



INDIAN INSTITUTE OF TECHNOLOGY INDORE

3-Day Short Course on

Advanced Surface Science and Engineering

March 26th to 28th, 2018

Program Schedule

<u>Day 1 – 26th March 2018</u>	
9.00 to 9.40	Registration
9:40 to 10:00	Inaugural Function
10:00 to 10:15	Tea Break
10:15 to 11:30	Effect of Surface on Optical and Electrical Properties of Nanostructured Materials (<i>by Dr. P. M. Shirage</i>)
11:30 to 12:30	Coating Methods (<i>by Dr. R. S. Devan</i>)
12:30 to 1:30	Surface Modification of Fe-based Alloys – Part-I (<i>by Dr. S. S. Hosmani</i>)
1.30 to 2.30	Lunch
2:30 to 3:45	Surface Modification of Fe-based Alloys – Part-II (<i>by Dr. S. S. Hosmani</i>)
3:45 to 4:00	Tea Break
4:00 to 5:30	Tribology (<i>by Dr. J. Murugesan</i>)
<u>Day 2 – 27th March 2018</u>	
9.00 to 10.30	Advanced Surface Characterization – XRD and XPS (<i>by Dr. R. S. Devan</i>)
10.30 to 11:00	Tea Break
11:00 to 12:30	Advanced Surface Characterization – Electron Microscopy (<i>by Dr. R. S. Devan</i>)
12:30 to 1:30	Surface Engineering of Light-Weight Metals (<i>by Dr. H. Borkar</i>)
1:30 to 2:30	Lunch Break
2:30 to 3:30	Surface Mechanical Attrition Treatment of Stainless Steels (<i>by Dr. S. S. Hosmani</i>)
3:30 to 4:00	Tea Break
4:00 to 5:30	Surface Alloying & Deformation related Lab-Session – (<i>by Dr. S. S. Hosmani & Dr. H. Borkar</i>)
<u>Day 3 – 28th March 2018</u>	
9.00 to 10.30	Fatigue Testing (<i>by Dr. J. Murugesan</i>)
10.30 to 11:00	Tea Break
11:00 to 12:30	Introduction to EBSD and Texture Analysis (<i>by Dr. H. Borkar</i>)
12:30 to 1:30	Applications of Nano-structured Materials (<i>by Dr. P. M. Shirage</i>)
1:30 to 2:30	Lunch Break
2:30 to 4:30	Surface Coatings related Lab-Session – (<i>by Dr. R. S. Devan & Dr. P. M. Shirage</i>)
4:30 to 5:00	Tea Break
5:00 to 5:30	Conclusion and Certificate Distribution