

LESSON PLAN (5th Sem Ceramic)

REFRACTORY APPLICATION FOR METALLURGICAL INDUSTRIES:

| Sl. No | TOPIC | Reference | Assignment | Comment/ period |
|--------|---|-----------|------------|--------------------|
| 1.0 | Scope and relevance of metallurgy to ceramic. | RH,VR | No | 1 period |
| 1.1 | Introduction to metallurgy and its importance to Refractory. | RH,VR | Yes | 2 periods |
| 1.2 | Extraction of pig iron from blast furnace ,Modern development in blast furnace. | RH, VR | Yes | 3 periods |
| 1.3 | Preparation of cast iron and alternative route of iron making. | RH,VR | Yes | 3 periods |
| 1.4 | Corex and midrex process. | RH,VH | No | 1 period |
| 1.5 | Steel making by L.D process and by electric Arc furnace. | RH,VR | No | 2 periods |
| 1.6 | Classification of Steel and application of Steel. | RH,VR | Yes | 1 periods |
| 1.7 | Alloy of Steel. | RH,VH | Yes | 1 period |
| 1.8 | Recent process of steel making, continuous process | RH,VH | Yes | 3 periods |

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| | of metal. | | | |
| 1.9 | Introduction to powder metallurgy process. | RH,VR | No | 2 periods |
| 1.10 | Secondary Steel making process. | RH,VR | Yes | 1 periods |
| 1.11 | Sponge iron making. | RH,VR | Yes | 2 periods |
| 2.1 | describe various types of refractories is used in iron and steel making and their important properties. | RH,VR | No | 3 periods |
| 2.2 | Blast furnace EAF , CF ,hot stove | RH,VR | No | 2 periods |
| 2.3 | BOF, LRF, Ladle , Torpedo Ladle car. | RH,VR | Yes | 3 periods |
| 2.4 | Continuous casting refractory. | RH,VR | No | 1 periods |
| 2.5 | Slide gate refractory. | RH,VR | No | 1 periods |