

DEPARTMENT OF CIVIL ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

ROORKEE - 247 667 (UTTARAKHAND) INDIA

E-Newsletter

Vol. 7

Jul-Dec 2023



FROM THE HoD's DESK



Dear All,

First of all, I wish all a very Happy New Year 2024. It gives me immense pleasure to present before you the activities of the department from Jul 2023 to Dec 2023 through the seventh volume of e-newsletter of the department. I hope that you will find this newsletter informative, and it will provide us the opportunity to know more about the department. It is a humble attempt to stay connected with us electronically.

Thanks

Prof. Praveen Kumar

ACHIEVEMENTS IN BRIEF

1. 9 numbers of Research Projects were sanctioned at a total cost of ₹ 531.04 Lacs
2. A total of 22 students were awarded their Ph.D. degrees.
3. Faculties have published 58 Research Publications in peer-reviewed journals.
4. 410 numbers of Consultancy projects from various government agencies and private organizations were carried out at total value of ₹2861.09 Lacs
5. 2 new faculty member joined the department as Assistant Professor.

AWARDS AND RECOGNITIONS (FACULTY)



Prof. C. S. P. Ojha

- Expert Committee HP flood disaster Management Committee July 2023
- Participated in Hydro-2023 International Conference, held at NIT Warangal, December 21-23, 2023.



Prof. Satyendra Mittal

- Delivered the 12th Prafulla Kumar Annual Lecture on the topic, "SOIL CAN BE DICTATED", organized by the Indian Geotechnical Society (IGS) Kochi Chapter on 14th October 2023. It is a prestigious event of the IGS Kochi Chapter, in which person of national/international caliber delivers annual lecture.
- Delivered the prestigious N.V. Modak Memorial annual lecture in 37th National convention of Environmental Engineers, held in Shimla on 26 October 2023. The topic of his lecture was, "Eco-Friendly and Sustainable Approaches for Landslide and Land Subsidence Management in Hilly Regions". His lecture was widely admired by all present in the convention.



Prof. Narendra Kumar Samadhiya

- Received Indian Society for Rock Mechanics and Tunneling Technology (ISRMTT) Best Paper Award (2019) on the paper entitled, "Three Dimensional Coupled Stress-Flow Analysis of Underground Excavations in Jointed Rock Masses", Jnl. of Rock. Mech. and Tunneling Tech., India, Vol. 25, No.1, pp. 7-20. during INDOROCK 2023, Nov 16, 2023 at CSMRS New Delhi.
- Received IGS-HEICO Annual Prize (2021-2022) for the Best Paper on Rock Mechanics on the paper entitled "Analysis of Shotcrete Lining and Estimation of Support Pressure of Sardar Sarovar Underground Powerhouse Cavern", published in IGJ, Vol. 51 Issue 1, pp. 127-136, during IGC 2023, Dec 14-16, 2023 at IIT Roorkee.



- He was the organizing committee Chairman along with Prof. Mahendra Singh and Prof. Satyendra Mittal in IGC 2023 held at the Department of Civil Engineering IIT Roorkee during December 14-16, 2023.



- Participated in Karnataka Geotechnical Fusion (KGF-2023) during November 04, 2023 at Mysure, Karnataka.



- Participated in EGRWSE-2023 during October 25 - 27, 2023 at Dr B R Ambedkar National Institute of Technology, Jalandhar.



- Participated in 236th Meeting of National Executive Committee of Indian Geotechnical Society during September 30, 2023 and had Academic Interaction with Geotechnical Engineering faculty of NIT Jalandhar.



- Participated in MAHAFEST 2023 during September 12-13, 2023 at MIT Pune. He was the guest of honour in the Inaugural Function.



- Participated in International Conference NESDRI-2023 during September 08-09, 2023 at IPS Academy Indore. He was the Chief guest in the Inaugural Function.

- Participated in 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering 2023 during August 14-18, 04, 2023 at Hilton Astana Hotel, Astana, Kazakhstan.



Prof. Sharad Kumar Jain

- Received the Life-time achievement award from the Indian Society for Hydraulics (ISH) at the Hydro 2023 International Conference, held at NIT Warangal, December 21, 2023
- Participated in the brainstorming session on "Risk Reduction in High Mountain Regions of the Himalaya", Organized by Ministry of Earth Sciences, at National Center for Polar and Oceanic Research (NCPOR), Goa on November 29, 2023.



Prof. Satish Chandra

- Awarded the Prof. S. R. Mehra award by IIT Roorkee on September 04, 2023.
- Delivered a Keynote Lecture on "Cost - Benefit Analysis of Speed Limit Violations" during 7th Conference of Transportation Research Group (CTRG) at Surat, Dec 18-20, 2023.
- Visited CSIR-AMPRI Bhopal on October 30, 2023 and addressed the scientists. The visit was made on the invitation of the Director of the institute to see their work on geopolymers concrete.

Prof. Zulfequar Ahmad

Conferred with the S. N. Gupta Memorial Lecture Award at HYDRO-2023 held at NIT Warangal during December 21-23, 2023. Prof. Ahmad delivered a lecture on Piano Key Weirs: Advancements and Future Research. He received the award from IAHR President Prof. Philippe Gourbesville. Prof. Ahmad also delivered a keynote lecture on Rubber Dam - An Innovative Structure at Hydro-2023.



Prof. Praveen Kumar

Conferred with the Distinguished Alumni Award in the category of Academics and Research during the Alumni Award Ceremony 2023. This award is given by MNIT Jaipur to its Alumni in different parts of world.

Prof. K. S. Hari Prasad

Awarded the Outstanding Teacher Award 2023 (UG Category). The award was conferred to him by Prof. K. K. Pant Director, IIT Roorkee on the occasion of Teacher's Day on September 05, 2023



Prof. P. K. Sharma

Participated in Hydro-2023 International Conference, held at NIT Warangal, December 21-23, 2023.

Prof. Sonalisa Ray

- Selected as Outstanding Young Faculty of IIT Roorkee for the year 2023.
- Nominated as Fellow FraMCoS: International Association of Fracture Mechanics for Concrete and Concrete Structures (IA-FraMCoS).
- Participated Fracture Mechanics of Concrete and Concrete Structures (FraMCoS XI) at Indian Institute of Science Bangalore during September 10-14, 2023



Prof. Kaustav Chatterjee

- Received INSA Associate Fellow 2023 in Engineering and Technology given by Indian National Science Academy (INSA), New Delhi.
- Received Bright Spark Lecture Award 2023 given by International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE).
- Organizing Secretary for Indian Geotechnical Conference, along with Prof. V. A. Sawant, Prof. Ravi S Jakka and Dr. Anindya Pain, held during December 14-16, 2023 at Department of Civil Engineering, IIT Roorkee.

