



COLUMNS

Biannual Newsletter

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

AUGUST - DECEMBER 2024

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.:

- Ms. Surabhi conducted testing of concrete cubes for the construction project under Sub division Engineer, BSNL Sundernagar from September to November 2024 and testing of concrete cubes for the construction project under The Project Manager, GE T&D India Limited from August to November 2024
- Dr. Kapil, Ms. Surabhi, Mr. Prashant engaged in Geotechnical investigation and Construction of private educational institution in Sundernagar
- Mr. Prashant Thakur designated Member of State Level Technical Appraisal Committee of State Disaster Management Authority, Himchal Pradesh to appraise the DPRs w.r.t. different disasters mitigation for technical, financial and social aspects of the project.
- Ms. Bedatrayee Saha evaluated and studied 21 project reports on Low cost Housing project reports prepared by students from different polytechnic and engineering colleges under Department of Technical Education in Sept. 2024
- Dr. Kapil Dev engaged in establishment of Training Demonstration Unit under DTE.

Sports Achievements:



**SPORTS MEET AT JNGEC SUNDERNAGAR
20TH-21ST SEPTEMBER 2024**

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

Table tennis singles boys	Ayush Kashyap (4th year)
Table tennis doubles boys	Kartik Guleria & Rohit Karpa
Table tennis singles girls	Tamanna (2nd year)
Table tennis doubles girls	Parul & Vanshika (4th year)



**HPTU SPORTS MEET AT MINERVA
COLLEGE OF PHARMACY, INDORA 16- 18
NOVEMBER 2024**

Parul (4th year) and Tamanna (2nd year), students of Civil Engg. secured Silver in Table Tennis Doubles (Girls) in HPTU Sports Meet held at Minerva College of Pharmacy, Indora from 16th - 18th November 2024



Plantation Drive



A plantation drive was organized by the Institution of Engineers in the college campus on 9th August, 2024. The event aimed to promote environmental awareness and sustainability among students and staff. Numerous saplings were planted, contributing to the campus's green initiative.



NETMASTERS

The Institution of Engineers organized an intra-departmental sports event, "Net Masters," on 29th August 2024 to encourage sportsmanship and teamwork. The event featured badminton and table tennis matches, attracting enthusiastic participation from students. It concluded successfully, fostering a spirit of healthy competition and camaraderie.



Technical Workshop

The Institution of Engineers at JNGEC organized a one-day workshop focused on student development on 12th November, 2024

The event included a lecture on drug addiction by Mr. Deepak Angra, along with engaging activities like a quiz competition, Memory Frame, and a debate for IEI student members.

The workshop witnessed active participation in quiz and debate and was graced by the members of IEI and faculty members.



Civil Engineering Society

Events



INDEPENDENCE DAY CELEBRATION 13th AUGUST 2024



Faculty, staff and students celebrated the Independence day on 13th August 2024 along with curricular and motivational activities like group song, declamation, dance, skit/drama, poetry, etc.



TEACHERS DAY CELEBRATION 5th SEP. 2024



DIWALI CELEBRATION 25TH OCTOBER 2024



Diwali was celebrated together on 25th October 2024 by faculty, staff and students along with Diwali Pooja and curricular activities like Group song, dance, Skit/drama, poetry, etc.

Research Contributions



Faculty and students have published their research works in various journals and presents in conferences:

