



## **RANBIR AND CHITRA GUPTA SCHOOL OF INFRASTRUCTURE DESIGN AND MANAGEMENT**

**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR**

<https://www.rcgsidm.com/>

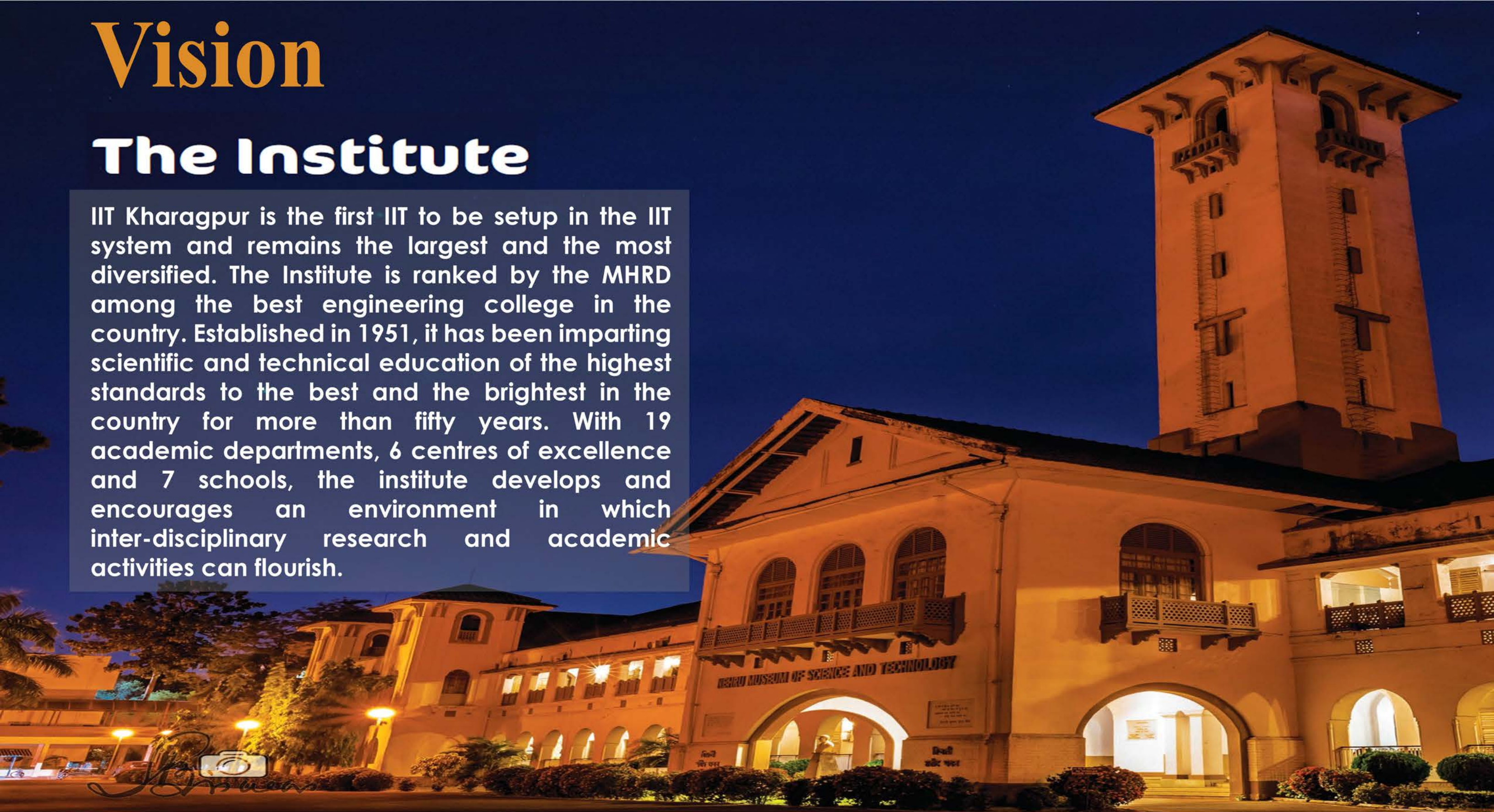
<http://www.iitkgp.ac.in/departments/ID>



# Vision

## The Institute

IIT Kharagpur is the first IIT to be setup in the IIT system and remains the largest and the most diversified. The Institute is ranked by the MHRD among the best engineering college in the country. Established in 1951, it has been imparting scientific and technical education of the highest standards to the best and the brightest in the country for more than fifty years. With 19 academic departments, 6 centres of excellence and 7 schools, the institute develops and encourages an environment in which inter-disciplinary research and academic activities can flourish.



## The School

To develop outstanding professionals capable of designing and delivering quality infrastructure projects efficiently and effectively with a comprehensive and fast-track approach to complement the Government and the Industry in shaping country's infrastructural development through state-of-the-art knowledge base, research, consultancy and active collaboration.





## About IIT KGP

IIT Kharagpur stands dedicated to the service of the nation, ever since its inception in 1951 as a part of Nehru's dream of a self-sufficient India. It is the first IIT to be set up and has been recognised as an Institute of National Importance in 1956.

Every year it opens its doors to students from across the nation to train their wings to fly high in a miscellany of subjects ranging from engineering, science, management, law, architecture, humanities etc. The bar of excellence raises itself every passing year and institute has grown to become one of the most coveted technical institutes in our country.

