INTRODUCTION

The recent development in material and surface treatment processes is helping industries to produce economical and reliable products. However, selection of appropriate material and manufacturing process has a challenging task for economical product design in today's cut- throat competitions. The inherent properties of material can be enhanced using advance material processing techniques which enables in the generation of sustainable and competitive products. The surface treatment processes like electroplating, electroless plating, heat treatment, laser heat treatment, laser surface coating, etc. have been successfully utilized in industry for these purpose. Mechanical properties like surface quality, wear resistance, electrical and thermal conductivity will be improved using these processes. Analysis of performance and effectiveness for the surface treatment is very complex phenomenon due to the involvement of numbers of processing parameters. After the course the participants will get the basic knowledge about electro and electroless coating, laser surface engineering, Electro Discharge Coating, etc.

OBJECTIVES

- To understand in-depth fundamentals and high fidelity of surface treatment processes employed on the different materials and alloys.
- To understand the applicability of surface treated products.

CONTENTS

- Electro and Electroless coating: From theory to application
- Laser material processing.
- Thermal assisted surface engineering process
- Development and application of advanced engineering material.

HIGHLIGHTS OF THE PROGRAMME

Technical sessions and discussions will be conducted by the expert faculties from reputed Universities located abroad and in India along with eminent speakers from IITs and NITs.

ORGANIZING COMMITTEE

Patron: Prof. S. Bandopadhyay, Director, NIT Silchar

Chairman: Dr. P. K. Patowari, Professor & HoD Department of Mechanical Engineering

Advisors: Prof. K. M. Pandey, Prof. R.D. Misra,

Members: Dr. K.Chakraborty,

Mr. D.H. Das,

Dr. K.K. Sharma,

Dr. P. Choudhury,

Dr. P. Deb Roy,

Mr. S.K. Pattanayak,

Dr. L. Roy,

Dr. S. Bhowmik,

Dr. S. Pati,

Dr. D. Bhanja,

Dr. S. Halder,

Dr. S. Nath,

Dr. S. Dey, Dr. A. Biswas, Dr. S. R. Maity, Dr. P.R.Randive, Dr. B. Das, Dr. S. Deb Barma, Dr. A. Paul, Dr. B. Das, Dr. Y. Singh.

Coordinator: Dr. Ashish B. Deoghare

Coordinator, Assistant Professor, ME Deptt.

Dr. Chinmaya Kumar Sahoo

Coordinator, Assistant Professor, ME Deptt.

Email-id: mpst2018nits@gmail.com

Mobile No: 9373986998,9040486943

One week Short Term Course

on

Material Processing and Surface Treatment (MPST-2018)

(Under TEQIP–III)

1st October to 5th October 2018

Venue: Seminar Hall, ME Department

National Institute of Technology Silchar (Assam)

REGISTRATION FORM

1. Name:
2. Designation:
3. Institution:
4. Address for communication:

E mail:

Phone/Mobile No:

5. Highest educational qualification:
6. Accommodation required (Tick): Yes/No
7. Any other information:
8. Details of Registration Fee:

Transaction detail/ D. D. No.:

Date: Bank:

Place:

Date:

Signature of the applicant

Recommended By

Institute Head/Head of Deptt.

ABOUT THE INSTITUTE

National Institute of Technology (NIT) Silchar, an Institute of National Importance under the NIT Act was established in 1967 as Regional Engineering College (REC) Silchar in Assam. In year 2002, it was upgraded to the status of an NIT from REC. NIT Silchar is situated on the banks of river Barak and on a sprawling campus spread over 600 acres of land on the outskirts of Silchar. The landscape of NIT Silchar campus is beautiful with natural lakes and hillocks, surrounded by tea gardens. The climate of Silchar during September- October is very pleasant with normal temperature around 27-30^{0}C and little cloudy. NIT Silchar is a fully residential institution with nine hostels for boys and two hostels for girls. It has six engineering degree offering branches and five non-engineering branches. It conducts various programmes, including organizing the workshops, seminars, conferences, invited talks etc. in collaboration with different academic departments, institutes and reputed multinational and national industries.

REGISTARTION DETAILS

- Internal Students: ₹. 500/-
- External Students: ₹. 1000/-
- Internal Faculty members: ₹. 1000/-
- External Faculty members: ₹. 3000/-
- Industry Persons: ₹. 5000/-

The registration fee includes registration kit and lunch. All participants have to pay the registration fees before submitting application either (i) via DD in favour of Director NIT Silchar, Payable at State Bank of India, NIT Silchar branch or (ii) online transfer to the account of the Director, NIT Silchar (A/C No.: 10521277057, Branch: NIT Silchar). Brochure and registration form can also be downloaded from: http://www.nits.ac.in/

Submission Process:
Scanned copies of both registration form along with D.D. (or online transfer proof) are to be sent to on or before 29th September 2018 via email: mpst2018nits@gmail.com. The original hard copies of registration form and D.D. has to be submitted at the registration desk, just before the commencement of the workshop.

ELIGIBILITY

This program is open to faculty members, research scholars, UG & PG students of technical institutions, engineering colleges, polytechnics, universities and other recognized institutions. The number of participants is limited to 50.

TENTATIVE SPEAKERS

Dr. Véronique Vitry, University of Mons, Belgium and Expert faculties from reputed Universities located abroad and in India along with eminent speakers from IITs and NITs.

HOW TO REACH NIT SILCHAR

There are daily flights from Kolkata, Guwahati. Taxi are available from Airport to NIT Silchar. Silchar is also well connected by road and train.

ACCOMMODATION AND TRAVEL

All the out station participants will be provided accommodation on payment basis in the Guest House of the Institute. No TA and DA will be paid to the participants.

ADDRESS FOR COMMUNICATION

Dr. Ashish B. Deoghare
Coordinator, Assistant Professor,
Department of Mechanical Engineering
NIT Silchar, Assam, India, PIN: 788010
Mobile: 09373986998
mpst2018nits@gmail.com

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