiding philosophy is to make you aware of the challenges you are going to face during the course of study like stay within the campus, relationship with peers, handling conflicts within, managing stress and frustration, etc.



The overall aim is to help you meet these challenges effectively within the normative standard, rules, and regulations of the campus. Many of you often believe that these skills are learnt in an automatic and autonomous manner in your lives, and need not be acquired in a formal, structured manner. In the process, you lose time and energy to achieve your target which, at times, results in frustration. The present modules are formatted in the direction so as to make you aware of possible challenges you may face, and help you develop insight about how to handle such challenges with confidence.

With this backdrop, altogether ten modules have been developed with examples and activity plan. These include:



**Peer pressure:** This module is aimed towards helping you realize the pressure of expectations from friends and classmates. The more often you go by comparative standard rather than self-standard, the more it is detrimental to your performance, causing excessive achievement anxiety.



**Competition & cooperation:** Because of peer pressure, you often try to compete with others without rationale and beyond your capability. This leads to the distortion of relationships with peers. Understanding the essence of healthy competition often helps you in building a team based on mutual cooperation.



**Relationship:** This module focuses on fostering social bonding, an integral part of life, to help you build meaningful connections and relationships with peers, teachers and other members within the campus.



**Anger & frustration:** The discrepancy between achievement and expectation often leads to stress and frustration. If the frustration does not find a normal outlet, it may go outward (aggression or anger) or may move inward (depression). In this module, you will learn what causes anger and how to handle anger with emotional intelligence.



**Uncertainty adjustment:** Many of you struggle to handle uncertain environments or ambiguous situations, leading you to seek quick solutions to such uncertainties. You search for alternative ways to resolve uncertainty but often end up choosing riskier options to tackle the problem. In this module, you will learn strategies to better cope with uncertain situations, such as examinations or placements, and the benefits you can gain from the process.

**Failure management:** Many of you fail to recognize that not every war can be won. Failure is an integral part of our lives and this experience helps us to develop resilience. The module will let you learn how to 'bounce back' in case of failure.

**Knowing others:** It is a prerequisite to survive effectively within a social infrastructure. You mostly engage in the digital world, where there is little face-to-face interaction. In this module, you will learn why knowing each other in person is important to build relationships, learn from each other who come from diverse backgrounds, and the essence of growing together.

**Knowing yourself:** In the following module, you will learn about yourself. This is important since learning about others is easy, but difficult to learn about 'who we are'. The effort will be to help you question yourself and, in the process, gain insight within your real self.

**Conflicts & decision making:** In this module, you will develop awareness about conflicts which are incompatible in nature and coexist within. Such conflicts result in difficulty in decision-making. You will learn the essence of 'best', 'good', and 'right' decisions in life, in general, and in your career, in particular.

**Stress management:** Here, you will also learn how to manage your day-today stress effectively. If such stress is not resolved, it will accumulate and create barriers in your day-to-day performance. The ways and means to handle stress will be the pivotal theme in this module.

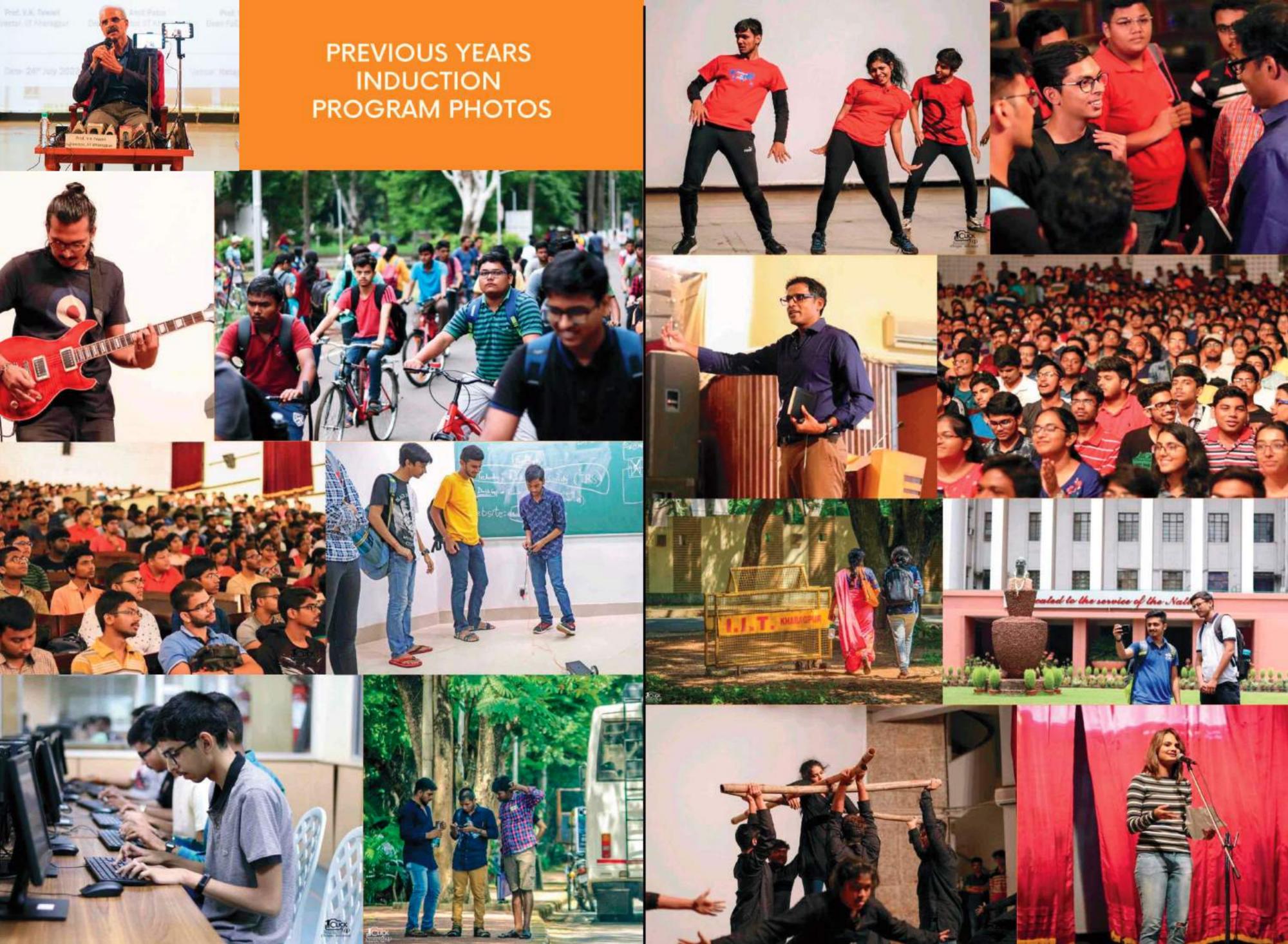
While this program aims to help you realize your potential by assisting you in overcoming the difficulties you may face during the course of study and staying within the campus, it is not comprehensive. The modules are theoretical in nature and customized to the requirement of incumbent students at IIT Kharagpur. The suggestions and possible interventions, as mentioned, are generic in nature, and these are not quick-fix solutions to every problem you may face. The larger aim here is to help you (a) develop awareness about the campus life, (b) gain insight into your own behavior, and (c) become capable of facing the challenges in your unique way.

Induction 'Life Skills' Team IIT Kharagpur









#### **ON CAMPUS AMENITIES**

Sports and Games: Aquatic pools, Indoor Badminton hall, Table Tennis room, Tennis, Volleyball, Basketball, Squash courts, Tata Steel Sports Complex for Football and Cricket, Jnan Ghosh Stadium for Athletics, Mahatma Gandhi Stadium for Hockey, Gymnasium, and others.

Social/Entertainment: Auditorium/Club/Community Centre, Tagore Open Air Theater (TOAT);

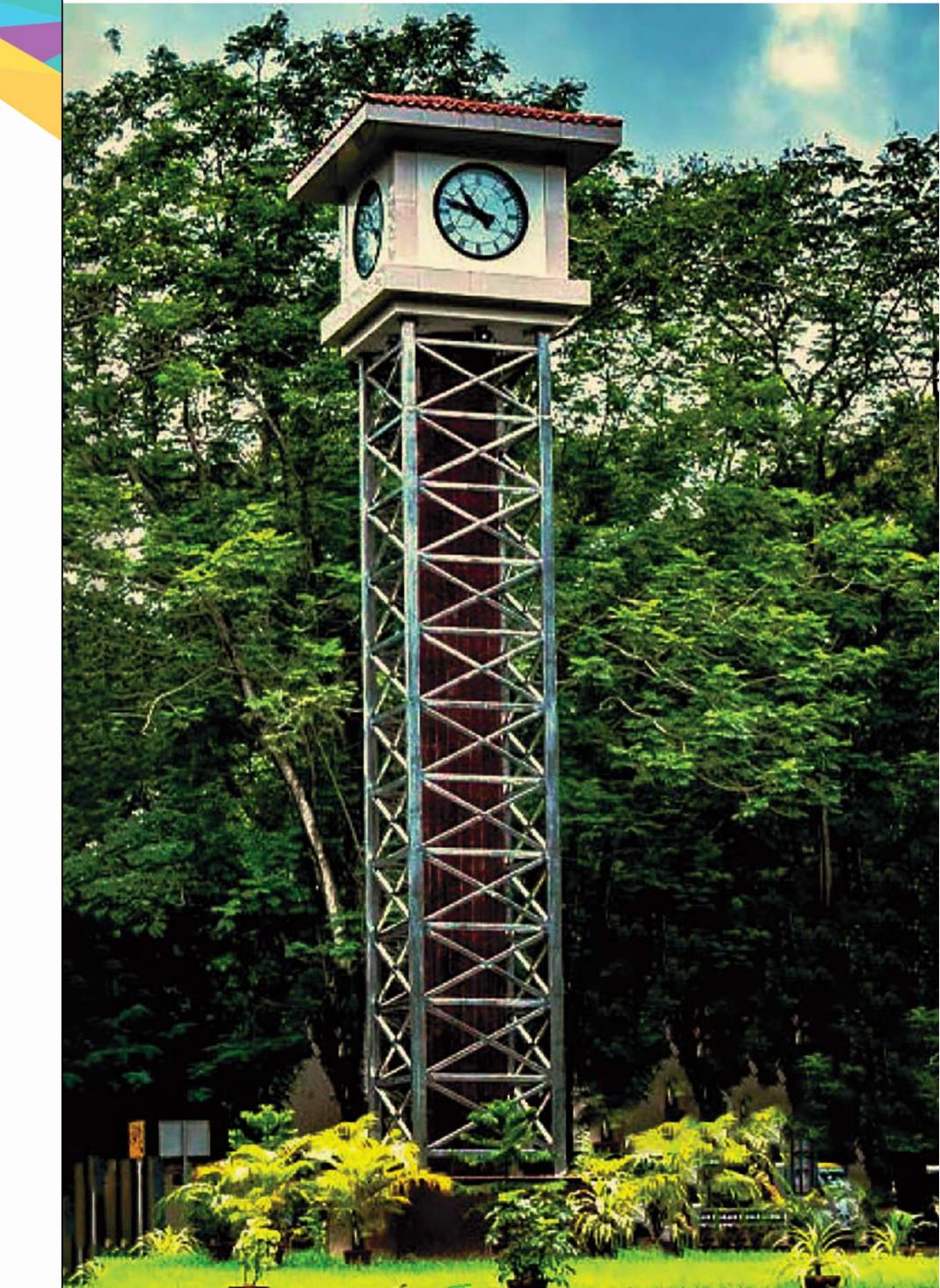
Eateries: Café Coffee Day, Subway, Baskin Robbins, Canteens, Restaurants and other on-campus eateries. Food delivery Rervices through Zomato and Swiggy run on campus.

