

**Program Name: B.E -ECE**

**Program Code: 106**

**Value Added Program (VAP)**

*For the*

**Academic year**

**2018-19**



# Dhirajlal Gandhi College of Technology

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## ***CERTIFICATE COURSES***

Department	<b>ELECTRONICS AND COMMUNICATION ENGINEERING</b>
Title	PCB DESIGN
Date and Duration	17.09.2018 (7 days)
Academic Year	2018-2019



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## VALUE ADDED PROGRAMME

### Syllabus

- Introduction to PCB Design
- Familiar Words Used In PCB Design
- Introduction to Schematic
- Schematic – Practicing Simple Circuit / Bus Connection
- Add New Library
- Layout Practicing [Track Editing, New Track Adding]
- Creating New Foot Print/Manual Routing
- Layout Practicing [Manual Routing/Gerber files creation]
- Introduction to Fabrication Techniques

Department		ECE
Title		PCB DESIGN
Academic Year		2018-19
Prepared by	Head of the Dept	
Mr. B.PRASAD AP/ECE	Dr.Venkatesh HOD/ECE	



  
Dr. S. SARAVANAN, M.E., Ph.D., MISTE.,  
PRINCIPAL  
Dhirajal Gandhi College of Technology  
Sikkanampatty, Salem - 636 309.

**DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY**

**Department of ECE**

**EAGLE DESIGN**

**II / Academic Year 2017-18**

<b>S.No</b>	<b>AU Reg No</b>	<b>Name of the Student</b>
1	610516106001	ABI ANANDH S
2	610516106002	AGILA T K
3	610516106003	AISHWARYA S
4	610516106004	AJAY V
5	610516106005	ANITHA.A
6	610516106006	ANNIES P M
7	610516106007	ARVINDRAJAN M D
8	610516106008	ASWINI K
9	610516106009	BALARAMAN V
10	610516106010	BENJAMIN DISON S
11	610516106011	BHARAT K
12	610516106012	BHOWSIYA G
13	610516106013	DANESH K V
14	610516106014	DEEPIKA A
15	610516106015	DEEPSHIKA P T
16	610516106016	DHANSHREE R
17	610516106017	DHARSHINI.R
18	610516106019	DHRUVI A BHALODIYA
19	610516106020	DICKSON DAVID R
20	610516106021	DINESH KUMAR M
21	610516106022	DIVYA MALA P
22	610516106023	GAYATHRI S
23	610516106024	GAYATHRIDEVI M

24	610516106025	GOKULAKANNAN R
25	610516106026	GOKULRAJ R
26	610516106027	GOWTHAM S
27	610516106028	HARIPRASATH D
28	610516106029	INDHUPRIYA M
29	610516106030	INDURAJ S
30	610516106031	INDUSHREE N
31	610516106032	ISAI ARASAN G
32	610516106033	JAYABHARATHI U
33	610516106034	KAMALA KARTHIK E
34	610516106035	KARAN S
35	610516106036	KARTHICK P
36	610516106037	KARTHIKSIVA S
37	610516106038	KEERTHANA J
38	610516106039	KEERTHANA S
39	610516106040	KEERTHANA.V
40	610516106041	KEERTHIRAJ V
41	610516106042	KIRAN KUMAR S
42	610516106043	KISHORE KUMAR R
43	610516106044	KOUSALYA S
44	610516106045	KRISHMA SHREE J R
45	610516106046	MADHUMITHA V
46	610516106047	MANGAIYARKARASI S
47	610516106048	MONICA M
48	610516106049	MOULIKA.S
49	610516106051	MURALIDHARAN S
50	610516106052	MURUGAVEL G
51	610516106053	NARMATHA.D

