



Panipat Institute of Engineering and Technology

Approved by A.I.C.T.E. & Affiliated to Kurukshetra University, Kurukshetra
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Department of Civil Engineering


Ref. No.: PIET/CE/ICT/2019/01

Date: 8th August 2019

NOTICE

Session on “Emerging Techniques in Civil Engineering”

This is the information for all concerned that the Department of Civil Engineering is organizing a session on “Emerging Techniques in Civil Engineering” on **13th August 2019**. The session will start at 10: 30 AM in Seminar Room, E-Block, Second Floor. The event will be coordinated by Mr. Devender (Assistant Professor, Civil Engineering Department). He will carry out all necessary arrangements for the event. In case of any queries, the students may contact the coordinator of the event.


HEAD
CIVIL ENGINEERING DEPARTMENT
PANIPAT INSTITUTE OF ENGINEERING, TECHNOLOGY
SAMALKHA (PANIPAT)

Head of Department

CC

Notice Board



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Report on “Emerging Techniques in Civil Engineering”

| Event Details | |
|-------------------------------------|--|
| Title of the Event | Emerging Techniques in Civil Engineering |
| Date of the Event | 13 th August, 2019 |
| Timings | 1:30 PM to 4:00 PM |
| Venue | Seminar room, E-Block, Second Floor |
| No. of Participants Enrolled | 34 |
| No. of Participants Attended | 34 |
| Mode | Offline |
| Resource Persons | Mr. Balraj Singh Assistant Professor Civil Engineering Department Panipat Institute of Engineering and Technology |
| Coordinator | Mr. Devender |

A seminar was organized on 13th August 2019 for BTech civil engineering students. Mr. Balraj Singh, the resource person for the event, was welcomed by the head of the department, Dr. Tanvi Singh. The aim of the seminar is to familiarize the students with new emerging techniques in civil engineering, including smart cities and 3D printing, and to enhance their understanding and readiness for future industry advancements. The seminar highlighted the most innovative methods in the area of civil engineering that are defining its future. The discussion started with elucidating the idea of smart cities, emphasizing the transformative impact of integrating the Internet of Things (IoT), artificial intelligence (AI), and big data analytics on urban infrastructure. The main components were intelligent grids for energy administration, intelligent transportation systems for alleviating traffic congestion, and intelligent water management for optimizing resource utilization. Subsequently, the conversation transitioned to the topic of 3D printing, an innovative technology that has substantial ramifications for the field of building. Students were educated on the application of 3D printing in the production of intricate building elements and whole structures. This technology provides advantages such as decreased material wastage, accelerated construction durations, and enhanced design adaptability. Successful 3D-printed structures have showcased the capacity to revolutionize conventional construction techniques. The seminar also addressed further innovative ways, including the utilization of sophisticated materials such as self-healing concrete and carbon fiber-reinforced polymers, as well as contemporary approaches like Building Information Modelling (BIM) and modular building. These advancements offer improved longevity, effectiveness, and eco-friendliness in civil engineering endeavors. The outcomes of the events are as follows: (i) Students gained an understanding of emerging technologies such as smart cities and 3D printing and their impact on civil engineering; (ii) Students learned about the integration of IoT, AI, and big data in smart cities and the benefits of 3D printing in construction; (iii) Students were introduced to advanced materials like self-healing concrete and carbon fiber-reinforced polymers and their benefits; (iv) The seminar inspired students to consider how they might apply these new techniques and innovations in their future careers as civil engineers.

The seminar was concluded by felicitating the resource person by the head of the department (Dr. Tanvi Singh). The event coordinator gave a vote of thanks.



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Session Photograph



Picture: A session on emerging techniques by Mr. Balraj Singh



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Emerging Techniques in Civil Engineering

List of Attendees

| Sr. No. | Roll No. | Name | Department | Year | Sign |
|---------|----------|--------------------|------------|------|----------|
| 1 | 2816602 | NITIN | CE | 4th | Nitin |
| 2 | 2816603 | SACHIN | CE | 4th | Sachin |
| 3 | 2816609 | HARSHIT KAUSHIK | CE | 4th | Harshit |
| 4 | 2816612 | SUNNY GOYAL | CE | 4th | Sunny |
| 5 | 2816658 | NAVNEET | CE | 4th | Navneet |
| 6 | 2816665 | SANJAY | CE | 4th | Sanjay |
| 8 | 2816506 | BISHNU DEV SHAH | CE | 4th | Bishnu |
| 9 | 2816432 | RAHUL GOSWAMI | CE | 4th | Rahul |
| 10 | 2816454 | SHEKHAR KUMAR SHAH | CE | 4th | Shekhar |
| 11 | 2818681 | ABDULLAH ANSARI | CE | 3rd | Abdullah |
| 12 | 2818684 | BHASHKAR PANDEY | CE | 3rd | Bhashkar |
| 13 | 2818686 | VIVEK KUMAR RAWAL | CE | 3rd | Vivek |
| 14 | 2818690 | ARUN SAH | CE | 3rd | Arun |
| 15 | 2818692 | SANJIT KUMAR YADAV | CE | 3rd | Sanjit |
| 16 | 2818695 | ANIL KUMAR YADAV | CE | 3rd | Anil |
| 17 | 2818697 | SRISHTI THAKUR | CE | 3rd | Srishti |
| 18 | 2818699 | MANISH YADAV | CE | 3rd | Manish |
| 19 | 2820701 | RAKSHIT SHARMA | CE | 2nd | Rakshit |
| 20 | 2820702 | PARSHANT ROHILLA | CE | 2nd | Parshant |
| 21 | 2820703 | PARIT JAIN | CE | 2nd | Parit |
| 22 | 2820705 | HEMANT | CE | 2nd | Hemant |
| 23 | 2820706 | SONALAL SAH TURAHA | CE | 2nd | Sonal |
| 24 | 2820709 | SAHIL | CE | 2nd | Sahil |
| 25 | 2820710 | AMAN KUMAR | CE | 2nd | Aman |
| 26 | 2820711 | NIKHIL KUMAR | CE | 2nd | Nikhil |
| 27 | 2820712 | VIJAY CHAUDHARY | CE | 2nd | Vijay |
| 28 | 2820714 | GAURAV KUMAR | CE | 2nd | Gaurav |
| 29 | 2820715 | VISHWAS | CE | 2nd | Vishwas |
| 30 | 2820718 | SONU KUMAR | CE | 2nd | Sonu |
| 31 | 2820719 | CHIRAG JHINJHRIA | CE | 2nd | Chirag |
| 32 | 2820720 | KUNAL | CE | 2nd | Kunal |
| 33 | 2820724 | VINOD KUMAR | CE | 2nd | Vinod |
| 34 | 2820725 | DIKSHA SHARMA | CE | 2nd | Diksha |

Mr. Devender
Co-ordinator