RESEARCH CONTRIBUTORS	NAME OF RESEARCH PAPER IN JOURNAL/CONFERENCE	JOURNAL/ CONFERENCE
Rubeen Kumar 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	Estimation of Residual Flexural Capacity of Corroded Reinforced Concrete Beams through Algorithmic Learning	Practice periodical on structural design and construction
Rubeen Kumar 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	Seismic Performance Assessment of Corroded Reinforced Concrete Columns Based on Codal Provision and Empirical Formulations https://doi.org/10.3311/PPci.36913	Periodica Polytechnica Civil Engineering
Pushpender Kumar ¹ , Rajesh Kumar ² , Nikhil Sanjay Nighot ³ , Surabhi Sharma ⁴ , Mohd Reyazur Rahman ⁵ , R Siva Chidambaram ⁶ , Shahnawaz Khan ⁷ 1,4: Jawaharlal Nehru Government Engineering College Sundernagar 2,3,5,6,7: CBRI Roorkee	Improving Sustainability of Precast Concrete Sandwich Wall Panels through Stone Waste Aggregates and Supplementary https://doi.org/10.31763/aet.v3i2.1399	Applied Engineering and Technology
Mahipal Kulariya ¹ , Vikas Thakur ² , Sandip Kumar Saha ³ , Ashutosh Kumar ⁴ 1,3,4: School of Civil and Environmental Engineering, Indian Institute of Technology Mandi (IIT Mandi) 2: Department of Civil Engineering, Jawaharlal Nehru Government Engineering College Sundernagar	Effect of Uncertainty in Geotechnical and Flow Parameters on Landslide-induced Force for Building Response Analysis Under Flow-type Landslides Using Uncoupled Approach	Indian Geotechnical Journal, Springer
Pushpender Kumar ¹ , Rajesh Kumar ² , Nikhil Sanjay Nighot ³ , Surabhi Sharma ⁴ 1,4: Jawaharlal Nehru Government Engineering College Sundernagar 2,3: CBRI Roorkee	A Comprehensive Review on Advancement in Precast Concrete Sandwich Panel: Structural Performance, Thermal Insulation and Material Innovations	Journal of Building Engineering
Pushpender Kumar ¹ , Rajesh Kumar ² , Surabhi ³ , Mohd. Reyazur Rahman ⁴ , and Shahnawaz Khan ⁵ 1,3: Jawaharlal Nehru Government Engineering College Sundernagar 2,4,5: CBRI Roorkee	Development of Sustainable Precast Concrete Sandwich Wall Panels using artificial aggregates and mineral admixture https://doi.org/10.1051/e3sconf/202459601006	International Conference on Civil, Materials, and Environment for Sustainability (ICCMES 2024), JUIT Solan, E3S Web Conf., Volume 596, 2024.
Bedatrayee Saha	Assessment of Water Quality Characteristics using Water Quality Indices for Domestic & Irrigational Use –A Review	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Hitender Thakur, Dr. Kapil Dev, Dr. Dinesh Bhatia	A review on effect of bio additives on lime mortar.	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Ankita, Dr. Kapil Dev, Dr. Dinesh Bhatia	Monotonic and cycle behaviour of treated geo textile for road pavement.	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Sanskriti, Bedatrayee Saha	Effectiveness of natural coagulants in treatment of surface water : A review	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Samriti, Surabhi	Energy Optimization and Carbon Emission Reduction in Buildings Through Virtual Modeling: A Review (Page 22)	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Yashika Sharma, Surabhi	Effect of coconut husk mulch on irrigation scheduling and crop parameters of potato (Page 24)	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Simran, Ms. Surabhi, Er. Prashant Thakur	Investigation on the use of Waste Tyre to enhance properties of Subgrade Soil :A Review (page 23)	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Priksht, Er. Prashant Thakur, Dr. Dinesh Bhatia	A review on stabilization of subgrade soil using jute geotextile treated with unsaturated polyester resin (page 52)	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Sachin Patiyal, Er. Prashant Thakur, Dr. Dinesh Bhatia	A review on performance improvement of soil subgrade reinforced with natural oil treated coir geotextiles (page 37)	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Rahul Chauhan, Er. Prashant Thakur, Ms. Surabhi	Investigation on behaviour of Polymer Concrete Using Plastic Waste and fly ash: A Review (page 28)	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Jigyasa, Er. Shalini Chauhan	Sustainable Enhancement of Pavement Durability Using Waste Plastics and Fibers: A Review (page 42)	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Sneha Chandel, Er. Shalini Chauhan	Improving the properties of stone matrix asphalt with crumb rubber and fibers: A Review (page 35)	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur
Ashish Thakur, Shalini Chauhan, Surabhi	A Review on Nanotechnology in Concrete: Current Trends and Future Directions (page 64)	International Conference on Emerging Trends and Innovation in Basic Sciences (ETIBS-2024), Career Point University Hamirpur

NEWSLETTER TEAM

FACULTY COORDINATORS

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

STUDENT MEMBERS

Shubhanya	4 Year	Asst. Editor
Bhaskar	4 Year	Asst. Designer
Anusha	3 Year	Member
Khushal	3 Year	Member
Shruti Pal	3 Year	Member