52	610516106701	BHARATHIRAJA L
53	610516106054	NAVEEN G
54	610516106055	NAVEEN KUMAR D
55	610516106056	NITHYA S
56	610516106057	NITHYA SHREE G
57	610516106058	NIVEDA M
58	610516106059	POORVAJA T
59	610516106060	PRAVIN M
60	610516106061	PREETHA S
61	610516106062	PREETHI S
62	610516106063	PRIYA C
63	610516106064	PRIYANKA K
64	610516106065	RAAKESH R
65	610516106066	RAGAVI A
66	610516106067	RAGUL V
67	610516106068	RAMYA S
68	610516106069	RENUKA R
69	610516106070	REVATHI V
70	610516106072	SANGEETHA R
71	610516106073	SAPNA A
72	610516106074	SARANYA K
73	610516106075	SARAVANA SABARI G D
74	610516106076	SASIPRIYA M
75	610516106077	SHALINI C
76	610516106078	SHARUK RAJ A
77	610516106079	SHREE SHRUTHI J
78	610516106080	SOUNDHARYA K
79	610516106081	SRIKARTHIKA S
80	610516106082	SRINITHI K
81	610516106083	SRI VAISHNAVI R
82	610516106084	SRIVISHNU O
83	610516106085	SRIYOGA B S
84	610516106086	SUDHA D
85	610516106087	SUDHAR SELVAM R
86	610516106088	SUJENDIRAN S
87	610516106089	SURIYA PRASANTH S
88	610516106090	SURYA S (SHANMUGAM)
89	610516106091	SURYA S (SHANKAR)
90	610516106092	SUSHMITHA K
91	610516106093	SUVALAKSHMI A
92	610516106094	SWATHI V
93	610516106095	SWETHA S
94	610516106096	SWETHA SHREE M
95	610516106097	THANGAVEL D
96	610516106098	VAISHNAVI K
97	610516106099	VAISHNAVI N

98	610516106100	VASANTHI S
99	610516106101	VENKATA HARITHA V
100	610516106102	VIGNESH G
101	610516106103	VIGNESH R
102	610516106104	VIJAYRAGAVAN S
103	610516106105	VINOTHKUMAR R
104	610516106401	SATHISH KUMAR N
105	610516106302	HARI MURUGAN

**DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY**

**DEPARTMENT OF ECE**

**EAGLE DESIGN COURSE**

**III/ACADEMIC YEAR 2017-18**

S.NO	REGISTER NO	STUDENT NAME
	1	610515106012
2	610515106014	GOKILAVANI B
3	610515106032	MADHUVANTHI S
4	610515106015	GOKULAPRIYA S
5	610515106018	JANANI D
6	610515106037	MANISHAA B
7	610515106043	NANDHINI G
8	610515106003	ANUSUYA K
9	610515106006	AYSWARYYA R
10	610515106030	KUPPURANI S
11	610515106033	MAHALAKSHMI R
12	610515106010	DHANUJA PANI S D
13	610515106011	DHARANI R
14	610515106021	JOTHI SNEHA M
15	610515106023	KANIMOZHI P
16	610515106016	GOPIKA R
17	610515106019	JAYADEVI P
18	610515106020	JOTHIMANGLAM K
19	610515106306	PAVITHRA R
20	610515106004	ARIF NASSAR

21	610515106302	GOKUL PERIYASAMY M
22	610515106304	JAGAN MANI J
23	610515106305	LAKSHMANAN A
24	610515106007	CHITHRA T
25	610515106034	MAHESHWARI K
26	610515106038	MANISHA A
27	610515106040	MOHANA PRIYA G
28	610515106024	KARTHIKA S
29	610515106026	KAVYA S
30	610515106028	KOWSALYA G
31	610515106039	MOHANAPRIYA S
32	610515106025	KAVIYARASAN R
33	610515106035	MALLESHGOPI S
34	610515106041	MURUGANAND D
35	610515106301	CHANDRA SEKARAN R
36	610515106057	PREM KUMAR G
37	610515106082	THIRUMALAI KUMAR R
38	610515106089	YASWANTH K N
39	610515106073	SUBHASHINI C B
40	610515106049	PEER MOHAMED M
41	610515106086	VIGNESH B
42	610515106087	VIGNESH R
43	610515106088	VIJAY S
44	610515106067	SHALINI P
45	610515106072	SUBASH M
46	610515106074	SUGUMAR S
47	610515106076	SUSHMIDHA G
48	610515106077	SUVATHIKA R
49	610515106078	SUVEDHA K S
50	610515106084	VENKATA RAMYA S
51	610515106051	PRABHAGHARAN P R
52	610515106055	PRATHEEP S
53	610515106069	SIVAPRAKASAM P
54	610515106085	VETRIVEL B
55	610515106045	NITHYA K
56	610515106047	PAVITHRA T
57	610515106048	PAVITRAA S
58	610515106058	PRIYANGA N
59	610515106061	RUPHASHREE J
60	610515106068	SHALINI S
61	610515106079	SWATHI M
62	610515106081	THILAGA A
63	610515106050	POORNIMA S