Commercial: Market/Banks/PO/Courier and Travel agencies, And the Indian Railways ticket counter, which is located on the Way to Tagore Open Air Theatre from the Bidhan Chowk Security Post.

#### Tech. Market:

The centrally located Technology Market (or 'Tech M' in KGP Lingo) serves you all your basic necessities to purchase.

Infrastructure: Wi-Fi enabled Campus, 24 hr Power/Water/ Network, Well maintained classroom complexes, Roads, Bicycle Lanes, footpaths, Parks, and spaces for different Activities.







IIT Kharagpur has an extensive network of Wi-Fi routers throughout the campus and halls of residence. The students can login to the wifi service by using their institute roll number as the user name, the password being the unique password they set through ERP. There are multiple Wi-Fi networks like Campus, Student, Guest, etc., and you can access any of those.

The LAN network has DHCP Support, so IPs are dynamically allocated to a connected device upon connection. No static configuration is required. After successful proxy configuration, the student can access the Internet.

Proxy address for internet access 172.16.2.30; port - 8080 No Proxy for 10.0.0.0/8, iitkgp.ernet.in and iitkgp.ac.in Helpdesk: helpdesk@cc.iitkgp.ernet

For information on various computing and networking services at IIT Kharagpur, visit: www.cic.iitkgp.ac.in

#### INTERNET ACCESS

Any user should be able to see one or more of these wherever you may be in the campus. Users are requested to start connecting to the secured SSIDs following the procedure below to access the Wi-Fi network.

- 1 Your user id is your ERP login.
- 2 .To create your network access password, log in to your ERP account, and follow the link "Set Campus Network Password" under the link for "Home". Set a password you will use for network access (should be different from your ERP password). You can change the password anytime again in the same manner.
- 3 .Configure your device for wi-Fi authentication. Step by step instructions for different OS (Android/Windows/Linux/Mac) can be found in the "Wi-Fi Authentication" link in http://www.cic.iitkgp.ac.in. Normally, you will have to do this configuration only once per secured SSID unless you change your password or want to login with some other user id.
- 4. Connect to the corresponding SSID.

# Eateries





Numerous in-house eateries serve the demands of residents. Some eateries are open overnight, while some serve hot food from early morning itself to best cater to the people's convenience. Within campus are restaurants like















Tikka, which is to the south of Alumni Clock Tower, also offers a wide variety from early evening to late night. We got Chhedis, just on the border of Puri gate, a Dhaba that has never closed down in the history of KGP except for once during 1983. The list of oncampus restaurants goes on with Heritage, Veggies and Smart Pind, Banana Leaf, Mio Amore near TSG, PFC near the PAN loop hall, Sahara, Dreamland, Food City, Nescafe, MFS, Subway, Momo Mania, Peeps Kitchen, Amul and many more.

Each Hall of Residence has its Canteen apart from the mess. The JCB, HJB and VS Men's Hall Canteens allow anyone on campus to sit and enjoy the food. One can always visit Dominos, Flavours and Park Restaurants outside the campus (approx. 5 km).

### Technology Students' Gymkhana

Students' Activity Center, better known as the Technology Students' Gymkhana, here at IIT Kharagpur is the hub of numerous extra-curricular and co-curricular activities. Since its inception in 1952, the Gymkhana has had a key role in the everyday lives of KGPians by cultivating and nurturing their extra-curricular talents and also extending support for academics.

The Technology Students' Gymkhana, IIT Kharagpur, is managed by the students, for the students, under the guidance and active participation of the faculty and staff members. It aims for the holistic development of students.

Technology Students' Gymkhana has four committees:

- 1. Sports and Games
- 2. Social and Cultural
- 3. Technology
- 4. Students' Welfare

General Secretaries and Secretaries for all four committees are elected, along with the Vice President, by the students through annual campus elections. Each one in this student council takes care of particular events organised by Gymkhana for KGPians.

Gymkhana has an Aquatic Center, Basketball Courts, Tennis Courts, Volleyball Courts, Indoor Squash Court, Indoor Badminton Courts, and a very well equipped Gymnasium. Moreover the Gymkhana hosts a wide variety of societies to promote the various hobbies and interests of the students. The societies include the Dramatics Societies namely, Technology Dramatics Society- Pravah (Hindi), Encore (English), Prasthanam (Telugu), Druheen (Bengali), Technology Robotix Society, Technology Filmmaking and Photography Society, Business Club, Debating Society, the Music Societies namely, Eastern Technology Music Society and Western Technology Music Society, Communique (soft skills), the Quiz Club, Spectra (fine arts), Technology Adventure Society, Technology Dance Society and Technology Literary Society. All the societies are doing an extraordinary task in promoting their culture and nurturing the extra academics interest of the students.





#### General Secretary Sports and Games



Soujanya Nayak



SSVKSS Jyothiraditya

#### General Secretary Social and Cultural



Sachin Kumar Repswal



Varsha Kotagiri

#### General Secretary Technology



Digvijay Singh



Vinayak Agarwal

#### General Secretary Students' Welfare



Jakkinapalli Satya Ravi Sujit



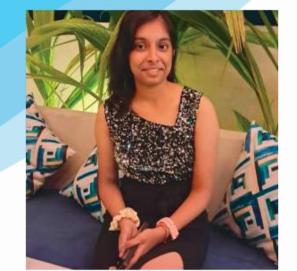
Sapharu Veena Nikhita



## Technology Students' Gymkhana

Nominated Council

**Editors** 



Anushka Aashvi



Vanshul Shikkewal

Tech Coordinators



Parth Gupta

Arpit Bhardwaj

Public Relations Chairperson



Irsh Vijayvargia

Institute Girl Sports' Nominee



Shreya Mishra

#### **INTER IIT EVENTS**

#### **Inter IIT Sports Meet**

In the 55th INTER IIT Sports Meet held at IIT Delhi and Roorkee, IIT Kharagpur demonstrated its outstanding sportsmanship by securing the 2nd prize. IIT Kharagpur's team exhibited exceptional skills and determination throughout the games battling fierce competition. Their impressive performance in the sports meet showcased their commitment to excellence and further solidified IIT Kharagpur's reputation as a formidable contender in the realm of sports and athletics.



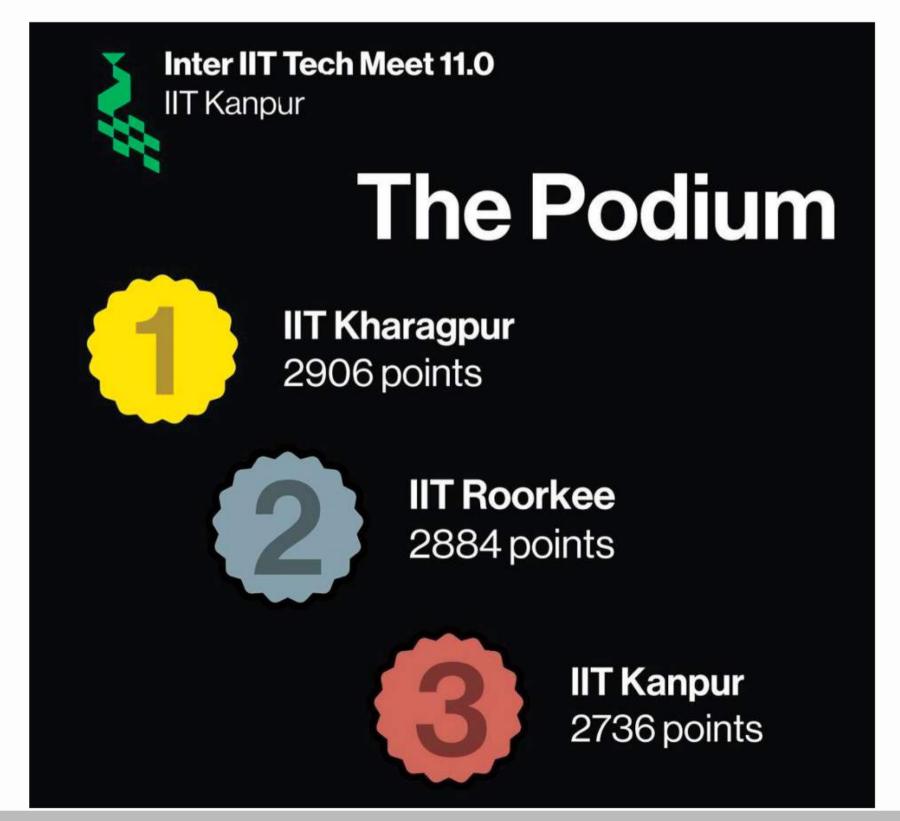
#### **Inter IIT Cultural Meet**

IIT Kharagpur proved its creative brilliance by winning the INTER IIT Social and Cultural 5.0 Cup held at IIT Madras. The event witnessed fierce competition among participating institutions, but IIT Kharagpur's team stood out, securing a resounding victory in the cumulative tally. Their exceptional performances in various social and cultural events reaffirmed their position as a pioneer in the creative arts.



#### Inter IIT Tech Meet

IIT Kharagpur has bought home the coveted INTER IIT TECH 11.0 Cup. This year, the event was hosted by IIT Kanpur and took place from the 10th to the 12th of February, 2023. IIT Kharagpur has always been a leader in technology and a trendsetter in innovation. Our team outdid themselves, emerging victorious in the cumulative tally over all their rivals.



35 Inter IIT Events Inter IIT Events 36

# Sports

Round the year, there is always a buzz of sporting events happening on campus. The sporting culture of IIT Kharagpur gives the students opportunities to explore their passion for different sports activities.

Along with the tournaments that take place on campus with great spirit every year under Open IIT and General Championship (GC), there are other activities that are conducted to improve the sporting enthusiasm in the student community.

Summer camp for all the sports was conducted this summer to support the students to improve in the sport they like. Recently, new initiatives such as a Hockey workshop for girls, the First Gymkhana Table Tennis tournament, Sports Quizzes, the PAN IIT cycling event, Yoga sessions for women, streaming of India vs Pakistan match of Asia Cup 2022 in TOAT, and more, were introduced for greater involvement in the realm of sports and games.

Also, rigorous daily training for the Inter IIT Sports meet takes place on campus, with professional coaches training the students.





After a long-awaited hiatus of 11 years, Shaurya, the prestigious annual sports festival of IIT Kharagpur, is making its highly anticipated return in 2023. Drawing participants from colleges across India, this edition of Shaurya is set to reclaim its position as one of the country's largest inter-collegiate sports fests. Offering an impressive array of Sports and Games, the fest will foster inclusivity and diversity by providing equal opportunities for everyone to partake in events. Shaurya's primary objective is to cultivate a culture of sports and fitness, inspiring students to embrace a healthy lifestyle and develop vital teamwork and leadership skills through friendly competition. The fest will be further enriched by Guest Lectures and motivational sessions led by esteemed sportspersons, igniting participants passion for excellence. Entirely organized by the students of IIT Kharagpur, with support from faculty and staff, Shaurya will stand as a testament to their dedication in managing event logistics, sponsorships, and marketing. With a legacy of four successful editions in the past, Shaurya holds significant importance in the IIT Kharagpur calendar, offering a platform for personal growth, forging lasting connections, and celebrating the spirit of sportsmanship. As the countdown begins for the grand revival in 2023, students' anticipation and excitement soar, making this long-awaited Shaurya an event to remember.

