



COLUMNS

Biannual Newsletter
DEPARTMENT OF CIVIL ENGINEERING,
JAWAHARLAL NEHRU GOVT. ENGG.COLLEGE SUNDERNAGAR

JANUARY-JULY 2024

MoU With Ultratech Cement



Jawaharlal Nehru Government Engineering College, Sundernagar, signed a memorandum of understanding (MoU) with Ultra Tech Cement Limited on 25th April 2024, as part of which the company will provide skill development programmes to students, faculty, working engineers, masons, contractors and builders in association with the college.

A Centre of Excellence for Advanced Building Materials and Sustainable Development was established in the institution by Ultra Tech Cement to provide students and faculty with access to advanced resources, expertise, and infrastructure and to provide training and skill development to engineers, contractors, architects artisans, masons to cement technology, sustainable construction practices, and material science.



Educational Visit to Hydro Electric Project: B.Tech Students

An educational visit for B.tech 3rd year students was organized to Sarabhai-II Small Hydro Electric Project, Kullu from 14th March to 16th March 2024 with Mr. Prashant Thakur and Mr. Rohit Vasudeva

NEWSLETTER TEAM

FACULTY COORDINATORS

Er. Surabhi Sharma Asst. Prof., CE
Er. Prashant Thakur Asst. Prof., CE

STUDENT MEMBERS

Shubhanya Bhaskar	Asst. Editor	3 Year
Anusha Khushal	Asst. Designer	3 Year
Shruti Pal	Member	2 Year
	Member	2 Year
	Member	2 Year



Educational Visit to Manali: M.Tech Students

An educational visit for M.Tech students with Dr. Kapil Dev was organized to Atal Tunnel Rohtang and Malana Hydro Power Project from 4th to 6th April 2024



Educational Visit to Kangoo HMP: M.Tech Students

An educational visit for M.Tech students with Mrs. Shalini Chauhan and Mrs. Cheena was organized to Hot Mix Plant at Kangoo on 29th April 2024

HPTU SPORTS MEET AT GAUTAM GROUP OF COLLEGES HAMIRPUR

Students of Civil Engg. secured different positions in various events:

Table tennis singles boys	3rd position	Rohit Karpa (4th year)
Table tennis doubles boys	3rd position	Kartik Guleria & Rohit Karpa (4th year)
Table tennis singles girls	3rd position	Anamika (4th year)
Table tennis doubles girls	2nd position	Parul (3rd year) & Anamika (4th year)

FACULTY CONTRIBUTIONS

The faculty members of Department of Civil Engg. play a pivotal role in ensuring the overall development of the department through their significant contributions in various areas like institution level work, third party expert, consultancy, material testing, resource persons etc.:

- Dr. Kapil Dev carried out estimation of legacy waste at Rangri, Manali for Exec Officer, Municipal Council Manali in Feb 2024 and Quantifying municipal solid waste Kenduwal site, Baddi for BBND Baddi in July 2024
- Ms. Surabhi conducted testing of bricks for the construction project under The Senior Manager (Projects)PIU Sarabhai, HPPTCL, Bhuntar, Distt. Kullu in May 2024 and testing of concrete cubes for the construction project under Sub division Engineer, BSNL Sundernagar in July 2024
- Dr. Kapil Dev delivered lecture on Earthquake resistant construction technologies to Masons from different districts of H.P. for Training on Innovative Housing Technology for Rural Masons by HP Council for Science, Technology and Environment at Appropriate Technology Centre Govt. Polytechnic Sundernagar on 01/02/2024.
- Mr. Rohit Vasudeva delivered lecture on Foundation construction techniques to Masons from different districts of H.P. for Training on Innovative Housing Technology for Rural Masons by HP Council for Science, Technology and Environment at Appropriate Technology Centre Govt. Polytechnic Sundernagar on 02/02/2024.
- Dr. Kapil Dev delivered lecture on Hazard resistant construction technologies to Masons from different districts of H.P. for Mason Training organized by HIMCOSTE at Appropriate Technology Centre Govt. Polytechnic Sundernagar on 22/03/2024.
- Mr. Prashant Thakur delivered lecture on Hazard Resistant features of walls and openings and Hazard resistant features of roofs and ceilings to Masons of Dhanottu Block for Mason Training organized by Appropriate Technology Centre Govt. Polytechnic Sundernagar on 09/07/2024 and 10/07/2024.
- Ms. Shalini Chauhan delivered lecture on Housing typologies of the region: contribution and role of artisans; Hazard severity, zonation and impact on buildings and Importance of site and soil condition to Masons of Dhanottu Block for Mason Training organized by Appropriate Technology Centre Govt. Polytechnic Sundernagar on 08/07/2024 and 09/07/2024.
- Ms. Shalini Chauhan conducted Field and Lab visit: Rural House Construction & Material available at JNGEC Sundernagar for the Masons on 11/07/2024.
- Dr. Kapil Dev delivered lecture on Hazard resistant construction technologies to Masons from different panchayats under 5 -day training program for masons, ATC Sundernagar on 27/07/2024.