Prof. Raja Chowdhury

Participated in 11th International Conference on Industrial Ecology 2023 (ISIE2023), Leiden, The Netherlands (July 2 - 5, 2023) for presenting his research titled as "Life cycle assessment of Dimethyl ether production from Algal biomass" (Vaibhav Panchore, Raja Chowdhury and Sachin Kumar).





Prof. Amit Agarwal

- Delivered a guest lecture on "Assessment of Driver Behaviour and Safety using Intelligent Transportation System", at Symposium on Simulator Platform for Safe Driving in Indian Road Conditions iHUB Data IIIT Hyderabad, December 2023
- Delivered a guest lecture (remotely) on "Monitoring of Exposure to Air Pollution using Low-Cost Sensors", at Faculty Development Program, NIT Warangal on December, 2023.



Prof. Akanksha Tyagi

Awarded the ISSMGE Foundation travel grant of USD1,250 to attend the 2nd International Conference on Construction Resources for Environmentally Sustainable Technologies (IC-CREST) 2023, in Fukuoka, Japan held on 20-22 November 2023.

Prof. Anumita Mishra

Her paper titled "A Critical Appraisal of Leachate Recirculation Systems in Bioreactor Landfills" authored by Lagudu S. Avinash, Anumita Mishra, Venkata Balaiah Kami, C.S.P. Ojha was selected to be featured in the Announcements: Editor's Choice section of the Journal of Hazardous, Toxic and Radioactive Waste page for July 2023 in the ASCE Library.



Prof. Siddhartha Khare

- Selected as a Visiting Researcher Professor (from 12 June 2023 to 12 August 2023) at University of Quebec at Chicoutimi (UQAC), Canada and received \$4000 fellowship from Center of Forest Research (CEF), Quebec, Canada.
- Awarded prize of \$10,000 for his startup Bhoomicam Pvt. Ltd. For getting selected among the top 5 best startups in the Indian Geospatial Industry under the esteemed GW Startup Catalyst program. This prize money will be used for media, communications, and outreach package.
- Invited to deliver lecture at Department of Bioresource and Engineering at McGill University, Canada on July 11, 2023.



- Chaired and Moderated Technical Session: Data Analytics & Emerging Technologies to "Transform the Future of Indian hashtag Agriculture" during Geosmartindia 2023 Geospatial conference held at Hyderabad International Convention Centre (HICC).
- IIT Bhilai Innovation and Technology Foundation (IBITF) invited Prof. Siddhartha Khare to represent his startup "Bhoomicam Pvt. Ltd." under Agriculture theme during 3rd National Workshop of Technology Innovation in Cyber-Physical Systems (TIPS 3.0) workshop organized by India DST at IIT Kanpur on October 07, 2023.
- Presented collaborative work with Habitat nature based Canadian company during GEOBON2023 Global Conference held in Montreal, Canada, October 10-13, 2023.



Prof. Anjaneya Dixit

Conferred with the "Yongnam Medal and Prize for excellent PhD research in the field of Civil Engineering" by National University of Singapore on December 26, 2023.



Prof. Prakhar Misra

- Participated in GeoSmart India, Hyderabad during October 17-19, 2023.
- Participated in 8th Indian International Conference on Air Quality Management, Bangalore December 4-8, 2023.

PATENTS PUBLISHED



Mr. Dara Singh Vohra, Prof. P. K. Garg and Prof. S. K. Ghosh, have granted patent for their design for the following titles from UK Patent Office:

- "Cutting-edge Rotor Copter Blades for Amplified Thrust and Endurance in Elevated Altitudinal Regimes"
- "Revolutionary Quadcopter Frame Designed to Accommodate a Myriad of Versatile Utility Applications"

Mr. Ayush Kumar Agarwal, Prof. Praveen Kumar, Mr. Harish Kumar and Ms. Manisha Bharti have granted patent titled: Design for Battery Operated Ventilator System from Intellectual Property India.



AWARDS AND NOMINATIONS (STUDENTS)



Ms. Ruma Adhikari a Ph.D. student working under the supervision of Prof. Alok Bhardwaj, Geomatics Engineering Group, received a travel Grant of 2000 USD by IEEE Geoscience and Remote Sensing Society to present the research work entitled "An Index-based flood mapping using stokes parameters of multitemporal SAR images: 2019 Hagibis flood event of Ibaraki, Japan" at IGARSS 2023 conference held at Pasadena, California, USA during July 16-21, 2023.

Mr. Chintada Chandrasekhar and Mr. Rishi Singh Chhabra Ph.D. students working under the supervision of Prof. G. D. Ransinchung R. N. have secured First position in the Poster Presentation for their paper titled "Feasibility of Manufactured Sand in Engineered Cementitious Composites (ECC) for Rigid Pavement Applications" and Third position in the Poster Presentation for his paper titled "Utilization of Polyester Fiber and Reclaimed Asphalt Pavement (RAP) Material in Cement Treated Base (CTB) layer" during the Young Researchers Conclave-2023 held on July 19, 2023 under One Week One Lab Programme (July 16-22, 2023) organized by CSIR-CRRI, New Delhi, India.



Mr. Anuj Nautiyal a Ph.D. student working under the supervision of Prof. Amit Agarwal, Transportation Engineering Group has secured First prize under the "Urban Transportation and Planning" category during the Young Researchers Conclave-2023 held on July 19, 2023 under One Week One Lab Programme (July 16-22, 2023) organized by CSIR-CRRI, New Delhi, India. The title of his work was - "Inferring mobility patterns from smart phone GPS data" .

Mr. Rupam Fedujwar a Ph.D. student working under the supervision of Prof. Amit Agarwal, Transportation Engineering Group has secured Second prize under the "Machine Learning" category during the Young Researchers Conclave-2023 held on July 19, 2023 under One Week One Lab Programme (July 16-22, 2023) organized by CSIR-CRRI, New Delhi, India. The title of his work was - "In-vehicle Occupancy Prediction using Artificial Neural Network Algorithm" .



Ms. Dolonchapa Prabhakar a Ph.D. student working under the supervision of Prof. P. K. Garg, Geomatics Engineering Group was selected as one of the ten students for the Deloitte Work-Studentship Program. The Deloitte organization provides audit and assurance, consulting, financial advisory, risk advisory, tax, and related services to selected clients. Under this program, she will work on the "Real-Time Traffic Assessment Software/algorithm for Bangalore City" project using Google Maps, WAZE, and other software for accurate road mapping for six months under Deloitte.

