

Syllabus for the subject

of

ENGINEERING DRAWING

(For 3rd &4th semester)

Under

CRAFTSMEN TRAINING SCHEME (CTS)

(For Mechanic Air Conditioning Plant)

Re-Designed

in

2015

By

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Directorate General of Training

CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE

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SYLLABUS OF ENGINEERING DRAWING FOR 3rd SEMESTER
Mechanic Air Conditioning Plant

Sl. No	Topic	Hrs.
1.	Sectional Blocks and views and types of sections, (full, Half, Offset Sectioning)	63
2.	Drawing of types of riveted joints.	
3.	Trade related Drawing of compressor and pump parts such as piston, connecting rod, crankshaft valve etc.,	
4.	Schematic diagram of car AC system, package AC, split AC, Ice candy plant, Cold storage plant, refrigerant charging circuit diagram of different AC systems, schematic diagram of chilling systems. Schematic diagram of cooling tower and AHUs	
5.	Trade related Drawing involving electrical Circuit Diagram.	
6.	Development of surface of simple object.	
7.	Revision	
8.	Examination	

SYLLABUS OF ENGINEERING DRAWING FOR 4TH SEMESTER
Mechanic Air Conditioning Plant

Sl. No	Topic	Hrs.
1.	Curves of Interpenetration	63
2.	Isometric and Orthographic Views of complicated objects.	
3.	Conversion of simple orthographic views to Isometric views.	
4.	Sectional views of different types of AC compressors, schematic diagram of different types of central air conditioning systems, sectional views of different types of blowers, sectional views of different types of filters used in AC systems Schematic diagram of different types of duct system with size calculations.	
5.	Trade related wiring circuit of window, Split, package and central Air conditioning.	
6.	Prepare charts related to trade like Refrigerator, water coolers, freezers, Vapour compression cycle, vapour absorption cycle and all types of compressor & Expansion valves, working cycle sketches.	
7.	Computer aided drafting.	
8.	Revision	
9.	Examination	