

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.
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Website: - www.miet.edu



Ph: 0431 - 2660 303

1.2.2 Number of Add on /Certificate programs offered during the last five years (10)

	2017-2018	
Sl. No	Name of Add on /Certificate programs offered	Pg.No
	EE17181 - Power Converters and Applications	
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Date: 01.06.2017

To

The Principal,
M.I.E.T Engineering College,
Trichy – 620007

Respected Madam,

Sub: Permission to conduct the certificate program - Reg.

We have planned to conduct the certificate program for our final year students from 12.06.17 to 16.06.17 at 09.30 AM 05.00 PM.

Name of the Certificate Program	Course Coordinator
Design of Power Converter and Applications	Mr. J.Gopi, AP/EEE

So kindly give us permission to conduct the certificate course and to utilize the facility.

Thanking you

Course Coordinator

HOD/EEE

Principal



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05.06.17

CIRCULAR

Sub: Certificate Program

It is planned to conduct the certificate program for the final year Electrical and Electronics Engineering students.

The certificate program is short term courses which are designed and offered by our department for the benefit of our students. Certificate program will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the Value Added Course	Course Coordinator
Design of Power Converter and Applications	Mr. J.Gopi, AP/EEE
Commencement of course from Timing: 09.30 am	

Course Coordinator

IQAC Coordinator

HoD/EEE

Principal

M.I.E.T ENGINEERING COLLEGE, TRICHY - 7

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Certificate Course (IV Year - VII Semester)

Course Syllabus

Name of the Course: Design of Power Converter and Applications

Course Code: EE17181

Course Coordinators: Mr. J.Gopi, AP/EEE

Total Hours: 34 Academic Year: 2017-2018

Objectives:

- To select and design important elements of a power converter system.
- · To design the driver circuits for LED.
- · To analyze the various types of inverters.
- · To provide the knowledge about power supply circuits.
- · To understand the various pulse generation circuits.

Unit I - DC - DC Converters

7

Introduction – Concept of DC – DC converters – Design of DC – DC converters – Types of DC – DC converters – Applications of DC – DC converters.

Unit II - LED Drivers

7

Introduction to LED drivers – Non-isolated type LED drivers – Isolated type LED drivers – Low power LED drivers – High power LED drivers.

Unit III - Inverters

7

Introduction to inverters – Design of inverters – CFL inverters – Design of medium power inverters – Applications of inverters.

Unit IV - Power Supplies

7

Introduction - Isolated and non-isolated type power supplies - Linear voltage regulated power supplies - Switched mode power supplies.

Unit V - Pulse Generation Circuits

6

Pulse generation using linear IC - Pulse generation using RC and RL circuits - Pulse generation using microcontrollers - Advances in pulse generation circuits.

Course Outcomes:

The students will be able to

- Ability to design the converters and inverter for various applications.
- Ability to understand the types of power supplies and pulse generation circuits.
- · Ability to design the driver circuits for LED.

References:

[1] M.H.Rashid, "Power Electronics: Circuits, Devices and Applications", Pearson Education, PHI Third Edition, New Delhi, 2004.

[2] P.S.Bimbra, "Power Electronics", Khanna Publishers, Third Edition, 2003.

[3] L.Umanand, "Power Electronics Essential and Applications", Wiley, 2010.

Course Coordinator

IQAC Coordinator

HoD/EEE

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GUNDUR, TIRUCHIRAPPALLI-620 007.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Willing Student list

CP1 Coordinator: Mr. J.Gopi, AP/EEE

CP2 Coordinator: Mr. E.Muthukumaran, AP/EEE

CP3 Coordinator: D.Tamilselvan, AP/EEE

Academic Year: 2017-2018

SL. NO	STUDENT NAME	STUDENT NAME CP1 Design of Power Converter and Applications			
1.	AALIYABANU M	/	.+.		
2.	AJASH M	/			
3.	ANWARDEEN M	Y			
4.	BEER AJMAL DHASKIN M	~			
5.	ESATH G	1			
6.	GAYATHRI M	/			
7.	JASIMA NASREEN MOHAMMAD IQBAL	✓			
8.	KANAGAMANIKANDAN T	1			
9.	LOGESH R	✓			
10.	MOHAMED HASSAIN J	✓			
11.	MOHAMED IBRAHIM M	/			
12.	RESHMA FARHA S				
13.	SHEIK MOHAMMED ZUBAIR S D	~			
14.	VANIKA.C	√			
15.	VICTORLAWRENCE J	✓			

SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	Power Electronics Using MATLAB
16.	YUVAPPRIYA M	✓		
17.	AHAMED ISTHIYAK H	V		
18.	AMBALAKARAR THILAGAN ELANGO	✓ .		
19.	ANTONY SELVAM Y	Y		
20.	ANWAR BASHA A	✓	*	
21.	AROCKIA REMIGIUS A	✓		
22.	ASIQ NOORMOHAMED A	/		See State Control of the State Control
23.	AVULIAMOHAMMED A	~		
24.	ELAVARASAN E	1		
25.	FAISAL AHAMED J	1		
26.	GOWS MYDEEN I	Y		
27.	HAJA SHAHUL HAMEERUDEEN M	~		
28.	IMRANKHAN A	Y		
29.	IMTHIAZ AHAMED R	· /		10
30.	KANNAN G	✓	MANAGED VISION OF A THE STREET	
31.	KAUSALYA K	1		
32.	LOHESHWARAN A	✓		
33.	MANIRAJAN N	/		
34.	MANSUR BAHATH M	✓		
35.	MOHAMED ASHIK S	/		
36.	MOHAMED HUSSAIN M	✓		
37.	PRIYA D	✓		
38.	RAJA M	/		
39.	RAJA PRAVEEN S	✓		
40.	RAJASEKAR M	✓	GH-1439-980	



SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	CP3 Power Electronics Using MATLAB
41.	RANJITH R	✓		
42.	RIYAZ MOHAMED M	V		
43.	SARANYA R	✓ ·		
44.	SOBAN RAJ T	~		
45.	THAMOTHARAN S	/		
46.	THANGAMAYIL P	1		
47.	VIJAY S	*		
48.	ABIRAM SAM SEELAN.V			· /
49.	AJITH KUMAR.C		1	✓
50.	ALAGESAN.M		✓ ,	1
51.	AMEER SUHAIL.S		✓	1
52.	ANTONY.A			
53.	CHARLES.P		1	✓
54.	DHIVYA.B	080	1	1
55.	GOVINDARAJ.B			✓
56.	JAYABALAN.M		✓	✓
57.	JENNERSON.I		✓	✓
58.	LEOANTONY.W		✓	✓
59.	MAHESHWARAN.K		✓	✓
60.	MANIMARAN.K		✓	✓
61.	MOHAMEDASIK.J		✓	1
62.	MOHAMED LUKMAN.K.M		✓	✓
63.	MOHAMED MUFASIL MUFEETH.K.M		√	✓
64.	MOHAMED MUSTAQ.M.S		✓	1
65.	MOHAMED NABIL.B		✓	✓



SL. NO	STUDENT NAME	UDENT NAME CP1 Design of Power Converter and Applications		CP3 Power Electronics Using MATLAB
66.	MOHAMED NASURUDEEN.J		1	V
67.	MOHAMED RAZIK.K.A		1	4
68.	MOHAMED THAGIR.M		✓	✓
69.	MOHAMED THAREEK.A			V
70.	MOHAMED YASEER.M		1	✓
71.	MOHAMED YASIR ARABATH.M		/	4
72.	MUTHUMARI.E		✓	~
73.	NAFEES AHMED.A		✓	V
74.	NANDHINI.J		✓	· 🗸
75.	NITHYA.R		✓	1
76.	NOORUL AMEEN.M		1	1
77.	PANDIYAN.G		. 1	V .
78.	PAVITHRA.E		/	/
79.	PON MANIKANDA PRABHU.B		✓	
80.	PRAKASHRAJ.A		✓	~
81.	PRAVEENKUMAR.S.P		✓	1
82.	PRIYANKA.S		. 🗸	¥
83.	RAGUL.V		✓	1
84.	RAVICHANDRAN.B		✓	1
85.	RUBI.R		1	-
86.	SALMANKHAN.S		~	· ·
87.	SAYED AASIQUE.Y		✓	✓.
88.	SENTHIL KUMAR.P		✓	✓
89.	SHAHANA BEGAM.S		✓	✓
90.	SHEIK ABDUL AZEEZ.A			✓



SL. NO	STUDENT NAME	CPI Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	CP3 Power Electronics Using MATLAB
91.	SHEIK ABDULLASHA.J			1
92.	SHEKABDULLA.S		1	
93.	SIVA KUMAR.M		✓	~
94.	SIVASANKAR.S		. 🗸	✓
95.	SOWNDHARYA.S		1	1
96:	THANVEER AHAMED.A.R			
97.	THUNGABDULRAHMAN.S		1	1
98.	VENKATESH.N		1	/
99.	VIGNESH.V (26-02-1997)			✓
100.	VINOTH.G	Cara La Maria	1	✓
101.	ANIFNABI. A		✓	✓
102.	ASHIKA. S		1	✓
103.	HAJAMOHAMEDIRFAN. I		✓	✓ -
104.	JOSEPH PRABAKARAN. R		✓	✓
105.	KIRUBAANETHI. C.M		1	✓
106.	MOHAMED ASLAM. J		✓	✓
107.	MOHAMED MUSTAK ALI. M	-	✓	✓
108.	PRAKASH. B		✓	✓
109.	SATHISH. M		✓	✓
110.	SINEHAVARAN. M		✓	
111.	YASAR. M		✓	· 🗸

Course Coordinator

HOD/EEE

Principal



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Certificate Course (IV Year – VII Semester)

Course Delivery

Name of the Course: Design of Power Converter and Applications

Course Code: EE17181

Course Coordinator: Mr. J.Gopi, AP/EEE

Total Hours: 34

Academic Year:2017-2018

Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Introduction and importance of converters		
2.	Concepts		
3.	Types		
4.	Design of DC – DC converters	7.	12.06.17
5.	Design of DC – DC converters		
6.	Applications		
7.	Converter interaction with other converters		
8.	Introduction to LED drivers		
9.	Non-isolated type LED drivers		
10.	Isolated type LED drivers		
11.	Low power LED drivers	7	13.06.17
12.	High power LED drivers		
13.	constant current LED driver		
14.	constant voltage LED driver		
15.	Introduction to inverters		
16.	Design of inverters		
17.	CFL inverters	7	14.06.17
18.	Design of medium power inverters		
19.	Inverter battery capacity	-	

Sl.No	Topics to be Covered	Hours	Date of Deliver
20.	Three-phase inverters		
21.	Applications of inverters		
22.	Introduction		
23.	Isolated type power supplies		1
24.	Non-isolated type power supplies		
25.	Linear voltage regulated power supplies	7	15.06.17
26.	Switched mode power supplies		
27.	Overload protection		
28.	Thermal Management		
29.	Pulse generation using linear IC	-	
30.	Pulse generation using RC and RL circuits		*
31.	TTL pulse generator	*	160617
32.	Pulse generation using microcontrollers	6	16.06.17
33.	Optical pulse generators		
34.	Advances in pulse generation circuits		

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HOD/EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Resource Person Details

Title of the program	Design of Power Converter and Applications
Course Code	EE17181
Duration and timing of the program	34 Hrs, 09:30 AM to 05:00 PM
Name of the resource person	J.Gopi
Photo of the resource person	
Email address	gopieng_84@yahoo.co.in
Contact number	9042941825
Designation	Assistant Professor
Educational qualification	 Completed B.E. Electrical and Electronics Engineering in M.I.E.T. Engineering College, Trichy. Completed M.E. Power Electronics and Drives in Saranathan College of Engineering, Trichy.
Experience	> Teaching Experience - 7 Years.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Certificate Program (IV Year – VII Semester)

Attendance Sheet

Name of the Course: Design of Power Converter and Applications Course Code: EE17181 Course Coordinators: Mr. J.Gopi, AP/EEE