Mr. Rohit Sharma, Mr. Arnab Chowdhury, Ms. Pritipadmaja, and Mr. Nakshatra Lavaniya Ph.D. students their Team Participant 1499 recognized as one of the 14 "CHAMPIONS" among 5151 participants in the world's biggest geospatial mapping challenge, the "IIT Bombay FOSSEE Mapathon 2023 (Edition III)", A pan-India mapping competition held between February 22 to May 06, 2023.



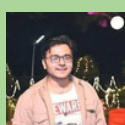
Mr. Abhinav Srivastava, Mr. Aditya Anand, Mr. Utsav Goyal, Mr. Vimal Singh, and Mr. Vishnu Agrahari (B. Tech. Students) have won the competition "Concept Note " on the topic "One-step innovative solution for Cleaning and Filtering the still water of Pishach Mochan Kund at Varanasi" held on July 7, 2023, organized by Varanasi Smart City Limited (VSCL)

Ms. Noopur Srivastava a Ph.D. student working under the Supervision of Prof. Kamal Jain, Geomatics Engineering Group, was awarded the Best Student Paper Award in SPIE Sensors+Imaging 2023 conference on the topic "Dual attention based Deep Learning Approach for Building Segmentation of Remote Sensing Images" held in Amsterdam, Netherlands from September 3-6, 2023.



Mr. Akshay Gupta (leader), Mr. Shreyansh, Mr. Priyanshu Pansari, Dr. Pushpa Choudhary under the supervision of Prof. Pushpa Choudhary has developed a real time lane departure warning system specific for Indian drivers and Indian driving conditions and secured 2nd place with a cash prize of 5 lakh rupees at Road Safety Hackathon 2023 organized by Centre of Excellence for Road Safety (CoERS) at IIT Madras.

Mr. Prabhakar Kumar a Ph.D. student working under the Supervision of Prof. N. K. Samadhiya, Geotechnical Engineering Group, was awarded the Second Honorable Mention Award for the best presentation for the Extended Abstract on "Experimental Study for Determination of Crack Threshold in the Multi Flawed Rock Mass under True Triaxial Loading" at the 1st SLRMES International Conference on Rock Mechanics for Infrastructure and Geo-Resources Development an International Society of Rock Mechanics Specialized Conference 3rd to 7th December 2023, Colombo, Sri Lanka.



Mr. Chindtada Chandrasekhar and Mr. Prakul Dixit Ph.D. students working under the Supervision of Prof. G.D. Ransinchung R.N, Transportation Engineering Group, has awarded the "Best Poster Award" in the category of "Pavement Engineering" for presenting a compelling poster on the topic titled "Engineered Cementitious Composited (ECC) for Rigid Pavement Applications" during the 7th Conference of Transportation Research Group of India (CTRG-2023), December 17-20, 2023, Surat, India.

Ms. Manaswinee Kar a Ph.D. student working under the Supervision of Prof. Manoranjan Parida, Transportation Engineering Group, was awarded TRG's Outstanding Student Paper Award in Transportation Planning for her paper entitled "Estimating Willingness-to-pay of Two-wheeler Drive-alone Users toward Shifting to Park-and-Ride" co-authored by Shubhajit Sadhukhan, Manoranjan Parida and Sanhita Das during the 7th Conference of Transportation Research Group of India (CTRG-2023), December 17-20, 2023, Surat, India.



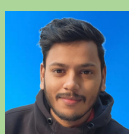
Mr. Hariom Gautam a Ph.D. student working under the Supervision of Prof. Z. Ahmad and Prof. P. K. Sharma, Hydraulic Engineering Group, was awarded Best Paper (First Position) award for the paper entitled "Flow Patterns and Velocity Distribution in Channel with Dense Flexible Vegetation" on the theme 'Fluvial Hydraulics' in the 28th Conference on Hydraulics, Water Resources, River and Coastal Engineering (HYDRO-2023) organized by Department of Civil Engineering, NIT Warangal, under the aegis of the Indian Society for Hydraulics (ISH) during December 21-23, 2023.

Mr. Syed Khateeb Ahmad a Ph.D. student working under the supervision of Prof. Z. Ahmad and Prof. P. K. Sharma, Hydraulic Engineering Group, was awarded Best Paper (Second Position) award for the paper entitled "Quantification of Suspended Sediment Load in Mahanadi basin in Chhattisgarh State" on the theme 'River Engineering' in the 28th Conference on Hydraulics, Water Resources, River and Coastal Engineering (HYDRO-2023) organized by Department of Civil Engineering, NIT Warangal, under the aegis of the Indian Society for Hydraulics (ISH) during December 21-23, 2023.



Mr. MD Masood Zafar Ansari a Ph.D. student working under the supervision of Prof. Z. Ahmad and Prof. P. K. Sharma, Hydraulic Engineering Group, was awarded Best Paper (Second Position) award for the paper entitled "Sediment yield estimation of Seonath river basin using RUSLE model" on the theme Hydraulics' in the 28th Conference on Hydraulics, Water Resources, River and Coastal Engineering (HYDRO-2023) organized by Department of Civil Engineering, NIT Warangal, under the aegis of the Indian Society for Hydraulics (ISH) during December 21-23, 2023.

Mr. Pawan Singh a Ph.D. student working under the supervision of Prof. Saurabh Vijay, Geomatics Engineering Group, received a travel grant from IUGG to support his attendance at the 23rd International Union of Geodesy and Geophysics (IUGG-2023), held at Berlin from July 12-20, 2023. During the Conference he presented his poster titled "Ice Cliff Ablation Rates from Hourly to Daily Time Scales: A Case Study from Machoi Glacier, Western Himalayas."



Mr. Sarvesh Kumar Verma a Ph.D. student working under the supervision of Prof. Saurabh Vijay, Geomatics Engineering Group, received a travel grant of 1000 Euros from IUGG to support his attendance at the 28th IUGG General Assembly, held at Berlin from July 12-20, 2023. During the Conference he HAD given an oral presentation titled "Lake bathymetry using ICESat-2 and multi-mission multispectral remote sensing: case studies from the Indian Himalayas"



Mr. Ravindra Kumar, a PhD student working under the supervision of Dr. Saurabh Vijay, Geomatics Engineering Group, participated in the Himalayan mountain research community through a series of presentations. He was invited to the HiRISK workshop by Himalayan University Consortium (HUC) and ICIMOD (November 2-4, 2023) and the Geo Mountains Workshop by Mountain Research Initiative (MRI) and ICIMOD (November 6-8, 2023) in Kathmandu, Nepal, to share his research work titled "Automated mapping of Glacial Lakes in High Mountain Asia." He further presented his research work at the International Conference on Mountain Hydrology and Cryosphere (ICMHC-2023) organized by IAHS Nepal during November 9-10, 2023.