## About RCGSIDM

The School was established in year 2008 nurturing a vision to produce protean professionals for booming infrastructure sector in India. It accepts students from diverse disciplines like Architecture, Civil, Electrical and Mechanical Engineering and offers course in "Infrastructure Design and Management" to add up to field of Construction and Project Management.

First two semesters of the M.Tech course is designed to train students in fields of Project Management, Real Estate Management, Resource Management, Transportation Planning and Management, Laws pertaining to Infrastructure, Construction Technology, Remote Sensing and GIS, Rehabilitation of Structures etc. Students go out to Industry for a two month internship after their first year for a more hands-on experience. The final year is earmarked for thesis work pertaining to their choice of research area.





**Prof. Bhargab Maitra**  
Head of School  
B.E. , M.Tech , Ph.D

## Message from HoS

Ranbir and Chitra Gupta School of Infrastructure Design and Management has been envisioned by its founders as a roof under which students of various disciplines like Architecture, Civil, Electrical, and Mechanical can pool their skills and work together at making innovative strides in the field of Infrastructure Design and Management.

As another batch of students are graduating from the school, we are confident that they will significantly contribute to their respective fields. The M.Tech course is specially designed to make the students ready to meet the requirements of the current Industry. Over and above being experts in their own chosen field of Architecture or Engineering, they have acquired reliable knowledge that would make them capable to propel growth of Infrastructure sector.

Our School provides training both in the fronts of theory and field work. Hence I share this optimism along with my fellow faculty members that our students would definitely meet the expectations of their potential recruiters.

*Bhargab Maitra*





## Approach

Infrastructure Design and Management course aims at a multi-disciplinary approach to handle the issues of our infrastructure sector rather than the statutory individualistic outlook. The school empowers its students to handle challenges of managing an infrastructure projects through courses that are regularly updated to keep up with times.

## Research – Oriented Study

The semester courses also provide enough choice of study for those students who wish to aid industry through their research. The projects school receives from industry help chisel perspective of the students to exact scenario on ground.

## Industry Aligned Pedagogy

Regular seminars and invited lectures are held to keep them abreast with new developments in their respective field across the globe. Internship and field trip opportunities are also provided to engage students for practical application of subjects. The continuous industry interaction along with a deep understanding of subject, propels the capability of students to work effectively in the infrastructure and management sector.

## Foreign Exchange

Every year students from the school qualify for the DAAD scholarship to work for their research work in Germany and get international exposure and guidance to add up to the research work done here.



# Why Hire Us?

## OUR GRADUATES WORK IN:



**PLANNING & DESIGN**



**PROJECT MANAGEMENT**



**PROJECT FINANCE AND  
VALUATION**



**BUSINESS DEVELOPMENT**



**CONSTRUCTION  
MANAGEMENT**



**REAL ESTATE /ASSET  
MANAGEMENT**



**SUSTAINABILITY**



**GEOGRAPHIC  
INFORMATION SYSTEM**



**CORPORATE SOLUTIONS  
CONSULTANCY SERVICES**

## BEST FACILITIES

The School has initiated and developed 3 State-of-the Art Labs namely Social Infrastructure, Physical and Smart Infrastructure, and Advanced GIS Infrastructure Simulation, where many students are working and enriching their research processes.

## LEGACY

Since its inception in 2008, RCGSIDM has collaborated with various personnel from corporate sector and foreign universities like MIT, and University of Waterloo, USA enhance the learning experience of the students through workshops, guest lectures and, interaction sessions, where industry experts and partners impart valuable field knowledge to the students.

## TRAINED BY THE BEST

The School being Inter-disciplinary supports a unique style of education facilitating collaboration and innovation among students from various disciplines with wide variety of subjects taught by professors from the institute who are very knowledgeable and experts in their respective field.

## COURSE WORK

The coursework includes inter-disciplinary experience in infrastructure Project Planning, Execution, Finance, Management, Facilitation and Operations. In addition to lecture session, real-time learning is developed through involvement of students in various sponsored projects under IIT Research and industrial training program.