SL.NO	CONTRACT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	STUDENT NAME	12	12	12	12	12	12	12	13	13	13	坚	马	13	13	基	14	14	-14	74	4	14	5
1.	AALIYABANU M	7	1	1	1	1	1	1	1	7	7	1	1	1	1	1	1	1	1	1	1	,	1
2.	AJASH M	1	1	1	1	1	1	1	1	1	1	1	1	*	1	1	1	1	1	1	1	1	1
3.	ANWARDEEN M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.	BEER AJMAL DHASKIN M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.	1	1	1	1	1	1	1
5.	ESATH G	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.	GAYATHRI M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	,	1	1	,
7.	JASIMA NASREEN MOHAMMAD IQBAL	1	1	,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.	KANAGAMANIKANDAN T	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	.1	,
9.	LOGESH R	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.	MOHAMED HASSAIN J	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1	,	1	1	1	1	1
11.	MOHAMED IBRAHIM M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.	RESHMA FARHA S	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	,	1	,	1	1	1	1

or No	CTIPTITIVIA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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13.	SHEIK MOHAMMED ZUBAIR S	1	1	1	1	a	a	a		0.000		a	-	a		a	a		a	a	9	a	a
14.	VANIKA.C	1	1	1	1	1	1	1	a	a	a	a	a	a	0	1	1	1	1	1	,	,	,
15.	VICTORLAWRENCE J	1	1	1	1	1	1	1	,	1	1	1	,	1	1	a	a	a	a	-,	1	1	,
16.	YUVAPPRIYA M	1	1	,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.	AHAMED ISTHIYAK H	1	1	1	1	1	1	1	,	1	,	1	1	1	1	1	1	1	1	,	^	1	1
18.	AMBALAKARAR THILAGAN ELANGO	1	1	1	1	1	7	1.	1	1	1	1	1	1	1	1	1	1	1	^	1	1	1
19.	ANTONY SELVAM Y	*	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.	ANWAR BASHA A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.	AROCKIA REMIGIUS A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1	1	1
22.	ASIQ NOORMOHAMED A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1
23.	AVULIAMOHAMMED A	1	1	1	1	1	,	,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.	ELAVARASAN E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1
25.	FAISAL AHAMED J	1	1	,	1	,	1	1	1	1	1	1	1	1	,	1	1	1	1	,	1	1	1
26.	HAJA SHAHUL HAMEERUDEEN M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.	GOWS MYDEEN I	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1
28.	IMRANKHAN A	1	1	1	1	1	1	1	1	1	1	1	1	/	1	1	1	1	1	1	1	1	1
29.	IMTHIAZ AHAMED R	1	1	1	1	1	,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.	KANNAN G	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,
31.	KAUSALYA K	1	1	1	1	1	1	1	1	1	1	1	1	1	1	^	1	1	1	1	1	1	1
32.	LOHESHWARAN A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1

	CTUDENT MAN CO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
SL.NO	STUDENT NAME	12	12	马	品	12	12	三	肾	12	学	但	12	坚	"生	14	14	华	4	14	14-	#	15
33.	MANIRAJAN N	1	1	1	1	1	1	1	1	1	7	A	1	1	1	1	1	1	1	1	1	1	1
34.	MANSUR BAHATH M	a	a	0	a	a	0	a	,	1	1	,	1	1	1	1	^	1	1	1	,	1	1
35.	MOHAMED ASHIK S	,	1	1	1	1	1	1	^	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36.	MOHAMED HUSSAIN M	1	1	^	1	,	,	1	,	1	1	1	l	1	1	1	1	1	1	1	1	1	1
37.	PRIYA D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1
38.	RAJA M	,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.	RAJA PRAVEEN S	1	1	1	1	1	1	1	,	1	*	1	,	1	.,	1	1	1	1	Λ	1	1	1
40.	RAJASEKAR M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	^	1	1	1	,	1	1	1
41.	RANJITH R	1	1	1	1	1	1	1	1	1	,	1	1	1	1	1	^	1	1	1	1	1	
42.	RIYAZ MOHAMED M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	^	1	1	1	1	1	1
43.	SARANYA R	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1	1	1	1	^	1	1
44.	SOBAN RAJ T	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1	1	1
45.	THAMOTHARAN S	a	a	a	a	0	a	a	a	a	a	a	a	·a	0	a	a	·a	a	a	a	a	a
46.	THANGAMAYIL P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47.	VIJAY S	1,	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

SL.NO	STUDENT NAME	23	24	25	26	27	28	29	30	31	32	33	34
56.110	STODENT NAME	15	岩	毕	坛	思	毕	吃	16	上	16	-16	14
1.	AALIYABANU M	1	1	1	1	1	1	1	1	1	1	1	1
2.	AJASH M	a	a	a	a	a	0-	-/	1	1	1	3	,
3.	ANWARDEEN M	1	1	1	1	1	1	a	a	1	a	1	6
4.	BEER AJMAL DHASKIN M	1	1	1	1	1	1	1	1	,	1	1	,
5.	ESATH G	1	1	1	1	1.	1	1	1	1	1	1	1
6.	GAYATHRI M	1	1	,	1	1	1	1	1	,	1	7	1
7.	JASIMA NASREEN MOHAMMAD IQBAL	1	1	1	1	1	1	1	1	1	1	1	1
8.	KANAGAMANIKANDAN T	1	1	1	1	,	1	1	1	1	1	,	1
9.	LOGESH R	1	1	,	1	1	1	1	1	1	1	1	-
10,	MOHAMED HASSAIN J	1	1	1	1	1	1	,	1	1	1	1	1
11.	MOHAMED IBRAHIM M	1	1	1	1.	1	1		1	1	1	1	1
12.	RESHMA FARHA S	,	1	1	1	1	1	1	1	1	1	1	1
13.	SHEIK MOHAMMED ZUBAIR S D	10	A	a	12	10	a	. 1	0	a	-a	1	0
14.	VANIKA.C	1	1	1	1	1	1	1	1	1	1	1	1
15.	VICTORLAWRENCE J	1	1	1	1	1	1	,	1	1	1	1	1
16.	YUVAPPRIYA M	1	1	1	1	1	1	,	1	1	1	1	1
17.	AHAMED ISTHIYAK H	1	1	1	1	,	1	,	1	1	1	,	1
18.	AMBALAKARAR THILAGAN ELANGO	1	1	1	1	1	1	1	1	1	1	1	1
19.	ANTONY SELVAM Y	1	1	1	1	1	1	1	1	1	1	1	1
20.	ANWAR BASHA A	,	1	1	1	1	1	,		1	1	',	1

