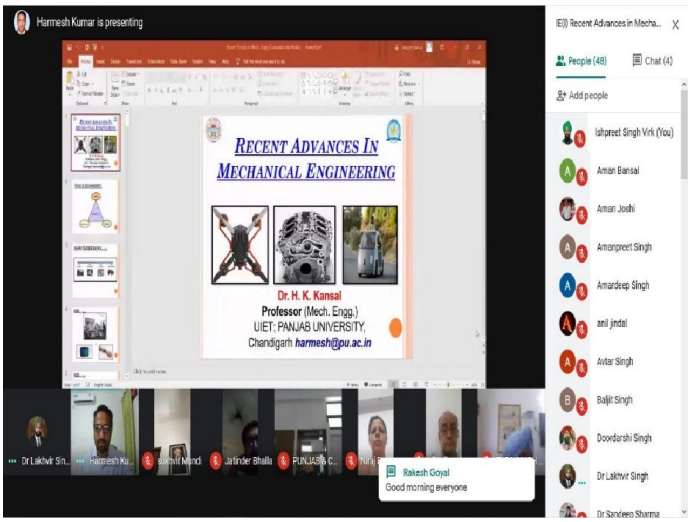
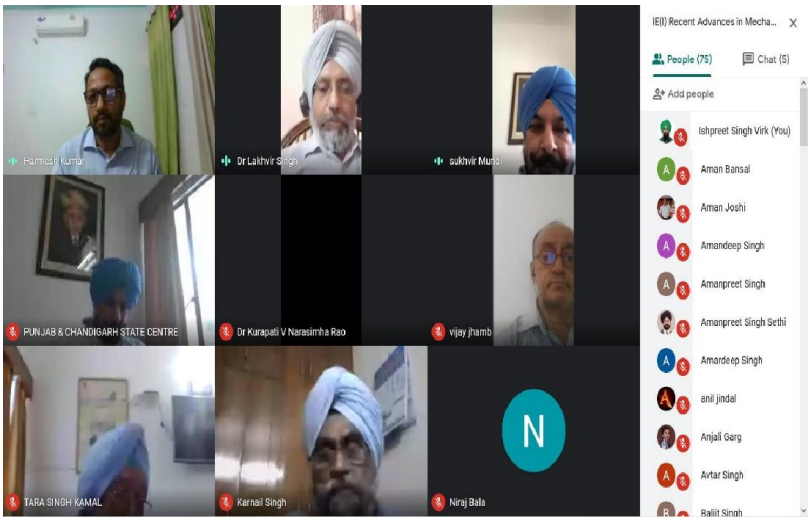
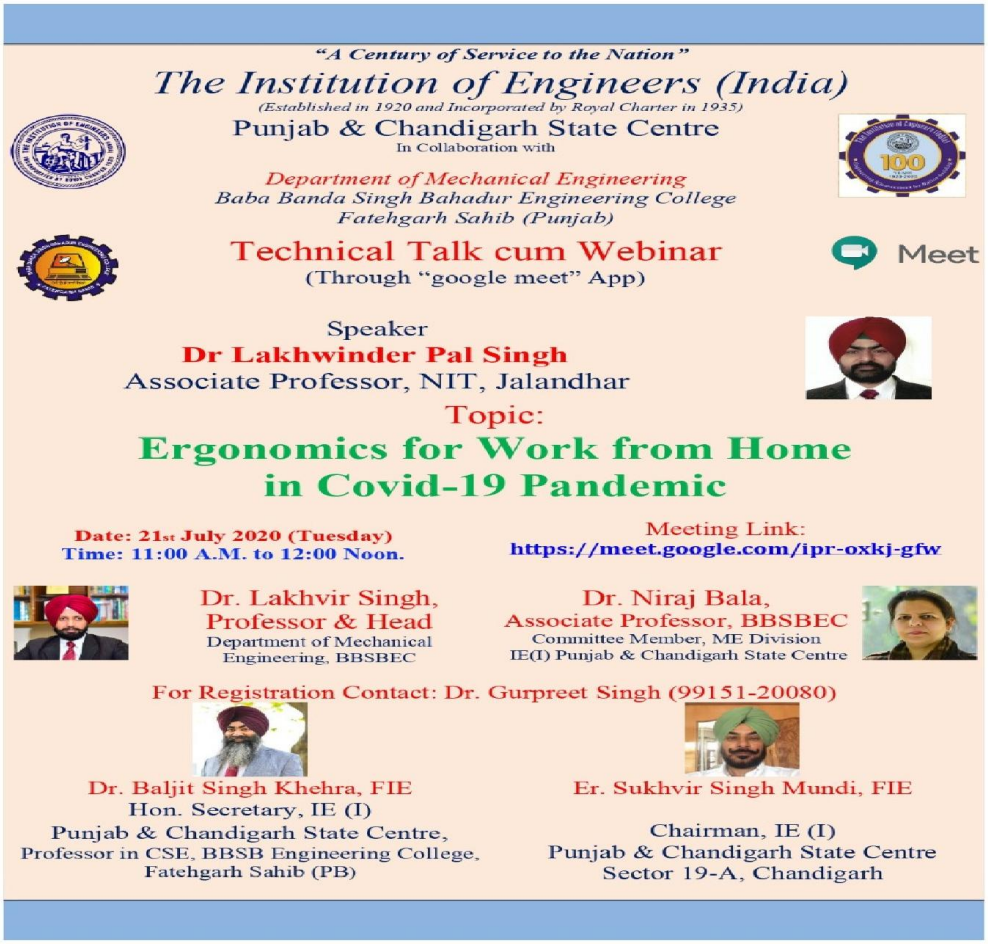
Details of webinar Organised by Mechanical Engg deptt

