

Report of Expert Lecture on “Graphene Reinforced Functionally Graded Porous Panels for Defence Applications”

1 message

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Brief Report of Expert Lecture on “Graphene Reinforced Functionally Graded Porous Panels for Defence Applications”

Dear All

Department of Mechanical Engineering organized an expert lecture of Dr. Mohammad Talha, Associate professor, IIT Mandi on the topic “**Graphene Reinforced Functionally Graded Porous Panels for Defence Applications**” on January 31, 2024 in Hall 2, Central Auditorium, Integral University Lucknow.

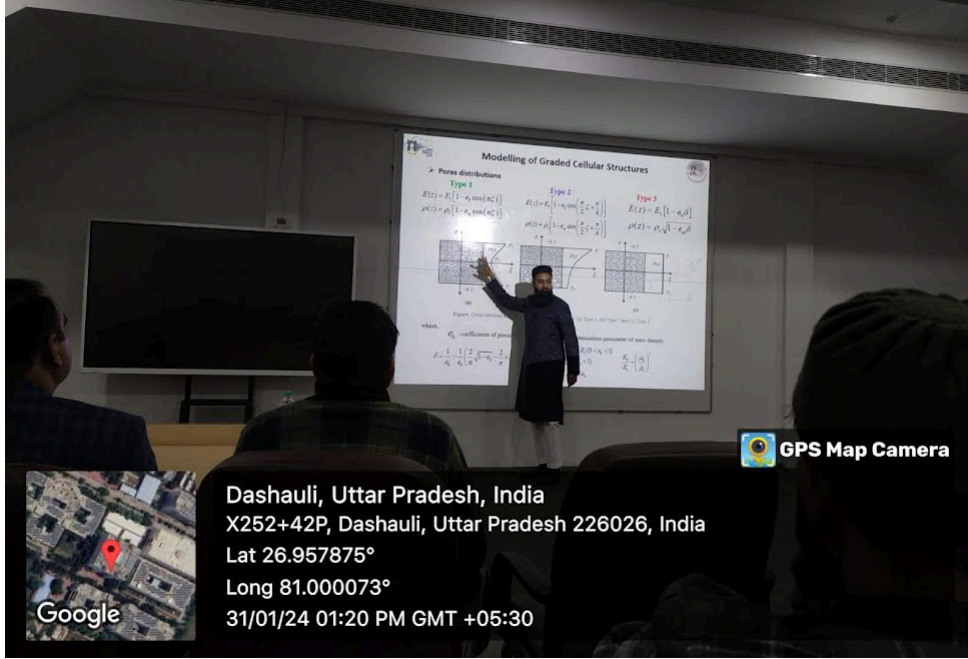
Dr. Talha is a prominent researcher in the field of Computational Solid Mechanics as well as High Technology Materials and Structures. He is also a visiting faculty at Xidian University, China, Guest Researcher at UTBM, France & has successfully completed various projects funded by DRDO, SERB and other funding agencies.

Expert lecture commenced with the welcome address of Prof. (Dr.) P.K Bharti, Head, Department of Mechanical Engineering. Thereafter, Dr. Talha in his address explained the importance of Graphene Reinforced Functionally Graded Porous Panels for protective design against explosives, which is also viable for lightweight military belongings like body armor, helmets, aerial drones and military tanks. He also explained the influence of material uncertainty on the dynamic response of functionally graded graphene nanoplatelets reinforced porous spherical panels under air blast loading. A very interesting fact he explained is that Graphene reinforced composites show their high specific strength and stiffness over metals in terms of matrix cracking, de-lamination, fiber–matrix debonding, etc. under high strain rate & blast loadings.

All the faculty members and research scholars attended this expert lecture, and actively participated in the question-answer session also.

The session ended with a vote of thanks by Dr. Mohammad Seraj, Assistant Professor, Department of Mechanical Engineering.





Regards

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Dr. P.K.Bharti
Professor & Head
Convener (ICCMRE-2018)
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