LESSON PLAN (FOR RELATED THEORY PART)

| TRADE: | Welder | | |] | SEM: | I YEAR-1 |] |
|---------------------|---------|---|--|---|---|--|--|
| LEARNING OUTCOME | | 2 | | EXERCISE NO | | LESSON NO (REF TO PRACTICAL): | |
| DAY (1) | Hrs (2) | Major topics/Lesson Title (Reference syllabus) (3) | Details of each day plan (Explanation) /Sub topics (Reference NIMI book) (4) | Text and media content to be displayed for viewing (5) | Media nature (i.e, 2D image/ 3D image/ animation video/ Simulation etc.,) | Whether Direct teaching or digital video for self learning (7) | Type of Assessment (like Quiz, Identify, Fill in the blank, MCQ, etc.) (8) |
| 1 | | Arc welding power sources: Transformer | Introduction to arc welding transformer | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Types of basic power sources AC & DC | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Construction of AC transformer | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Construction of DC transformer | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Working principle to Ac transformer | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Working principle to DC transformer | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| 2 | | Motor Generator set | DC welding Generator set | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Diesel welding Generator set | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Working principle of DC welding generator | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |

| 3 | | Rectifier Set | Introduction to rectifier set | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
|---|--|--|--|---------------|------------|------------------------|---------------------|
| | | | Types of Rectifier set -AC &DC | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Construction of AC Rectifier set | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Construction DC Rectifier set | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Working principle of AC & DC rectifier | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| 4 | | Invertor type welding Machine and its care & maintenance | Introduction to Inverter set | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Construction of inverter type welding machine. | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Working principle of Inverter welding machine | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Care and maintenance of Inverter welding machine | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| 5 | | Advantages and disadvantages of A.C. and D.C. welding machines | Advantages of AC Welding machine | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Disadvantages of AC Welding machine | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Advantages of DC Welding machine | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |
| | | | Disadvantages of Ac Welding machine | Text & Images | PPT Slides | Direct teaching /Video | Quiz and Assignment |