1. Webinar on “Recent Advances in Mechanical Engineering”, in collaboration with The Institution of Engineers (IE, India) on 16th July 2020. Dr Harmesh Kumar Kansal, Professor, UIET, Panjab University, speaker for the event,

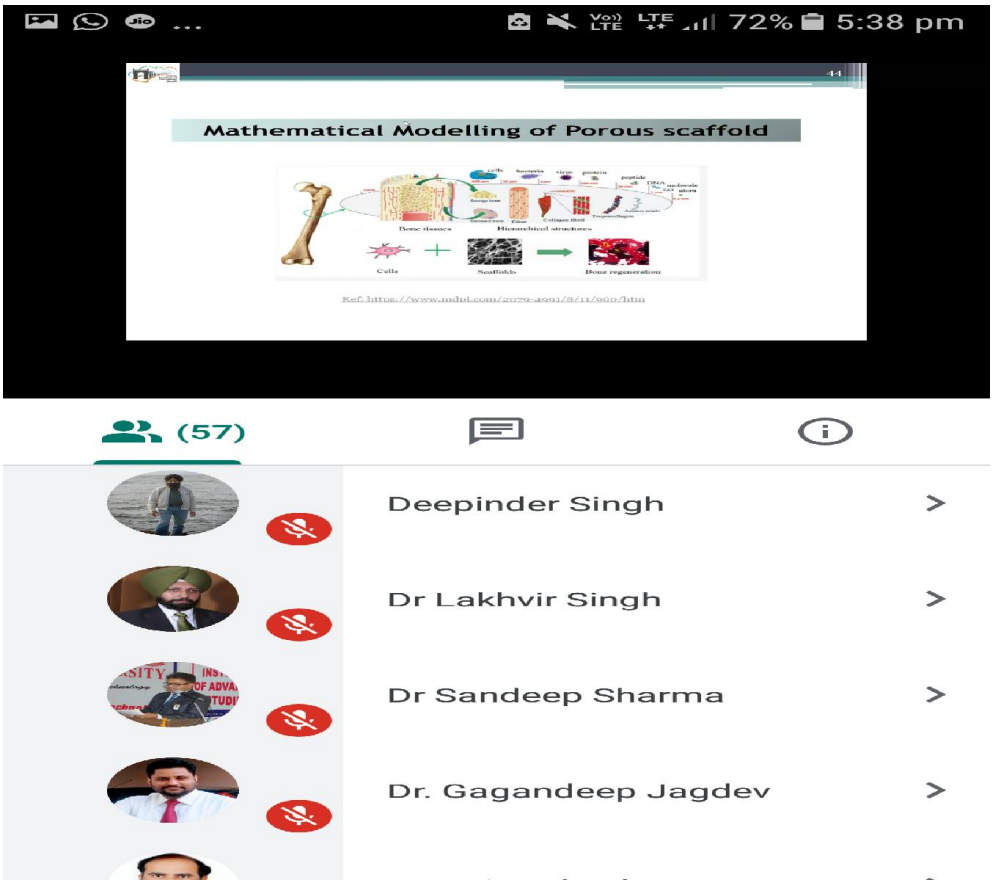




2. Webinar on “Ergonomics for Work from Home in Covid-19 Pandemic” in collaboration with The Institution of Engineers (IE, India), on 21st July 2020. Dr. Lakhwinder Pal Singh, Associate Professor, NIT, Jalandhar, was speaker for the event. Around, 120 participants registered and attended the webinar on the google meet app.



