



MINISTRY OF SCIENCE AND TECHNOLOGY
MINISTRY OF EARTH SCIENCES
MINISTRY OF HEALTH & FAMILY WELFARE
GOVERNMENT OF INDIA



One Day Virtual Outreach Programme

December 18, 2020



Organized by
Research and Development Section
Indian Institute of Technology Guwahati
In Association with
Indian International Science Festival 2020

Inauguration of Virtual Outreach Day

Time	List of Events
11: 00 - 11:05 am	Welcome Speech from Prof. Vimal Katiyar, Dean R&D
11:05 - 11:25 am	Speech on "Vision of IIT Guwahati for translational research in connection to Aatmanirbhar Bharat" from Prof. T.G. Sitharam, Director, IIT Guwahati
11:25 - 11:30 am	Declaration of COVID-19 Grand Idea Challenge Award by the Director
11:30 - 11:40 am	Presentation by the Awardee Mr. Vishnudath P., M.Des 1st Year, IIT Guwahati
11:40 - 11:45 am	Vote of Thanks from Prof. Subhendu Sekhar Bag, Associate Dean R&D

IIT Guwahati Faculty Talk

Time	Title of talk
11:45 - 12:05 pm	Machine Learning Applications in Indian Context. Dr. V Vijaya Saradhi
12:05 - 12:25 pm	The Emerging Chemistry of <i>peri</i>-Naphthoindigo. Dr. Kingsuk Mahata
12:25 - 12:45 pm	Use of Bio-Inspired Wettability for Designing Antiviral Coating Dr. Uttam Manna
12:45 - 1:05 pm	Enhanced Oil Recovery: Screening of a Scheme Dr. Pankaj Tiwari
1:05 - 1:25 pm	Design of Engineered Surfaces for Prospective Detection of SARS-CoV-2 Dr. Lalit Mohan Pandey
1:25 - 1:45 pm	Frugal Design and Engineering Dr. Pankaj Upadhyay
1:45 - 2:05 pm	Research Advances in Handwriting Recognition of Assamese script Dr. Suresh Sundaram
2:05 - 2:25 pm	Influence of Underlying Soil on Earthquake Resistant Behaviour of Multistoried Reinforced Concrete Buildings Dr. Kaustubh Dasgupta
2:25 - 2:45 pm	India's strategic diplomacy in the Asia Pacific: Prospects & challenges Dr. Pahi Saikia

2:45 - 3:05 pm	Passive prosthetic knee joint with medio-lateral knee rotation, anterior-posterior knee adjustability and varying link length option Prof. S Kanagaraj
3:05 – 3:25 pm	Dynamics of Early Universe Dr. Debaprasad Maity

IIT Guwahati PhD students and Postdocs Talk

Time	Title of talk
3:30 - 3:40 pm	Highly Durable and Economical Superhydrophobic Oil Absorbent Adopting a Scalable Chemical Approach Ms. Arpita Shome
3:40 - 3:50 pm	Counting the cost of socio-economic development in terms of alteration in groundwater storage and river discharge Dr. Ashes Banerjee
3:50 - 4:00 pm	Outsmarting the Smart Virus Mr. Kamal Shokeen
4:00 - 4:10 pm	Thermophysical Characterization of Nanoparticles Dispersed Deep Eutectic Solvent (NDDES) as Heat Transfer Fluid Dr. Papu Kumar Naik
4:10 - 4:20 pm	Potentials of ayurvedic formulations as anti-cancer agents Mr. Mohammed Rafi Uz Zama Khan
4:20 - 4:30 pm	A Photocatalytic approach in Medicinal Chemistry for synthesis of 1,2,3-Triazole compounds of Pharmatceutical/Biological importance Mr. Sayantan Sinha
4:30 - 4:40 pm	Crosstalk between malaria and virus: Potentials of Ranikhet disease for novel therapeutic interventions in malaria Mr. Siddharth Neog
4:40 - 4:50 pm	Cardiovascular patient-specific modelling and its application in medicine Mr. Mahesh Nagargoje
4:50 - 5:00 pm	Award Declaration for the Best Paper Presentation by the Students