64	610515106062	SANDHIYA M
65	610515106065	SARANYA S
66	610515106070	SNEHA K
67	610515106013	GAYATHRI N
68	610515106036	MANIMALA V
69	610515106046	NIVEDARSINI B
70	610515106052	PRADEEP R
71	610515106044	NISHANTH S
72	610515106022	KADIRESAN M
73	610515106002	AKIL HARISH S
74	610515106053	PRAKASH RAJ M
75	610515106303	HYDER ALI S
76	610515106309	SATHISH KUMAR A
77	610515106311	VASANTHA KUMAR M
78	610515106312	VIGNESH P
79	610515106001	ABILASH R
80	610515106005	ASWIN S
81	610515106027	KISHORE KUMAR U
82	610515106064	SANTHOSH KUMAR K
83	610515106042	NAGA VAISHNAVI N
84	610515106054	PRASANNADEVI D S
85	610515106071	SUBA S
86	610515106083	VARSHINI J S
87	610515106009	DEEPA P
88	610515106059	RANJANA G
89	610515106060	RASHIKA S
90	610515106308	RAMYA S
91	610515106008	DEEKSHIDHA V
92	610515106031	LINTHANA K
93	610515106063	SANGEETHAA M
94	610515106075	SUNANTHA E
95	610515106029	KOWSALYA S
96	610515106056	PREETHA R
97	610515106310	SOUNDHARYA N
98	610515106307	PRINCE SAMUEL S B

CERTIFICATE OF  
**PARTICIPATION**

*Awarded to*  
Ms. SHALINI.P  
*For the successful participating in*  
PCB DESIGN- Saliabs L.L.P

*Awarded on : 2018*

*Signature : K. Ravi*



CERTIFICATE OF  
**PARTICIPATION**

*Awarded to*  
Mr. VETRIVEL.B  
*For the successful participating in*  
PCB DESIGN- Saliabs L.L.P

*Awarded on : 2018*

*Signature : K. Ravi*





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## ***VALUE ADDED PROGRAMME***

Department	<b>ELECTRONICS AND COMMUNICATION ENGINEERING</b>
Title	NI-LabVIEW CORE-1 & CORE-2
Date and Duration	19.03.19 (30 Hrs) CORE-1 22.04.19 (30Hrs) CORE-2
Academic Year	2018-2019

## Course Contents:

Topic	Hours
1. LabVIEW Programming Principles a. Data Flow b. Parallelism	1 hr
2. LabVIEW Environment a. Virtual Instruments (VIs) b. Front Panel and Block Diagram c. Icon and Connector Pane d. Context Help Window	1 hr
3. Data Types a. Numeric, String, Boolean, Path, Enum b. Clusters c. Arrays d. Type Definitions e. Waveforms f. Timestamps g. Dynamic Data Type h. Data Representation i. Coercion j. Data Conversion and Manipulation	3 hr
4. Arrays a. Array Functions	1 hr
5. Clusters a. Cluster Functions b. Function Polymorphism	1 hr
6. Error Handling a. Error Clusters b. Error Handling VIs and Functions c. Custom Error Codes d. Automatic/Manual Error Handling	2 hr

Course contents	HOURS
<b>Lesson 1 Common Design Techniques</b> A. Design Patterns B. Single Loop Design Patterns C. Multiple Loop Design Patterns D. Timing a Design Pattern	2
<b>Lesson 2 Synchronization Techniques</b> A. Notifiers B. Queues	2
<b>Lesson 3 Event Programming</b> A. Events B. Event-Driven Programming C. Caveats and Recommendations D. Event-Based Design Patterns	4
<b>Lesson 4 Error Handling</b> A. Importance of Error Handling B. Detect and Report Errors C. Errors and Warnings D. Ranges of Error Codes E. Error Handlers	2
<b>Lesson 5 Controlling the User Interface</b> A. Property Nodes B. Invoke Nodes C. VI Server Architecture D. Control References	3
<b>Lesson 6 File I/O Techniques</b> A. File Formats B. Binary Files C. TDMS Files	2



**Dhirajlal Gandhi College of Technology, Salem**  
Department of Electronics and Communication Engineering  
**NI LabVIEW Core-I**

