



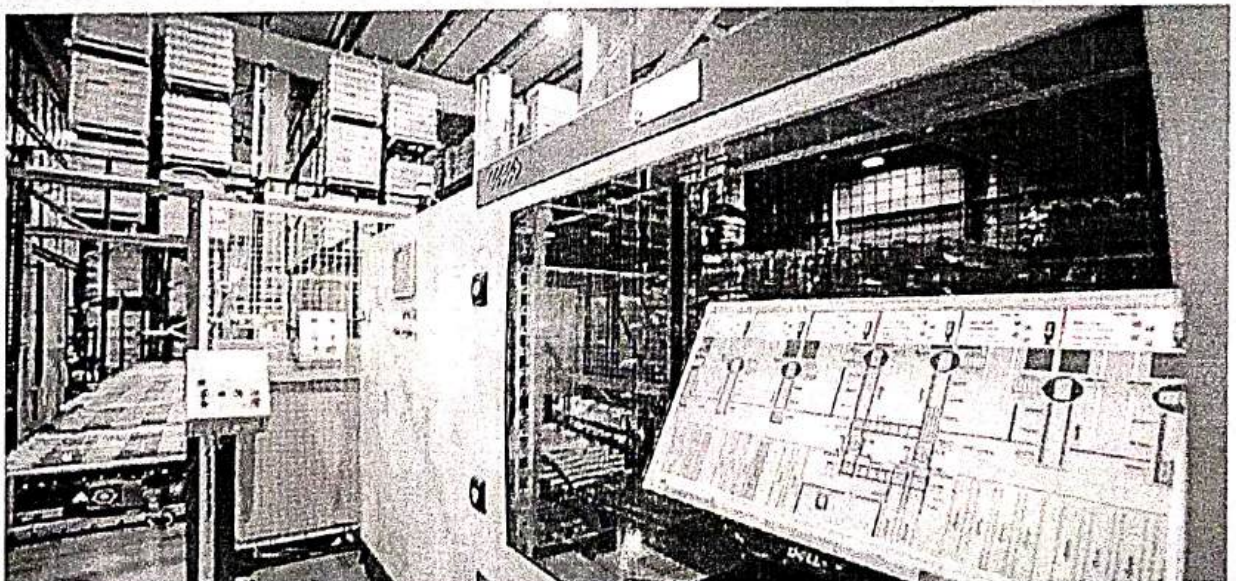
**DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY**  
(Approved by AICTE | Affiliated to Anna University | Accredited by NAAC)

# **Department of Electrical and Electronics Engineering**

**VALUE ADDED PROGRAMME – 2023-24**


**on**

**“INDUSTRIAL AUTOMATION USING  
PLC ”**



# "INDUSTRIAL AUTOMATION USING PLC "

Academic Year	2023 - 2024
Year of Study	IV year
Course Code (if any)	-
Duration (Dates)	From: 11.09.2023 To: 15.09.2023
Duration (Total Days, Total Hours)	5 Days, 20 Hours
No. of Students Registered	20
No. of Students Attended	20
Venue	Offline
Name of the Co-ordinators	Dr.R.Manikandan, AP/EEE
Resource Person	Dr.R.SARAVANAN, AP/EEE

  
HOD / EEE

  
**PRINCIPAL**  
Dr. A. SELVARAJ, M.E., P.H.D., MASTE.  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 300.

# Course Content and Topics

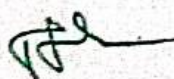
1. Introduction of PLC and their schematics
2. Study of the different parts of automation using PLC
3. Study of the implementation of PLC automation
4. Design of the safety precautions to be taken while working with PLC
5. Role of PLC in Automation

## Course Outcome

1. How does a PLC read sensors?
2. How does a PLC control motors?
3. What are some best practices in PLC programming?
4. What is a PLC communication module?
5. Identify present and future areas of applications for PLCs



Co-Ordinator



HOD / EEE




PRINCIPAL


Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.

