An Online Short Term Course on
Surface Engineered Materials Technology
Mon, 20 Nov – Fri, 01 Dec; 7:00 pm to 9:00 pm
Venue: Online (12 days, 2hr lectures/day = 24 hrs)

Eligibility
Academics and Industry (outside IITKGP) interested in the area of surface engineering

Syllabus
Surface Engineered Materials Technology (including one Assessment)

Lec 1, 2 Introduction to Surface Science, Surface Coating processes, CVD process
Lec 3, 4 Arc Deposition, Magnetron Sputtering, Sputter Deposition, Electroplating, Wetting
Lec 5 Thermal Spray and Related Processes
Lec 6, 7, 8 Surface Roughness Parameters and their Measurement Techniques
Lec 9, 10 Contact of Surfaces, Laws of Friction, Archard’s Law, Lubricated Contact
Lec 11, 12 Reynolds Eqn. for Smooth and Rough surfaces, Modelling of Mixed Lubrication method

Instructors
Profs Partha Bandyopadhyay, Vamsi Munagala, Ajay Sidpara, N Das Chakladar

Course Fee
(a) Students outside IITKGP (₹2,950); (b) Outside faculty/research staff (₹5,900); (c) Industry/R&D (₹8,850) – Prices are inclusive of GST.

Payment
https://erp.iitkgp.ac.in/CEP/courses.htm (Payment is to be made in advance in the portal)

Coordinator
Principal Coordinator: Dr Nilanjan Das Chakladar, Assistant Professor (+91 8442953215)
https://sites.google.com/view/nilanjan-das-chakladar/outreach (Keep an eye for updates!)

Joint Coordinator: Dr Ajay M Sidpara, Associate Professor (+91 8116568933)
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Contact
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