Marks	Grad e Point	Letter Grade	Marks	Grade Point
80>	4.00	A+	55-59	2.75
75-79	3.75	А	50-54	2.50
70-74	3.50	A-	45-49	2.25
65-69	3.25	B+	40-44	2.00
60-64	3.00	В	0-39	0.00

Letter Grade

B
C+
C
D



Daffodil Polytechnic Institute, Institute Code: 50238 Lesson Plan – Academic Session June-November 2024

Subject Teacher: Gulshan Ara Akhi)

Subject Name: Electrical Engineering Drawing

Subject Code : 26722 Technology : Electrical

Semester:2nd

Reference Book: Electrical Engineering Drawing (Publisher: R.S Prokashoni)

Reference Book: Electrical Engineering Drawing (Publisher: R.S Prokashoni)

Mark Distribution (for 150 Marks)

Theory Marks		
		Practical Marks
Midterm	20	PC 50
Class test	05	PF 50
Quiz test	05	-
Final	25	-
Total	50	Total 100

After completion of these contents students will be able to acquire, achieve and develop: To acquaint with electrical engineering drawings. To develop skill in drawing isometric, oblique and orthographic views. To enable interpretation and skill to draw thread and fastening devices. To develop skill in drawing the symbols for electrical components and equipment. To develop skill in drawing the layout diagram of overhead distribution lines. To develop skill in drawing the layout diagram of a small substation. To enable interpreting the electrical layout diagram of a residential building. To enable and skill to draw Electrical circuits, plan with ECAD.

SHORT DESCRIPTION

After completion of these contents students will be able to acquire, achieve and develop: Drawing (elevation, plan and section) of electrical transmission and distribution line structure; Drawing of symbols used in electrical planning; Drawing of insulator used in overhead line; Drawing of pole mounted sub-station; Drawing of LT distribution line; Drawing electrical layout and single line wiring diagram of a small residential building; Using ECAD in electrical Drawing and circuit.

Lecture Cha Learning Ar	apter/Exam rea Learning	Outcome Class/Lab Su		Equipment's Video Link	
Lecture-1	Chapter-1	ELECTRICAL SYMBOLS	electrical symbols 1.2 Explain the necessities of Electrical symbols 1.3Mention the name of different symbols of fittings, fixtures and meters used in electrical Installation such as Lamp (incandescent, fluorescent), Choke coil, Lamp outlet(Holder), Starter (for tube light), Ceiling rose, Cartridge fuse, Socket outlet, Power outlet (2-pir & 3- pin), Calling bell, Push switch,		https://you tu.be/ Kzm1 XNI70 kc
Lecture-2	Chapter-1	ELECTRICAL SYMBOLS	1.4 Mention the name of different symbols various equipment and machines used in electrical Installation	2. Pencil, Drawing Board, Marker, Ruler. Compas s	https://you tu.be/ Kzm1 XNI70 kc

		OCB/VCB/CB, Relay Transformer, Battery, Motor (DC/AC) (3- phase & 1-phase), Rectifier unit, Generator, Transformer, Isolator, Motor		
		starter, Lightning arrestor.		
QT-1	Quiz Test on Chapter-1	Quiz test To build up their ELECTRICAL confidence level SYMBOLS on chapter-1	White Board,M arker and Exam Script	
Lab-1	DRAW THE SYMBOLS FOR THE FITTINGS AND FIXTURES USED IN ELECTRICA L INSTALLATI ON.	Identify the Know About the fittings used in Installation of electrical Electrical installation. equipments 1.2 Identify the fixtures used in electrical installation.	.Drawing sheet, Drawing board, Mini drafter T square, Compass, Divider, Set squares, Protractor, French curves Templates, Pencils, Eraser	https://youtu .b e/ezCZjpzN P zs
Lecture-3	TRANSMISSI O N AND DISTRIBUT IO N SYSTEM	Chapter-2 2.1 Define transmission system 2.2 List the main parts used in transmission line 2.3 List the main parts used in Distribution line	Book, Paper	Electric
Lab-2	DRAW THE SYMBOLS OF EQUIPMEN TS USED IN	Identify the Know About the Equipment Installation of used in Electrical	Drawing sheet, Drawing board, Mini drafter T square,	https://youtu .b e/Kzm1XNI 7o kc

