Dr. B. R. Ambedkar National Institute of Technology, Jalandhar

Department of Chemical Engineering

One Week Online International Short Term Course

on

"Current and Future Scope of Surface Coatings" December 2 to 6, 2020

CHIEF PATRON

Professor (Dr.) Lalit Kumar Awasthi,
Director,
Dr. B R Ambedkar National Institute of Technology, Jalandhar

CONVENER

Dr. Sangeeta Garg, Associate Professor & Head
Department of Chemical Engineering
Dr B R Ambedkar National Institute of Technology, Jalandhar

COURSE COORDINATOR

Dr. Raj Kumar Arya, Associate Professor
Department of Chemical Engineering
Dr B R Ambedkar National Institute of Technology, Jalandhar

Experts

Prof. G. D. Verros, Aristotle University of Thessaloniki, Epanomi, Greece

Dr. Juan M. Desantos, Technical Director, Avery Dennison, USA

Prof. Vijay Mannari , Eastern Michigan University USA

Dr. Ganpat Dahe, Hydromer Inc., USA

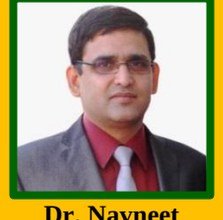
Prof. R.N.Jagtap, ICT Mumbai

Prof. P. A. Mahanwar, ICT Mumbai

Dr. Pramod Gangiyan, MD, Sweet Om Inks Pvt. Ltd.

Mr. Dhiraj Wadhwa , DGM, Tatamotors Pvt. Ltd.

Dr. Subarna Shyamroy, Chief Manager - Technology, Asian Paints Ltd.



Dr. Navneet Kumar, Head of Sales (Europe), Jindal Poly Films Pvt. Ltd.

Mr. Prabir Das, Paint consultant; Ex. Head Berger Paints Russia Op.

Dr. Shekhar Agnihotri, NIFTEM, Sonepat, India

ORGANIZING COMMITTEE

- Dr. S.K. Sinha
- Dr. S K Mishra
- Dr. A Mukhopadhyay
- Dr. Ajay Bansal
- Dr. Amit D. Saran
- Dr. Anjireddy Bhavanam
- Dr. Anurag K. Tiwari
- Dr. Deepak Sahu
- Dr. J K Ratan
- Dr. M. K. Jha
- Dr. N K Srivastava
- Dr. Neetu Divya
- Dr. Nitin N Pandhare
- Dr. Poonam Chadha
- Dr. Renu Bansal
- Dr. S Bajpai
- Dr. Shashikant Yadav
- Dr. Rajeev Mehta
- Dr. Avinash Chandra
- Mr Chitresh Kr. Bhargava
- Ms. Jyoti Sharma

ABOUT NIT, JALANDHAR

Dr B.R. Ambedkar National Institute of Technology Jalandhar (NITJ) was established in the year 1987 as Regional Engineering College and was conferred the status of National Institute of Technology (Deemed University) by the Government of India on October 17, 2002 under the aegis of Ministry of Human Resource Development, New Delhi. The Government of India has declared the Institute as an "***Institute of National Importance***" under an act of Parliament in 2007.

As one of the National Institutes of Technology (NIT), the Institute has the responsibility of providing high quality education in Engineering, Technology and Sciences to produce competent technical and scientific manpower for the country. The Institute offers B Tech, M Tech, M Sc, MBA and PhD programmes in several disciplines of Engineering, Technology and Sciences.

ABOUT THE DEPARTMENT

The Department was established in 1990 and has been playing a vital role in the development of Chemical Engineering education and research by offering B.Tech, M. Tech and PhD programmes. Its Alumni are occupying eminent positions in chemical industries, research and academic institutions in India and abroad. The Department has established state-of the art laboratories with sophisticated equipment for undergraduate courses and research work. The Department recently received coveted FIST grant of Rs. 155 Lac from Department of Science and Technology, New Delhi to augment post graduate research.

OBJECTIVES OF THE COURSE

Coatings are an integral part of our daily life. The vital role that coatings play in every sphere of our life is unquestionable as every item we use is covered with a layer of coating. The intriguing surface characteristics of coatings even at nanoscale create / improve a material's functionalities such as corrosion resistance, friction reduction, antifouling and antibacterial properties, self-cleaning, heat and radiation resistance for commercial applications.