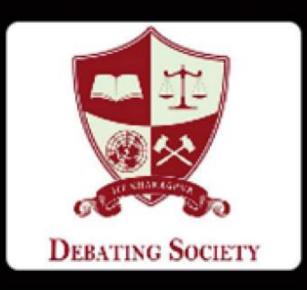




Spring Fest, Eastern Technology Music Society, Western Technology Music Society, Technology Dance Society, Technology Dramatics Society, Debating Society, Technology Filmmaking and Photography Society, Spectra, Technology Culinary Arts Society, Technology Comedy Club, Technology Literary Society, Communique

















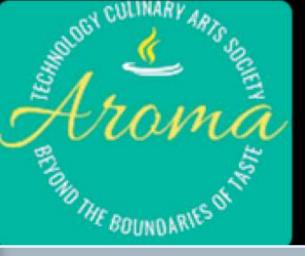














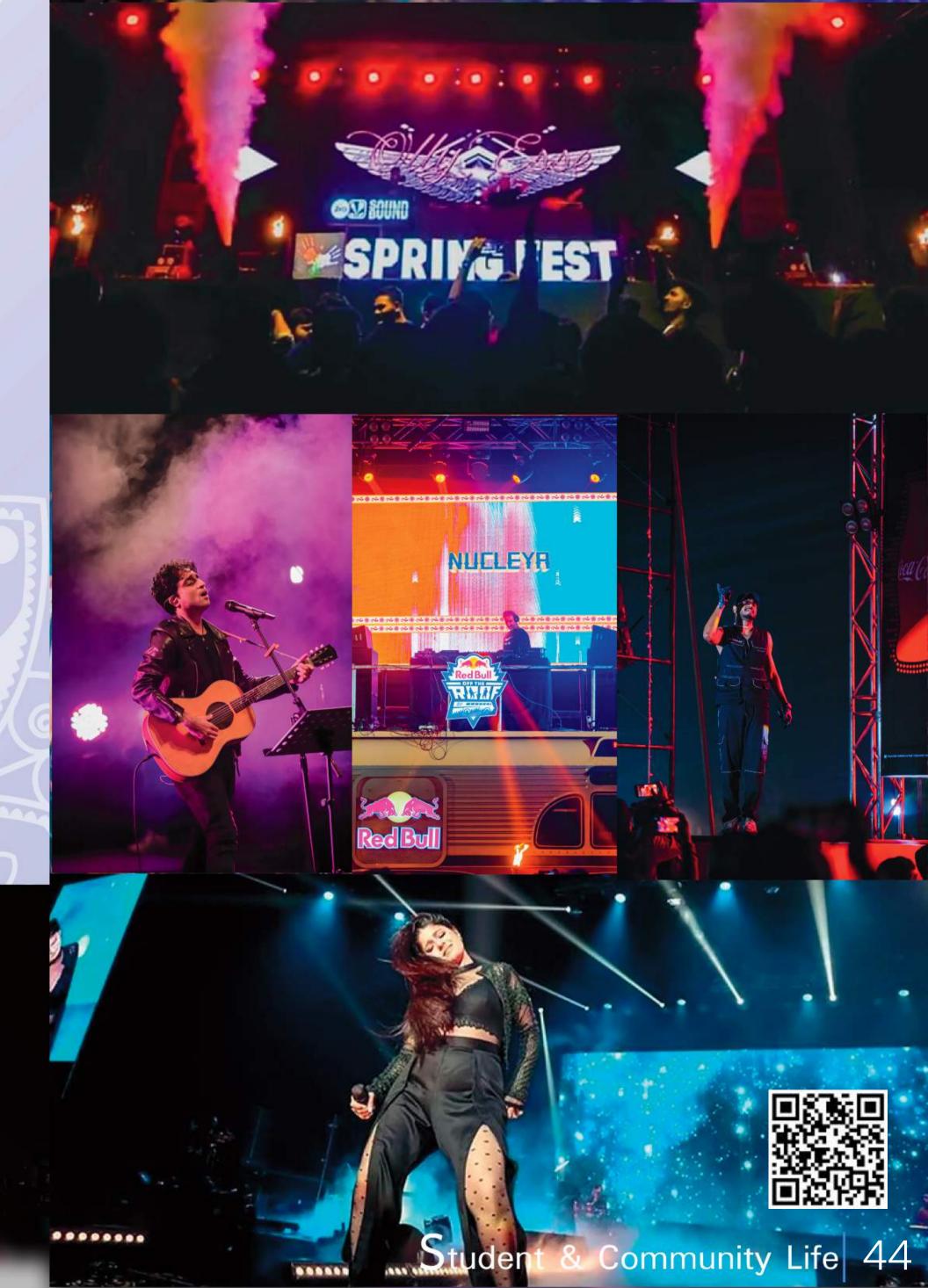


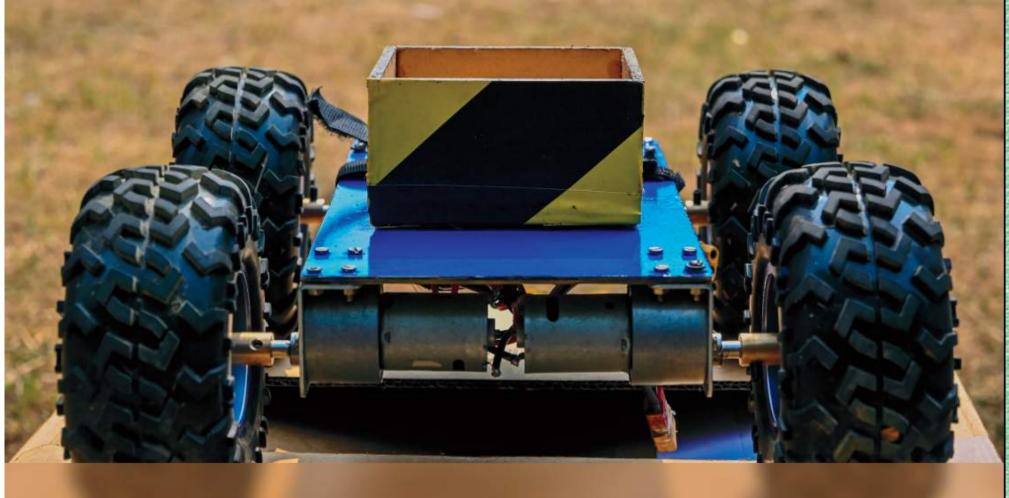
# Spring Fest CULTURAL FEST

Spring Fest is the annual social and cultural fest of IIT Kharagpur. Since its inception in 1960, Spring Fest has grown to be one of Asia's largest cultural extravaganzas. Witnessing participants from all across the nation, it's a colossal platform for students to put forth and reflect their potential talent, marking the 'True Spirit of Youth'. With more than 100 different events in distinguished genres Spring Fest has plenty to engage its audience. For the past 3 years Spring Fest has undergone some big changes. 2021 marked a successful virtual fest and 2022 witnessed the first ever hybrid fest, during the challenging times of covid-19. Celebrity performances are a major draw, and Spring Fest 2023 continued this legacy. The four-day event, from Day 0 to Day 4, featured captivating performances by renowned artists like Sunidhi Chauhan, Nikhil D Souza, King, and Nucleya, further adding to its allure. Passing on the characteristics of greatness.

Spring Fest promises an unfolding enchantment every year!







# Techno-Management

Aerial Robotics Kharagpur, Kharagpur Robosoccer Students' Group, Technology Robotix Society, Finterest, AIESEC, CodeClub, Communique, Business Club, Kharagpur Open Source Society, KGP Speedcubers, Net Impact IIT Kharagpur, Prodex, The KGPian Game Theory Society, Kshitij, Knowledge Cup (Tech Quiz, Biz Quiz, Math Olympiad), Innovation Cup (Hardware Modeling, Ad Design, Product Design), Application Cup (Case Study, Chemical Innovation, Open Soft), Quiz Club



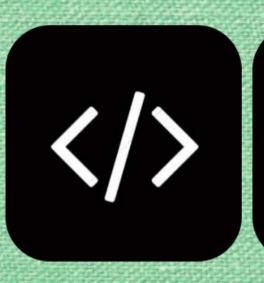














































#### **TECHNO-MANAGEMENT FEST**

Kshitij is Asia's largest Techno-management symposium organized by the students of IIT Kharagpur. Kshitij started its adventure in 2004 and grew up drastically to become what it is today. Its aim is to provide a national-level platform for all technically inclined youth to showcase their talent and expertise. Kshitij has bombarded the stage set for the fully offline 20th edition from 20th to 22nd January 2023. Kshitij with its theme Ethereal Exodus left a mark in all the participant's hearts with an amazing experience. With 40+ events, Kshitij 2023 mesmerised the hearts and souls of 20000+ students. The fest was graced by the presence of modern-day leaders like K. Radhakrishnan, Ashneer Grover, Pawan Kumar Chandana, and Shilpa Rao among others. This edition witnessed the addition of various Exhibitions manifesting vanguard technologies like ISRO, TechMahindra, and much more. Kshitij 2023 takes pride in organizing scores of diverse workshops in association with giant firms like Apple, MongoDB, Airbus, Unity, Upstox, and many more.





# Social Welfare and Community Service

Gopali Youth Welfare Society, Student Welfare Group, Institute Wellness Group, Weekly teaching, Scholarship and study support, Support to women self-help group, Medical camp, Backward caste certificate camp, Awareness campaigns, Cloth distribution, Village road-building.





Alumni Cell, Entrepreneurship Cell, International Relations Cell, Branding & Relations Cell, Technology Transfer Group

#### Support Groups for Institutional Activities







Institute Wellness Group

IWG is a student body with the aim of creating a joyful environment for the entire student community! Coming under the Students' Welfare (SW) Portfolio of the TSG, IWG is comprised of students who are dedicated to and have received training in order to support the mental welfare of the KGP community.

The members of IWG act as the principal nodes of student counselling and enforce welfare activities among the student community. The events and programmes conducted by IWG have the clear objective of fostering happiness and harmony within the KGP community. IWG wants to foster an atmosphere on the KGP campus where students feel free to express their emotions. A few of the events conducted by IWG are Mental Awareness Month, Counseling Session, Movie Night and Khat.



Student Welfare Group works towards ensuring the smooth functioning of students' lives on the campus by assisting students of IIT Kharagpur in developing their skills and personality.

It provides the required resources to contribute to the success of students' college life as well as flaring productivity by organizing informative and interactive events.

It strives to contribute to the overall educational mission of the Institute by facilitating the academic, emotional, social, and vocational development of the entire student community. Respect for diversity and a commitment to students' personal growth are guiding principles in the work we do.