PRIME MINISTER'S RESEARCH FELLOW (PMRF)

Following Students has been selected in PMRF Scheme:

Name of Student	Group	Supervisor
Aman Garg	Geotechnical Engineering	Prof. V. A. Sawant
Bhavesht Jaykumar Bhambhani	Transportation Engineering	Prof. Satish Chandra
Mohd Mahatab	Structural Engineering	Prof. Rakesh Ranjan
Ruma Adhikari	Geomatics Engineering	Prof. Alok Bhardwaj
Shivam Sharma	Transportation Engineering	Prof. Pushpa Choudhary
Sugali Varti Chinna Swami Naik	Environmental Engineering	Prof. B. P. Vellanki
Swapnil Balasaheb Ghodki	Structural Engineering	Prof. Bhupinder Singh & Prof. Shubhankar Roy Chowdhury
Usman Aliakbar Mohseni	Hydraulic Engineering	Prof. R. Vinnarasi

JOINING OF NEW FACULTY




Dr. Tarun Gangwar has joined as Assistant Professor in Structural Engineering Group, Civil Engineering Department on dated July 10, 2023. He has carried out his Ph.D. and Masters in Civil Engineering from the University of Minnesota. He is B.Tech. alumnus of Civil Engineering Department, IIT Roorkee. His research interests are computational mechanics, finite element analysis, and multiscale material modeling, focusing on applications in structural engineering, additive manufacturing, and biomechanics.

Dr. Prakhar Misra has joined as Assistant Professor in Structural Engineering Group, Civil Engineering Department on dated July 10, 2023. He is graduated from IIT Kanpur with a Bachelors and Masters (Dual degree) in Civil Engineering. He completed his PhD from the Institute of Industrial Science at The University of Tokyo. He continued at The University of Tokyo as post-doc researcher at Research Institute for Humanity and Nature, Kyoto. His research focus is geomatics engineering for studying human-environment interactions in urban and rural areas.



RESEARCH PROJECTS AWARDED

Name of the Principal Investigator/ Co- PI	Research Project	Sponsoring Agency	Amount (₹ Lacs)
 Prof. Abhishek	Identification and assessment of groundwater potential zones in (semi)-arid regions for Managed Aquifer Recharge in Rajasthan.	Govt. of Rajasthan	120.00

 Prof. Amit Agarwal	Ride2Safety: Identification & Quantification of Rash Riding among MTW Riders.	iHub Data, IIIT Hyderabad	10.00
	Studying the Impact of Automation and Digitalization for Characterising and Accessing the Driver Behavior in Naturalistic Driving Environment Using Eye-Tracker.	CSIR, New Delhi	29.12
 Prof. Indrajit Ghosh	Intelligent Predictive and Prescriptive Systems for Traffic and Pavement Condition Management in a Smart City.	iHUB Divya Samapark, IIT Roorkee	63.58
 Prof. Kaustav Chatterjee	Dynamic Stability Analysis of Caisson Foundation in Layered Soils.	Scheme for Transformational and Advanced Research in Sciences (STARS), Ministry of Human Resource Development, Govt. of India	22.26
 Prof. M. A. Iqbal	Development of Scaling Model For Projectile Target Interaction.	Defence Research and Development Organization TBRL, Chandigarh	147.67
 Prof. P. K. Sharma	Morphological and hydrological study of Mohand River for Elevated Delhi-Dehradun Highway.	NHAI Dehradun	48.60
 Prof. Sandipan Paul	Assessment and modeling of damage in fiber reinforced laminated composites for large deformation processes using multicontinuum theory and experiments.	SERB, New Delhi	31.77
 Prof. Siddhartha Khare	Artificial intelligence (AI)-powered android platform for monitoring crop health using satellite, UAV, and Phenocam data.	AI4ICPS I-Hub Foundation IIT Kharagpur	58.04

EVENTS:

WORKSHOPS/CONFERENCES/SHORT TERM COURSES

44th Training Course under Pradhan Mantri Gram Sadak Yojana on "New Technologies including FDR": July 03 - 05, 2023

44th Training Course under Pradhan Mantri Gram Sadak Yojana on the topic "New Technologies Including FDR" for Rural Engineering Department, Uttar Pradesh has been organized by the Civil Engineering Department, IIT Roorkee during July 3-5, 2023.



The valedictory function has been graced by the, Prof. K. K. Pant, Director, IIT Roorkee, Prof. Praveen Kumar, Head, CED & Course Coordinator, Prof. Kaushik Ghosh, Coordinator, CEC and Prof. G. D. Ransinchung, R. N., Professor, CED. Certificates to the participants of the course have been distributed by Prof. K. K. Pant, Director IIT Roorkee.

Capacity Building for Officers of Water Resources Department Punjab for Designing Lift Irrigation Scheme: July 31 - August 08, 2023



The 10-days training course with the title "Capacity building for officers of Water Resources Department Punjab for designing Lift Irrigation scheme" was organized by the Department of Civil Engineering, IIT Roorkee which was sponsored by the Water Resources Department Punjab, Chandigarh. The course was held between 30 July to 08 August 2023 with Prof. Pramod Kumar Sharma as the coordinator. The training course was attended by 20 officers including a Senior design engineer to Junior engineer from various regional divisions of the Water Resources Department Punjab. The inauguration of the course was done by Prof. Praveen Kumar, Head of Civil Engineering Department, IIT Roorkee, and provided valuable insights into the necessity of these training courses for the future building of the nation.

Civil Engineering Consortium Freshers 2023: October 10, 2023



The Department of Civil Engineering organized a special welcome function for new batch of 1st year (Civil) on October 10, 2023. The function was organized under the auspices of Civil Engineering Consortium in OP Jain Auditorium. The function was started with Kulgeet, followed by a welcome address by Prof. Praveen Kumar, Head of Civil Engg. Department. After that Prof. Satyendra Mittal Convener of Consortium addressed the gathering and explained the new students about CED and its activities, After that the first year students presented a very interesting cultural program, full of classical dances, instrumental, music and humourous events. The function was attended by many faculty members of Department of Civil Engineering, who were introduced by Head of Department to new students.