SL.NO	STUDENT NAME	23	24	25	26	27	28	29	30	31	32	33	34
		15	15	坚	图	毕	15	16	16	1	16	16	4
21.	AROCKIA REMIGIUS A	1	1	1	1	1	1	1	1	1	1	1	1
22.	ASIQ NOORMOHAMED A	1	1	1	1	1	1	1	1	1	1	1	1
23.	AVULIAMOHAMMED A	1	1	1	1	1	1	1	1	1	1	1	1
24.	ELAVARASAN E	1	1	1	1	1	7	1	1	1	1	1	1
25.	FAISAL AHAMED J	1	1	1	1	1	1	1	1	1	,	1	1
26.	HAJA SHAHUL HAMEERUDEEN M	1	1	1	1	1	1	1	1	1	1	1	1
27.	GOWS MYDEEN I	1	1	1	1	1	1	1	1	1	,	1	1
28.	IMRANKHAN A	1	1	1	1	1	1	,	1	1	1	1	1
29.	IMTHIAZ AHAMED R	1	1	1	1	1	1	1	1	1	1	1	1
30.	KANNAN G	1	1	1	1	1	1	1	,	1	1	1	1
31.	KAUSALYA K	1	1	1	1	1	1	1	1	1	1	1	1
32.	LOHESHWARAN A	1	1	1	1	1	1	1	1	,	1	1	1
33.	MANIRAJAN N	1	1	1	1	1	1	1	1	1	1	1	1
34.	MANSUR BAHATH M	1	1	1	1	1	1	1	1	1	1	1	1
35.	MOHAMED ASHIK S	1	1	1	1	1	1	1	1	1	1	1	1
36.	MOHAMED HUSSAIN M	1	1	1	1	1	1	1	1	1	1	1	1
37.	PRIYA D		1	1	1	1	1	1	1	1	1	1	1
38.	RAJA M	1	1	1	1	1	1	1	1	1	1	1	1
39.	RAJA PRAVEEN S	1	1	1	1	1	1	1	1	1	,	1	1
40.	RAJASEKAR M	1	1	1	1	1	1	1	1	1	1	1	1
41.	RANJITH R	1	1	1	1	1	1	1	1	1	1	-	,

er No	PTHANKS NAME	.23	24	25	26	27	28	29	30	31	32	33	34
SL.NO	STUDENT NAME	5/2	15	15	15	18	15	此	16	JE	-16	14	-IL
42.	RIYAZ MOHAMED M	1	1	1	1	1	1	1	1	1	1	1	1
43.	SARANYA R	1	1	1	1	1	1	1	1	1	1	1	,
44.	SOBAN RAJ T	1	1	1	1	,	1	1	/	1	1	1	1
45.	THAMOTHARAN S	1	1	1	1	1	1	1	1	1	1	1	1
46.	THANGAMAYIL P	a	-a	a	0	a	a	0	0	a	-a	1	0
47.	VIJAY S	1	1	1	1	1	1	1	/	1	-	-	1

H_

Course Coordinator

HOD/EEE

Principal

PRINCIPAL
M.I.E.T. ENGINEERING GOLI FOE
GUNDUR, TIRUCHIRAPPALLI-620 22/



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
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Ph: 0431 - 2660 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Certificate Program Assessment Test

Name of the course: Design of Power Converter and Applications

Course Code: EE17181 Academic Year: 2017-2018 Date: 18.12.19

Time: 01:30 hrs

Answer All the Questions (5*2=10)
PART-A

- 1. What is the need of converters?
- 2. What are types of converters in recent trends?
- 3. Write the requirement of isolation in LED drives.
- 4. What are the advantages of three phase inverters?
- 5. Define thermal management.

Answer All the Questions (4*10=40)

PART-B

6.a. Enumerate the design procedure for ZETA converter.

(Or)

- 6.b. Discuss in detail about interaction between converters.
- 7.a. What constant current LED drive and discuss it.

(Or)

- 7.b. Analyze isolation and non-isolation in driver circuits.
- 8.a. Explain the working principle of CFL inverters.

(Or)

- 8.b. How to calculate the inverter battery capacity?
- 9.a. Why switched mode regulation required and give detailed explanation?

(Or)

9.b. Explain different type of pulse generation circuit.

Course Coordinator

HoD/EEE

Principal



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING One Page Report

Name of the Course: Design of Power Converter and Applications

Course Code: EE17181

Course Coordinators: Mr. J.Gopi, AP/EEE

Total Hours: 34

Academic Year: 2017 - 2018

I hereby affirm that the entire course contents in the certificate program "Design of Power Converter and Applications" listed in the certificate program syllabus have been performed by the students as the part of the prescribed co – curricular activities through certificate course by NAAC and NBA.

I confirmed that the certificate program title as "Design of Power Converter and Applications" was done by me in the beginning of the semester and course delivery with attendance of the students was recorded.

I confirmed that all the students for this certificate program were actively attended and performed well throughout the duration and eligible students received the participation certificate.

Course Coordinator

HODEEE

Principal

M.I.E.T. ENGINEERING COLLEGE
Trichy, Pudukkottai Road, Trichy - 620 007.