STUDENTS' WELFARE







Ambar serves as the official LGBTQIA+ Support and Ally Resource Group of IIT Kharagpur. It provides a safe space for LGBTQIA+ community members and allies to share experiences and educate themselves about the community. Additionally, it advocates for the rights and equality of Gender & Sexual minorities on campus, fostering awareness, dispelling queerphobia and pushing for institutional reforms. Throughout the year, it organizes events, workshops, and guest talks, with the celebrated Pride Month, Pride Week, and Spring Fest Stall being the highlights. These encompass various activities such as performances by queer artists, movie screenings, and creative prompt-based engagements, culminating in the annual Pride March.





## Technology Environment Society IIT Kharagpur

Technology Environment Society of IIT Kharagpur aims to spread knowledge about Environment and Sustainability, broaden awareness of climate change and find solutions to the problems of Nature and society. Technology Environment Society (TES) is an official society under the Technology Students' Gymkhana of IIT Kharagpur, founded in August 2021.

The idea and action of "Vision Prabaho", a green activist social group formed by students of IIT Kharagpur, promoting environmental justice inside and outside the IIT Kharagpur Campus, have sowed the seeds of TES in 2018. The vision of TES for IIT Kharagpur is to improve and maintain the socioecological space inside the campus. This includes a more sustainable waste management system, water bodies' maintenance, Eco-System preservation, and spreading awareness to make the campus a better place together.







Our moto : भारतस्य कृते युवानं समगमः

Think India Society, IIT Kharagpur fosters a platform for students to engage in intellectual discussions and promote social welfare. Encouraging innovation, leadership, and social responsibility, it aims to cultivate academic excellence and empower students to explore their potential. Through science, technology, and innovation, Think India envisions technology-driven societal solutions that directly impact society. With a focus on sustainable strategies, it strives for the upliftment of Bharat, supporting gender justice and family values.



## Anti Ragging

IIT Kharagpur strictly prohibits ragging in any form on its campus. Ragging is defined as any conduct causing annoyance, harm, embarrassment, or distress to a fresher or any other student. Punishments for those found guilty include suspension, withholding of scholarships, debarring from exams, expulsion, and more. An anti-ragging squad conducts surprise visits to potential places of ragging, and it has the power to take immediate and necessary action to stop ragging and collect evidence on the spot. In case of any emergency, students can contact the following numbers:

Mr. S. K. Choubey, ASO (9434386649)

Mr. S. S. Jha, SO (9434386647)

Mr. Pramod Kumar, SSO (9420284299)

For the detailed definition and punishment scan the QR code.





# आंवार्

Awaaz is the student-run media body at IIT Kharagpur, which covers all the happenings on campus while providing a satirical and often humorous take on them via cartoons starring "Panji Dude" (5-pointer Dude). From publishing placement and internship reports to taking interviews of illustrious KGPians who have left their mark in diverse facets of life and welcoming the incoming batch of Freshers with a fun-filled Freshers' Introductory Video, Awaaz provides a vantage take on the true spirit that defines a KGPian. Frequent surveys are conducted to get regular feedback from the most important stakeholders- the Students. Finally, a Quarterly newsletter, which covers all happenings during life at KGP, firmly reinstates its position as the undeterred Voice (Awaaz) of KGP.



# THE SCHOLARS' AVENUE

The Scholars' Avenue is the independent student-run media body of the Indian Institute of Technology, Kharagpur. Now in its eighteenth year, TSA reaches all students and faculty on campus, while soft copies are mailed to several thousand alumni. Each of their issues is a juxtaposition of the informational, the technical and the creative. They report campus events and happenings through their social media handles, and function as a public interface between students and the administration. They publish the Internpedia and TNPedia for students sitting for CDC Internships and Placements, respectively.





IIT Kharagpur is committed to provide quality health care services to its faculty, employees, and students using modern and cost effective techniques and technologies, and through a dedicated and humane approach. B C Roy Technology Hospital, owned and managed by IIT Kharagpur, provides Primary Health Care comprising of curative, preventive and health promotion services. The facility has 32 beds, including a 2 Bedded ICU, Cabins and Isolation Ward. Through its Out Patient Department (OPD), Indoor Wards and Emergency Unit, B C Roy Technology Hospital provides 24x7 uninterrupted health care services to the campus community. On an average approximately 7000 patients attend the OPD at B C Roy Technology Hospital every month. The hospital has a round the clock pharmacy inside it. It is also equipped with a Video-conferencing facility for telemedicine. Biomedical waste from B C Roy Technology Hospital is regularly and properly disposed of by an arrangement with the services of West Bengal State Government Environment Department. B C Roy Technology Hospital keeps the health needs of the campus community as its top priority, and constantly strives to improve and upgrade the existing facilities and the services.

## MEDICAL INSURANCE

B C Roy Technology Hospital refers patients to higher care centres for specialised healthcare services and medical treatment. IIT Kharagpur has a Memorandum of Understanding (MOU) with several corporate hospitals, including and not limited to

- 1. Peerless Hospital, Kolkata
- 2. Ruby General Hospital, Kolkata
- 3. Meridian Medical Research and Hospital Ltd (West Bank)
- 4. ILS Hospitals, Dum Dum

Also, the Institute provides Health insurance to all the KGPians, in collaboration with Medi Assist Insurance TPA Pvt. Ltd., having a vast network of hospitals where you can avail of the insurance services.

For any medical claim related assistance, contact Dr. Rajeev Kumar Rawat, Senior Hindi Officer, Rajbhasha Vibhag, IIT Kharagpur, Tel No. – 03222 281864, Mob. No. - 9564156315, E-mail ID – studentinsurance@iitkgp.ac.in





The holistic well-being of our student community, encompassing both physical and mental health, is of the highest priority to the Institute. In pursuance of our commitment towards ensuring that, we have set up the Students' Counselling Centre to provide any required assistance to students who may be experiencing emotional or psychological conditions that hinder their regular activities on campus.

Being a student of IIT Kharagpur, you are entitled to come and seek help from the Counselling Centre.

The Counselling Centre offers a broad range of services, including psychological assessment, individual therapy, group therapy, and medication and management to promote mental health, life skills, emotional resilience and overall well-being of the student community.

The Centre addresses problems associated with stress, time management, motivational issues, relationship difficulties, impulse control issues, and learning difficulties. It also helps students experiencing significant depression, anxiety, mood swings, or other thought disorders.

Students anticipating crises or extreme distress are served on an emergency basis. A student can visit the Counseling Centre from Monday to Friday from 10:00 am to 6:00 pm. The Centre will be open on Saturday within normal working hours providing a skeleton service.

An appointment is scheduled according to the availability of the counsellor and student. The student needs to inform the Counselling Centre if he/she cannot meet the scheduled appointment. This is done so that the other students can be given an appointment instead.

The Centre remains closed on Sunday. The Counselling Centre also functions as a coordinating point for crisis intervention.

For more information, please

visit - http://www.counsellingcentre.iitkgp.ac.in/

Contact- 83602, 81173, 21174, 81108



## YourDost





YourDOST is one of India's largest holistic emotional wellness organisations. We help corporates, colleges and government organisations build resilient communities. We provide our consulting methodology to Corporates, Educational Institutions and Government organisations to build and execute their Emotional Wellness programs. We offer free access to confidential 24X7 online counseling services. Students can interact with experts at their convenience with 100% anonymity, irrespective of the severity of problems. The variety of services includes online chat sessions and voice/video calls, according to the availability of the expert which can be accessed via their application or website.

You can sign-up using your institute email id to avail of these services. The platform's qualified experts help users cope with emotional challenges and provide self-help resources. With easy accessibility and privacy, it assists students in combating mental health stigma and provides them with the necessary support.







# Apnalnsti

Technology Students' Gymkhana, IIT Kharagpur



The Apnalnsti app, developed by IIT Kharagpur's own Developer's Society, aims to address various challenges students face and streamline their campus life.

With a user-friendly interface, it offers several valuable features, such as convenient slot booking for various services provided by the Technology Students' Gymkhana (TSG). Additionally, the app enables students to engage in buying and selling products within the campus community. It serves as a comprehensive platform for staying updated on announcements, events, and results of different competitions, including the Open IIT. Users can also access live scores of the General Championship, fostering a sense of community and sportsmanship.

The app further facilitates the resolution of issues and grievances through an integrated grievance form, enhancing the overall campus experience.

To get started, scan the provided QR code and join the Apnalnsti community!



# Do's

- Identity card whenever you leave the IIT Kharagpur campus.
- students, seniors, hall staff and mess staff.
- Students, seniors, Hall Staff and Mess Staff.
- and ventilate it regularly. Help to maintain Cleanliness in the Hall and Campus.
- ✓ Do take care belongings, take steps not to lose any of those.
- co-operate with Mess Staff.
- ✓ Inform the Warden Institute in case of a change in address/contact details of your parents/guardians.
- ✓ In case of any maintenance issues in the halls, report them to the respective hall management, and cooperate with the staff to solve them.

- Do carry your institute student \( \text{\center} \) Report the movement of any unknown/suspicious person on the Campus.
  - in your room while you leave the room. Save electricity.
  - and avoid the wastage of water. Save water.
  - with submitting student I-Card at the Security desk before leaving and entering the Hostel premises.
  - of your Seek prior permission for all leave of absence from the hall well in time.
- campus.
  - and **Take** of care hostel properties and assets. Report any loss or damage to IIT Kharagpur property in the Halls / Room.

# Don'ts 🔀

- Do not deviate from the rules and regulations laid down by the institute.
- Do not indulge in ragging in any manner, and do not remain a mute witness to an act of ragging by others.
- Do not move around/sit in areas that are dark, secluded and bushy or the restricted areas.
- Do not cause disturbance to by playing loud others music/ shouting or playing ball/ cricket etc inside the Halls.
- Do not disclose passwords to anyone.
- Do not leave your room unattended and always keep your valuable belonging in safe locking condition.
- 🚺 Do not hand over keys of 🔉 Do not your two wheeler to another student, who has not been permitted to drive within the IIT Kharagpur campus.

- Do not smoke or consume stupefying drugs.
- Do not leave Hall without taking prior permission of the Warden / assistant warden.
- Do not damage property of others, including IIT Kharagpur.
- Avoid exaggeration when a complaint is made against fellow Student / Staffs of IIT Kharagpur.
- your 🗶 Do not leave your personal belongings including cash, cards or laptop unattended even for a short period.
  - Do not consume liquor.
  - ride two/four wheelers within Halls area.

For Security Assistance, Please Call: 03222-282752/ 281001, 281004

Contact QRT (Quick Response Team): 03222-281002, 03222-2827100

Do's

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# Glimpses of Academics

At IIT KGP, academic program is designed to give wings to your aspirations, more than teaching, we help you learn and innovate.

A wide variety of disciplines (19 Departments, 15 Schools and 18 Centres) are offered which are also amalgamated, thus making available a plethora of multidisciplinary courses.

Students are encouraged to explore the options which suit them the best, irrespective of the discipline to which they have been admitted. This improves their industry worthiness and knowledge base and helps them emerge as well-rounded graduates, equipped for any career either in academics or the corporate world.

Opportunities for research, fellowships, internships, and networking are boundless.