## Student (Participant) Name List

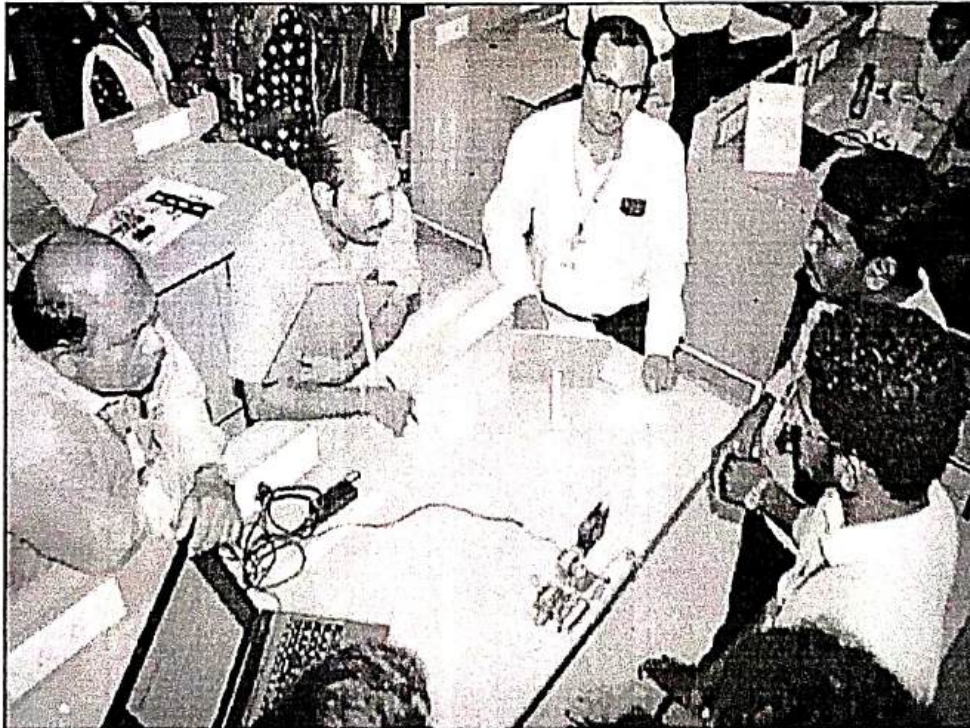
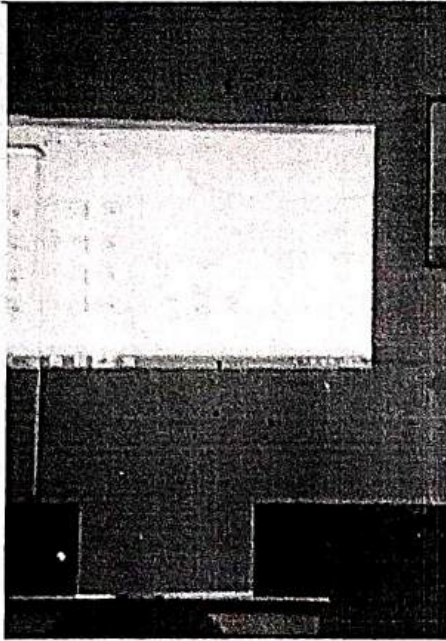
S.No.	Register No.	Name of the Student
1	610520105001	Aarthy.T
2	610520105002	Arikumar.R
3	610520105009	Dharani.P
4	610520105010	Dharun.P
5	610520105011	Divya.K
6	610520105017	Jeevitha.R
7	610520105019	Kandasamy.B
8	610520105025	Nandhini.S
9	610520105026	Naveen.S
10	610520105027	Obu krithika.K.S
11	610520105028	Padma Priya
12	610520105029	Parkavi.R
13	610520105030	Pradhip.V
14	610520105031	Praveen.K
15	610520105033	Ragul.S
16	610520105035	Rajeswari.R
17	610520105036	Ranjithkumar.M
18	610520105037	Sakthivel.K
19	610520105042	Sobitha.S
20	610520105043	Sounder.B
21	610520105046	Sukavaneshwar.S.K
22	610520105047	Sureka.R
23	610520105050	Thangamani.S
24	610520105051	Vasanth Raj.G
25	610520105052	Yanzhini.M
26	610520105053	Yasotharan.K
27	610520105305	Kumaleshwaran.G
28	610520105308	Neslavanan.M
29	610520105315	Thamarivasan.S
30	610520105316	Thangadurai.R

  
Co-ordinator

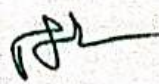
  
HOD / EEE


  
**PRINCIPAL**  
Dr. A. SELVARAJ, M.E., Ph.D., MASTE.  
PRINCIPAL  
Dharmaj Gandhi College of Technology  
Sikkampatty, Salem - 636 309.

