

Contact



Manufacturing and Mechanics of Composites

Mon, 04 Sep – Fri, 22 Sep (1hr/day)

From 8:30 pm to 9:30 pm

Venue: Online, Only Weekdays

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Eligibility	Anyone interested in the manufacturing and mechanics of composites
Syllabus	Manufacturing and Mechanics of Composite Materials
Day 1 - 3	Introduction to Composites; Composites 4.0; Manufacturing of Fibres
Day 4 - 6	Micromechanics of UD and Short Fibre Composites; Manufacturing of Fabrics
Day 7 - 9	PMC, MMC; Meso-mechanics incl. Classical Lamination Theory
Day 10 - 12	CMC; Nanocomposites; Mean-field Homogenisation. incl. theory behind software
Day 13 - 15	Bio-composites; Component Level Simulation; Testing of Composites
Assessment	End of each week, Duration: 1 hr
Course Fee	Students of IITKGP (Free); Students outside IITKGP (₹1,180); Faculty/Research staff of IITKGP (₹885); Outside faculty/research staff (₹1,770); Industry/R&D (₹2,950) All prices are inclusive of GST.
Payment	https://erp.iitkgp.ac.in/CEP/courses.htm (Payment to be made in advance in the portal)
Organisers:	Principal Coordinator: Dr Nilanjan Das Chakladar, Assistant Professor (+91 8442953215) https://sites.google.com/view/nilanjan-das-chakladar/ace-lab-iitkgp
	Joint Coordinator: Dr Atul Jain, Assistant Professor (+91 9434355466) https://sites.google.com/view/m3siitkgp/home

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