3-Day Workshop on Design and Evaluation of Flexible Pavements - Principles and Practices: October 20-22, 2023



IIT Roorkee, Department of Civil Engineering, completed a 3-Day workshop on "Design and Evaluation of Flexible Pavements- Principles and Practices" (DEFP-3) from 20-22nd October, 2023. The workshop offered insightful lectures into a wide range of topics related to the fundamental understanding of flexible Pavement Design and Evaluation by Dr. Nikhil Saboo from IIT-Roorkee, Dr. Kranthi Kumar Kuna from IIT-Kharagpur, Dr. Gottumukkala Bharath from CSIR-CRRI and Mr. Bhanoj Dokku from Cube Highways. The event was attended by more than 85 participants from NHAI, UK-PWD, UP-PWD, Assam-PWD, Himachal PWD, contractors, consultants, quality control engineers, research scholars, and faculty members. The Event Coordinator was Dr. Nikhil Saboo.

1st Indo-Swiss ETERNALHIMA Project Meeting: October 27 - December 3, 2023

ETERNALHIMA stands for 21st cEnTury Evolution of small glaciers and their impact on regioNAL hydrology in the HIMalayas. It is an Indo-Swiss collaborative 4-year project (2023-27) between IIT Roorkee (Indian PI), NCPOR Goa (Indian Partner), ETH Zurich (Swiss PI) and University of Bern (Swiss Partner) to study 21st century evolution of small glaciers in the Himalayas. Ministry of Earth Sciences India and Swiss National Science Foundation Switzerland.



The ETERNALHIMA project kickoff meeting took place at IIT Roorkee during 27 Oct - 3 Dec, 2023. The project partners discussed joint field work in the Himalaya and data-knowledge-personnel exchange to meet the objectives of the project. Swiss partners delivered talks under the umbrella of geospatial lecture series and interacted with students and faculty members of IIT Roorkee. Dr. Saurabh Vijay, Indian PI - ETERNALHIMA.

3rd International Conference on Unmanned Aerial System in Geomatics UAV: A Game changer in Geomatics: November 20-21, 2023



Continuing the trend of organising the biennial conference UASG (Unmanned Aerial System in Geomatics), Dr. Kamal Jain, along with his team successfully organised the UASG 2023 conference in November (20-21st), 2023 in Kuala Lumpur, Malaysia. Universiti Kebangsaan Malaysia (The National University of Malaysia) (UKM) was our co-organiser. The event provided a dynamic platform for scholars, researchers, and professionals to exchange ideas and foster collaboration in the UAS field. We welcomed a diverse group of participants, and the presentations showcased a commitment to excellence, enhancing the event's intellectual vibrancy. Distinguished speakers from across the globe shared insights into their work, paving the way for new research opportunities for young scholars. The panel discussions were a particular highlight, providing a platform for experts to delve into critical issues within the conference theme. The insightful conversations facilitated a deeper understanding of the challenges and opportunities in the field. We anticipate building on this success and eagerly await the next UASG edition, encouraging collaboration and knowledge dissemination. The conference truly adds to the advancing research and academic discourse.

Postgraduate Certificate Programme in Data Science and Machine Learning: October 30-November 03, 2023



Prof. Alok Bhardwaj organized the campus immersion of the 7th Batch of the Postgraduate Certificate Programme in Data Science and Machine Learning from October 30-November 3, 2023. This was a 10-month certificate program jointly offered by Continuing Education Center IIT Roorkee and Ed-Tech partner TimesPro.

Geomatics Survey Camp: November 27 - December 10, 2023



Prof. Alok Bhardwaj organized the Survey Camp for BTech II Year and MTech Geospatial Engineering I Year (total of 182 students) at ChandiGhat, Haridwar for two weeks from November 27-December 10, 2023. Students used total stations and GPS to create topographic maps using the principles of surveying. Through this annual activity of the Department of Civil Engineering, students learn to perform surveying and experience the true spirit of Civil Engineering. Prof. Praveen Kumar, Head CED along with Prof. P. K. Garg, Prof. Abhishek, and Prof. Akanksha Tyagi also joined the camp.

Pre-Conference Workshop 2023: December 13, 2023

The Pre-Conference Workshop held on December 13, 2023 comprises of two workshops - Pre Conference Workshop I on "Rock Mechanics and Rock Engineering" and Pre Conference Workshop II on "Transportation Geotechnics".

Workshop I: This workshop provided a distinctive platform for participants to explore the fundamental aspects of geotechnical engineering related to rocks. The workshop comprised seven enlightening lectures delivered by Dr. Manoj Verman from Roc-science, Dr. R.K. Goel, Former Chief Scientist at CSIR-CIMFR, Dr. Chandan Kumar from Geo-Consult, Dr. Mainak Roy Ghosh from NHPC, Dr. Ankesh Kumar from IIT Palakkad, Dr. Gaurav Tiwari of IIT Kanpur and Dr. Rantangar each addressing different facets of rock mechanics.

Workshop II: A comprehensive program designed to delve into the intricacies of Transportation Geotechnics merging the concepts of Geotechnics as well as Transportation. With a focus on sharing knowledge, fostering collaboration, and addressing key challenges in the industry. Four Insightful Lectures delivered by Prof. Sireesh Saride from IIT Hyderabad, Dr. G. Bharath from CSIR-CRRI, Ms. Minimol Korulla, from Maccaferri, and Prof. J.T. Shahu from IIT Delhi provided attendees with a well-rounded understanding of the latest developments in Transportation Geotechnics varying from Road Infrastructure to Railway Infrastructure.

The workshops catered to professionals, researchers, and students, providing them with a comprehensive understanding of the challenges and solutions associated with rock engineering and Transportation Geotechnics. Attendees had the opportunity to enhance their skills and knowledge in this critical subfield of geotechnical engineering. Importantly, the workshops served as a valuable precursor to the Indian Geotechnical Conference 2023.