# Photos



  
Co-Ordinator

  
HOD / EEE

  
**PRINCIPAL**  
Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.

# Sample Scanned Certificate

  
  
**DHIRAJLAL  
GANDHI COLLEGE  
OF TECHNOLOGY**  
Salem - 636 309.  
  
[www.dgct.ac.in](http://www.dgct.ac.in)

  
**VALUE ADDED PROGRAMME**  
organized by  
Department of Electrical and Electronics Engineering  
Academic year 2023-2024 (ODD Semester)  
**CERTIFICATE**  
Certified that Mr./Ms. SAKTHIVEL K Final Year Department of Electrical and  
Electronics Engineering has successfully completed the Value Added  
Programme on **INDUSTRIAL AUTOMATION USING PLC**.  
From: 11.09.2023 To: 15.09.2023 (Five Days)

  
Dr. F. SATHYAKUMAR  
Head / Supervisor of VAP

  
Dr. A. SATHYA  
Principal

  
Smt. Anshika Manojkumar  
Secretary

Professional Bodies





# DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## VALUE ADDED PROGRAM - ATTENDANCE SHEET

VAP Course Name : **INDUSTRIAL AUTOMATION**

**USING PLC**

Duration : From: **11.09.2023** To: **15.09.2023** Venue


: **Offline Mode**

S.No.	Register No.	Name of the Student	11.09.2023	12.09.2023	13.09.2023	14.09.2023	15.09.2023
1	610520105001	Aarthi.T	/	/	/	/	/
2	610520105002	Arikumar.R	/	/	/	/	/
3	610520105009	Dharani.P	/	/	/	/	/
4	610520105010	Dharun.P	/	/	/	/	/
5	610520105011	Divya.K	/	/	/	/	/
6	610520105017	Jeevitha.R	/	/	/	/	/
7	610520105019	Kandasamy.S	/	/	/	/	/
8	610520105025	Nandhini.S	/	/	/	/	/
9	610520105026	Naveen.S	/	/	/	/	/
10	610520105027	Obu krithika.K.S	/	/	/	/	/
11	610520105028	Padma Priya	/	/	/	/	/
12	610520105029	Parkavi.R	/	/	/	/	/
13	610520105030	Pradhip.V	/	/	/	/	/
14	610520105031	Praveen.K	/	/	/	/	/
15	610520105033	Ragul.S	/	/	/	/	/
16	610520105035	Rajeswari.R	/	/	/	/	/
17	610520105036	Ranjithkumar.M	/	/	/	/	/
18	610520105037	Sakthivel.K	/	/	/	/	/
19	610520105042	Sobitha.S	/	/	/	/	/

20	610520105043	Sounder.B	/	/	/	/	/
21	610520105046	Sukavaneshwar.S.K	/	/	/	/	/
22	610520105047	Sureka.R	/	/	/	/	/
23	610520105050	Thangamani.S	/	/	/	/	/
24	610520105051	Vasanth Raj.G	/	/	/	/	/
25	610520105052	Yaazhini.M	/	/	/	/	/
26	610520105053	Yasotharan.K	/	/	/	/	/
27	610520105305	Kamaleshwaran.G	/	/	/	/	/
28	610520105308	Neelavanan.M	/	/	/	/	/
29	610520105315	Thamarivasan.S	/	/	/	/	/
30	610520105316	Thangadurai.R	/	/	/	/	/

