

**Residential Certificate Course on**  
**“Advanced Surface Engineering for Corrosion Prevention”**  
**19<sup>th</sup> –20<sup>th</sup> 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 | <b>Registration and Inaugural Session</b>   |             |  |
| 09:00 – 9:55  | <b>Surface Engineering for Corrosion Resistance Applications</b>  | Lecture     | <b>Prof. Jyotsna Dutta Majumdar, IIT Kharagpur</b>                                   |
| 10:00 –10:55  | <b>Introduction to Thermal Spraying</b>   | Lecture     | <b>Prof. Tapas Laha, IIT Kharagpur</b>   |
| 11:00 – 11:15 | <b>High Tea</b>   |             |  |
| 11:20 - 13:15 | <b>Processing of advanced high-strength steels (AHSS) in continuous galvanizing lines (CGLs)- An Industrial Perspective</b> | Lecture     | <b>Dr. Anindita Chakraborty, Tata Steel</b>  |
| 13:15 – 14:25 | <b>Working Lunch</b>  |             |  |
| 14:30– 16:30  | <b>Failure analysis &amp; welding</b>   | Lecture     | <b>Dr. Goutam Mukhopadhyay, Tata Steel &amp; Prof. Siddhartha Roy, IIT Kharagpur</b> |
| 16:35 – 18:30 | <b>Characterization techniques</b>  | Lecture/Lab | <b>Dr. Subhranshu Chatterjee, Carl Zeiss India</b>                                   |

| <b>Day 2: Advanced Surface Engineering for Corrosion Prevention (20-01-2026)</b> |  |             |   |
|--|--|-------------|---|
| <b>Time</b>  | <b>Session Title</b>   | <b>Mode</b> | <b>Faculty Assigned</b>                               |
| 09:00 – 9:55   | <b>Additive Manufacturing Technologies</b>   | Lecture     | <b>Prof. Vladimir Popov, Ariel University, Israel</b> |
| 10:00 – 11:00  | <b>Oxidation and thermal protection coatings for high-temperature materials for space applications</b> | Lecture     | <b>Prof. S C Sharma, IIT Roorkee</b>                  |
| 11:00 – 11:15  | <b>Tea Break</b>   |             |   |
| 11:20 – 12:15  | <b>Surface Characterization by TEM</b>   | Lecture     | <b>Dr. Sandeep Bysakh, CSIR-CGCRI</b>                 |
| 12:20-13:20  | <b>Corrosion Control by Grain Boundary Engineering</b>   | Lecture     | <b>Prof. Sumantra Mandal, IIT Kharagpur</b>           |
| 13:20 – 14:25  | <b>Working Lunch</b>   |             |   |
| 14:30 – 15:30  | <b>Structural Details of Surface by Advanced Characterization Tool</b>                                 | Lecture     | <b>Prof. Indranil Manna, BIT Mesra</b>                |
| 15:30 – 16:30  | <b>Valedictory Session and Certificate Distribution</b>  |             |   |