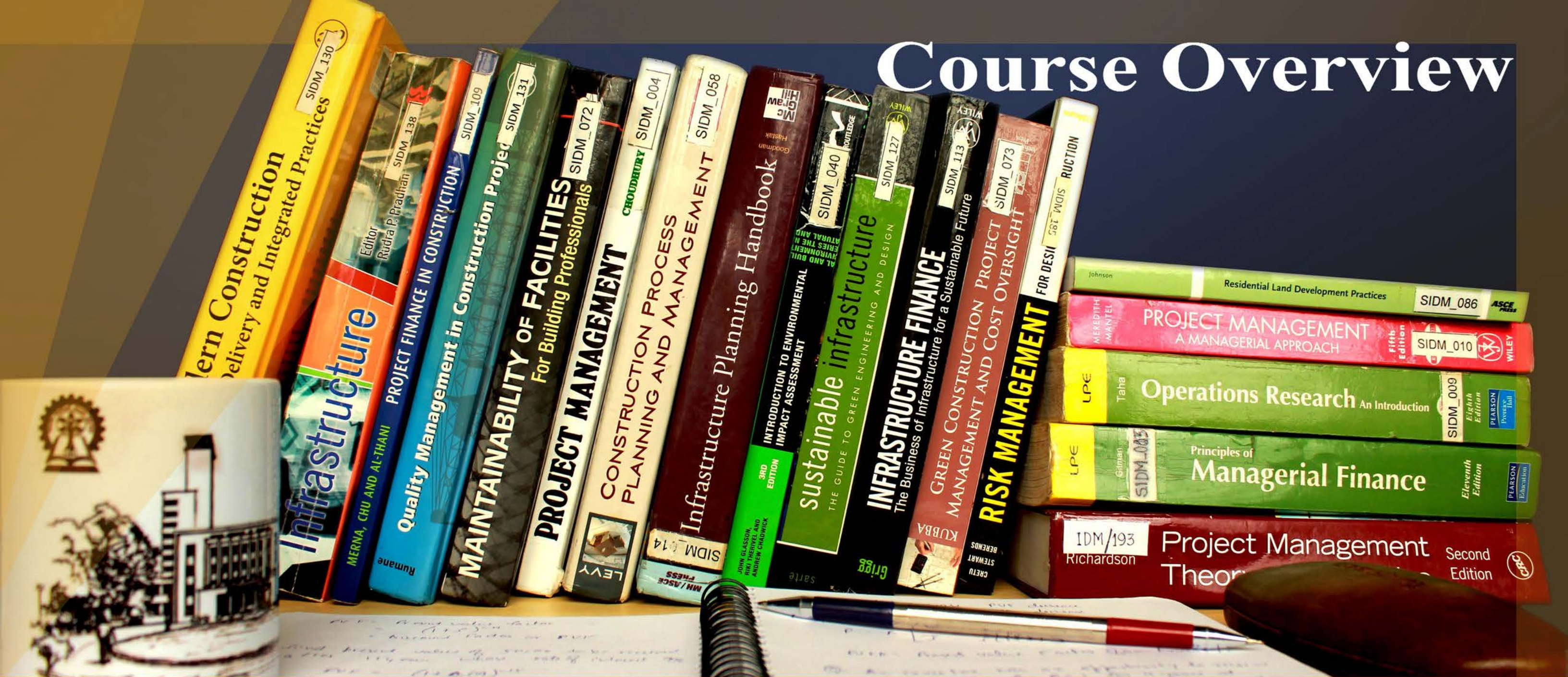
## LAB WORKS

The School provides students with standardized and updated lab exercises to meet the Industry standards. The exercises involved makes them efficient in field to solve real industry problems through software tools.

1. Project Management Lab
2. Industry Oriented Projectwork
3. Virtual Reality Lab
4. Simulation Lab
5. GIS Lab



# Course Overview



## LIST OF CORE SUBJECTS

- SEM 1**
1. Project Engineering And Management (PEM)
  2. Financing Infrastructure Projects (FIP)
  3. Quantitative Methods of Decision Making (QMDM)
  4. Seminar 1
  5. Simulation Lab
- SEM 2**
1. Infrastructure Regulatory Issues (IRI)
  2. Environmental Impact Assessment (EIA)
  3. Seminar 2
  4. Project Management Lab
  5. Virtual Reality Lab

## LIST OF ELECTIVES OFFERED BY THE DEPARTMENT

- SEM 1**
1. Facility Programming & Specialized Building Design (FP)
  2. Construction Technology for Civil Infrastructures (CSC)
  3. Environmental and Natural Resources Driven IM (ENR)
  4. Planning and Development of Road Infrastructure (PDR)
- SEM 2**
1. Building Management Systems (BMS)
  2. Planning, Operation and Management of TF (POM)
  3. Retrofitting and Rehabilitation of Infrastructure (RRI)
  4. Remote Sensing, GIS and Image Processing in UIM (RS-GIS)

## LIST OF ELECTIVES OPTED FROM OTHER DEPARTMENTS

- SEM 1**
1. Urban Transportation Systems Planning (UTSP)
  2. Solid Waste Management (SWM)
  3. Airport Planning and Design (APD)
- SEM 2**
1. Systems Modeling and Analysis (SMA)
  2. Risk and Reliability of Civil Infrastructures (RRCI)

**SEM 3**  
Project 1

**SEM 4**  
Project 2

## Professional Development

The School provides a number of opportunities and facilities in terms soft skills, human relations, team works, leadership, integrity and develops industry ready professionals at the end of the course.

## Case study Approach

Students are exposed to industry through a number of site visits, expert talks, seminars, involvement in live projects, case studies and internships in their areas of interest.