  
Co-Ordinator

  
HOD / EEE

  
**PRINCIPAL**  
Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.



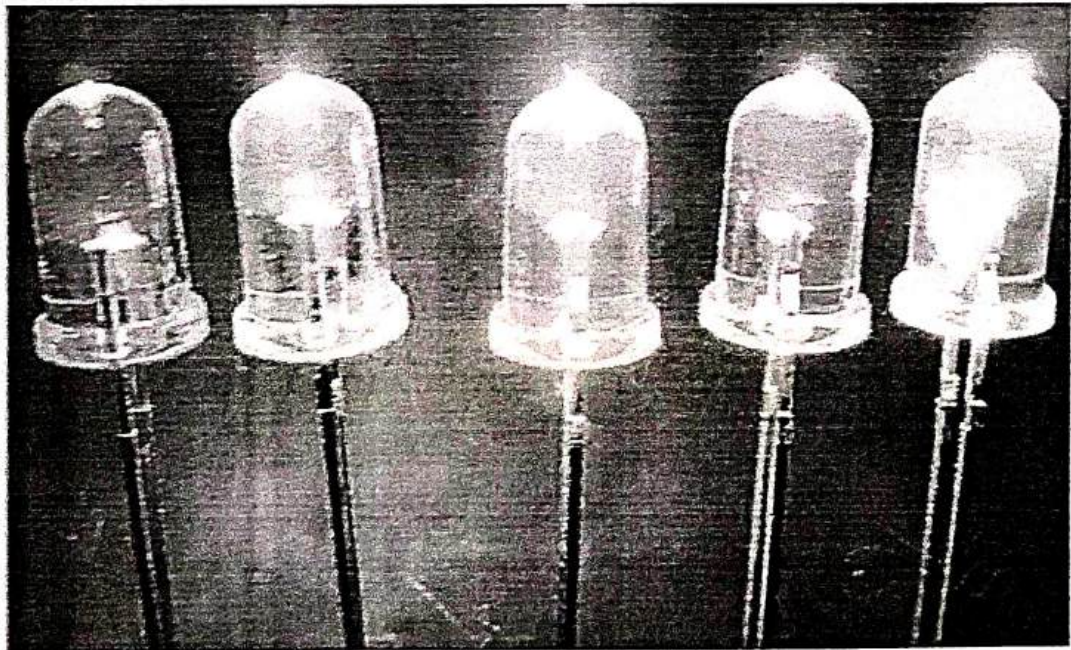


# **Department of Electrical and Electronics Engineering**

**VALUE ADDED PROGRAMME – 2023-24**

**on**

**“LED FABRICATION & TESTING ”**



## "LED FABRICATION & TESTING "

Academic Year	2023 - 2024
Year of Study	II year
Course Code (If any)	"
Duration (Dates)	From: 09.10.2023 To: 13.10.2023
Duration (Total Days, Total Hours)	5 Days, 30 Hours
No. of Students Registered	30
No. of Students Attended	30
Venue	Offline
Name of the Co-ordinators	Dr.R.Manikandan, AP/EEE
Resource Person	Mr.B.Sathyaseelan, AP/EEE Mr.T.Jayabharathi, AP/EEE



HOD / EEE



**PRINCIPAL**

Dr. A. SELVARAJ, M.E., Ph.D., MISTÉ,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.


# Course Content and Topics

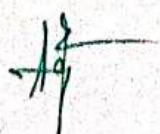
1. Introduction of Light Emitting Diode
2. Study about the fabrication of Light Emitting Diode
3. Study about the basic principle of LED
4. Study about which semiconductor is used in LED
5. Study about how the LED lights emit light

## Course Outcome

1. Explain how long do LED lights last?
2. Explain about the materials used in fabrication of LED?
3. Explain about the principle of LED?
4. What impurity material is used for LED?
5. What are the methods of LED testing?

