

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
ELECTRICAL ENGINEERING DEPARTMENT

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Report on Expert Lecture

An expert lecture on Nested grid and peer to peer trading was delivered by Dr. Prateek Saxena, CEO & Co-founder, Hygge Energy Inc., Viking, Ontario, Canada. 95 students from B.Tech (Electrical Engineering) 3rd & final year and M.Tech (Power Engg.) attended the lecture. Dr. Prateek began with basics of microgrid and need for micro grid. He then explained the concept of nested grid. He gave an insight into peer to peer trading within the micro grid which could be beneficial for utility as well as customers. He said that solar energy being fed into the grid was not being welcomed by the utility as utility was losing on the infrastructure investment costs already incurred. So to promote use of non conventional resources, peer to peer trading using block chain would be the perfect solution. He cited the example of recent project of his projects with Himachal Government and Indian Oil Corporation where his concepts were being employed.

Outcomes of the lecture:

1. Students and faculty became aware of concept of micro grid and nested grid.
2. Students and faculty were introduced to concept of peer to peer trading and block chain in power trading.
3. Dr. Prateek offered internships/trainings to students at his India/Canada office.
4. Dr. Prateek agreed to be on board of advisors for proposed centre of excellence for electric vehicles being set up in college.


Dr. ARVIND DHINGRA

Activity Coordinator

Cc: Coordinator, TEQIP-III