



Indian Institute of Technology Kharagpur (IIT Kharagpur)

About IIT KGP and the CSR opportunities

The objectives of Indian Institute of Technology Kharagpur (IIT Kharagpur), located in the District of West Midnapore in the State of West Bengal, India, include:

- To provide broad based education where students are urged to develop their professional skills.
- To draw the best expertise in science, technology, management and law to impart overall training to students.
- To incubate a spirit of entrepreneurship and innovation in students.
- To undertake world class research in areas of national and global importance.
- To provide technical services and support to industry, government and society in relevant areas.

IIT Kharagpur, the largest and oldest IIT, is a confluence of world class multidisciplinary courses, giving global exposure in academics and research, scope in entrepreneurship and best placement. The institute has 19 Departments, 12 Schools and 8 Centres of Excellence. Additionally there are more than 25 R&D units. Academic programs are 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.

IIT Kharagpur promotes co-curricular and multidisciplinary programs through innovative research projects. This inculcates among the students research competence and industry-worthiness through sponsored research

- Student Driven Programmes - SAE Formula Car, Boeing Aircraft Design, Robosoccer, Humanoid, Swarm Robotics, Quadrotor Aerial Vehicle, Autonomous Ground Vehicle, Autonomous Underwater Vehicle
- Students' E-Cell: Workshops, Competitions
- Technology Transfer Group: IndAC, Tech Transfer, TEDx

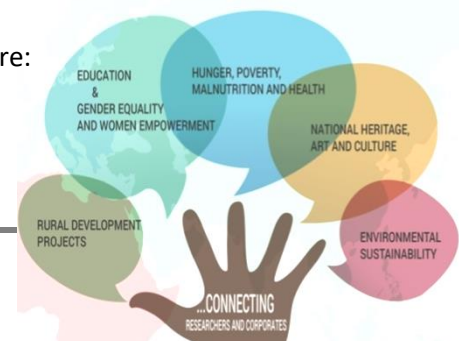
Students and faculty are actively involved in social activities through National Service Scheme (NSS)

- More than 1000 under-graduate students and 16 faculty members and officers donate ~5 lakh man-hour every semester in developmental initiatives in 25 villages and low-income urban neighborhoods around IIT Kharagpur



The broad areas in which majority of our CSR Projects aligned are:

1. Hunger, Poverty, Malnutrition and Health
2. Education
3. Rural Development Projects



4. Gender Equality and Women Empowerment
5. Environmental Sustainability
6. National Heritage, Art and Culture

Our major activities in societal development projects are through our mega projects, centers and deployable individual projects.

Mega Projects:

- Scientific Approach to Networking and Designing of Heritage Interfaces (<http://www.iitkgpsandhi.org>)
- Signals and Systems for Life Science (<http://signalsystemsforlifescience.in>)
- Sustainable Food Security through Technological Interventions for Production, Processing and Logistics (<http://sustainablefoodsecurity.in>)
- Future of Cities : Enhancing Urban Life in India (<http://www.facweb.iitkgp.ernet.in/~foc/>)

Centers in IIT Kharagpur for Socially Relevant Initiatives:

- Rural Development Centre
(Head Prof. Virendra Kumar Tewari)

The centre has a strong foot in the rural Indian perspective covering district-based regional development schemes in many areas like Intensive Crop Farming, Forestry, Horticulture, NTFP-based crafts, Women and Child Welfare programmes etc.

- Design and Innovation Centre for Rural Technology
(Principal Investigator, Prof. P.B.S. Bhadoria)

The objective is to upgrade and transfer rural technology through NGOs. The group has 40 NGOS covering Eastern India

Sponsor: PSA, Gol

- School of Medical Science and Technology
(Head: Prof. Suman Chakraborty)

It is a platform for interdisciplinary teaching and research in the field of Medical Science & Technology, which can lead to a better integrated healthcare delivery system.