Course Completion Certificate

This is to Certify that Mr/Ms.D.PRIVA

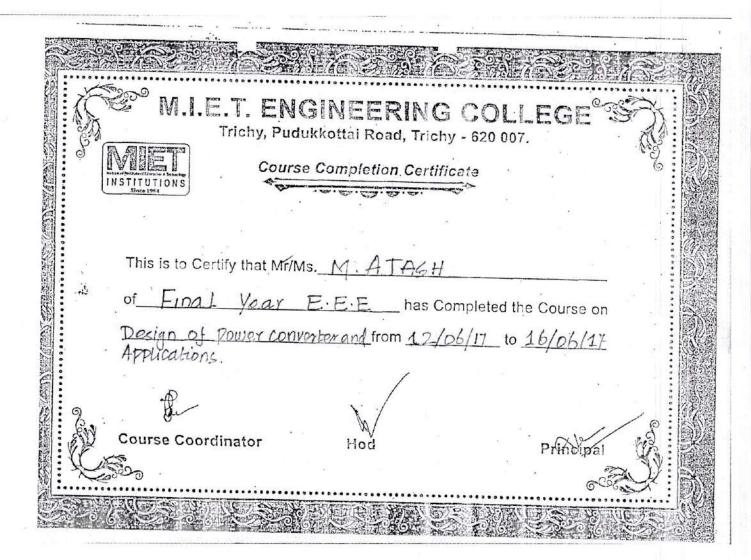
of Final Year E.E. E has Completed the Course on Design of Power Convertor from 12/06/17 to 16/06/17 and Applications

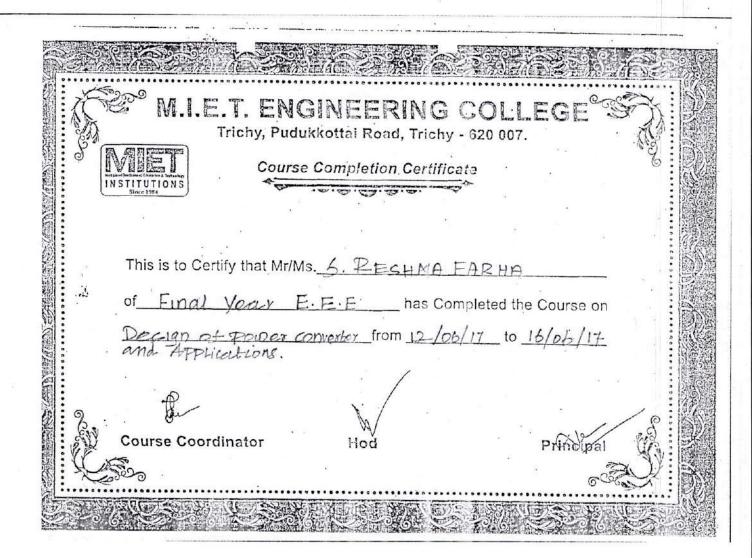
Bu

Course Coordinator

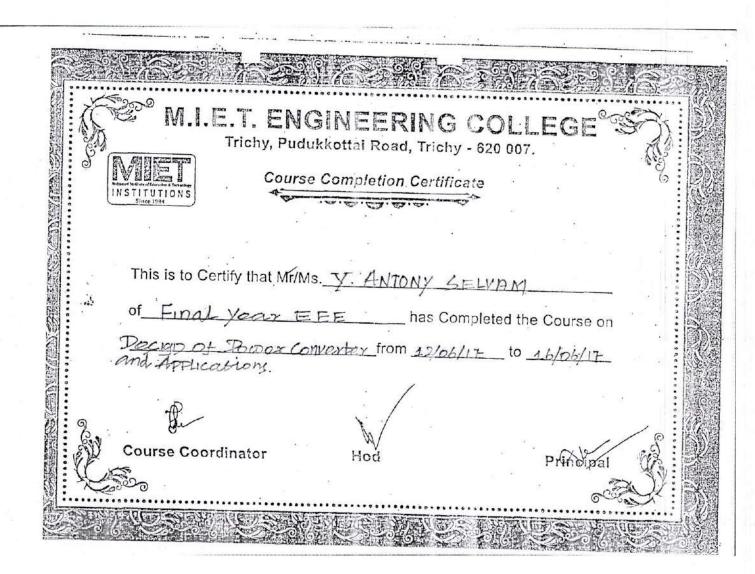
Hod M.J.E.T. ENGINEERING COL

M.I.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPPALLI-620 007. Principal





GUNDUR, TIRUCHIRAPPALLI-620 007.



M.I.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPPALLI-620 007



Trichy, Pudukkottai Road, Trichy - 620 007.



Course Completion Certificate

This is to Certify that Mr/Ms. G. KANNAN

of Final Year E.E.E has Completed the Course on

Design of Power Coverter from 12-106/17 to 16/06/17

De

Course Coordinator

 \mathbb{W}

PRINCIPAL T. ENGINEERING COLL

M.I.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPPALLI-62 Principal



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Ph: 0431 - 2660 303

Date: 01.06.2017

To

The Principal,
M.I.E.T Engineering College,

Respected Madam,

Trichy - 620007

Sub: Permission to conduct the certificate program - Reg.

We have planned to conduct the certificate program for our third year students from 12.06.17 to 16.06.17 at 09.30am to 05.00pm.

Name of the Certificate Program	Course Coordinator
Power Quality Issues in Industrial Loads	Mr. E.Muthukumaran, AP/EEE

So kindly give us permission to conduct the certificate course and to utilize the facility.

Thanking you

Course Coordinator

HOD/EEE

Principal



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Ph: 0431 - 2660 303

05.06.17

CIRCULAR

Sub: Certificate Program

It is planned to conduct the certificate program for the third year Electrical and Electronics Engineering students.

The certificate courses are short term program which are designed and offered by our department for the benefit of our students, certificate program will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their name to the course coordinator.

Name of the Certificate Program	Course Coordinator
Power Quality Issues in Industrial Loads	Mr. E.Muthukumaran, AP/EEE
Commencement of course for	rom 12.06.17 to 16.06.17
Timing: 09.30 AN	I to 05.00 PM

Course Coordinator

IQAC Coordinator

HOD/EEE

Principal

M.I.E.T ENGINEERING COLLEGE, TRICHY - 7

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Certificate Course (III Year-V Semester)

Course Syllabus

Name of the Course: Power Quality Issues in Industrial Loads

Course Code: EE17182

Course Coordinators: Mr. E.Muthukumaran, AP/EEE

Total Hours: 32

Academic Year: 2017-2018

Objectives:

- To provide the knowledge about various power quality problems arise in industry.
- To analyze and comprehend the various condition monitoring procedure available in industry.
- To know about the different ways of harmonics elimination methodology adopted for electric drives.
- To analyze the power factor management related to high inductive loads.