Questions must be looming large on how coating works in different sectors. Well, the extensive use of coatings can be garnered from the fact that right from the food we consume to the clothes we wear, the medicines we intake or the furniture we use, the vehicles we drive or the paints we use to colour our houses each object needs a protective barrier to enhance and impart special properties to the base material thereby boosting durability as well as beautifying the products. It is also used to augment the specific characteristics of the base material such as functionality, strength, conductivity, magnetism, etc.

This short term course is designed to provide insights in trending technological developments; generate areas for future scope of research and development as well as deliver insights to new applications used in coating. The course would also bridge gaps between the industry and the learners, providing insights into the various technicalities of the industry.

E-CERTIFICATES WILL BE ISSUED TO THE REGISTERED PARTICIPANTS ONLY.

REGISTRATION FEE

Registration is open to: academia, industry, and R & D laboratories. Interested participants may apply by filling registration form given below.

Academia : Rs 100

Industry participants : Rs 200

Registration fee (Non refundable) and need to be paid to paytm OR google pay : +91-9819588825. The screenshot of the payment need to be uploaded during registration. There is no registration fee for NITJ students and employees.

Registration link for NITJ:

https://forms.gle/1RoeLSDaioWyZf1P8

Registration link for others:

https://forms.gle/8GVYHE4maDUn4Wtz6

CONFIRMATION OF PARTICIPATION

On receipt of the Google form and fee remittance receipt, participants will be sent confirmation of their participation through email by **30th November, 2020**. As the programme is conducted online, the number of participants in the STC is limited to 200. Candidates are advised to register early to avoid disappointment

For any query related to STC, please contact, ***aryark@nitj.ac.in, or +91-9819588825***

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Registration link for NITJ: https://forms.gle/1RoeLSDaioWyZf1P8 , Registration link for others: https://forms.gle/8GVYHE4maDUn4Wtz6

Date	10:30 – 11:00	11:00 – 12:00	12:00-13:00	13:00 – 14:00	14:00 – 15:00	15:00 – 16:00	16:00 – 17:00	17:00 – 18:00
02-12-2020 Wednesday		Fundamentals of Coating Processes by Dr Juan M. Desantos, Technical Director, Fundamentals and Applications, Avery Dennison USA.				Emerging trends in architectural Coating by Dr. Subarna Shyamroy, Chief Manager - Technology, Asian Paints Ltd.		
03-12-2020 Thursday		Modeling Glassy Polymer Coatings: Non Equilibrium Thermodynamics Aspects by Prof. G. D. Verros, Department of Chemistry, Aristotle University of Thessaloniki, Epanomi, Greece.			Non-Isocyanate Polyurethane: Towards Sustainable Polymers for Paints and Coatings by Prof. Vijay Mannari , Professor and Director, Coatings Research Institute Eastern Michigan University USA.			
04-12-2020 Friday		UV curing – Growth Driver for Surface Coating Industries by Mr. Prabir Das, Paint consultant; Former -Factory Head ,Berger Paints Russia Operation.			Sustainable Polymers for Eco-friendly Coatings by Prof. R.N.Jagtap, Department of Polymer & Surface Engineering, ICT Mumbai.			
05-12-2020 Saturday		Surface Coatings in Flexible & Packing Industry by Dr. Pramod Gangiyan, Managing Director, Sweet Om Inks Pvt. Ltd.			Nanoantimicrobial Surface Coatings by Dr. Shekhar Agnihotri, Assistant Professor, Department of Agriculture and Environmental Sciences, NIFTEM, Haryana.		General Trends & a Brief Review of Surface Coatings in Automobile Industry by Mr. Dhiraj Wadhwa , DGM, Tatamotors Pvt. Ltd.	
06-12-2020 Sunday		Application of Bicompatible Polymer on Hollow Fiber Lumen by Dr. Ganpat Dahe, Coating Service Manager, Hydromer Inc., USA.		Barrier Coating in Food Packaging Applications by Dr. Navneet Kumar, Head of Sales (Europe), Jindal Poly Films, India.		Valedictory		

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