

Faculty Development Program on Enhanced Teaching, Learning, and Research – 2020

(Online) organized by



DEPARTMENT OF PHYSICS AND NANOTECHNOLOGY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR, CHENNAI, INDIA
9th – 18th July 2020

EXPERTS



Prof. Pratibha Jolly
FNASc, FInstP (IoP, UK),
Academic Consultant NAAC



Prof. Chandralekha Singh
President, Am. Assoc. of Phys. Teachers
University of Pittsburgh, USA



Prof. S.V.M. Sathyanarayana
Pondicherry University, India



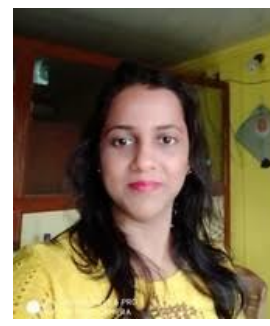
Prof. G. P. Das
IIT, Kharagpur, India



Prof. Manjula Sharma
Professor of Science Education
The University of Sydney, Australia



Prof. Shyam Diwakar
Amrita VishwaVidyapeetham,
India



Ms. Purba Chakraborty
Octava Technology & Services
Pvt. Ltd. India



Prof. Manoj Kumar Harbola
Department of Physics
IIT Kanpur, India



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Faculty Development Program (FDP) - 2020
on Enhanced Teaching, Learning, and Research

S. No.	Date & Time (IST)	Title of the talk	Speaker	Moderator & Speaker Introduction
1	9-7-2020 Thursday 09:40-10:50	Revitalizing Physics Education at the Tertiary Level	Prof. Pratibha Jolly <i>FNASc, FInstP (IoP, UK), Science and Society Fellow, NASI, Academic Consultant NAAC, Former General Secretary of Indian Association of Physics Teachers</i>	Prof. Karthigeyan & Dr. Eswar & Dr. Kiran
2	10-7-2020 Friday 9:00-10:10	Helping students learn quantum mechanics using research-validated tools	Prof. Chandralekha Singh <i>President, American Association of Physics Teachers (AAPT) Professor, Department of Physics and Astronomy, University of Pittsburgh, USA</i>	Dr. Abhay Sagade & Dr. Senthil Kumar
3	13-7-2020 Monday 9:30-10:40	Statistical Mechanics for Scientists and Engineers	Prof. S.V.M. Sathyanarayana <i>Department of Physics, Associate Professor Pondicherry University, India</i>	Dr. Kamala Bharathi & Dr. Navaneethan
4	14-7-2020 Tuesday 9:30-10:40	Teaching Physics of Materials: from Concepts to Happenings	Prof. G. P. Das <i>Department of Metallurgical & Materials Engineering, IIT Kharagpur, India</i>	Dr. Chandra Mohan & Dr. Saurabh Ghosh
5	15-7-2020 Wednesday 9:30-10:40	Possible rationales for preparing teaching-learning techniques	Prof. Manjula Sharma <i>Professor of Science Education OLT National Teaching Fellow School of Physics, The University of Sydney, Australia</i>	Dr. Rohit Dhir & Dr. Eswar & Dr. Kiran
6	16-7-2020 Thursday 9:30-10:40	Complementing laboratory skills with online technologies: design and deployment of Virtual Laboratories for University-level higher education	Prof. Shyam Diwakar <i>Director Computational Neuroscience and Neurophysiology Laboratory, Amrita Vishwa Vidyapeetham, India</i>	Dr. Yuvraj & Dr. Archana
7	17-7-2020 Friday 9:30-10:40	Online teaching and learning methodologies	Purba Chakraborty <i>CoFounder, Octava Technology & Services, Pvt. Ltd. India</i>	Dr. Surya & Dr. Alagirisamy
8	18-7-2020 Saturday 15:00– 16:10	Understanding energy bands in solids: their origin and how they determine the properties of solids	Prof. Manoj K. Harbola <i>Department of Physics IIT Kanpur, India</i>	Dr. Saurabh Ghosh & Dr. Jaivardhan Sinha



Join Zoom Meeting

<https://us02web.zoom.us/j/82582365552?pwd=dXRVOGxVR2R1TFc5T3B4VHhCb2k2Zz09>

Meeting ID: 825 8236 5552 & Password: 198858

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