S.No.	Reg.No.	Name of the student
1	610517106049	Pavithra S
2	610517106050	Poorvika K
3	610517106051	Pradeep M
4	610517106052	Prakash R
5	610517106053	Prakash S
6	610517106054	Prakash kalpesh nakum
7	610517106055	Princy alshwarya M
8	610517106056	Ragavi E
9	610517106057	Raghul T
10	610517106058	Rajamathengi J
11	610517106059	Rajarajeswari R
12	610517106060	Rajesh R
13	610517106061	Rajesh S
14	610517106062	Rameshkannan S
15	610517106063	Rubika R
16	610517106064	Rudhra S
17	610517106065	Sabanayagam M
18	610517106066	Sandhiya K
19	610517106067	Sanjay B
20	610517106068	Sanjay S
21	610517106069	Sathishkumar S
22	610517106070	Sethu raman B
23	610517106071	Shabarishkannaa B
24	610517106072	Shalini S
25	610517106073	Shanthy B
26	610517106074	Sharmila P H
27	610517106075	Shiny anisha S
28	610517106076	Sindhu S
29	610517106077	Siva shankari S R
30	610517106079	Sriramakrishnan R
31	610517106080	Subash chandra bose A
32	610517106081	Sugandhi G
33	610517106082	Surya M
34	610517106083	Surya S J
35	610517106084	Swetha S
36	610517106085	Thamarai selvi R
37	610517106086	Thirumanikandan A

  
Course Coordinator

  
HOD/ECE

**Dhirajal Gandhi College of Technology, Salem.**  
Department of Electronics and Communication Engineering  
**NI LabVIEW Core-II**

S.No.	Reg.No.	Name of the student
1	610517106001	Aarthi S
2	610517106003	Akila S
3	610517106008	Deva dharshini S
4	610517106009	Devipriya S
5	610517106018	Ganesh P
6	610517106023	Induja S
7	610517106024	Iyswarya V
8	610517106025	Janani V
9	610517106026	Jayachandra prabha K
10	610517106029	Juvaireya begum M
11	610517106032	Kavipriya V
12	610517106033	Kaviyaa K S
13	610517106037	Kowsalya K
14	610517106040	Meharaj F
15	610517106043	Mythily B
16	610517106044	Naaviin S
17	610517106045	Nandhini J

  
Course Coordinator

  
HOD/ECE

Department of Electronics and  
Communication Engineering

Value Added  
programme



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## Certificate of Participation

This is to certify that **Ms. RUBIKA.R** of Dhirajlal Gandhi College of Technology, Salem.  
has successfully completed the value added programme on **NI-LabVIEW Core-1 &  
Core-2** during the Academic year 2018-2019

  
**Dr. S. Saravanan**  
Principal | DGCT

  
**Mrs. Archana Manojkumar**  
Secretary/ DGCT



ORACLE ACADEMY



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EMC<sup>2</sup>

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Department of Electronics and  
Communication Engineering

Value Added  
programme



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## Certificate of Participation

This is to certify that **Ms. SHALINI.S** of Dhirajlal Gandhi College of Technology, Salem.  
has successfully completed the value added programme on **NI-LabVIEW Core-1 &  
Core-2** during the Academic year 2018-2019

  
**Dr. S. Saravanan**  
Principal | DGCT

  
**Mrs. Archana Manojkumar**  
Secretary/ DGCT



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PALS  
Pune, India



EMC<sup>2</sup>

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Department of Electronics and  
Communication Engineering

Value Added  
programme



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## Certificate of Participation

This is to certify that **Ms. SUVALAKSHMI.A** of Dhirajlal Gandhi College of Technology, Salem. has successfully completed the value added programme on **ELECTRONIC TESTING** during the Academic year 2018-2019

  
**Dr. S. Saravanan**  
Principal | DGCT

  
**Mrs. Archana Manojkumar**  
Secretary/ DGCT



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Tribal University for  
Engineering Education

PALS  
Pune Institute of Learning Systems



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Department of Electronics and  
Communication Engineering

Value Added  
programme



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## Certificate of Participation

This is to certify that **Ms. INDUSHREE.N** of Dhirajlal Gandhi College of Technology, Salem. has successfully completed the value added programme on **ELECTRONIC TESTING** during the Academic year 2018-2019

*S.S.*  
**Dr. S. Saravanan**  
Principal | DGCT

*Archana*  
**Mrs. Archana Manojkumar**  
Secretary/ DGCT



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