Our admission criteria are among the most rigorous in the country. But on admission, students are supported with:

Best-in-class Technical Facilities

Web-enabled Classrooms

Virtual Learning Environment

Use of Learning Management

Tools, viz. Moodle

**Discussion Forum** 

Academic programs

- B.Tech. (15 programs)
- B.Arch, Dual Degree (35 programs)
- MBA, MHRM, LLB, MMST,
- MCP, M.Sc/ M.Tech/ MS /
  M.Arch
- Ph.D programs
- Niche field of interest for Undergraduates

Talk about the latest interests -Nano Science & Technology, Energy Science, Environment Science & Technology, Bioenergy, Intellectual Property Law, Business Management, Financial Engineering, they are all here under one umbrella and you can choose these as elective papers for minor or micro-specialization during your B.Tech. or Dual Degree Programs. If you are a Dual Degree student you can even do your M.Tech. from the specific Departments, Schools and Centres.

To choose from you have 19 Departments, 15 Schools and 18 Centres. Additionally there are more than 25 R&D units. Academic programs offered are B.Tech.(15), B.Arch, Dual Degree(35), MBA, MHRM, LLB, MMST, M.Sc/ M.Tech/ MCP/ MS (68), PhD in 6 broad disciplines: (1)Engineering,(2)Basic Sciences,(3)Life Sciences, (4) Social Sciences & Humanities, (5)Law (6) Entrepreneurship.

19 Departments

15 Schools

18 Centres

Students may opt for Microspecializations, Minor or Dual Degree courses in the above.

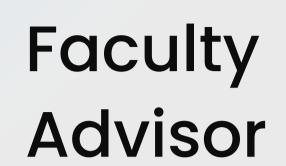
- Nano Science & Technology
- Energy Science
- Bio-energy
- Intellectual Property Law
- Financial Engineering

## **Know Your Department**

To know the insiders' view of the Department from the standpoint of students. Get a first-hand experience of what the students have to say about the Departments at IIT KGP

# World-class Faculty

There are approximately 600 faculty in various disciplines who have done PhD from globally renowned universities and done commendable research. The Institute has two Bhatnagar Prizes in the last 3 years and 38 Academy Fellows. Bhatnagar Prize is the most coveted award in multidisciplinary science in India. The faculty members have collectively published more than 1000 research paper in peer reviewed journals and close to 800 conference papers published in proceedings of national and international conferences.



Faculty Advisors (FacAd in KGP lingo) are the first point of contact for the students for any academic process or query. They are professors assigned to groups of students in their department. A student needs approval from their FacAd to register for the courses, take leaves from classes or examinations, book a room in any of the Guest Houses, and other purposes.



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#### Flexible Academics

#### Glimpses of Academics

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Talk about the latest interests - Nano Science & Technology, Energy Science, Environment Science & Technology, Bio-energy, Intellectual Property Law, Business Management, Financial Engineering, they are all here under one umbrella and you can choose these as elective papers for minor or micro-specialization during your B.Tech. or Dual Degree Programs. If you are a Dual Degree student you can even do your M.Tech. from the specific Departments, Schools and Centres.

To choose from you have 19 Departments, 15 Schools and 18 Centres. Additionally there are more than 25 R&D units. Academic programs offered are B.Tech.(15), B.Arch, Dual Degree(35), MBA,MHRM, LLB, MMST, M.Sc/ M.Tech/ MCP/ MS (68), PhD in 6 broad disciplines: (1) Engineering, (2) Basic Sciences, (3) Life Sciences, (4)Social Sciences & Humanities, (5) Law and (6) Entrepreneurship.

# Interdisciplinary and Flexible Academics

Depth, Breadth and Additional courses

**Depth subjects** are those part of the Department curriculum and are compulsory courses to be registered by the student.

**Breadth subjects** can be chosen by the students, on the demand of their curriculum, from the vast list of courses available to the student, from various departments, and register on approval of the FacAd and course instructor. Breadth courses will be considered in calculating the total GPA with the depth courses.

**Additionals** similar to breadth courses, can be chosen and registered by the student on approval from the FacAd and course instructor. GPA obtained in Additionals is counted separately from the overall GPA.

#### **Minor Course**

A student can apply for courses and laboratories in any other discipline and will be taken for the course based on their academic performance to get a Minor degree in that. This way, you are not restricted to the discipline you are admitted to, and thus pick up various other career paths.

A Minor course requires about 6 subjects to be undertaken (18-24 contact hours plus 3-9 hours of laboratory) in addition to the depth course you are enrolled in. Additional credits will be given to the students completing the Minor courses' work. The opportunity of acquiring additional credits and Minor degrees would be available to the students of all the disciplines.

Academic Life 7:

#### Micro-Specialization

In order to provide an opportunity for a significant section of our highly talented students to take up niche specialisations from other/interdisciplinary programmes, IIT Kharagpur has initiated the concept of Micro-Specializations. This is offered by departments, centres, and schools, including which do not run undergraduate programs, and also be jointly provided. Micro-Specialization is a smaller and more compact niche topic and requires a student to do a foundation course and two/three courses and/or a project. Micro-Specialization can be pursued by using the elective slots allotted along with the depth course, without the need to take up additionals for the purpose.

#### Project-based Learning

In order to provide an opportunity for a significant section of our highly talented students to take up niche specialisations from other/interdisciplinary programmes, IIT Kharagpur has initiated the concept of Micro-Specializations. This is offered by departments, centres, and schools, including which do not run undergraduate programs, and also be jointly provided. Students can be involved in mega projects such as:

- Future of Cities: works on technology for developing and maintaining our cities and future cities.
- Signals and Systems for Life Sciences: focuses on technology for leveraging biometric signal processing for analysis, prognostics, diagnostics and affordable healthcare.
- The Sustainable Food Security project: seeks to leverage technology for food production, processing and distribution logistics.
- SandHI (Science and Heritage Interface): a science-culture initiative that uses technology for our heritage's preservation, archival, development and scientific exploration.

# Semester Away Internship Program (SAIP):

The Institute gives the students enrolled in B.Tech./B.S. courses an option to complete their 7th semester in corporate/industrial sectors, research organizations, or academic institutes under the SAIP (Semester Away Internship Program). Know more about the information and guidelines of SAIP from the given QR code:

# CHANGE OF BRANCH (AT THE END OF FIRST YEAR)

Change of the branch is a privilege and not a right. Only those students admitted to B.Tech.(Hons.) / Dual Degree / Integrated M.Sc. Programs through JEE (Advanced) are eligible to be considered for a change of branch after the Second (Spring) Semester as per the following rules: To be eligible for consideration for a change of branch the following conditions must be satisfied:

- He/she must have completed all the credits prescribed in the first two semesters of the course, in his/her first attempt, without having had to pass any course requirement in the reexamination, supplementary examination and/or summer quarter.
- He/she must have obtained a Cumulative Grade Point Average (CGPA) not lower than 8.5 at the end of the Second (Spring) Semester.
- He/she must not have been punished for any offence by the Standing Institute Disciplinary Committee or the Committee on Prevention of Examination Malpractices at any time prior to the notification for the change of branch.

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#### CHANGE OF BRANCH (AT THE END OF FIRST YEAR)

Application for a change of branch must be made by intending eligible students when the notification is released during the Spring Semester of the academic year. The students have to accordingly (I) apply online and (ii) submit signed hardcopy to Academic Section by the specified deadline.

- Students admitted to 4-Year B.Tech.(Hons.) and 5-Year Integrated M.Sc. programs are eligible for consideration for a change of branch to any Engineering or a Science discipline.
- Students admitted to a 5-Year Dual Degree Program are eligible for a change to another 5-Year Dual Degree Program only.

Students may enlist up to TEN (10) choices of branch, in order of preference, to which they wish to change over. It will not be permissible to alter the choices after the application has been submitted.

Change of branch shall be made strictly on the basis of inter-se-merit of the applicants. For this purpose the CGPA obtained at the end of the Second (Spring) Semester shall be considered. Ties will be broken by the JEE Advanced rank of the applicants.

• In making the change of branch, those applicants shall be first considered who have secured a rank within top 1% (one percent), rounded to the nearest integer, amongst all the first year students in terms of the CGPA scored at the end of the Second (Spring) Semester. Change of branch requested for by such applicants shall be made without any constraint.

You can watch the youtube video for more clarity on the topic

• The remaining applicants may be allowed a change of branch, strictly in order of inter se merit, subject to the limitation that the actual number of students in the Third (Autumn) Semester, in the branch to which the transfer is to be made, does not exceed 110% of the sanctioned yearly intake for that branch.

The sanctioned yearly intake of a particular branch shall be the number sanctioned by the Senate as the intake for that branch for the particular year of entry of the applicants. To compute the total number of students in the first year, sum of the sanctioned yearly intake of all the branches will be taken. For the purpose of calculating the actual number of students in a particular branch, the number of students joining the branch is to be considered.



## Extra Academic Activity (EAA)

Extra Academic Activity (EAA) is an important component of the UG curriculum at IIT Kharagpur, with NSS, NCC, NSO and NCA under its fold. It's essential for holistic development, exploring interests, stress relief, and personal fulfilment.

#### NSS: National Service Scheme

National Service Scheme (NSS) is a voluntary organization. The program aims to promote personality development by means of participation in community service. NSS has been made a part of the core academic curriculum for more than one-third of first and second-year undergraduate students. The programme comprises weekly fieldwork encompassing but not limited to social activism, charity, educating the underprivileged and a minimum of one annual camp.

#### NCC: National Cadets Corps

National Cadet Corps (NCC) offers students the opportunity to join the Air Wing or EME (Electronics and Mechanical Engineers). NCC activities involve military training, drills, camps, and community service. It instils discipline, leadership, patriotism, and a sense of social responsibility. It also promotes physical fitness and teamwork among students. Through NCC, students also get the chance to participate in adventure activities that help build resilience and courage, fostering an all-around development of their personality.

#### NSO: National Sports Organisation

At IIT Kharagpur, the National Sports Organization (NSO) offers students the chance to engage in various sports and athletic activities. NSO promotes sportsmanship, physical fitness, and overall well-being. Students can participate in a wide range of sports, including but not limited to cricket, football, basketball, volleyball, athletics, and more. It encourages a healthy and active lifestyle, contributing to the holistic development of students beyond academics.

#### NCA: National Cultural Association

National Cultural Association (NCA) provides a platform for students to showcase their artistic talents and passion for cultural activities. NCA encompasses vocal music, instrumental music, folk art and dance. It fosters creativity, self-expression, cultural appreciation, and the preservation of diverse traditions and plays a pivotal role in nurturing well-rounded individuals and fostering a vibrant cultural atmosphere on the campus.

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#### **Academic Curriculum UG**

For website link to UG academic curriculum please go to:

www.iitkgp.ac.in → Academic Curriculum (UG)

https://erp.iitkgp.ac.in/ERPWebServices/curricula/ specialisationList.jsp?stuType=UG

to know about the various courses offered by the institute and their content. You can specialize according to your inclination.

### National Digital Library (NDL)

NDL makes learning resources accessible online through a single window search facility with filters through which users can personalize search results. It promotes self-learning and can be used by all learners, at all levels, and in all subject areas. It is designed with user interfaces in most widely used Indian languages covering at least 90% of Indian population. NDL has launched a mobile application as well in addition to the web version.

NDL India is available as Web App (https://ndl.iitkgp.ac.in) and as a Mobile App on Android, which can be downloaded from Google Play Store for free.