## Elective Selection

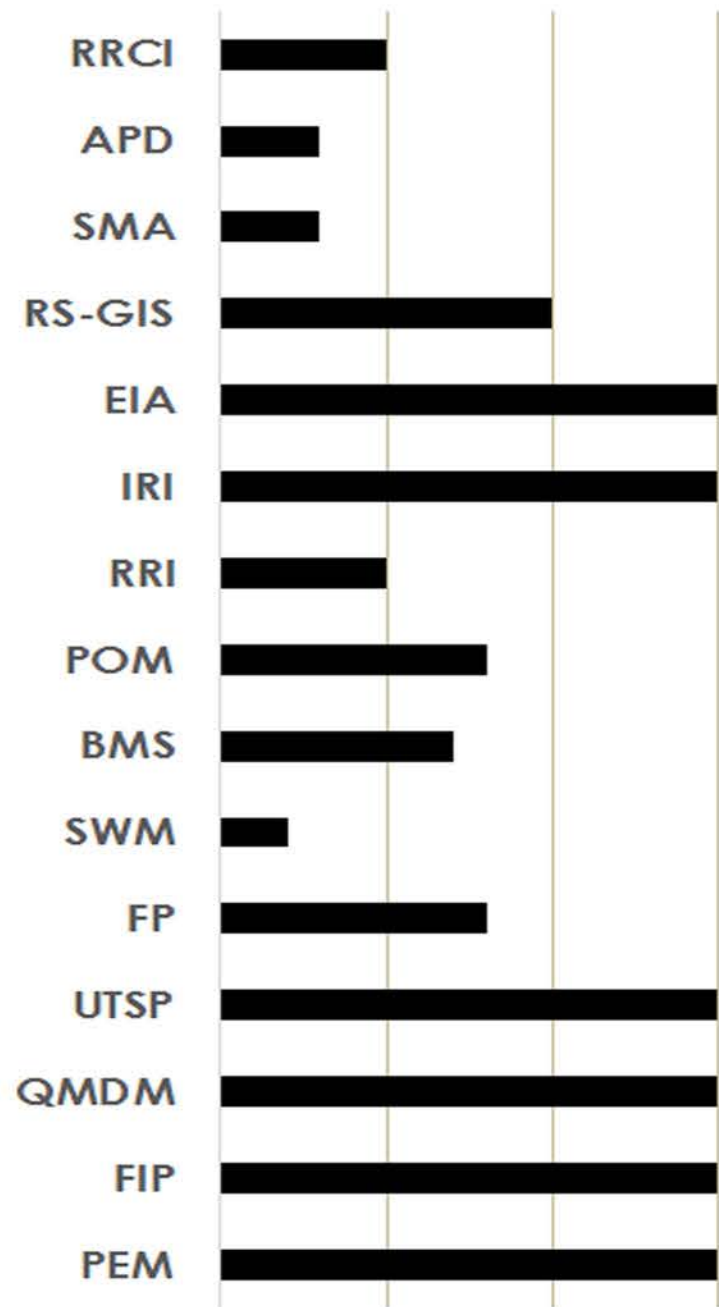
The School provides a variety of choices from the IIT curriculum to choose as electives for study during the first two semester. Subjects can also be audited.



