

**Residential Certificate Course on
“Advanced Surface Engineering for Corrosion Prevention”
19th –20th January 2026, IIT Kharagpur**

Day 1: Advanced Surface Engineering for Corrosion Prevention (19-01-2026)

Time	Session Title	Mode	Faculty Assigned
08:30 – 09:00	Registration and Inaugural Session		
09:00 – 9:55	Surface Engineering for Corrosion Resistance Applications	Lecture	Prof. Jyotsna Dutta Majumdar, IIT Kharagpur
10:00 –10:55	Introduction to Thermal Spraying	Lecture	Prof. Tapas Laha, IIT Kharagpur
11:00 – 11:15	High Tea		
11:20 - 13:15	Processing of advanced high-strength steels (AHSS) in continuous galvanizing lines (CGLs)- An Industrial Perspective	Lecture	Dr. Anindita Chakraborty, Tata Steel
13:15 – 14:25	Working Lunch		
14:30– 16:30	Failure analysis & welding	Lecture	Dr. Goutam Mukhopadhyay, Tata Steel & Prof. Siddhartha Roy, IIT Kharagpur
16:35 – 18:30	Characterization techniques	Lecture/Lab	Dr. Subhranshu Chatterjee, Carl Zeiss India

Day 2: Advanced Surface Engineering for Corrosion Prevention (20-01-2026)

Time	Session Title	Mode	Faculty Assigned
09:00 – 9:55	Additive Manufacturing Technologies	Lecture	Prof. Vladimir Popov, Ariel University, Israel
10:00 – 11:00	Oxidation and thermal protection coatings for high-temperature materials for space applications	Lecture	Prof. S C Sharma, IIT Roorkee
11:00 – 11:15	Tea Break		
11:20 – 12:15	Surface Characterization by TEM	Lecture	Dr. Sandeep Bysakh, CSIR-CGCRI
12:20-13:20	Corrosion Control by Grain Boundary Engineering	Lecture	Prof. Sumantra Mandal, IIT Kharagpur
13:20 – 14:25	Working Lunch		
14:30 – 15:30	Structural Details of Surface by Advanced Characterization Tool	Lecture	Prof. Indranil Manna, BIT Mesra
15:30 – 16:30	Valedictory Session and Certificate Distribution		