

Metallurgical and Materials Engineering Department

N.I.T. Srinagar, Hazratbal, Srinagar,

Semester: 7th

Subject: Steel Technology

Text Books

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| 1. Iron Making Steel Making | – Ahindra Ghose & Amit Chatterjee |
| 2. Steel Making | – R.H. Tupkary |
| 3. Steel Making | – A.K. Chakrabarti |
| 4. Converter and Open Hearth Steel Manufacture | – G. Oiks |
| 5. MST (Ref) | |
| 6. Fundamental of Steel Making Metallurgy | – Brahma Deo & Rob Boom |

Minor I

Physio-chemical principles of steel making, ladle desiliconization, desulphurization and dephosphorisation, Nitrogenation, Pneumatic process, Bessemer & Open Hearth Steel making, Side blown practice, Twin Hearth furnace.

Tutorial Sheet I

Minor II

Oxygen steel making – LD, BOF, Q-BOP, OBM Process, Kaldo and Rotary Steel Making, Slag Splashing Technique,.

Tutorial Sheet II

End Term

Electric arc Furnace Steel making, Alloy Steels, Stainless Steels etc. Principles of deoxidation, Slide gate and Slag carryover, Continuous Casting and teeming of steels.

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