For more information, visit: <http://www.smstweb.iitkgp.ernet.in/>

- Unnat Bharat Cell

Unnat Bharat Cell has been set up as a part of Govt. of India's Unnat Bharat Abhiyan, with a view to bring about transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India. The Cell is a consortium of

- National Service Scheme (NSS) unit,
- Rural Technology Action Group (RuTAG),
- Rural Development Centre (RDC),
- School of Medical Science and Technology (SMST),
- Advanced Technology Development Centre (ATDC), and
- Department of Agriculture and Food Engineering (AGFE) members.

- Ongoing activities under National Service Scheme (NSS)
(Program Coordinator: Prof. Debasis Roy)

- Income generation
- Vocational training (funded by Society for Self Employment of Unemployed Youth, Kolkata)
- Twelve 144-hour courses on tailoring, mobile phone repair, plumbing, electrical wiring, electrical appliances repair and maintenance, 2- 3- wheeler repair and maintenance
- 30-35 trainees per course
- Development work at public facilities by the trainees
- Nutritional intervention at schools
- Pilot at Malma: 95 kids, 5-12 y; eggs and fruits provided as midday meal supplement over 3 months; malnutrition reduced from ~80 % to ~50 %
- Follow-up: solya cultivation at three primary schools for sustained improvement of children’s nutrition
- Infrastructure
- Road building at Balarampur (2.5 km), Malma (1 km) and Bolla (1 km)

- Agriculture and Food Engineering (AGFE)
(Head of the Department: Prof. Virendra Kumar Tewari)

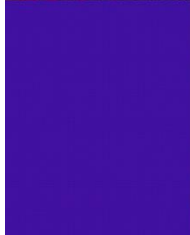
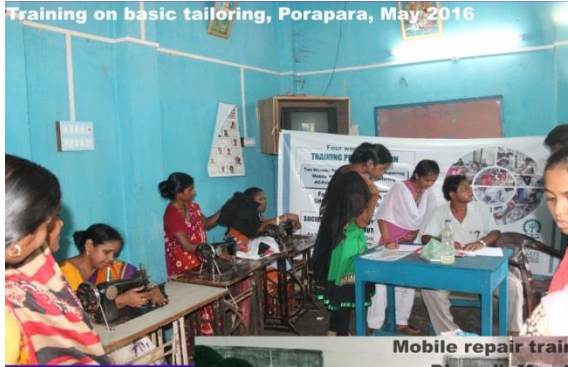
The department is unique among the IITs and carries extensive research and training activities in various areas of socio-economical relevance.

One of the projects that have been widely appreciated is “Formulation and Pilot Scale Unit for Production of Therapeutic Food in Ready-to-Eat Form (TF-RTE) for Management of SAM Children”
By Professor H N Mishra, Department of Biotechnology

For more information, visit : <http://www.agri.iitkgp.ernet.in/>



GLIMPSES OF ACTIVITIES UNDER THESE PROJECTS



Various Skill Development Programmes



Puffed rice making



Puffed rice making



Treatment of pond with clay



Biodiesel production from non-edible oils



Improved device for wet soil preparation



Mechanized production of Indian milk sweets

IIT Kharagpur has recently ventured into aligning with corporates for CSR funding. Some of the corporate CSR initiatives are :

- Community Participation Model for Economic Development and Nutritional Health Management Through Organic-farming And Education (Sponsored By Eastern Coalfields Limited, CIL Executed by: Prof. Khanindra Pathak, Prof. Analava Mitra et al)
- Medical Imaging Informatics for Skin Wound and Malaria Screening (Coordinating Organisation: Charities Aid Foundation, India. Donor Organisation: Microsoft India Development Center Executed by: Prof. Chandan Chakraborty)
- Tracking the antiquity and climate during Bronze age Harappan/Indus Valley Civilisation (IVC) in India using isotope and latest chronological techniques (Sponsored By: Infosys Foundation, Initiated by: Prof. Anindya Sarkar)
- Top International Conferences travel (preferably for women) under CSR Initiative of Infosys Foundation.
- Balmer Lawrie Scholarship under CSR Initiative of Balmer Lawrie & Co. Ltd. Kolkata for SC/ST /PC students.