  
**Co-Ordinator**

  
**HOD / EEE**

  
**PRINCIPAL**  
Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.

## Student (Participant) Name List

S.No.	Register No.	Name of the Student
1	610522105002	Bharanidharan. S
2	610522105003	Bhuwaneshwaran.K
3	610522105004	Deepika .S
4	610522105005	Dhanush. M
5	610522105010	Kabilan.V
6	610522105016	Keerthana Priya G S
7	610522105017	Kirubhanadham P. K.
8	610522105018	Manikandan P.
9	610522105019	Mithun S M
10	610522105020	Mohamed Bajaskhan M
11	610522105021	Monika. K
12	610522105028	Ranjith. T
13	610522105029	Ravindhiran S.
14	610522105030	Rishalini. A
15	610522105031	Sabari Santhosh. S
16	610522105032	Sasi Kumar. G
17	610522105033	Sathishkumar.S
18	610522105034	Shalini.D
19	610522105036	Sobiya. S
20	610522105038	Sridhar .C
21	610522105040	Surya. E
22	610522105041	Thirusakthi. J
23	610522105042	Vihashree. J
24	610522105043	Vikram. K.B.
25	610522105044	Yokesh. M
26	610522105301	Abishek.T
27	610522105302	Aravinth.R
28	610522105303	Gokul Prasath.R
29	610522105308	Srikanth.M
30	610522105309	Uma Bharathi.S

  
Co-Ordinator

  
HOD / EEE

  
PRINCIPAL

Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.

# Photos




  
Co-Ordinator

  
HOD / EEE

  
PRINCIPAL  
Dr. A. SELVARAJ, M.E., P.D., MISTE,  
PRINCIPAL  
Dr. Rajal Gandhi College of Technology  
Silkarampet, Salem - 636 309.

# Sample Scanned Certificate


**DHIRAJLAL  
GANDHI COLLEGE  
OF TECHNOLOGY**

Salem - 636 309.



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



**VALUE ADDED PROGRAMME**  
organized by  
Department of Electrical and Electronics Engineering  
Academic year 2023-2024 (ODD Semester)

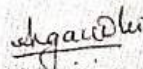
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**CERTIFICATE**

Certified that Mr./Ms. MOHAMED BAJASKHAN M II Year Department of  
Electrical and Electronics Engineering has successfully completed  
the Value Added Programme on **LED FABRICATION & TESTING.**  
From: 09-10-2023 To: 13-10-2023 (Five Days)

  
Dr. P. Selvakumar  
Head / Department of EEE

  
Dr. A. Selvaraj  
Principal

  
Smt. Archana Manojkumar  
Secretary

Professional Bodies: 

Handwritten mark



# DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## VALUE ADDED PROGRAM - ATTENDANCE SHEET

VAP Course Name : **LED FABRICATION & TESTING**

Duration : **From: 09.10.2023 To: 13.10.2023**

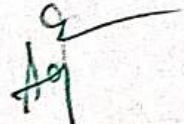
Venue : **Offline Mode**

S.No.	Register No.	Name of the Student	09.10.2023	10.10.2023	11.10.2023	12.10.2023	13.10.2023
1	610522105002	Bharanidharan, B	/	/	/	/	/
2	610522105003	Bhuvaneshwaran, K	/	/	/	/	/
3	610522105004	Deepika, S	/	/	/	/	/
4	610522105005	Dhanush, M	/	/	/	/	/
5	610522105010	Kabilan, V	/	/	/	/	/
6	610522105016	Keerthana Priya C S	/	/	/	/	/
7	610522105017	Kirubhanadham P, K.	/	/	/	/	/
8	610522105018	Manikandan P,	/	/	/	/	/
9	610522105019	Mithun S M	/	/	/	/	/
10	610522105020	Mohamed Bajaskhan M	/	/	/	/	/
11	610522105021	Monika, K	/	/	/	/	/
12	610522105028	Ranjith, T	/	/	/	/	/
13	610522105029	Ravindhiran S,	/	/	/	/	/
14	610522105030	Rishalini, A	/	/	/	/	/
15	610522105031	Sabari Santhosh, S	/	/	/	/	/
16	610522105032	Sasi Kumar, G	/	/	/	/	/
17	610522105033	Sathishkumar, S	/	/	/	/	/
18	610522105034	Shalini, D	/	/	/	/	/
19	610522105036	Sobhya, S	/	/	/	/	/
20	610522105038	Sridhar, C	/	/	/	/	/
21	610522105040	Surya, E	/	/	/	/	/
22	610522105041	Thirusakthi, J	/	/	/	/	/
23	610522105042	Vijashree, J	/	/	/	/	/
24	610522105043	Vikram, K, B.	/	/	/	/	/