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	ELECTRICA	installation	Compass,	
	L L INSTALLATI ON	and Identify the meter used in Electrical system.	Divider, Set squares, Protractor, French curves Templates, Pencils, Eraser	
CT-1	Class Test on Chapter-2	Test on To build up their TRANSMISSION confidence level N AND on DISTRIBUTION chapter-1 SYSTEM	White Board,M arker and Exam Script	
Lab-3	SKETCH DIFFERENT TYPES OF ELECTRIC POLE	Draw the Know About the elevation, plan Installation of and section of a Electrical Poles tubular steel and The Area of pole used in LT the Poles distribution line. 3.2 Draw the elevation, plan and section of a concrete pole (RCC/PCC) of Circular	Drawing sheet, Drawing board, Mini drafter T square, Compass, Divider, Set squares, Protractor, French curves Templates, Pencils, Eraser	https://youtu .b e/s6raD5os R 4s
Lecture-4	FUNCTIONS AND USES OF DIFFERENT CAD COMMANDS	Chapter-3 3.1 Define Computer Aided Design (CAD). 3.2 State how to start and exit CAD. 3.3 Name different tools used in CAD.	Book, Paper, Pen	https://youtu .b e/17vBdqQ aq DA

QT-2	Quiz Test on Chapter-3	Class test To build up their FUNCTIONS confidence level AND USES OF on DIFFERENT chapter-3 CAD COMMANDS	White Board,M arker and Exam Script	
Lecture-5	FUNCTIONS AND USES OF DIFFERENT CAD COMMANDS	Chapter-3 3.4 State the meaning of WCS icon and UCS icon. 3.5 State the	Book, Paper, Pen	https://youtu .b e/17vBdqQ aq DA
		necessity of drawing units and limits. 3.6 Mention the functions of the following editing commands: copy,		

Lab-4	SKETCH LINE SUPPORTS USED IN DISTRBUTI ON LINE MAKE THE PLAN OF A POLE MOUNTED SUB-STATIO N	Draw the elevation, plan Distribution and and section of a Different types of pole with polls cross arm. Draw the elevation, plan and section of Pin, Shackle and Disc (Strain and suspension) type insulator. Draw the plan To Know the of an H-type Distribution and pole structure. Different types of Draw a Tranformer transformer on the middle limb of the structure.	Drawing sheet, Drawing board, Mini drafter T square, Compass, Divider, Set squares, Protractor, French curves Templates, Pencils, Eraser Drawing sheet, Drawing board, Mini drafter T square, Compass, Divider, Set squares, Protractor, French curves Templates, Pencils, Eraser	https://youtu .b e/vWZV9_L F_2nc https://youtu .b e/wlgcF4yn TB_8
Lecture-6	FUNCTION OF ENQUIRY, PLOT AND DIMENSION COMMANDS	Chapter-4 4.1 Mention the functions of the following plotting commands: layout, view port, model space and paper space. 4.2 Plot Setup and preview.	Book, Paper, Pen	https://youtu .b e/MqGEfiH Pv o0
Lecture-7	FUNCTION OF ENQUIRY, PLOT AND	Chapter-4 4.3 Mention the functions of the following	Book, Paper, Pen	https://youtu .b e/MqGEfiH Pv o0

	DIMENSION COMMANDS	dimension commands: dimension style, leader, linear dimension, radius & diameter dimension, aligned dimension, continue dimension, base dimension etc.		
CT-2	Class Test on Chapter-4	Test on To build up their FUNCTION OF confidence level ENQUIRY, on PLOT AND chapter-4 DIMENSION COMMANDS	White Board,M arker and Exam Script	
Lecture-8	FUNCTION OF GEOMETRIC , ADC AND LAYER COMMANDS	Chapater-5 5.1 Mention the functions of the following geometric commands: donut, solid, trace, p-line, x-line, ray, fill etc. 5.2 Mention the functions of the following commands: zoom, pan, undo, redo, save, etc.	Book, Paper, Pen	
Lab-6	DEVELOP THE DRAWING OF A LT DISTRIBUT IO N LINE (11KV & 0.4KV)	Draw the layout To know about the plan of a LT Distribution Line in distribution line. Details Draw the section of a pole showing the conductors.	Drawing sheet, Drawing board, Mini drafter T square, Compass, Divider, Set squares, Protractor, French curves Templates, Pencils, Eraser	https://youtu .b e/DejcWVp _V mA

Model Test	Final Model Test
Review class-1	From Chapter:1-2