Unit I - Introduction to Power Quality Problems

7

Types of power quality issues, regulations, standards, prevention techniques, measurements, analysis and real-time tests.

Unit II -Harmonics

7

Causes of harmonics, Harmonics signatures, Effect of harmonics, Guide lines for harmonic voltage and current limitation, Harmonic current mitigation.

Unit III -Condition Monitoring in Industry

6

Types of faults, test methods, sensors and measurement techniques, traditional and advanced diagnostic methods, case studies and real-time tests.

Unit IV -Power Quality Measurement

(

Power quality measurement devices, Power quality measurements, Number of test locations. Test duration, Instrument setup, Instrument set up guidelines.

Unit V - Power Factor Management in Industry

6

Power factor improvement, correction, penalty, voltage rise due to capacitance, application of synchronous condensers and static VAR compensators.

Course Outcomes:

The students will be able to

- Ability to understand and analyze various power quality issues arose in industry.
- Ability to monitor the stage of power factor improvement in highly inductive and non-linear loads.

References:

[1] Bhim Singh, Ambrish Chandra, Kamal Al-Hadded, "Power Quality: Problems and Mitigation Techniques", Wiley, 2010.

M.I.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPPALLI-620 007

- [2] Roger C.Dugan, "Electrical Power System Quality", Tata Mcgraw Hill, Third Edition,
- [3] Dennis Sifsofe Anyomi, "Power Quality and Industrial Performance", Anchor Academic Publishing, 2015.

A Joseph IQAC Coordinator



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Willing Student list

CP1 Coordinator: Mr. J.Gopi, AP/EEE

CP2 Coordinator: Mr. E.Muthukumaran, AP/EEE

CP3 Coordinator: D. Tamilselvan, AP/EEE

Academic Year: 2017-2018

SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	CP3 Power Electronics Using MATLAB
1.	AALIYABANU M	V		
2.	AJASH M	· ·		
3.	ANWARDEEN M	· 🗸		
4.	BEER AJMAL DHASKIN M	-		
5.	ESATH G	✓		
6.	GAYATHRI M	/		
7.	JASIMA NASREEN MOHAMMAD IQBAL	✓ 		
8.	KANAGAMANIKANDAN T	1		
9.	LOGESH R	/		
10.	MOHAMED HASSAIN J	/		
11.	MOHAMED IBRAHIM M	Y		
12.	RESHMA FARHA S	V		
13.	SHEIK MOHAMMED ZUBAIR S D	· ·		
14.	VANIKA.C	· /		
15.	VICTORLAWRENCE J	V		
16.	YUVAPPRIYA M	1		

	AHAMED ISTHIYAK H		Loads	Using MATLAB
10		/		
10.	AMBALAKARAR THILAGAN ELANGO	✓		
19.	ANTONY SELVAM Y	1		
20.	ANWAR BASHA A	✓		
21.	AROCKIA REMIGIUS A	· ·		
22.	ASIQ NOORMOHAMED A	✓		
23.	AVULIAMOHAMMED A	✓		
24.	ELAVARASAN E	~		
25.	FAISAL AHAMED J	✓		
26.	GOWS MYDEEN I	✓	3.00	
27.	HAJA SHAHUL HAMEERUDEEN M	~	4	
28.	IMRANKHAN A	~		
29.	IMTHIAZ AHAMED R	~		
30.	KANNAN G	~		
31.	KAUSALYA K	/		
32.	LOHESHWARAN A	✓ ·		
33.	MANIRAJAN N	· /	-	
34.	MANSUR BAHATH M	~		
35.	MOHAMED ASHIK S	/		
36.	MOHAMED HUSSAIN M	· /		
37.	PRIYA D	✓		
38.	RAJA M	✓		
39.	RAJA PRAVEEN S	✓		
40.	RAJASEKAR M	✓	ali	
41.	RANJITH R	·		



SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	Power Electronics Using MATLAB
42.	RIYAZ MOHAMED M	✓		
43.	SARANYA R	✓		
44.	SOBAN RAJ T	✓		
45.	THAMOTHARAN S	✓		
46.	THANGAMAYIL P	✓		
47.	VIJAY S	✓		
1.	ABIRAM SAM SEELAN.V		~	V
2.	AJITH KUMAR.C		1	V
3.	ALAGESAN.M		. 1	V
4.	AMEER SUHAIL.S		✓	
5.	ANTONY.A			
6.	CHARLES.P		1	1
7.	DHIVYA.B		✓	1
8.	GOVINDARAJ.B		✓	✓
9.	JAYABALAN.M		. 1	1
10.	JENNERSON.I		✓	V
11.	LEOANTONY.W		✓	1
12.	MAHESHWARAN.K		✓	√
13.	MANIMARAN.K		✓	✓
14.	MOHAMEDASIKJ		1	1
15.	MOHAMED LUKMAN.K.M		1	1
16.	MOHAMED MUFASIL MUFEETH.K.M		1	✓
17.	MOHAMED MUSTAQ.M.S		✓	✓
18.	MOHAMED NABIL.B		✓	✓
19.	MOHAMED NASURUDEEN.J		_	✓ ·

