

4112 – ELECTRICAL DRAWING									
Teaching Schedule Per Week			Progressive Assessment		Examination Schedule (Marks)				
Lectures	Practical	Credits			Theory		Practical Ex.	Total	
-	3	3	-	50	-	-	50/or	100	
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total
NIL		ELL		-	-	-	50	50	100

COURSE CONTENTS							Hrs	Mks
<b>1. TRANSFORMER</b>							??	??
Three phase transformer – Core & Winding details, Tank and other Accessory.							??	??
<b>2. STARTERS</b>							??	??
(including control and power circuit) D.C. Motor-4 point starter, A.C. motor-star/delta manually operated, Control & power circuit of Automatic star/Delta starter, Slip ring motor-resistance starter including control, interlocking circuit, Auto transformer starter for induction motor.							??	??
<b>3. TRANSMISSION LINE COMPONENTS</b>							??	??
Tower showing the position of insulator & conductor number plate, phase indicating plate. Bird guard and anti climbing devices (R V D) Labelling of tower points (stubs, body case, cross arms), Conductor clamps, Insulator pin type & disc type, Vibration clammers.							??	??
<b>4. PLANNING &amp; LAYOUT</b>							??	??
Planning & layout of l.t. power panel & master control panel.							??	??
<b>5. HIGH TENTION SUBSTATION</b>							??	??
Reading and drawing single line diagram of switch yard of high voltage substation							??	??
<b>6. CONNECTION DIAGRAMS</b>							??	??
For refrigeration, hot air blower, even furnace, high power mercury vapour lamp, sodium vapour lamp.							??	??
<b>7. CONTROL CIRCUIT</b>							??	??
Designing, drawing the control circuit for a given operation application.							??	??
<b>Total</b>								

#### TERM-WORK:

The term work shall consist of minimum five sheets (sheet no. 1,3 and 6 are compulsory) (imperial size) on the following topics.

#### REFERENCE BOOKS:

1. Electrical Drawing, by Doragon,
2. Electrical Drawing, by S.K. Bhattacharya