25	610522105044	Yokesh.M	/	/	/	/	/
26	610522105301	Abishek.T	/	/	/	/	/
27	610522105302	Aravinth.R	/	/	/	/	/
28	610522105303	Gokul Prasath.R	/	/	/	/	/
29	610522105308	Srikanth.M	/	/	/	/	/
30	610522105309	Uma Bharathi.S	/	/	/	/	/

  
Co-Ordinator

  
HOD / EEE

  
**PRINCIPAL**  
Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.



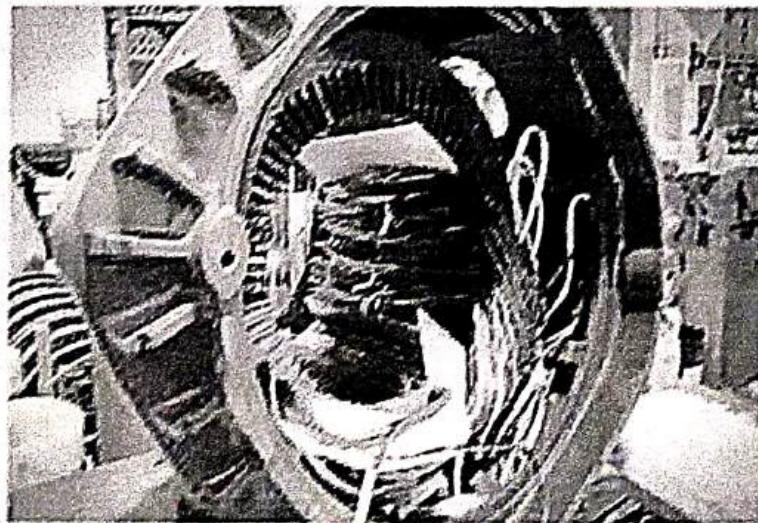


# **Department of Electrical and Electronics Engineering**

**VALUE ADDED PROGRAMME – 2023-24**

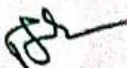
**on**


**“ELECTRICAL ESTIMATION &  
REWINDING PRACTICES”**



# "ELECTRICAL ESTIMATION & REWINDING PRACTICES "

Academic Year	2023 - 2024
Year of Study	I year
Course Code (if any)	-
Duration (Dates)	From: 04.03.2024 To: 08.03.2024
Duration (Total Days, Total Hours)	5 Days, 30 Hours
No. of Students Registered	30
No. of Students Attended	30
Venue	Offline
Name of the Co-ordinators	Dr.R.Manikandan, AP/EEE
Resource Person	Ms.M.Suguna, AP/EEE

  
HOD / EEE

  
**PRINCIPAL**  
Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.

# Course Content and Topics

1. Introduction of Electrical Estimation & Rewinding Practices
2. Study of differences between wiring and electrical schematic drawings
3. How to take a formal electrical estimating qualification.
4. Adapt to key estimating roles and responsibilities
5. Design and Construct Method for Electrical Estimation

## Course Outcome

1. Explain the circuit diagram, wiring diagram, wiring schedule & block diagram?
2. Explain the fundamentals of list in the Electrical Equipments?
3. What is the best method of estimation?
4. In Design How to calculate electrical wiring cost?
5. What is load estimation in electrical?