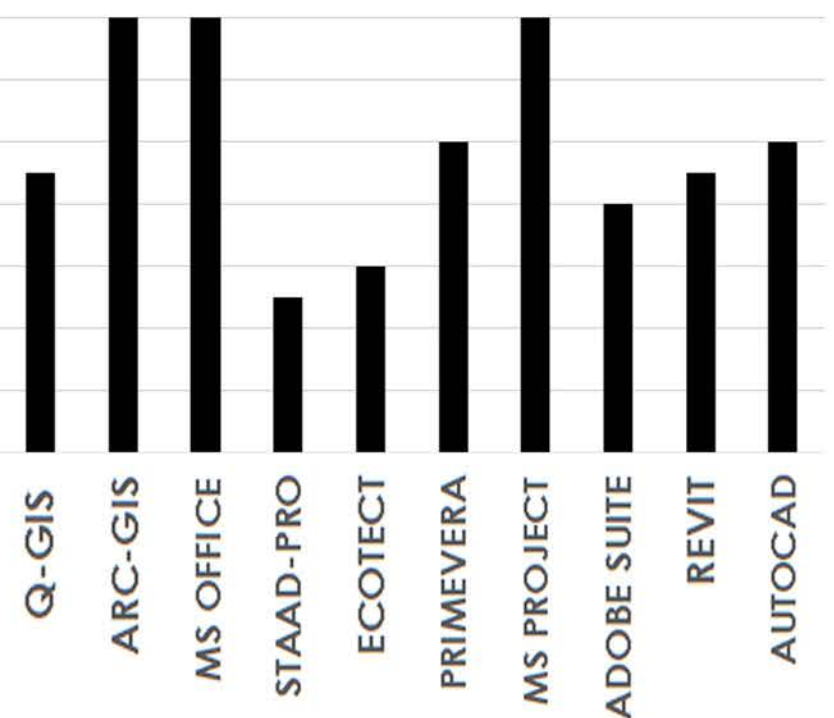


# Student Database

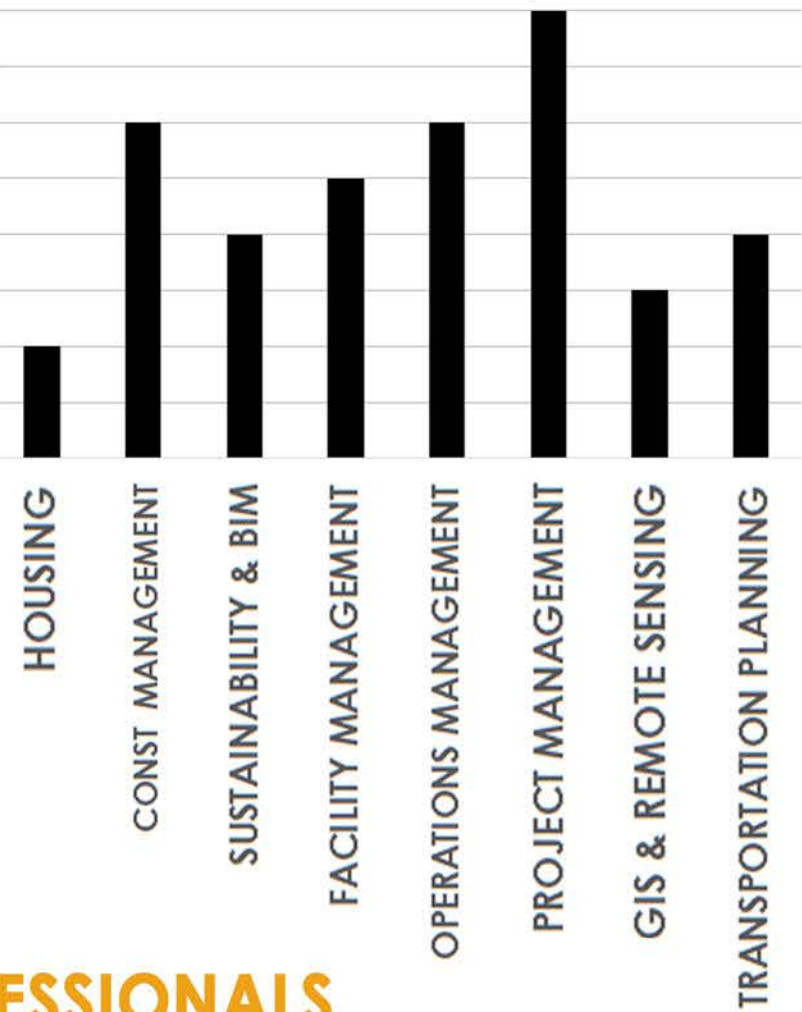
## SUBJECTS ENROLLRD



## SOFTWARE PROFICIENCY



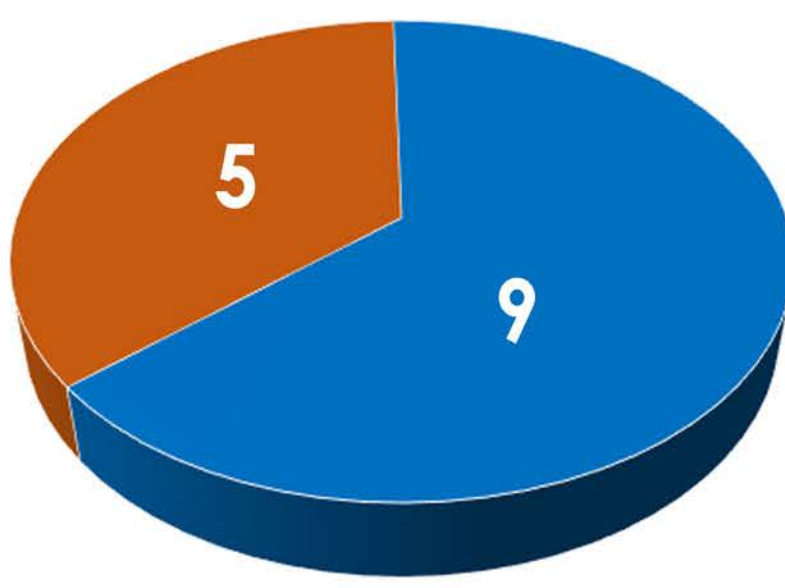
## AREAS OF INTEREST



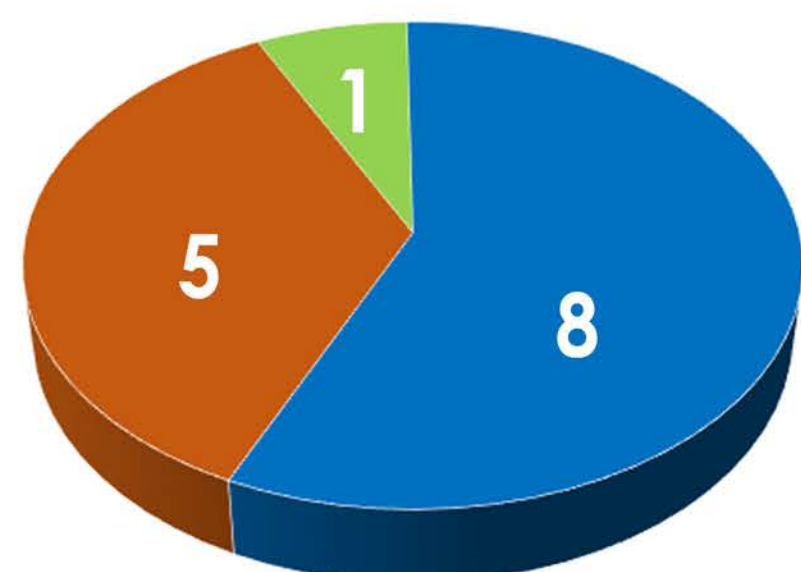
## DESIGNATIONS



## EXPERIENCE



## PROFESSIONALS



■ EXPERIENCED ■ FRESHERS ■ ARCHITECTS ■ CIVIL ENGINEERS ■ MECHANICAL ENGINEERS



# Students Profile (2<sup>nd</sup> year)



## **ANKIT SHARMA**

B.Arch (Faculty of Architecture, Lucknow)  
1 Year Experience

Areas of Interest: Project Management, Facility Management, Sustainability and BIM.