Expert lecture on Building Bye Laws

An Expert Lecture on “Building Bye Laws” was delivered by Mr. Pradeep Thakur TCP, D.T.P. Mandi, Department of Town and Country Planning, to the students of 2nd and 3rd year Civil Engineering on 23 February 2024.

NATIONAL SCIENCE DAY CELEBRATION

SANCHYA

28 FEBRUARY 2024



National science day was celebrated on 28 Feb, 2024 by the Civil society of the department named as SANCHYA, under which various competition were organized for students



Quiz Competition

- 1st - Aditya (6th sem), Monika, Khushal, Ashish Dogra
- 2nd - Sunil, Junaid, Aditya (4th sem), Pallavi
- 3rd - Vikas Kashyap, Aryansh Thakur, Vandana Mehta, Satvik Sharma

Debate Competition (Winners)

Lucky, Priyanka, Anmol, Abhinandan

Poster Making Competition

- 1st - Parul
- 2nd - Sahil
- 3rd - Mehak, Riya



EXPERT LECTURE ON INTERACTIVE SESSION ON CAREER OPPORTUNITY IN RESEARCH (11-03-2024)



An Expert Lecture on “Interactive session on Career opportunity in Research” was delivered by Mr. Shubham Sharma, Research Scholar Queensland University of Technology, Australia, who is also 2013-2017 batch B.Tech Civil Engineering alumnus of this Institution, to the students of 3rd and 4th year Civil Engineering on 11 March 2024.

RESEARCH CONTRIBUTIONS



RESEARCH CONTRIBUTORS	NAME OF RESEARCH PAPER IN JOURNAL/CONFERENCE	JOURNAL/ CONFERENCE
Bedatrayee Saha	Review of Saturation Indices for Corrosion & Scaling Potential in Water Distribution System	International conference on Recent Trends on Engg., Science & Technology (RTEST 2024), GHEC Bandla & HPTU Hamirpur
Ashish Thakur, Lalit Goel	Nanotechnology Innovation For Improving the Strength and Durability of Concrete: A Comprehensive Review	International conference on Recent Trends on Engg., Science & Technology (RTEST 2024), GHEC Bandla & HPTU Hamirpur
Bedatrayee Saha	Influence of Environmental and Water Quality Characteristics on Corrosion and Scale formation in Water Distribution System: A Review	National Conference on Innovative Trends in Science and Engineering (ITSE 2024), CPU Hamirpur
Deepak Angra 1, Dr. M.R. Sharma 1, and Dr. Kapil Dev 2 1,2,4: CPU Hamirpur 2: Department of Civil Engineering, Jawaharlal Nehru Government Engineering College Sundernagar	Evolution of lime Mortars: A Historical Overview Prior to the Industrial Revolution	National Conference on "Innovative trends in Science and Engineering" Organized by Career Point University, Hamirpur
Pushpender Kumar ¹ , Nikhil Sanjay Nighot ² , Rajesh Kumar ³ , Surabhi Sharma ⁴ , MS Kirgiz ⁵ , Arpit Goyal ⁶ 1,4: Jawaharlal Nehru Government Engineering College Sundernagar 2,3,5,6: CBRI Roorkee	Advancements in precast concrete sandwich panels for load bearing structures https://doi.org/10.31763/aet.v3i1.1402	Applied Engineering and Technology
Bharat Bhushan ¹ Harish Chandra Arora ² Aman Kumar ³ Prashant Kumar ⁴ Madhu Sharma ⁵ 1: Jawaharlal Nehru Government Engineering College Sundernagar 2,3,4: CBRI Roorkee 5: Govt. Hydro Engg. College Bandla, Bilaspur	Study the effect of ANN splitting ratios and training functions on the prediction of corroded steel-to-concrete bond strength https://doi.org/10.1007/s41939-024-00464-w	Multiscale and Multidisciplinary Modeling, Experiments and Design
Bharat Bhushan ¹ , Harish Chandra Arora ² , Aman Kumar ³ , Prashant Kumar ⁴ , Surabhi Sharma ⁵ , Madhu Sharma ⁶ 1,5: Jawaharlal Nehru Government Engineering College Sundernagar 2,3,4: CBRI Roorkee 6: Govt. Hydro Engg. College Bandla, Bilaspur	Estimation of Bond Strength based on Corroded Hinge Beam Specimens: Assessment of Design Guidelines and Analytical Models https://doi.org/10.3311/PPci.36877	Periodica Polytechnica Civil Engineering
Abhimanyu Rana, Bedatrayee Saha	Groundwater Quality Index Evaluation: Case Study and Findings	International Journal Of Advances In Engineering Research