10 SCHOOL BOARDS **RESEARCH** INSTITUTIONS

MEDICAL AND LEGAL SOURCES

**PUBLISHING** 

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following acts of omission and/or The commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures:

Ragging

unauthorized Mutilation or possession of library books

Furnishing false statement of any kind in the form of application for admission or for award of scholarship etc

Possession, consumption or distribution of alcoholic drinks or any kind of hallucinogenic drugs

Displaying lack of courtesy and decorum; resorting to indecent behavior anywhere within or outside the campus

Organizing or participating in any group activity in company with others in or outside the campus without prior permission of the Dean of Students Affairs

Adoption of unfair means in the examinations

Resorting to noisy and unseemly behavior, disturbing studies of fellow students

Wilfully damaging or stealthily removing any property belongings of the Institute, Hall or fellow students

Not intimating his/her absence to the Warden of the Hall before availing any leave.

Internet/e-mail Misuse facilities or tampering/hacking with servers anywhere in the Halls of Residence/ Departments etc.

# CONDUCT DISCIPLINE



Students shall conduct themselves within and outside the precincts of the Institute in a manner befitting the students of an institution of national importance. Students shall show due respect to the teachers of the Institute, the Wardens of the Halls of Residence, the Sports Officers of the Gymkhana and the Officers of the National Cadet Corps; proper courtesy and consideration should be extended to the employees of the Institute and of the Halls of Residence. They shall also pay due attention and courtesy to visitors. Students are required to develop a friendly relationship with fellow students. In particular, they are expected to show kindness and consideration to the new students admitted to the Institute every year. Law bans ragging in any form to anybody - acts of ragging will be considered as gross indiscipline and will be severely dealt with.

Commensurate with the gravity of the offence, the punishment may be a reprimand, fine, and expulsion from the Hall, debarment from an examination, rustication for a specified period or even outright expulsion from the Institute.

For an offence committed (a) in a Hall of Residence, (b) in the Department or a classroom and (c) elsewhere, the Warden, the Head of the Department and the Dean of Students' Affairs, respectively, shall have the authority to reprimand or impose a fine or take any other suitable measure.

All cases involving punishment other than reprimand shall be reported to the Chairman of the Standing Institute Disciplinary Committee

All major acts of indiscipline, which may have serious repercussion on the general body of students, and/or which may warrant a uniform and more formalized nature of investigation, shall be handled by the Standing Institute Disciplinary Committee appointed by Senate. The Standing Disciplinary Committee consists of the following ex-officio and other members:

- · Dean of Students' Affairs Chairman
- Chairman, Hall Management Committee Member
- Warden of the Hall of Residence of which the student concerned is a boarder - Member
- One Faculty nominated by the Senate, by rotation for two years - Member

- Vice-President, Technology Students' Gymkhana -Member
- One of the student representatives in the Senate, to be nominated by the Dean Students' Affairs, for one year – Member
- The Deputy Registrar (Academic) Member Secretary

In addition, the Chairman may invite any other person(s) to be associated with the proceedings of a particular case, if his/her/their participation is considered necessary in disposing of the matter.

Recommendation of the committee, which will include the suggested punishment in cases of guilt proven, will be forwarded to the Chairman, Senate; for necessary action. Cases of adoption of unfair means in an examination shall be dealt with by the Committee on Prevention of Examination Malpractices consisting of the following members:

- Professor-in-Charge of Examination Chairman
- Head of the Department to which the reported student belongs - Member
- The Invigilator reporting the case Member
- The Invigilator-in-Charge of the Examination Hall concerned Member
- The Paper-setter concerned Member
- Two members of faculty nominated by the Undergraduate Program & Evaluation Committee for a term of two years - Members
- The Assistant Registrar (UGS) Secretary

The Committee shall recommend appropriate measures in each case to the Chairman of the Senate for awarding the punishment.

#### Internal Complaints Committee (ICC)

Internal Complaints Committee, related to Sexual Harassment and Violence against women at their work-place.

With the rise of acts of violence and offences against women in the country in recent times, the issues of women's safety and security has sparked a slew of fresh deliberations in the nation. In the backdrop of this larger debate, with due attention to the facts that there has been a substantial increase of female students and some untoward incidents of offensive behavior towards the women (students, faculty and campus residents) Kharagpur IIT campus, women's safety is both a timely important issue for IIT Kharagpur to deliberate upon.



In pursuance of the direction of the honorable Supreme Court in

VISHAKA and ORS. v. STATE OF RAJASTHAN and ORS. (JT 1997(7) SC 384)

The Institute constituted a Standing Committee on Women Cell in 2001 to effectively deal with cases of violence against female students, staff, faculty and campus residents.

Presently, this cell function as the "Internal Committee" as designated under the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013.

Incase of any complains, you can reach out to Chairperson ICC, Women Representative and Vice President, TSG.

One or more of the following unwelcome acts or behavior (whether directly or by implication) constituting sexual harassment are:

- Physical contact or advances
- A demand or request for sexual favours
- Making sexually coloured remarks
- Showing pornography
- Any other unwelcome physical, verbal or nonverbal conduct of sexual nature

The following circumstances, among other circumstances if it occurs or is present in relation to or connected with any act or behavior of sexual harassment may amount to sexual harassment:-

- Implied or explicit promise of preferential treatment in her employment; or
- Implied or explicit threat of detrimental treatment in her employment; or

- Implied or explicit threat about her present or future employment status;
   or
- Interference with her work or creating an intimidating or offensive or hostile work or environment for her; or
- Humiliating treatment likely to affect her health or safety.

This cell undertakes enquiries with regard to complaints of harassment sexua from aggrieved women employees (as defined under the Act, 2013). The complaint is kept totally confidential, and adequate protection is provided to the complainant, where necessary.

Complaints are heard expeditiously while adhering to the principles of Natural Justice. Necessary recommendations are provided to the Authority on the basis of the findings of the inquiry.

# NATIONAL PROGRAMME OF TECHNOLOGY ENHANCED LEARNING (NPTEL)

Under this programme IIT Kharagpur develops e-learning resources as a partnering institution in the form of video and web courses which are available on the NPTEL website and YouTube. Online certification courses are offered as well. Courses on Communication and Soft skill development as well as job oriented courses are offered. IIT Kharagpur has one of the largest contributions in NPTEL. It has developed 48 web courses and 127 video courses (around 5000 hrs. of video contents) on diverse core and elective subjects. From 2014, online certification courses are being offered under this programme as 'NPTEL certification courses'. These courses in the MOOC format covering the 4 quadrant approach provide courses on core/elective subjects, which imbibe problem solving capability to the learners. Also a number of courses on communication and Soft skill development as well as job oriented courses are offered:





For more information on the available courses, please visit

www.nptel.ac.in

The courses on Programming in C++, Embedded Systems Design, Machine Learning, Speaking Effectively offered.

The course on
Outcome based
Pedagogic
Principles for
Effective
Teaching was
well taken by the
Faculty members
of Engineering

# CAREER DEVELOPMENT CENTRE

**PLACEMENT** 

INTERNSHIP

CAREER

#### Placement and Internship

The Career Development Centre (CDC) of IITKGP provides 360 degree career solutions to the students in professional development, internships and promoting corporate relations for improving placement and internship opportunities. The student strength is more than 10000 including Undergraduate studies, Postgraduate studies and PhD. More than 60% are Undergraduate students doing B.Tech., B.Arch. and Dual Degree programs. About 1000 students get graduation degree every year. Placement of undergraduate students is more than 80% depending on their CGPA, leadership skills, success in cocurricular and extra-curricular programs and of course the interview with the company. Every year more than 250 companies visit IITKGP and recruit more than 1600 students.

IITKGP has been ranked for two consecutive years as the best institution in India in the Graduate **Employability Rankings by** Quacquarelli Symonds (QS). Placements in top Indian and international organizations, national labs in defence space and atomic sciences, design houses, engineering conglomerates, consulting companies, financial institutions and so on. 10-15% of IITKGP graduates opt for higher studies in India and abroad right after graduation while some do so after earning a few years of work experience. Some of them take time off to prepare for the nation's premier civil service examinations.





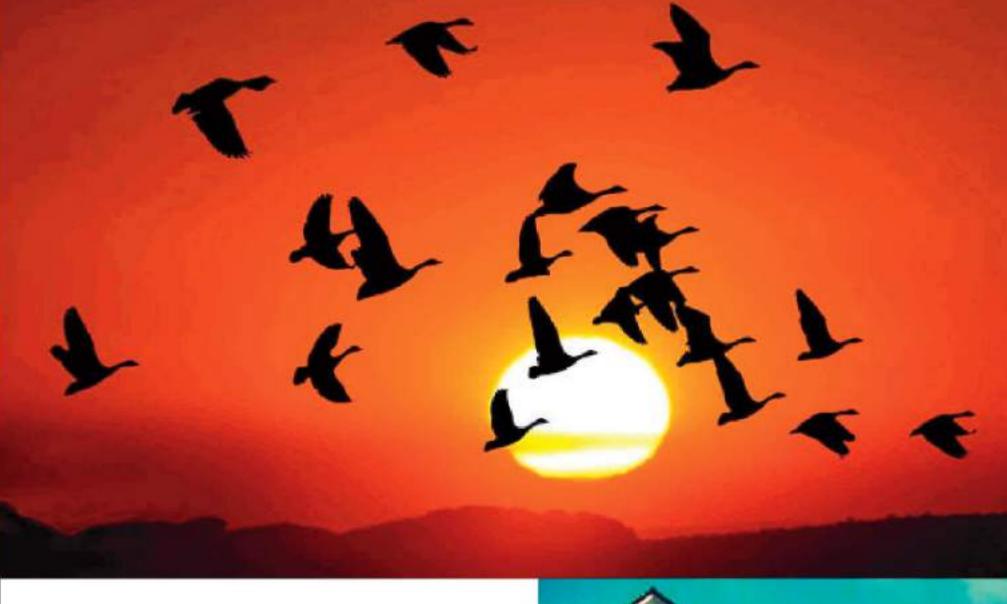
The Rekhi Centre of Excellence for the Science of Happiness was set up in July 2016 in order to offer courses, conduct research, develop community wellbeing centred around the concept of Happiness. It offers a number of exciting courses, and guest talks for the student community, holds an annual International workshop and has various activities, competitions and projects where students can participate and express themselves in various ways.

#### Virtual Labs

The Virtual labs project is aimed at providing near-hands-on experience to students in various laboratory topics in sciences and engineering using information and communication technology. The labs have central

platform integration and easily deployable mechanism of delivery to any university student in the country. An open source development,

deployment and management system has been put in place by the Virtual Labs consortium.



## Student Alumni Mentorship Programme (SAMP)

Programme (SAMP) is a unique initiative undertaken by the Students' Alumni Cell, IIT Kharagpur. Through this programme students are connected with alumni who serve both as a guide and a source of inspiration for them SAMP is launched with the goal of keeping the alumni connected to their alma mater as well as share their valuable experience with the

current students

Student Alumni Mentorship



89 Academic Life

#### Scholarships

- Close to 1000 students at IITKGP receive financial assistance from various corporations, foundations and external agencies
- More than 1000 students at IIT KGP receive Scholarships on Merit Cum-Means
- 3. Hundreds Of Endowment Prizes and Free Tuitionship offered by the Institute
- 4. Alumni Funded Scholarships

Further information on scholarships is available in the rules and regulations document visit

#### **Special Grants**

- Top-up Fellowships offered by Faculty from Research Projects
- Special Grants for incubated Entrepreneurship projects

#### Banking Assistance

- At IIT KGP education loans can be availed from nationalized banks in the campus.
- Students will not have to depend on their parents or on scholarships for study.