Area of Research: Integrated Design Assistance and Management for Green Projects in India.



## **Eeshan Bhaduri**

B.Arch (IEST, Shibpur)  
Freshman

Areas of Interest: Paratransit, Urban Transportation Management.

Area of Research: Assessing Impact of Service Improvement Measures on Mass Transit Commuter Mode Share in Kolkata.



## **GAURAV SINGH**

B.Arch (Faculty of Architecture, Lucknow)  
1 Year Experience

Areas of Interest: Project Management and Remote Sensing.

Area of Research: Urban Flood Vulnerability Zoning of Delhi using Remote Sensing and GIS.



## **PACIFY P. MARWEIN**

B.Tech, Civil (VSSUT, Odisha)  
Freshman

Areas of Interest: Retrofitting, FRP Analysis and Design.

Area of Research: FRP SiP system as a sustainable construction.



# Students Profile (2<sup>nd</sup> year)



## **PALLAVI SAXENA**

B.Arch (MANIT, Bhopal)  
Freshman

Areas of Interest: BIM, Sustainability and Project Management.

Area of Research: Developing BIM library for facade elements to achieve a net Zero Energy Building (nZEB).



## **PANKAJ KUMAR**

B.Arch (NIT, Tiruchirappalli)  
1 Year Experience

Areas of Interest: Transportation Management and Project Management.

Area of Research: Level of Service of Bicycle and Pedestrian Facilities.



## **PULOK RANJAN MOHANTA**

B.Tech, Mechanical (BPUT, Rourkela)  
5 Year Experience

Areas of Interest: Project Management, Operation Management.

Area of Research: Theory of Constraints.



## **SANGIT BANIK**

B.Tech, Civil (NIT, Agartala)  
Freshman

Areas of Interest: Construction Management and Project Management.

Area of Research: Affordable Housing delivery in India.



# Students Profile (2<sup>nd</sup> year)



## **SHAFIA AHMAD**

B.Arch (Faculty of Architecture, Lucknow)  
1 Year Experience

Areas of Interest: Facility Design and Remote Sensing.

Area of Research: Exploring Linkage between Surface Urban Heat Island and Urbanisation in Kolkata through Spatial Analysis.



## **SHAGUFTA PAL**

B.Arch (IIST, Shibpur)  
Freshman

Areas of Interest: GIS, Housing Affordability, Airport Planning and System Dynamics.

Area of Research: Infrastructure and its Impact on Housing Price Rates.



## **SHEKHAR ANAND**

B.Tech, Civil (AKU, Patna)  
Freshman

Areas of Interest: Data Analytics and Project Management.

Area of Research: Forecasting of Road Crashes using Time Series.



## **SHEMA SARA MATHEW**

B.Tech, Civil (MACE, Kerala)  
1 Year Experience

Areas of Interest: Construction Management and Bridges and Metro construction, safety.

Area of Research: Development of safety evaluation framework for road construction sites.



# Students Profile (2<sup>nd</sup> year)



**VINAY GAUTAM**

B.Arch (Faculty of Architecture, Lucknow)  
Freshman

Areas of Interest: Construction Management,  
and Affordable Housing.

Area of Research: Effectiveness of Rental  
Housing in Affordable Housing Provision.



**MD. WAMIQUE MUJEEBI**

B.Tech, Civil (IIT, Roorkee)  
Freshman

Areas of Interest: Structural Analysis and Design  
and Analytics.

Area of Research: Progressive Collapse of  
Building.



# Advisory Committee

## External Members



**Mr. Ron Gupta**, Founder and Chairman of SIGMA7 Design Group New York, USA; Chairman, Advisory Council.



**Mr. P. K. Sikdar**, Director, International Consultants and Technocrats Pvt. Ltd. New. Delhi; Member



**Mr. R.N. Nayak**, Executive Director, Power Grid Corporation of India; Member



**Mr. J. Ganguly**, Executive Director, L&T Ltd.; Member



**Mr. Dip Kishore Sen**, VP and Head, Transportation and SGB, L&T Ltd.; Member



**Mr. K. Kamesh Rao**, CEO, Airport Development GMR, Hyderabad; Member



**Mr. Kunal Sen**, Executive Director, Peerless Hotels Limited; Member



**Mr. Arunendu Banerjee**, Director, STS Systems and Advisor, Rabindrabharati Univ., Kolkata and Viswabharati, Shantiniketan; Member

## Internal Members



**Prof. Partha Pratim Chakrabarti**, Director, IIT Kharagpur; Principal Convener



**Prof. Subrata Chattopadhyay**, Head, A&RP; Member



**Prof. Prasanta Kr. Das**, Head, Mechanical Engg.; Member



**Prof. Ashok Kumar Gupta**, Head, School of Water Resources; Member



**Prof. Biswajit Mahanty**, Dean (P&C); Member



**Prof. Bhargab Maitra**, Head, RCGSIDM; Member, Civil Engg. and PI, Future of cities, a MHRD Sponsored initiative; Member