Indian Geotechnical Conference 2023: December 14-16, 2023



IIT Roorkee inaugurated the Indian Geotechnical Conference 2023 (IGC 2023) on December 14, 2023, at the Convocation Hall, signalling the start of discussions on 'Geotechnical Advances in Sustainable Infrastructure Development and Risk Reduction.' This significant event, organized in collaboration with The Roorkee Chapter of the Indian Geotechnical Society with the Department of Civil Engineering, IIT Roorkee, and CSIR-CBRI Roorkee, marks the commencement of insightful discussions centred around 'Geotechnical Advances in Sustainable Infrastructure Development and Risk Reduction.' The opening ceremony featured esteemed dignitaries, including Chief Guest Prof. T. G. Sitharam, Chairman AICTE New Delhi, and Dr. Anil Joseph, National President of the Indian Geotechnical Society. Prof. K.K. Pant, Director IIT Roorkee, Prof. Praveen Kumar, Head of the Civil Engineering Department at IIT Roorkee and Prof. P. K. Ramancharla, Director, CSIR CBRI Roorkee, were also event patrons.

In the beginning, Prof. N. K. Samadhiya, Chairman of IGC-23 informed about various sessions and themes. He mentioned, The conference received 877 abstracts, with 503 shortlisted for inclusion in the Proceedings, featuring 450 technical research papers. The structure includes Plenary Sessions with the IGS Annual Lecture, 13 Keynote Lectures, and 16 theme lectures across six parallel Technical Sessions over three days. Prof. K. K. Pant, Director, IIT Roorkee, addressed the gathering and said, "IIT Roorkee is proud to host IGC-2023, continuing our legacy of excellence in geotechnical engineering. This conference is a crucible for forging new paths in sustainable infrastructure." In the aftermath of the inaugural ceremony, Prof. Praveen Kumar, Head of the Civil Engineering Department at IIT Roorkee, expressed profound pride in the department's historical legacy of nurturing esteemed Geotechnical Experts.

This conference serves as a gathering point for industry experts, researchers, and thought leaders, aiming to redefine the geotechnical engineering landscape. The dynamic program includes Plenary Sessions, Keynote Lectures, Technical Sessions, and an innovative exhibition with over 30 stalls showcasing cutting-edge advancements in geotechnical engineering. Organized by the Indian Geotechnical Society in collaboration with the Department of Civil Engineering, IIT Roorkee, and CSIR-CBRI Roorkee, IGC-2023 addresses the evolving geotechnical engineering landscape, covering 18 themes. With active engagement from over 700 delegates, the conference offers vibrant interactions, enriching experiences through industry insights, emerging trends, and in-depth explorations of critical topics, fostering knowledge exchange and collaboration.

Post-Conference Workshop 2023: December 18-22, 2023

The post-conference (IGC 2023) "Workshop on Advanced Finite Element Modelling of Geotechnical Constructions", organised by Civil Engineering Department and Indian Geotechnical Society Roorkee Local Chapter in association with Geosoft Pte Ltd., Singapore, was held from 18 to 22 December 2023.

This was a 5-day course comprising 16 hours of lectures and 4.5 hours of practical sessions. The lectures were delivered by Prof. Fook Hou Lee, Emeritus Professor, National University of Singapore and Distinguished Visiting Professor, IIT Roorkee, and hands-on-sessions were guided by Dr. Akanksha Tyagi, IIT Roorkee. The workshop was inaugurated on 18 December 2023. Prof K.K. Pant (Director, IIT Roorkee), Prof F.-H. Lee (DVP, IIT Roorkee) and Prof Praveen Kumar (HCED, IIT Roorkee) graced the occasion with their kind and encouraging words.



Chairman of IGC 2023 - Prof N.K. Samadhiya, Prof. M. Singh and organizing secretary, Prof V.A. Sawant were also present during the inaugural program. Total 56 participants attended the 5-day workshop. There were more than 35 external participants including faculties, scientists, research scholars, and industry practitioners from various IITs, NITs, central research institutes, government colleges and geotechnical companies across India.

The course-coordinator was Dr. Akanksha Tyagi, Civil Engineering Department

GUEST LECTURES/AWARD CEREMONIES

"Geospatial Lecture Series": June - December 2023



The Geomatics Group of the Department of Civil Engineering hosted eight international speakers who delivered talks during June-December, 2023.

Geospatial Lecture 4A by Dr. Yukata Matsumi

Dr. Yukata Matsumi is a Professor Emeritus at the Institute for Space-Earth Environmental Research, Nagoya University Japan. Dr. Matsumi gave a talk on "Developments of compact in-situ atmospheric instruments for PM2.5, CO and O3 and their network observations".

Geospatial Lecture 4B by Dr. Akash Biswal

Dr. Akash Biswal is a researcher at the Research Institute for Humanity and Nature, Kyoto Japan. Dr. Biswal gave a talk on "Project Aakash: an interdisciplinary study toward clean air, public health and sustainable agriculture; the case of crop residue burning in north India".

Geospatial Lecture 5 by Dr. Pascal Horton

Dr. Pascal Horton is a senior scientist from Institute of Geography and OCCR, University of Bern, Switzerland. Dr. Pascal gave a talk on "Addressing Uncertainties in Climate Impact Studies: A Critical Examination of Hydrological Model Selection".

Geospatial Lecture 6 by Dr. Marit Van Tiel

Dr. Marit Van Tiel is a Postdoctoral Researcher from Laboratory of Hydraulics, Hydrology and Glaciology, ETH Zurich, Switzerland. Dr. Marit gave a talk on "The Hydrological Role of Glaciers – Compensation Effects and Importance During Drought".

Geospatial Lecture 7 by Dr. Matthias Huss

Dr. Matthias Huss is a senior scientist from Department of Civil, Environment and Geomatics Engineering, ETH Zurich, Switzerland. Dr. Matthias gave a talk on "Observing and Modelling Glaciers: From Switzerland to India".

Geospatial Lecture 8 by Dr. Daniel Farinotti

Dr. Daniel Farinotti is a Professor from Department of Civil, Environment and Geomatics Engineering, ETH Zurich, Switzerland. Dr. Daniel gave a talk on "Glacier Changes in a Warming Climate: A Swiss Perspective".

Geospatial Lecture 9 by Dr. Daniel Farinotti

Dr. Daniel Farinotti is a Professor from Department of Civil, Environment and Geomatics Engineering, ETH Zurich, Switzerland. Dr. Daniel gave a talk on "Glacier Changes in a Warming Climate: A Swiss Perspective".

Geospatial Lecture 10 by Dr. Anna Barra

Dr. Anna Barra is a researcher at Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain. Dr. Barra gave a talk on "Satellite SAR data to support risk and territorial management".

Geospatial Lecture 11 by Dr. Peter Friedl

Dr. Friedl is a Scientist at German Aerospace Center (DLR), Germany. Dr. Friedl gave a talk on "Terrabyte: a high performance computing platform at the German Aerospace Center (DLR) for big data processing and analysis in EO and beyond".