SL. NO	STUDENT NAME	CPI Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	Power Electronics Using MATLAB
20.	MOHAMED RAZIK.K.A		1	1
21.	MOHAMED THAGIR.M		1	✓
22.	MOHAMED THAREEK.A		0.0000000000000000000000000000000000000	
23.	MOHAMED YASEER.M		✓	1
24.	MOHAMED YASIR ARABATH.M	-	1	1
25.	MUTHUMARI.E		. 🗸	/
26.	NAFEES AHMED.A		✓	1
27.	NANDHINI.J		1	✓
28.	NITHYA.R		✓	✓
29.	NOORUL AMEEN.M		✓	1
30.	PANDIYAN.G		1	✓
31.	PAVITHRA.E		~	~
32.	PON MANIKANDA PRABHU.B		✓	
33.	PRAKASHRAJ.A		✓	√
34.	PRAVEENKUMAR.S.P		✓	~
35.	PRIYANKA.S		✓	✓
36.	RAGUL.V		✓	✓
37.	RAVICHANDRAN.B		✓	✓
38.	RUBI.R		. ~	~
39.	SALMANKHAN.S		1	~
40.	SAYED AASIQUE.Y		✓	✓
41.	SENTHIL KUMAR.P		✓	~
42.	SHAHANA BEGAM.S		✓	✓
43.	SHEIK ABDUL AZEEZ.A			1
44.	SHEIK ABDULLASHA.J			/

SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	CP3 Power Electronics Using MATLAB
45.	SHEKABDULLA.S		✓	1
46.	SIVA KUMAR.M		✓·	1
47.	SIVASANKAR.S		. 🗸	1
48.	SOWNDHARYA.S		1	✓
49.	THANVEER AHAMED.A.R		✓	
50.	THUNGABDULRAHMAN.S		✓	V
51.	VENKATESH.N		✓	√
52.	VIGNESH.V (26-02-1997)		✓ ·	V
53.	VINOTH.G		~	✓
54.	ANIFNABI. A		✓	~
55.	ASHIKA. S		1	✓
56.	HAJAMOHAMEDIRFAN. I		1	- V
57.	JOSEPH PRABAKARAN. R		1	V
58.	KIRUBAANETHI. C.M		1	V
59.	MOHAMED ASLAM, J		/	1
60.	MOHAMED MUSTAK ALI. M		. ~	1
61.	PRAKASH. B		1	~
62.	SATHISH. M		√	✓
63.	SINEHAVARAN. M		1	
64.	YASAR. M		√	✓ /

Course Coordinator

HOD/EEE

Principal



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Certificate Course (III Year - V Semester)

Course Delivery

Name of the Course: Power Quality Issues in Industrial Loads

Course Code: EE17182

Course Coordinator: Mr. E.Muthukumaran, AP/EEE

Total Hours: 32

Academic Year:2017-2018

Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Introduction of power quality issues and its importance	7	12.06.17
2.	Types of power quality issues		
3.	Regulations		
4.	Standards		
5.	Prevention techniques		
6.	Measurements		
7.	Analysis and real-time tests		
8.	Causes of harmonics	7	13.06.17
9.	Harmonics signatures		
10.	Effect of harmonics		
11.	Effect of harmonics		
12.	Guide lines for harmonic voltage limitation		
13.	Guide lines for harmonic current limitation		
14.	Harmonic current mitigation		
15.	Types of faults	6	14.06.17
16.	Test methods		
17.	Sensors and Measurement techniques		
18.	Traditional and advanced diagnostic methods		
19.	Case studies and Real-time tests		
20.	Case studies Real-time tests		

Sl.No	Topics to be Covered	Hours	Date of Delivery
21.	Power quality devices		
22.	Power quality measurement		
23.	Number of test locations		15.06.17
24.	Test duration	6	15.00.17
25.	Instrument setup		
26.	Instrument set up guidelines		=
27.	Power factor improvement		
28.	Correction	The state of the s	
29.	Penalty		16.06.17
30.	Voltage rise due to capacitance	6	10.00.17
31.	Application of synchronous condensers		_
32.	Static VAR compensators		

Course Coordinator

норгае

Principal



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Resource Person Details

Title of the program	Power Quality Issues in Industrial Loads
Course Code	EE17182
Duration and timing of the program	32 Hrs, 09:30 AM to 05:00 PM
Name of the resource person	E.Muthukumaran
Photo of the resource person	
Email address	muthukumaran.e@miet.edu
Contact number	9944166801
Designation	Assistant Professor
Educational qualification	 Completed B.E. Electrical and Electronics Engineering in National Engineering College, Kovilpatti. Completed M.E. Power Systems in K.L.N. Engineering College, Madurai.
Experience	> Teaching Experience - 10 Years.



Academic Year: 2017-2018

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Certificate Course (III Year – V Semester)

Attendance Sheet

Name of the Course: Power Quality Issues in Industrial Loads Course Code: EE17182 Course Coordinators: Mr. E.Muthukumaran, AP/EEE

SL.NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
SDANO	STUDENT NAME	12/2	17/6	10/6	13%	12/4	12/6	12/6	13/4	13%	13/4	101	13/	13/	13/	4	14/2	14/2	14/	TY	11/2	15/6	15/
1.	ABIRAM SAM SEELAN,V	1	1	1	,	.1	1	1	1	1	1	1	1	1	ı	1	1	1	1	,	1	1	1
2.	AJITH KUMAR.C	1	1	1	1	1	7	7-	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1
3.	ALAGESAN.M	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1	1	1	,	1	1	,
4.	AMEER SUHAIL.S	1	1	,	,	1	1	1	a	a	a	a	a	a	a	1	1	,	,	1	,	1	1
5.	CHARLES.P	1	1	1	,	1	1	1	,	1	1	,	1	,	,	,	,	1	1	,	1	1	1
6.	DHIVYA.B	,	1	1	,	,	1	1	,	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.	GOVINDARAJ.B	1	,	,	,	1	1	1	1	1	1	1	,	1	1	1	1	1	,	1	1	1	1
8.	JAYABALAN.M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.	JENNERSON.I	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1
10.	LEOANTONY,W	1	1	1	1	1	1	1	1	1	1	1	,	1	1	,	,	1	1	,	1	1	1
10.	LEGANTONY.W	1/	1	1	1	1	1	1	1	1	1	1	1	1	/	1	1	1	1	1	1		1