**Prof. Siddhartha Sen**, Head, Electrical Engg.; Member



**Prof. Kusam Sudhakar Reddy**, Head, Civil Engg.; Member



**Prof. Arun Chakrabarty**, Head, CORAL; Member



**Prof. Joy Sen**, Former Head, RCGSIDM; Member



**Prof. Jhareswar Maiti**, Head, Industrial & System Engg. Member



**Prof. Khushal Vibhute**, Dean, RGSOIPL; Member



# Faculty Info

## Core Faculty



### Dr. Arkopal Kishore Goswami

Assistant Professor

B.Sc. (Engg.), Civil Engg (NIT Jamshedpur);  
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### Dr. Swati Maitra

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### Dr. Bharath H Aithal

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### Dr. Ankhi Banerjee

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## Head of The School



### Prof. Bhargab Maitra

Head and Joint Faculty (Professor)  
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## Joint Faculty



### Prof. Joy Sen

Former Head and Professor  
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Min: TSC-DAT (ISU-UNDP);  
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### Prof. Uttam Kumar Banerjee

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## Uday Agnihotri Chair Professor



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**Prof. M. Ramgopal**, Mech. Engg.  
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# School Activities

## Talks



## Recent Guest Lectures

- 1. TOPIC:** Guest lecture on Smart Cities  
**SPEAKER:** Mr. Rohit Anand, IIT Kgp alumni on 13 October, 2017.
- 2. TOPIC:** Integrated Infrastructure Management- An Indian Edge  
**SPEAKER:** Mr. Bhaskar Nath, consultant at LionSign Consultants Kolkata on 6 October, 2017.
- 3. TOPIC:** Interactive session on Road safety  
**SPEAKER:** Mr. Piyush Tiwari, Founder, Save Life Foundation on 8 September, 2017.

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**TOPIC:** Social-ecological system resilience

**SPEAKER:** Dr. Prateep Nayak; University of Waterloo, Canada on 08 Nov 016



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**TOPIC:** Modern Indian Architecture

**SPEAKER:** Dr. Peter Scriver & Dr. Amit Srivastava; Professors, University of Adelaide, Australia on 02 March 2016

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**TOPIC:** The Trans-formative Urban Project: Operative Frameworks and Approaches in Monterrey, Mexic

**SPEAKER:** Clayton Strange-Lee; Teaching Associate and Druker Traveling Fellow, Graduate School of Design, Harvard University on 03 Aug 2016



# Talks

**TOPIC:** Urbanization and Green Infra Initiatives

**SPEAKER:** Prof. Mahalaya Chatterjee; Director, Centre for Urban Economic Studies; Chairperson, Undergraduate Board of Studies in Economics, University of Calcutta on 11 February 2016



**TOPIC:** Overview of IoT and Architectural considerations

**SPEAKER:** Mr. Prateep Misra; Head, Tata Consultancy Services, Smart IT and IoT solutions division on 10-11 November 2016



**TOPIC:** Regional Infrastructure Planning Systems

**SPEAKER:** Dr. Sudeshna Ghosh; PhD, Assistant Professor, Department of Geography and Regional Planning, Indiana University of Pennsylvania, USA on 01 Jan 2016



**TOPIC:** Eco-sensitive Infrastructure and its pre-requisites - A case of Sundarbans

**SPEAKER:** Dr. Jayanta Basu; Faculty, Calcutta University; Environment Correspondent & Columnist, The Telegraph, ABP Publications on 09 May 2016





# Events



**EVENT:** 3rd international Symposium on Water Urbanism and Infrastructure Development in Eco-Sensitive Zones.

The school had organised its 3rd International Symposium in The Hyatt, Kolkata in a joint venture with Columbia University, New York on 6-7 January 2017. Many reputed speakers, scholars, and personalities from various fields were part of the event.

**EVENT:** International Seminar at WBNUJS (Juridical Sciences), Salt lake, Kolkata. Seminar organized by Asian Institute of Public Policy and Development Studies and GSM, Kyoto University Japan.

Prof. Joy Sen, Prof. Arkopal K. Goswami on 15 Nov 2016



**EVENT:** UK-India Joint Network on Sustainable Cities and Urbanization in India, IHC New Delhi

Prof. Bhargab Maitra, Prof. Arkopal K. Goswami, Prof. Bharath Aithal on 26 Sept 2016



**EVENT:** 2nd International Symposium on Livable Habitat & Sustainable Infrastructure

The school had organised its 2nd International Symposium in The Hyatt, Kolkata. Many eminent Speakers and personalities from various fields were invited to grace the occasion.

**DATE:** 01-02 Jan 2016



**EVENT:** Inauguration of RCGSIDM in the new Twin Science Block

The school was shifted to the new Sir J.C. Bose and Acharya P.C. Ray Twin Science Block and is now housed at the 2nd and 3rd floors of the building and was inaugurated by its patron Mr. Ranbir Gupta and the Director of IIT Kharagpur Prof. Partha Pratim Chakraborty, in the presence of the faculties and students.