You can find more details about the UG Scholarships and others here



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#### Some of other scholarships:

#### **Panasonic Scholarship**

It is a scholarship for Btech students in 1st year who are BPL Card holders or are not able to pay for their studies in IITs. Amount – INR 42500 per year for 4 consecutive years as grant to cover students' tuition fee.

#### Siemens Scholarship

It is a scholarship for BTech students 1st year in IITs & NITs. Candidate's family income must be below 2 Lacs per annum. Students are awarded with Siemens Scholarship throughout four years of BTech.

#### **IET India Scholarship**

IET India Scholarship is a fellowship for 2nd & 3rd year engineering students in India provided by IET. To get it candidates will go through the various selection rounds included an online test. Amount – Total INR 8 Lacs which will be distributed to the selected candidates.

#### Aditya Birla Scholarship

It is provided by the Aditya Birla Group for the people who're pursuing their educational degree from IITs, IIMs, BITS Pilani and Law colleges of India. Amount – It covers the academic fees as well as hostel fee throughout the complete course duration.

#### **Student Brotherhood Fund**

With an objective to promote the feeling of oneness in the student fraternity of IIT Kharagpur, the institute provides funds as "Loans of Honour" (interest-free loans) and "Donations" (Non-refundable), under the Student Brotherhood Fund, to deserving student applicants to meet their own educational/medical expenses.

## Hall Management Centre

Our institute is fully residential. Students are accommodated in 22 Halls of Residence which are managed by HMC. In addition to this, 2 numbers of family accommodations are available for married doctoral scholars and defence sponsored married MTech students. These halls are administered by Wardens and Assistant Wardens with help of hall managers and supervisors. Chairman and Coordinating Wardens (Mess, Maintenance, Allotment) look after the overall administration of HMC. Dean of Student Affairs acts as adviser. Students doing MS and PhD through projects are accommodated in VSRC, which is managed by the Sponsored Research and Industrial Consultancy cell of IIT Kharagpur.

Catering service is provided by the regular hall staff members in some of the halls, and for the remaining halls it has been outsourced to private agencies. Cleaning service is outsourced for all the halls of residence. Currently there are 296 regular employees of HMC. All the halls have 24×7 Internet connectivity, and most of them have common room, music room, library and sports room facilities. Halls also have various sports and culture facilities. Activities related to Mess operations and monitoring, sports and games, cultural events, library etc. are managed by various elected general secretaries and overseen by the Hall President. There are various inter-hall events foremost among which are Illumination, Rangoli and Garden competitions arranged by Technology Students' Gymkhana.



## Guest House Accommodation

The Institute hosts all visitors in four guest houses, three in Campus and one in Kolkata. Regular catering facilities are available in all guest houses. For details and contact numbers please visit individual Guest Houses:

New Technology Guest House (NTGH)

Technology Alumni Guest House

Salt Lake Guest House-Kolkata (SLGH)

Hall Management Centre runs SAM guest house which is located in front of the HMC Office, and top of the SAM Hall of Residence. Online booking is activated and is mandatory. Prior booking more than 120 days is NOT allowed. Please Note: 1.Room rent will be received through POS only. No Cash payment will be accepted. 2.For Online Booking please go to the Guest House Application Portal. Guest rooms are available in different halls of residence.







Booking

+ 91-3222-282834

Reception

+ 91-3222-282800

**Email** 

tgh@hijli.iitkgp.ac.in

For more details Click http://www.tgh.iitkgp.ac.in/

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# Students' Innovation at M N Faruqui Innovation Centre

The Faruqui Innovations Centre is funded by distinguished alumnus Shri Arjun Malhotra in the name of Late Professor M N Faruqui, also an alumnus and former faculty of IIT Kharagpur. It facilitates student innovations projects. Interdisciplinary student teams being supported by this centre with approved and projects are expected to come up with end-use products application which will be taken for real-life tests by the

project teams as an

innovative product.

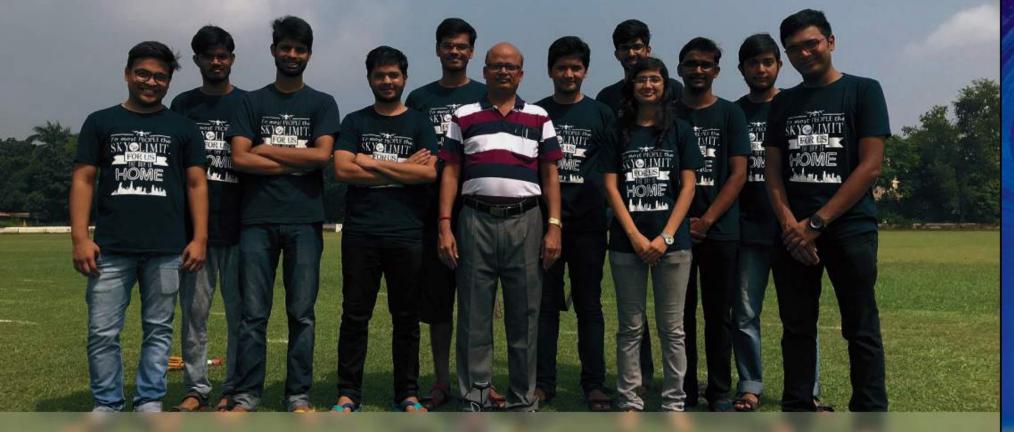


for more details scan this QR









#### **AERIAL ROBOTICS KHARAGPUR (ARK)**



Project Description: ARK aims to develop a flexible aerial robotics framework which can be easily used to control aerial vehicles. Eventually, they want to move to multiple decentralised aerial robot swarms in an outdoors setting. Currently, they have designed an architecture for IARC which we plan to optimise iteratively for participation.

Autonomous Flying Vehicles: They aim to move the state-of-the-art in aerial robotics forward. Their drones, when ready, would be capable of autonomous flight, localization in GPS denied environments, tracking and interacting with mobile ground robots as well as other drones, and much more!



For more details scan this QR

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International Aerial Robotics Competition: IARC is the longest running collegiate aerial robotics challenge in the world. Entering its third decade, the competition continues to tackle challenges that are currently impossible for any flying robots owned by government or industry. They aim to participate in its next iteration.



**GROUP (KRSSG)** 

Kharagpur RoboSoccer Students' Group (KRSSG), is a research group comprising of ardent robotics technocrats across different departments and working together to build autonomous soccer playing robots, under the collective guidance of professors from the Departments of Computer Science, Electrical and Mechanical Engineering. The research objective of the group is to build and study cooperative multi-agent systems in highly dynamic adversarial environments. KRSSG participates in two international competitions FIRA and RoboCup, and works on 3D simulation, autonomous wheeled robots and humanoid robots. They bagged the Bronze Medal in the MiroSot league of FIRA World Cup 2015 held in South Korea. In their latest participation in RoboCup 2018, Canada we stood 2nd in the Skills Tournament of 3D Simulation League. KRSSG is the first Indian team to have participated in RoboCup and notably the only full undergraduate team in the SSL and 3D Simulation Leagues, among 30 other teams, which participate





For more details scan this QR





AGV: activity for design Team implementation of autonomous ground vehicles. The team has designed, fabricated and operated autonomous vehicles with multiple sensors, data processing, incorporating and fusion, sophisticated control steps. The team has participated in various competitions in India and abroad. It is indeed a matter of pride to note that Team AGV has secured the second position in the 26th International Ground Vehicle Competition (IGVC) held at Oakland University in Rochester, Michigan, USA, from June 1-4, 2018. This event was organized by the Association of Unmanned Vehicle System International (AUVSI)



For more details scan this QR

Team KART is the student research group at IIT Kharagpur and the official Formula Student team of the institute. It is a sponsored project under the Department of Mechanical Engineering focusing on developing formula-style race cars. Since their inception, in the past 15 years, they have successfully manufactured and tested 8 Combustion Cars, improving the designs with each new one. With these cars, TeamKART represents IIT Kharagpur in various National and International Formula Student competitions. The team has participated in 9 National and International Competitions, including Formula Student UK at the iconic Silverstone Circuit. The most recent car, K6, was the Overall Winner at Formula Bharat Virtuals in 2021. Considering the future of the Automotive Industry and focus towards Sustainable Mobility, the team is working towards Designing and Manufacturing their first Electric Race Car, The KE-1.





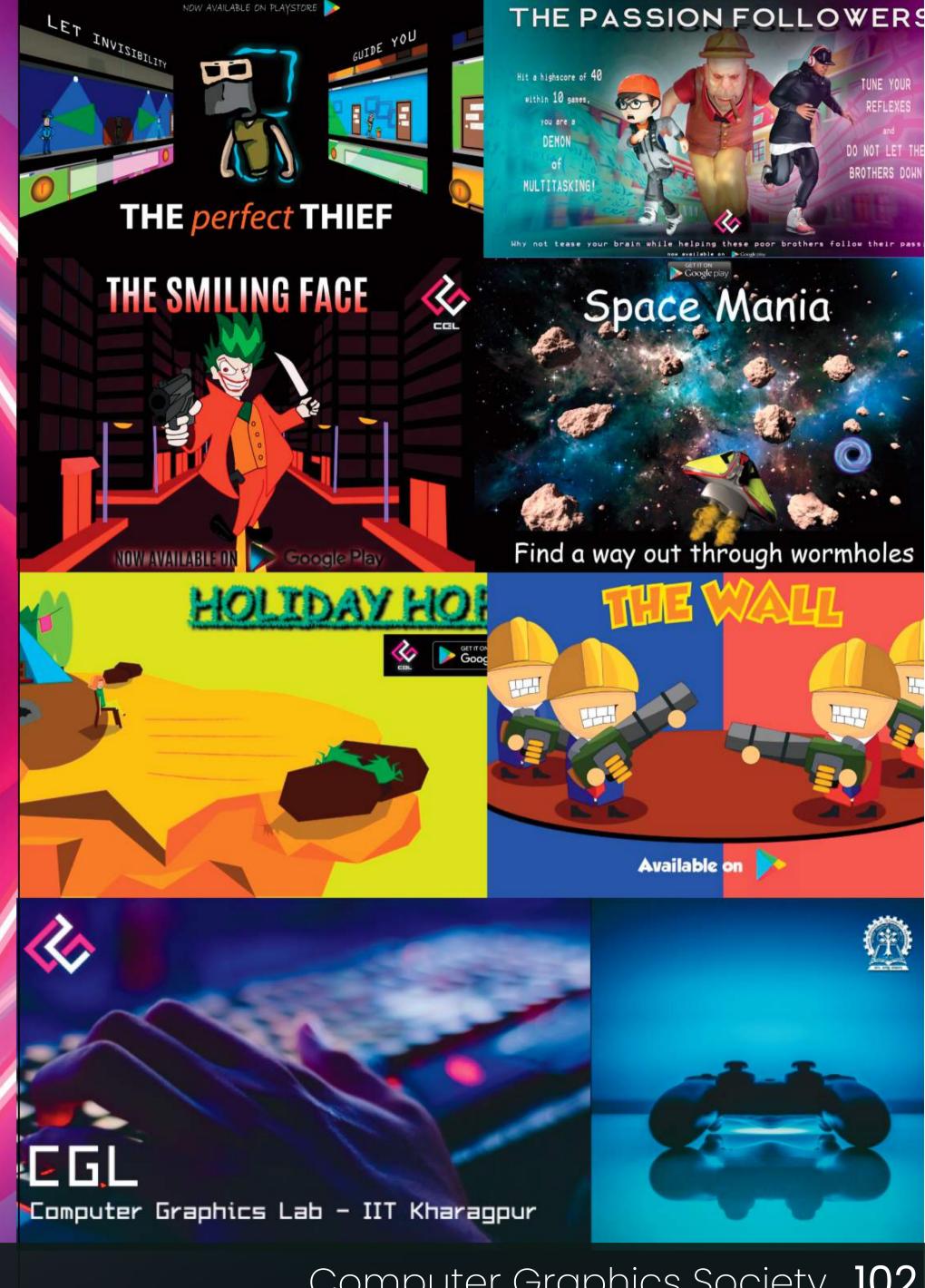


#### **COMPUTER GRAPHICS SOCIETY**

At the Computer Graphics Society-IIT Kharagpur, work is done on the technology of the future. They are a group of students passionate in the development of games, graphics and technologies that they believe will form the cornerstone for the next paradigm shift. From their humble beginnings as a two man (Sudeep Sharma, Jeevankur T) Game Development Studio just a few years ago, CGL have metamorphosed into a multi-faceted organisation driven to greater achievements, fueled by their ambition.