IIT Kharagpur has introduced another program in the aspect of CSR – Students’ Wellness. This includes the following areas:

- **Facilitating Physically Challenged Persons (PwD / Divyang)**
- **Students’ Wellness and Counselling Services**
- **Pan-IIT Resilience Consortium**

CCC Project Proposal WN/I

1. **Area:** Physical Fitness
2. **Name of the Project:** Facilities for Physically Challenged Persons (PwD / Divyang)
3. **Project Brief:**

I.a. Sports Facility

Requirements: Special Infrastructure and Equipment, Trained specialists, Sports Kiosks with digital and manual games

I.a.i. Budget: Rs. 10 Lakh

I.a.ii. Time for Completion: 1 year

I.b Inter-IIT Sports Meet

Requirements: Travel, accommodation, supplies, equipment, honoraria.

I.b.i. Budget: Rs. 10 Lakh

I.b.ii. Time for Completion: 1 year

I.c. Transportation Facility

Requirements: Assistive Vehicle for transport from Halls to Nalanda, and transport within Nalanda. Opportunities for Toto type service on the floors of Nalanda could be explored. Opportunities for specially retrofitted vehicles for movement of students across the campus for attending classes. These activities could be outsourced to local transport operators.

I.c.i. Budget: Rs. 10 Lakh

I.c.ii. Time for Completion: 2 years

I.d. Integration and Outreach

Requirement: Workshops and Outreach Programs, buddies, scribes, physical therapists, hearing aids, visual aids. Special A-V Facilities for partial disabilities in hearing and vision (blurred). Assigning Buddies for students with partial disabilities in hearing and vision for classroom teaching assistance through a reward based program.

I.d.i. Budget: Rs. 10 Lakh

I.d.ii. Time for Completion: 2 years

4. **Professor(s) In-Charge:** Prof. Saibal Gupta, Professor-in-charge, Persons with Disabilities, Professor, Department of Geology and Geophysics

CCC Project Proposal WN/2

1. **Area:** Wellness
2. **Name of the Project:** Students' Wellness and Counselling Services
3. **Project Brief:**

II.a. Financial Assistance for Rehabilitation and Recovery Program

Requirements: Financial support for travel and on-campus stay by parent or equivalent caregiver, mental health services not covered by insurance, support for loss of employment, Mitra Coordinator for supervised care

Budget: Rs. 10 Lakh

II.b. Grassroots Gatekeeper Program

Requirements: Training, expert visits, outreach coordinator, creative content generation, dissemination, meditation space, meeting space. Alumni / Dept. Senior Mentorship Program for students with academic challenges, reward-based program.

Budget: Rs. 10 Lakh

4. **Time for Completion:** 1 year

5. **Professor(s) In-Charge:** Dr. Sangeeta Bhattacharya, Professor-in-charge, Counselling Center, Professor, School of Medical Science and Technology

CCC Project Proposal WN/3

1. **Area:** Wellness Outreach and Collaboration
2. **Name of the Project:** Pan-IIT Resilience Consortium
3. **Project Brief:**

Requirements: Organizing Events, Sharing of experience and best practices, Inviting Deans, Faculty, counselors, student leaders from various IITs, experts. Travel and hospitality, dissemination.

Budget: Rs. 10 Lakh

4. **Time for Completion:** 2 years
6. **Professor(s) In-Charge:** Dr. Somesh Kumar, Dean of Students Affairs, Professor, Department of Mathematics, Dr. Sangeeta Bhattacharya, Professor-in-charge, Counselling Center, Professor, School of Medical Science and Technology

IIT KGP- Trendsetters in CSR