**DATE:** 05 Jan 2016



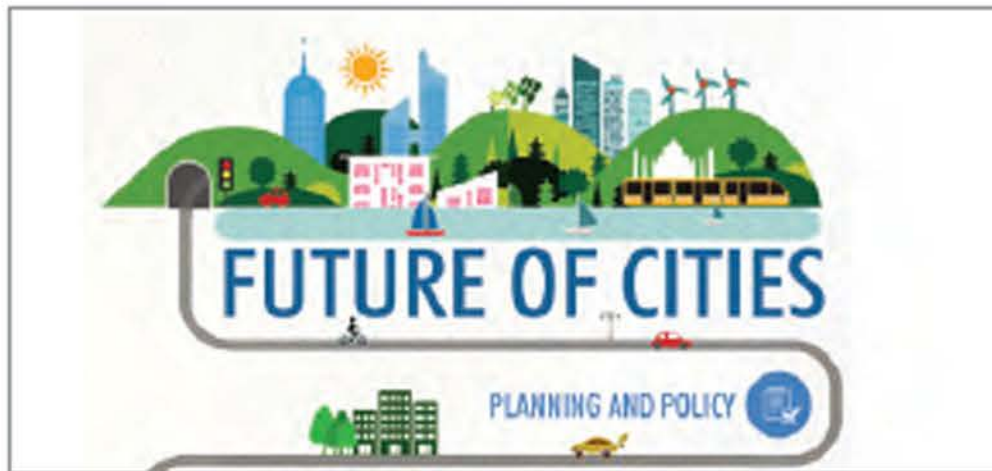


# Projects

The school is closely interlinked with two major 'Mega Projects' sponsored by the Ministry of Human Resources Development (MHRD), Government of India.

## FUTURE OF CITIES

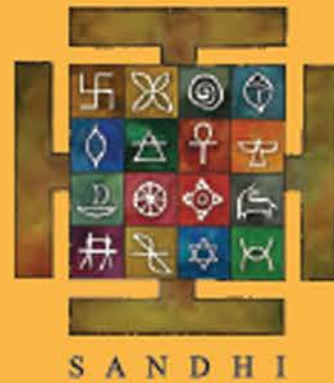
<http://www.facweb.iitkgp.ernet.in/~foc/>  
Principal Investigator: Prof. Bhargab Maitra & Prof. Joy Sen



## SANDHI

Creative Economy and Urban Engineering  
Revivals Projects under 'SandHI' – a Science  
Heritage Interface

Initiative [www.iitkgpsandhi.org](http://www.iitkgpsandhi.org)  
Principal Investigator: Prof. Joy Sen



Varanasi 08 MICRO PHASE II PROJECTS in  
collaboration with IIT BHU and Varanasi Nigam  
(2016-18)

Principal Investigator: Prof. Joy Sen

## UCHHATAR AVISHKAR YOJANA (UAY)

A MHRD, GoI initiative,  
Principal Investigator: Arkopal Kishore Goswami

- UAY aims to bridge the gap between Academics and the practical working skills with Academia - Industry interface
- "Smart & Integrated Pedestrian Network Design" proposal submitted by RCGSIDM was accepted and will be funded under this scheme.
- "Smart & Integrated Pedestrian Network Design" will be a Collaborative project by: Curtin University, Australia; IIT-BHU Varanasi; IIT Kharagpur; Nikken Sekkei Research Institute, Japan; GMR Group, India.

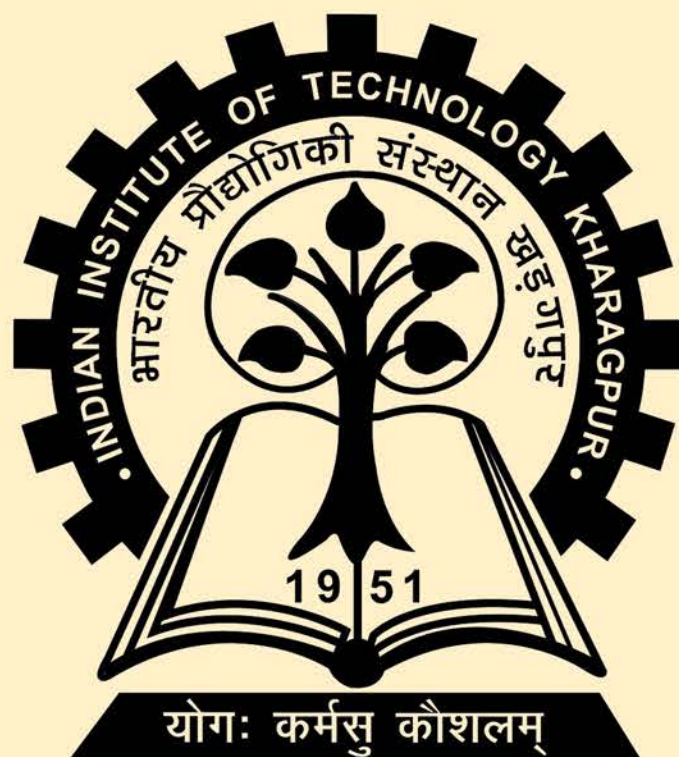
# Our Recruiters



*The sensible side of luxury*







**RANBIR AND CHITRA GUPTA SCHOOL OF  
INFRASTRUCTURE DESIGN AND MANAGEMENT**

**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR**

<https://www.rcgsidm.com/>

<http://www.iitkgp.ac.in/departments/ID>

## **Contact:**

### **Head of the School:**

#### **Dr. Bhargab Maitra**

Professor and Head (RCGSIDM)

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