For more details scan this QR





#### ILLUMINATION

Illumination is a unique way of celebrating Diwali at IIT Kharagpur. A one-of-a-kind culture that is very sacred to every KGPian. In this, students of each Hall of Residence come together to lighten up thousands of diyas to showcase a pictorial representation. Rangoli is a mural art encompassing hundreds of square feet filled with colours, giving pure blissful eyesight while conveying a deep message.

But Illumination and Rangoli are not just mere celebrations, these are the events when all students of a Hall come together, displaying unwavering unity and competing with the fellow halls. The halls which outperform others and make the best of Illumination and Rangoli are awarded and announced by TSG.









# Essential Contact Information

(For internal phone numbers please prefix **03222** as the STD Code and an additional **2** when calling from a mobile phone)

#### Student's Representatives



Samarth Singh, Vice-President, TSG	80041 25928
JSR Sujit, General Secretary Students' Welfare	91335 35913
SV Nikhita, General Secretary Students' Welfare	83318 99522

#### Administration



Dean, Student Affairs	82038_•
Secretary to Dean, Student Affair	s 82042 <sub>•</sub>
Academic (UG) Section	82074; 82079_
Office, Career Development Cent	re 82231_•
Office, Enterprise Resource Plan	ning (ERP) 81016; 69623
Office, Central Library	82430
Office, Computer & Informatics (	Centre (CIC) 82360

#### Academics



Office, Aerospace Engineering		82241
Office, Agricultural & Food Engineering 82243		82243
Office, Architecture & Regional Planning 8224		82245
Office, Biotechnology		82247
Office, Center for Educational Technology		82259
Office, Centre for Railway Resea	arch	82400
Office, Centre for Theoretical S	tudies	81645
Office, Chemical Engineering		82249
Office, Chemistry		82251
Office, Civil Engineering		82253
Office, Computer Science & Engineering 82255		82255
Office, Cryogenic Engineering		82257
Office, Electrical Engineering		82261
Office, E & E C Engineering		82263
Office, G S Sanyal School of Te	lecommunication	82265
Office, Geology & Geophysics		82267
Office, Humanities & Social Sci	ences	82269
Office, Industrial & Systems Eng	gineering	82271

Office, Materials Science		82273 •
Office, Mathematics		82275 •
Office, Mechanical Engineering		82277 •
Office, Metallurgical & Material	s Engineering	82279 •
Office, Mining Engineering		82281 •
Office, Ocean Engineering & Na	val Architecture	82291
Office, P K Sinha Centre for Bio	Energy	82283
Office, Physics		81980
Office, Rajendra Mishra School	of Engineering	•
Entrepreneurship		81092
Office, Rajiv Gandhi School of I	ntellectual Property	
Law		82237
Office, Ranbir and Chitra Gupta	School of	
Infrastructure Design & Manage	ement	82235
Office, Reliability Engineering		82289
Office, Rubber Technology		82291
Office, Rural Development		82293
Head, School of Bioscience		83300
Head, School of Energy Science	e & Engineering	83088

Head, School of Environmenta	I Science and
Engineering	83702
Office, School of Information	Technology 81440 •
Office, School of Medical Scie	nce & Technology 82220
Head, School of Nanoscience	& Technology 83838
Office, School of Water Manag	ement 82212_•
Office, Vinod Gupta School of	Management 82295
Office, Centre for Ocean, River	s, Atmosphere and
Land Sciences (CORALS)	82207
Amenities	
Prof-In-Charge, Guest Houses	83377
Reception, New Guest House	82800_•
Quick Response Team	81002 / 81003
Local Police (Hijli Town Police)	88060
Fire Emergency	55709
Emergency, BC Roy Hospital	82630
Office, BC Roy Hospital	82602
Prof-In-Charge, BC Roy Hospit	al 83602
Office, Sanitary	82730
Office, Security	82741

Hall Administration	
Woman Helpline	81010
Counselling Centre	83602, 81173, 21174, 81108

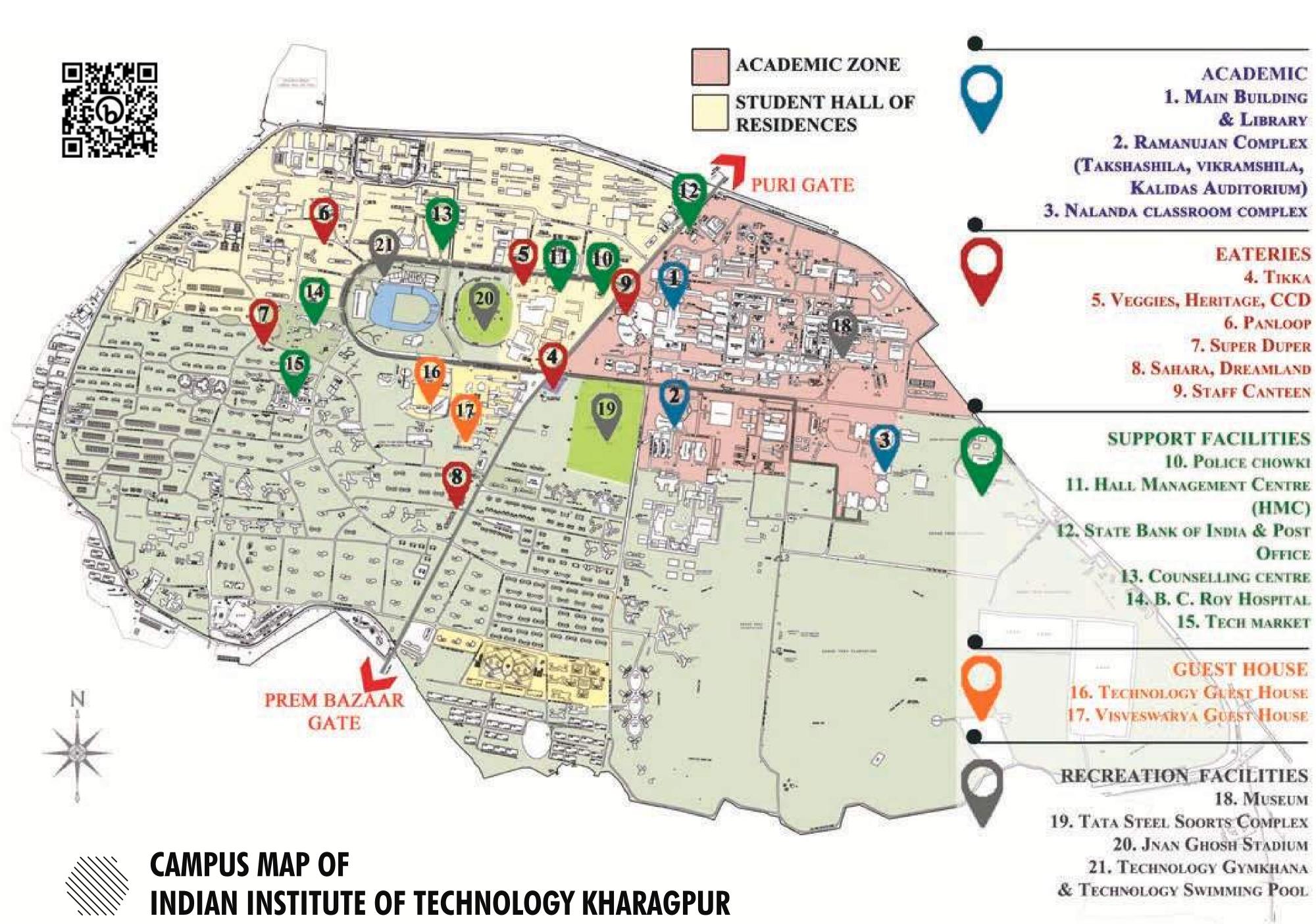
Hall Administration	
Pt. Madan Mohan Malviya Hall	81241
Lal Bahadur Shastri Hall	81265
Gokhale Hall	81118
Sister Nivedita Hall	81164
Hall Management Center	81102

<u>www.iitkgp.ac.in</u> **Communication Directory** Please visit

#### http://www.iitkgp.ac.in/files/comdir.pdf

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- This booklet is a compilation of information from various sources such as the official website of IIT Kharagpur, Why IIT KGP, various departments, and entities of the Institute etc.
- This booklet is made with the intention to provide convenience to the new students arriving at the institute and to give them a basic orientation of various relevant aspects. The information is not limited to the content of this booklet only, for further/detailed information various web links has been provided in the booklet as and when required. It is encouraged to visit various web links and go through the details or contact relevant Institute officials or faculty advisors.



#### **FAQ**

At the commencement of each semester, after successful fee payment, registration can be done in ERP -> Academic -> UG -> Student Academic Activities (UG). The box beside EAA must be ticked (if present), and applications for breadth courses and additional courses can be done on the same page. After that, select Save/Confirm.

How to apply for a prerequisite waiver?

Go to ERP -> Academic -> UG -> Student Academic Activities (UG) -> Apply for prerequisite waiver.

How to avail KGP Library resources?

It has been explained in (www.library.iitkgp.ac.in)



Whom to mail when the request under "Various Request Processing (Fees Revision)" is not being executed?

Use the ERP complaints box. Else mail the Academic

On uploading a new family income document leading to a reduction of fees, if the approval comes after fee payment for that semester (based on previous family income), is there a procedure for the excess amount to be refunded?

 It will automatically be refunded to your ERP fees portal.

 It will be adjusted in next semester's fees, but if the amount is needed immediately, mail it to the accounts section, Assistant Registrar (ullas@adm.iitkgp.ac.in)

Q What effect does an average to bad Additional CG have during placements?

There would be no effect.

Section.

# Credits

# Design

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Bhuvan Raj Guguloth
Shahid Mollick
Rahul Ranwa

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#### Photo

Click KGP Unsplash Freepik