Felicitation of the Award Winner of Gopal Ranjan Technology Award 2022 and S. R. Mehra Memorial Award 2022: September 04, 2023



On September 04, 2023 an award ceremony was organised by Department of Civil Engineering, IIT Roorkee in which Prof. Deepankar Choudhury, Head Department of Civil Engineering IIT Bombay, was conferred with The Gopal Ranjan Technology Award 2022 (carrying a cash prize of Rs. 1,00,000/-) by Prof. U. P. Singh Deputy Director, IIT Roorkee.

And Prof. Satish Chandra was conferred with The S. R. Mehra Memorial Award 2022 (carrying a cash prize of Rs. 50,000/-) by Prof. U. P. Singh Deputy Director, IIT Roorkee in the Conference Room.



Guest Lecture by Er. Ravi Kant Head, Construction (Civil & Structural) Projects Shared Services TATA Steel Ltd.: September 29, 2023



Er. Ravi Kant from TATA Steel Limited (TSL), Jamshedpur was invited by Prof. Rakesh Ranjan to deliver a guest lecture in the Department of Civil Engineering at IIT Roorkee on the topic – Steel Structure – Integrity Management. He holds the position of Head, Construction (Civil & Structural), Project Shared Services at TSL Jamshedpur Plant. During the lecture, He shared his 31 years of experience of handling real projects related to repair and maintenance of steel structures through several case studies.

The knowledge shared was not only helpful for PG and PhD Students to conduct research on real problems but it was also enlightening for UG students to be aware of the repair techniques used for steel structures. Er. Ravi Kant had a meeting with Head of the Department and visit the Structural laboratory of Civil Engineering Department.

Guest Lecture by Dr.-Ing. B. V. S. Vishwanadham, Institute Chair Professor Department of Civil Engineering, IIT Bombay: October 06, 2023

Dr.-Ing. B. V. S. Vishwanadham, Institute Chair Professor Department of Civil Engineering, IIT Bombay made a visit to the Department of Civil Engineering, IIT Roorkee on October 6, 2023, and delivered a guest lecture on the topic "Some studies on modelling of climatic events on geotechnical centrifuge".



Guest Lecture by Prof. J. M. Chandra Kishen Department of Civil Engineering IISc Bangalore: December 11, 2023



Prof. J. M. Chandra Kishen Department of Civil Engineering IISc Bangalore made a visit to the Department of Civil Engineering, IIT Roorkee on December 11, 2023, to deliver a guest lecture. The title of his talk was "Defects Damage and failures in Structures - Driving Research from Field to Laboratory".

FORTHCOMING EVENTS

International Conference on Geomatics in Civil Engineering (IGCE - 2024): March 14 -16, 2024

The Department of Civil Engineering is all geared up to organize the ICGCE-2024: International Conference on Geomatics in Civil Engineering in March 2024. It was a dream project of late Prof. Jayanta Kumar Ghosh. Not only his sudden demise deeply saddened the IIT Roorkee fraternity, but ICGCE-2024 was also left unfinished.



The Department of Civil Engineering decided to organize ICGCE-2024 as planned by late Prof. JK Ghosh. ICGCE 2024 will bring the community working in the applications of Geomatics Engineering in Structural, Geotechnical, Hydraulics and Water Resources, Environmental, and Transportation Engineering Disciplines. The conference will include plenary speakers from national and international institutes, industries working in the geospatial domain, and panel discussions on key themes. We believe it will be an exciting opportunity for networking and scientific exchange.

14th International Symposium on Plasticity and Impact Mechanics (IMPLAST 2025): October 05-09, 2025

14th International Symposium on Plasticity and Impact Mechanics

IMPLAST 2025

October 05 - 09, 2025

The Department of Civil Engineering is going to organize 14th International Symposium on Plasticity and Impact Mechanics (IMPLAST 2025) in October 2025. The symposium welcomes the latest research findings from across the globe on fundamental and applied aspects of large deformation and failure of thin walled structures resulting from quasi-static, dynamic, earthquake, impact or blast loading. The aim is to foster fruitful interactions between scientists from academia, industries and research laboratories for sharing the latest developments in plasticity and impact mechanics.

We look forward to welcoming you in New Delhi for attending the Symposium, and for the joy of meeting old friends and making new ones.

For more information please [click here](#).

VISITORS



Delegates from Sokoine University of Agriculture, Tanzania visited the Department of Civil Engineering, Indian Institute of Technology Roorkee for Departmental Study Visit on August 31, 2023.

Dr. Jurgen Stamm and Dr. Firas Aljanabi from Technische Dresden, Germany visited the Department of Civil Engineering, IIT Roorkee on September 28, 2023.



Visit by **Em. Prof. Yutaka Matsumi and Dr. Akash Biswal** from Research Institute of Humanity and Nature, Kyoto as part of the "Aakash Project: An Interdisciplinary Study Toward Clean Air, Public Health and Sustainable Agriculture: The Case of Crop Residue Burning in North India". As part of a larger air quality monitoring project, a low-cost air quality sensor (monitoring PM₁₀, PM_{2.5}, NO_x, and CO concentration) was installed and lectures on the sensor development were held.

Dr. Yves Bühler and Dr. Jessica Munch of Forschungsanstalt für Wald, Schnee und Landschaft WSL Eidg. Forschungsanstalt WSL of Switzerland visited Dr. Kamal Jain's lab in October 2023, and discussed common areas of collaboration. They showed interest in the drones developed by his lab and the work done under my supervision on the application of Geomatics on avalanches and landslides.



Prof. Fook Hou Lee, Emeritus Professor, National University of Singapore and Distinguished Visiting Professor, Civil Engineering Department IIT Roorkee, stayed in the institute from 7th to 22nd December 2023. The major highlights of the visit is his major contribution as main instructor to the post-conference (IGC 2023) "Workshop on Advanced Finite Element Modelling of Geotechnical Constructions", which was

organised by Department of Civil Engineering and Indian Geotechnical Society Roorkee Local Chapter in association with Geosoft Pte Ltd., Singapore, from 18 to 22 December 2023. He also delivered a keynote lecture at the Indian Geotechnical Conference 2023, held on 14-16 December 2023. During 15-days visit, he interacted with faculty members of Civil Engineering Department as well as NUS alumni from other departments. He had one-on-one discussions with research scholars working in the area of geotechnical engineering. He also visited the Geotechnical Laboratory at Civil Engineering Department.

