11/

| Discin | line: Mat | 211,24,000 | | ON PLAN |
|--|--------------------|--|---|---|
| Discipline: Metallurgy Engineering Subject: Ferrous Metallurgy-I Sub code: Th.4 | | | Semester: 3 rd semester No of days /week class allotted:04/week | 30/11/2023 |
| | | | | |
| 1 st | 1-08-23 | Briefing About the Syllabus and Brief Introduction to Iron Making | | |
| | 2-08-23 | Brief description about BF | | |
| | 3-08-23 | Brief description about BF | | |
| | | 4-08-23 | Brief description about BF | |
| | 2nd | 04P | 8-08-23 | Explain about BF Process |
| August | | | 9-08-23 | Explain Raw materials for BF, Explain Iron Ore ,Flux |
| | | | 10-08-23 | Description about Coke |
| | | | 11-08-23 | Explain Deposits of raw material |
| | 3rd | 04P | 16-08-23 | ExplainTypes of ore and characteristics |
| | | | 17-08-23 | Explain Evaluation of iron ores |
| | | | 18-08-23 | Explain Metallurgical Coal, ExplainCoke and Coal difference Revision |
| | 4th | 04P | 22-08-23 | |
| | 4 | 048 | 23-08-23 | Explain Evaluation of flux, ExplainQuality of burden |
| | | | 24-08-23 | Explain Agglomeration process, Explain Sinter and pellets |
| | | | 25-08-23 | Explain Function of coke, Explain Quality requirement of coke |
| | 5 th | 02P | 29-08-23 | ExplainCoke preparation |
| | | | 31-08-23 | ExplainAuxiliary fuel and fuel injection |
| September | 6 th | 01P | | Monthly Test |
| | 7 th | 03P | 05-09-23 | Explain Different process in BF |
| | | | | Explain Blowing in , drying, Explain Filling,blowing out, banking in |
| | | 43 | 08-09-23 | Explain Blowing down ,tapping, fanning, Explain Back |
| | 8 th | 04P | | draughting , disposal of slag Explain Utilization of slag, Explain BF refractories |
| | TO SERVICE SERVICE | - F (17 G) | | Explain Stack ,hearth ,bosh, Explain BF Cooling , tap hole |
| | | | 14-09-23 | Explain Tuyere, cast house |
| , | | | | Explain Top charging system, Explain BF Gas cleaning |
| | | | 15-09-23 | |

| | 9th | 02P | 21-09-23 | Explain BF stove, Explain Blowers, boilers, pumps |
|----------|------------------|-----|----------|---|
| | 1016 | | 22-09-23 | Explain BF Irregularities, Explain Hanging ,scaffolding |
| | 10th | 03P | 26-09-23 | Explain chilled hearth, Explain Pillaring |
| | | | 27-09-23 | Explain Chocking of gas off take, Explain Flooding |
| | | | 28-09-23 | Explain Leaking tuyeres tap holes and coolers, Explain channeling |
| | | | | - Charmening |
| | 11 th | 04P | 03-10-23 | Explain channeling, Explain Slip and breakout |
| | | | 04-10-23 | Explain Remedies of irregularities |
| | | | 05-10-23 | Revision |
| | | | 06-10-23 | Revision |
| | 12 th | 04P | 10-10-23 | Internal assessment/Class Test |
| | | | 11-10-23 | |
| | | | 12-10-23 | Explain BF profile |
| | | | 13-10-23 | Explain Thermal profile |
| | 13 th | 04P | 17-10-23 | Explain Chemical profile |
| | | | 18-10-23 | Explain Reaction in tuyere ,stack |
| | | | | Explain Reaction in bosh, hearth |
| | | | 19-10-23 | |
| | | | 20-10-23 | Explain Efficiency of BF |
| | 14th | 03P | 25-10-23 | Monthly Test |
| | | | 26-10-23 | Explain Direct and indirect reduction, Explain S and Si reaction |
| | | | 27-10-23 | Explain Burden calculation |
| | 15 th | 01P | 31-10-23 | Explain Modern development of BF |
| November | 16 th | 03P | 01-11-23 | Explain Bell less charging |
| | | | 02-11-23 | Explain High top pressure |
| | | | 03-11-23 | Explain Humidification of blast |
| | 17 th | 04P | 07-11-23 | Explain Humidification of blast |
| | | | 08-11-23 | Explain External removal of S and Si |
| | | | 09-11-23 | Explain External removal of S and Si |
| ven | | | 10-11-23 | Revision & Doubt Clearing Class |
| Nov | 18 th | 04P | 14-11-22 | |
| | | | 15-11-23 | Revision & Doubt Clearing Class |
| | | 2 | 16-11-23 | |

| | | | 17-11-23 | Explain Modern development of BF |
|----|-----------------|-----|----------|--|
| 19 | 9 th | 04P | 21-11-23 | Explain Bell less charging |
| | | | 22-11-23 | Explain High top pressure |
| | | | 23-11-23 | Explain Humidification of blast & Explain External removal of S and Si |
| | | | 24-11-23 | Monthly Test |
| 20 | Oth | 03P | 28-11-23 | Explain Direct and indirect reduction, Explain S and Si reaction |
| | | | 29-11-23 | Explain Burden calculation |
| | | | 30-11-23 | Revision & Doubt Clearing Class |

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