3. Webinar on "Realization of Functionally Graded Materials in Modern Orthopedic Medicine" in collaboration with The Institution of Engineers (IE, India) on 14th August 2020. Dr. Mohammad Talha, Associate Professor, School of Engineering, IIT Mandi (HP) was the speaker of the session. Around, 110 participants registered and 57 participants attended the webinar on the google meet app.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Mathematical Modelling of Porous scaffold
Dense tissues
Hierarchical structures
Cells
Scaffolds
Bone regeneration
Ref: https://www.mdpi.com/2079-4991/8/11/900/htm
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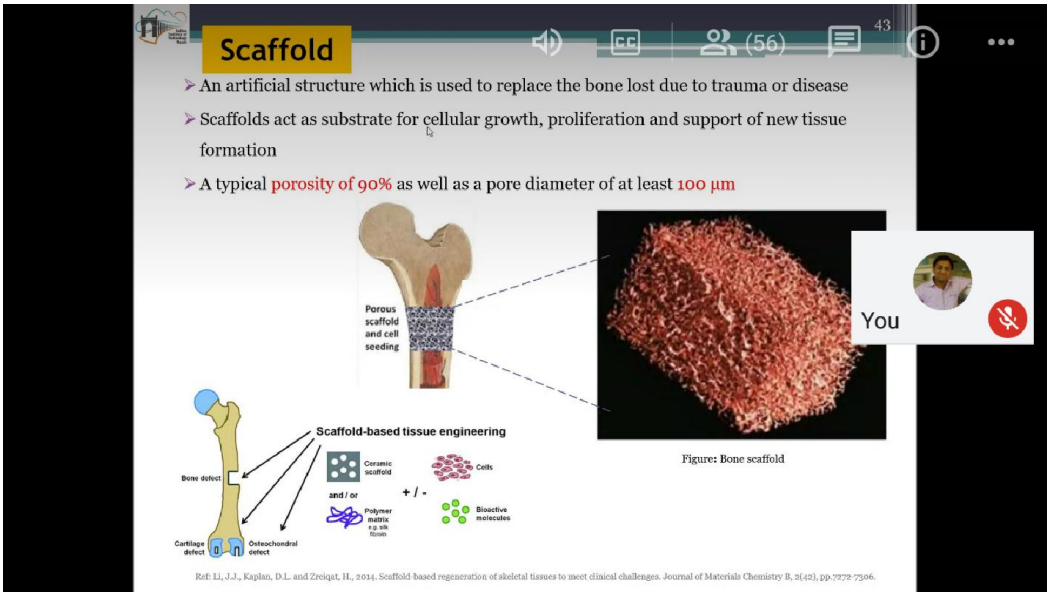
Deepinder Singh
Dr Lakhvir Singh
Dr Sandeep Sharma
Dr. Gagandeep Jagdev


Scaffold
43
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An artificial structure which is used to replace the bone lost due to trauma or disease
Scaffolds act as substrate for cellular growth, proliferation and support of new tissue formation
A typical porosity of 90% as well as a pore diameter of at least 100 µm
Porous scaffold and cell seeding
Figure: Bone scaffold
Scaffold-based tissue engineering
Bone defect
Cartilage defect
Osteochondral defect
Ceramic scaffold
and / or
Polymer matrix
Cells
+ / -
Bioactive molecules
Ref: Li, J.J., Kaplan, D.L. and Zreiqat, H., 2014. Scaffold-based regeneration of skeletal tissues to meet clinical challenges. Journal of Materials Chemistry B, 2(42), pp.7272-7306.
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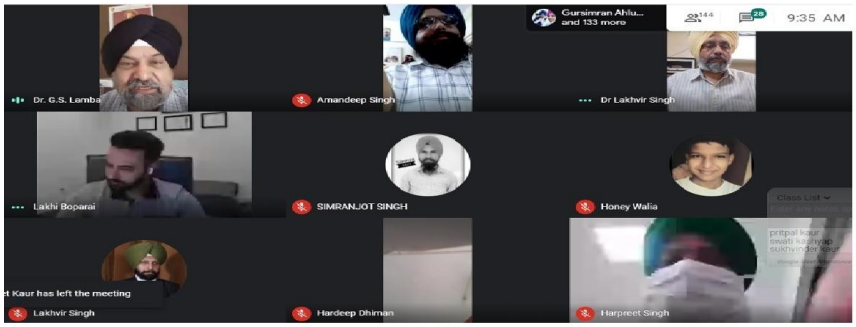
4. Webinar on “Mechanical Engineers in Aerospace Sector” on 7th September 2020. Er Lakhwinder Singh Boparai, Engineering Manager, Boeing, USA, an alumnus of Batch 1998-2002 was the speaker for the webinar. Around, 170 participants comprising



5. Webinar on the topic “Vehicle Crash safety in Automotive Sector” on 14th September 2020. Dr Vishal Gupta, Technical Lead-Pedestrian Protection, General Motors, USA, was the speaker for the session. Around, 140 participants registered and attended the webinar on the google meet app.