

**Subject: Tata Metaliks Limited - Requirements of Training in
Collaboration with IIT Kgp**

Tentative Course Schedule

Day	Lecture-1	Lecture-2	Total Duration
Day-1	Ferrous Foundry Practice – Prof AK Chakrabarti (1.5 h lecture)	Cast Iron: Metallurgical principles and Foundry practice – Prof AK Chakrabarti (1.5 h lecture)	3 h
Day-2	Metallurgy of Casting – Prof TK Bandyopadhyay (1 h lecture)	An overview on Casting Defects – Prof TK Bandyopadhyay (1 h lecture)	2 h
Day-3	Heat treatment of ferrous alloys – Prof SB Singh (2 h lecture)		2 h
Day-4	Properties and application of refractory materials – Prof K Biswas (2 h lecture + 1 h interaction, Q&A)		3 h
Day-5	Non-destructive testing – Prof S Roy (2 h lecture + 1 h demonstration of die-penetration testing)		3 h
Day-6	Statistical Quality Control – Prof S. Roy and Prof D. Chakrabarti, (2 h lecture + 1 h interaction, Q&A)		2 h
Day-7	Failure Mode Effects Analysis (FMEA) – Prof S Roy and Prof D Chakrabarti (2 h lecture).		3 h
Day-8	Mechanical properties and failure analysis of ferrous alloys – Prof D Chakrabarti and Prof R Mitra (2 h lecture)	Feed Back and Concluding session (1 h): Prof Rahul Mitra, HOD MME.	2 h (+1 h)

Total course duration = 20 h Course + 1 h Feed Back and Concluding session.

E-mail addresses of the Instructors:

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