



Indian Institute of Technology Kanpur Chandrakanta Kesavan Lecture Series



March 19, 2024(Tuesday)



05:30 PM



LH-13

Speaker : Dr Rohan Shetty

**Vegetation response to Climate Change in the sub-arctic, alpine and tropical environments:
Current projects and future ideas for research and development of sustainable landscapes.**

About the Talk



Contemporary climate warming has severe impacts on all ecosystems. Environmental proxies are critical in tracing the impacts on the ecosystems. Vegetation from the Arctic and alpine ecosystems is very sensitive to warming and acts as a promising proxy to model and forecast the bio-climatological changes our planet is experiencing. Using various methods from dendroecology and dendrochemistry, our research group has worked on modelling changes due to warming and pollution in the environment. In this talk, I wish to discuss the work our research group is carrying out in the sub-arctic and alpine environments in Europe and ecosystem studies carried out in India. I wish to share and explore research ideas and the development of teaching materials that we can collaborate on and work together.

About the Speaker

Dr Rohan Shetti is a postdoctoral scientist working in the field of landscape ecology and ecosystem dynamics. He has research projects going on in the Czech Republic and India where his research focuses on understanding the response of vegetation to climate change. Furthermore, Dr Shetti also does consultancy for Carbon assessments and ESG-related topics for governmental, corporate and private clients. Dr Shetti founded the course on Environmental Analytics and has been teaching students in India and Europe since 2019 to help researchers from natural sciences to use programming languages like R for their research.

Beyond his works to the field of natural sciences, Dr. Shetti serves in an honorary capacity as the Vice-President of the Tribal Mensa Nurturing Program (TMNP), an NGO dedicated to identifying and nurturing gifted students from tribal, remote, and underprivileged communities in Maharashtra, India.

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