ALUMNI CONNECT

Civil Engineering Alumni Of 1977 Visited The Department And Shared Their Memories And Experiences With The Faculty Members Of The Department: October 07, 2023



Civil Engineering Diamond Jubilee Alumni Of 1963 Visited The Department And Shared Their Memories And Experiences With The Faculty Members Of The Department: October 13, 2023



Civil Engineering Golden Juilee Alumni Of 1973 Visited The Department And Shared Their Memories And Experiences With The Faculty Members Of The Department: November 24, 2023



INFRASTRUCTURE (NEW LABS & INSTRUMENTS)

CHNS Analyzer (₹ 46.02 Lac)



The CHNS Analyzer is designed for simultaneous carbon, hydrogen, nitrogen, and sulfur analysis in solid and liquid samples, ranging from 0.1 mg chemical substance to 15 mg of liquid fuel to 1 g of inhomogeneous soil. Additionally, the analyzer offers options for oxygen and chlorine determination and is designed for highest system uptime.

Through the use of direct TPD technology, which stands for highest reliability and performance in gas separation, and in combination with the most powerful detector on the market, it offers great sample flexibility. It offers analysis results with highest precision and accuracy. This is especially beneficial to trace nitrogen analysis. Furthermore, the jet-injection of oxygen directly to the point of combustion and the high furnace temperatures of up to 1,200 °C ensure a complete conversion of the sample to measuring gas – a prerequisite for highly precise, matrix-independent elemental analysis. It reliably deliver precise hydrogen and sulphur concentration measurements, the UNICUBE's tubing is actively heated. This prevents the condensation of traces of water inside the system and thus the misquantification of hydrogen and sulphur.

Rock Triaxial Machine (₹ 49.14 Lac)



Rock Triaxial Test Machine designed to test various materials, from soft sandstone to high strength marbles. Triaxial test is carried out automatically with multiple failure stages: from a single specimen it is possible to plot the entire failure envelope. It is used to drive hydraulic test frames and allows automatic testing with the following phases: rapid approach, zeroing, test cycle (or cycles), identification of sample failure, unloading, saving of test data and results. High accuracy is assured thanks to a closed loop control system.

Ultrasonic Flow Meter (₹ 5.31 Lac)



Ultrasonic flow meter technology is a non-contact means of measuring the velocity of a fluid. They are clamp-on devices that attach to the exterior of the pipe (and fit a variety of pipe sizes) and enable measurement of corrosive liquids without damage to the ultrasonic sensor. Portable ultrasonic flow meters are available to aid in industrial application. The two types of ultrasonic flow meters, Doppler and transit time, each function by way of two different technologies. The Doppler ultrasonic flow meter must have particles or bubbles to reflect the ultrasonic signals.

Pan Mixture (₹ 4.13 Lac)



Pan Mixer will be used for preparation of Ultra High-Performance Concrete (UHPC). This UHPC Pan mixer has a planetary motion, there are two rotations: the blades rotate around their axes and around the axis of the pan which ensures complete and effective mixing.

Digital Rebound Hammer (₹ 2.10 Lac)



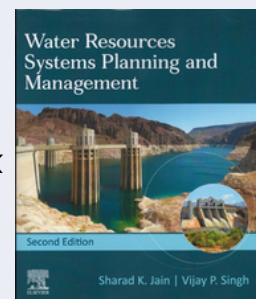
Proceq original schmidt Live (Rebound Hammer) is the latest generation Digital-Analog R-value hammer for non-destructive measurement of compressive strength of concrete. Original Schmidt Live provides a measurement range of 10 to 70 N/mm² - Mean angle calculated, angle correction factor also applied automatically.

BOOK PUBLISHED



A Book on **Landfill leachate Management** has been authored by Dr. Vinay Kumar Tyagi and **Prof. C. S. P. Ojha**. The book is a complex mix of organics, inorganics, and heavy metals produced from conventional and engineering landfilling practices. The adverse effects of landfill leachate on human and environmental health have forced the authorities to stipulate stringent disposal requirements, producing the requirement for ground-breaking technological solutions for the effective management of landfill leachate.

A book entitled "**Water Resources Systems Planning and Management**", authored by **Prof. Sharad K Jain** and Prof. Vijay P Singh, has been published by Elsevier, Netherlands.



MoU's

MoU with Survey of India: July 05, 2023



An MoU has been signed between Indian Institute of Technology, Roorkee and Survey of India (Sol), Department of Science & Technology on dated July 05, 2023. Late Prof. Jayanta Kumar Ghosh was the key person in establishing the MoU.

MoU with University of Quebec at Chicoutimi (UQAC), Canada: October 19, 2023

An MoU has been signed between Indian Institute of Technology, Roorkee and University of Quebec at Chicoutimi (UQAC), Canada on dated October 19, 2023. Prof. Siddhartha Khare was the key person in establishing the MoU. The MoU is valid for 5 years till October 2028.

MoU with Damodar Valley Corporation: November 24, 2023

Dr. Rajan D. V. Head (Research & Development), Damodar Valley Corporation, Kolkata visited Department of Civil Engineering, IIT Roorkee on November 24, 2023. He had signed an MoU between Indian Institute of Technology, Roorkee and Damodar Valley Corporation. Prof. Bhanu Prakash Vellanki was the key person in establishing the MoU.



FAREWELL



Prof. P. K. Garg (Geomatics Engineering) was retired on July 31, 2023. The Department Of Civil Engineering wished him a happy and healthy retirement life .



Prof. S. K. Ghosh (Geomatics Engineering) was retired on October 31, 2023. The Department Of Civil Engineering wished him a happy and healthy retirement life .

Mr. Pramod Kumar (MTS) in CAD Lab has been retired on September 29, 2023. The Department Of Civil Engineering wished him a happy and healthy retirement life .



Mr. Rajendra Kumar (Senior Attendant) in Geotechnical Lab has been retired on November 31, 2023. The Department Of Civil Engineering wished him a happy and healthy retirement life .

Mr. Anand Kumar (Senior Attendant) in Geotechnical Lab has been retired on December 29, 2023. The Department Of Civil Engineering wished him a happy and healthy retirement life .



Mr. Dal Singh (Senior Attendant) in Geotechnical Lab has been retired on December 29, 2023. The Department Of Civil Engineering wished him a happy and healthy retirement life .

OBITUARY



The Department expresses its sincere and heart felt condolence on the sad demise **Prof. Jayanta Kumar Ghosh** (Geomatics Engineering) who left for his heavenly abode on August 08, 2023. He had joined the Department on August 25, 1998.

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