  
Co-Ordinator


  
HOD / EEE

  
**PRINCIPAL**  
Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.

## Student (Participant) Name List

S.No.	Register No.	Name of the Student
1	610523105001	AADHI S
2	610523105002	AKASH N
3	610523105010	GOWTHAM S
4	610523105011	GURUPRASATH S
5	610523105012	HARISHKUMAR R
6	610523105013	JAI AKASH.G
7	610523105014	JEEVAA A D
8	610523105015	KALAIVANI S
9	610523105017	KARTHIKEYAN K
10	610523105023	MURUGAPANDIYAN S
11	610523105024	NALLASAMY T
12	610523105025	NARENDHIRAN K
13	610523105026	NAVEENRAJ V
14	610523105027	PERARASU.K
15	610523105028	PERUMAL.P
16	610523105029	PREMNATH S
17	610523105030	RAJASEKAR R
18	610523105033	SANJAY S(19/06/2006)
19	610523105034	SANJAY. M
20	610523105037	SHALINI K
21	610523105038	SIVABALAN.M
22	610523105039	SOMESH V
23	610523105040	SURENDARAN N
24	610523105041	TAMILARASAN.K
25	610523105042	THARAN R
26	610523105043	THARAN.P
27	610523105044	VIMALCHARKRAVARTHI T
28	610523105045	VINOTHKUMAR.S
29	610523105046	VISHAL
30	610523105047	YUVARAJ B

  
Co-Ordinator

  
HOD / EEE

  
PRINCIPAL


Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.

## Photos



  
Co-Ordinator

  
HOD / EEE

  
**PRINCIPAL**  
Dr. A. SELVARAJ, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajlal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.

# Sample Scanned Certificate

## DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY

Salem - 636 309.

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VALUE ADDED PROGRAMME  
organized by  
Department of Electrical and Electronics Engineering  
Academic year 2023-2024 (ODD Semester)

### CERTIFICATE

Certified that Mr./Ms. GURUPRASATH S First Year Department of Electrical and Electronics Engineering has successfully completed the Value Added Programme on ELECTRICAL ESTIMATION & REWINDING PRACTICES.

From: 04-03-2024 To 08-03-2024 (Five Days)

Dr. P. Selvakumar  
Head / Department of EEE

Dr. A. Selvaraj  
Principal

Smt. Archana Manojkumar  
Secretary

Professional Bodies:



# DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED PROGRAM - ATTENDANCE SHEET

/AP Course Name : **ELECTRICAL ESTIMATION &  
REWINDING PRACTICES**

Duration : **From: 04.03.2024 To: 08.03.2024**


venue : **Offline Mode**

S.No.	Register No.	Name of the Student	04.03.2024	05.03.2024	06.03.2024	07.03.2024	08.03.2024
1	610523105001	AADHI S	/	/	/	/	/
2	610523105002	AKASH N	/	/	/	/	/
3	610523105010	GOWTHAM S	/	/	/	/	/
4	610523105011	GURUPRASATH S	/	/	/	/	/
5	610523105012	HARISHKUMAR R	/	/	/	/	/
6	610523105013	JAI AKASH.G	/	/	/	/	/
7	610523105014	JEEVAA A D	/	/	/	/	/
8	610523105015	KALAIVANI S	/	/	/	/	/
9	610523105017	KARTHIKEYAN K	/	/	/	/	/
10	610523105023	MURUGAPANDIYAN S	/	/	/	/	/
11	610523105024	NALLASAMY T	/	/	/	/	/
12	610523105025	NARENDRIRAN K	/	/	/	/	/
13	610523105026	NAVEENRAJ V	/	/	/	/	/
14	610523105027	PERARASU.K	/	/	/	/	/
15	610523105028	PERUMAL.P	/	/	/	/	/
16	610523105029	PREMNATH S	/	/	/	/	/
17	610523105030	RAJASEKAR R	/	/	/	/	/
18	610523105033	SANJAY S(19/06/2006)	/	/	/	/	/
19	610523105034	SANJAY. M	/	/	/	/	/
20	610523105037	SHALINI K	/	/	/	/	/
21	610523105038	SIVABALAN.M	/	/	/	/	/
22	610523105039	SOMESH V	/	/	/	/	/
23	610523105040	SURENDARAN N	/	/	/	/	/

24	610523105041	TAMILARASAN, K	/	/	/	/	/
25	610523105042	THARAN, R	/	/	/	/	/
26	610523105043	THARAN, P	/	/	/	/	/
27	610523105044	VIMALCHARKRAVARTHI T	/	/	/	/	/
28	610523105045	VINOTHKUMAR, S	/	/	/	/	/
29	610523105046	VISHAL	/	/	/	/	/
30	610523105047	YUVARAJ, B	/	/	/	/	/

  
Co-Ordinator

  
HOD / EEE

  
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