SL.NO	STEVEN TO STANKE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
SLINO	STUDENT NAME	12/4	12/6	12/6	12/6	12/	12/2	12/5	3%	13/	BL	13/	13/6	13/4	13/6	1/6	140	14	14	17/6	IV,	15/6	15/
11.	MAHESHWARAN.K	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.	MANIMARAN.K	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.	MOHAMEDASIK.J	1	1	7	1	1	1	1	1	1	1	1	7	1	1	1	/	1	1	1	1	1	1
14.	MOHAMED LUKMAN.K.M	1	1	1	1	1	,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15,	MOHAMED MUFASIL MUFEETH.K.M	1	1	1	1	1	/	1	1	1	1	1	1	1	1	1	1	1	1	1	1	t	1
16.	MOHAMED MUSTAQ.M.S	1	1	1	1	1	1	1	1	1	1	1	7	1	1	1	1	1	1	1	1	1	1
17.	MOHAMED NABIL.B	a	a	a	a	a	a	a	a	a	a	4	a	a	a	a	0	0	a	a	a	1	,
18.	MOHAMED NASURUDEEN.J	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.	MOHAMED RAZIK.K.A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.	MOHAMED THAGIR.M	1	1	1	1	1	ı	1	1.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.	MOHAMED YASEER.M	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1	,	1	1	1	1
22.	MOHAMED YASIR ARABATH.M	,	1	1	1	1	1	1	1	1	1	1	1	/	1	1	1	/	1	/	/	1	1
23.	MUTHUMARI.E	1	1	1	1	1	.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1
24.	NAFEES AHMED.A	1	,	,	1	,	1	,	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1
25.	NANDHINI.J	1	1	1	,	1	,	1	1	1	1	1	1	1	1	1	1	,	1	1	1	,	1
26.	NITHYA.R	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.	NOORUL AMEEN.M	1	1	1	1	1	,	1	1	1	1	1	,	1	1	1	1	1	1	1	1	,	1
28.	PANDIYAN.G	a	cx	0	a	a	cı	a	a	u	·v	a	0	a	a	a	c	a	4	a	a	1	1
29.	PAVITHRA.E	,	1	1	1	1	,	1	1	,	1	1	1	1	1	1	1	1	1	1		,	1

SL.NO	CTUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
SL.NO	STUDENT NAME	17/6	9/12	Ph	17/6	17/2	17	14/5	17/6	13%	13%	13%	13/	1/6	13/4	1%	1/2	14/6	1%	11/6	14/4	15/2	17
30.	PON MANIKANDA PRABHU.B	1	1	1	1	1	1	1	1	1	1	1	a	a	a	í	1	Ť	1	1	1	1	1
31.	PRAKASHRAJ.A	1	1	1	1	1	1	1	1	1	,	1	1	1	1	1	1	,		7	./	1	1
32.	PRAVEENKUMAR.S.P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1/2	a	A	a	a	a	1	1
33.	PRIYANKA.S	/	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1
34.	RAGUL.V	1	1	1	1	1	1	1	,	,	,	1	,	1	1	1	1	1	1	1	1	,	1
35.	RAVICHANDRAN.B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	a	a	a	a	a	a	1	1
36.	RUBI.R	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1
37.	SALMANKHAN.S	1	1	1	1	1	1	1	1	1	1	1	1	1.	1	1	1	1	,	1	1	1	1
38.	SAYED AASIQUE.Y	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39.	SENTHIL KUMAR.P	1	1	/	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40.	SHAHANA BEGAM.S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,
41.	SHEKABDULLA.S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42.	SIVA KUMAR.M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43.	SIVASANKAR.S	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1
44.	SOWNDHARYA.S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45.	THANVEER AHAMED.A.R	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1
46.	THUNGABDULRAHMAN.S	1	1	/	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	1	1	1	1
47.	VENKATESH.N	a	a	a	a	0	a	a	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1
48.	VIGNESH.V (26-02-1997)	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1	. 1	1	1	1	1	1	1

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
SL.NO	STUDENT NAME	17/	176	1/6	12/1	12/	12/1	17/6	13/6	13/2	96	13/	13/6	13/4	13/6	弘	176	14/	14/2	17/	11/6	1%	15/6
49.	VINOTH.G	a	-	17.4	a	a			1	1	1	1	1	1	1	1	1	1	1	1	1	t	1
50.	ANIFNABI. A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
51.	ASHIKA. S	1	1	,	1	1	1	1	1	1	1	,	1	1	1	1	1 ,	,	1	1	1	1	1
52.	HAJAMOHAMEDIRFAN, I	,	1	1	,	. /	1	1	,	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53.	JOSEPH PRABAKARAN. R	1	1	1	1	^	1	1	a	a	a	a	a	a	a	1	1	1	1	1	1	1	1
54.	KIRUBAANETHI. C.M	1	1	1	1	1	1	1	1	1	1.	1	1	1	1	1	1	1	1	1	1	1	1
55.	MOHAMED ASLAM, J	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56.	MOHAMED MUSTAK ALI, M	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1	1	1	1
57.	PRAKASH. B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58.	SATHISH. M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
59.	SINEHAVARAN. M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
60.	YASAR, M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	a	a	a	a	a	a	1	1

SL.NO	STUDENT NAME	23	24	25	26	27	28	29	30	31	32
SLINO	STODENT NAME	15/6	15%	15/6	15/6	16/6	邓	16/6	16/6	14/6	15/1
1.	ABIRAM SAM SEELAN.V	1	,	1	1	1	,	1	1	1	1
2.	AJITH KUMAR.C	1	1	1	1	1		,	1	1	1
3.	ALAGESAN.M	1	1	1	1	1	1	1	1	1	1
4.	AMEER SUHAIL.S	1	1	,	1	1	1	^	1	1	1
5.	CHARLES.P	1	1	1	1	1	,	1	1	1	1
6.	DHIVYA.B	1	1	,	1	1	1	7	1	1	1
7.	GOVINDARAJ.B	1	1	1	1	1	1	1	1	1	1
8.	JAYABALAN.M	,	1	1	1	1	1	1	1	,	1
9.	JENNERSON.I	1	1	1	1	1	1	1	1	1	,
10.	LEOANTONY.W	,	1	1	1	,	1	1	1	1	,
11.	MAHESHWARAN.K	1	1	1	1	1	1	1	1	1	1
12.	MANIMARAN.K	1	1	1	1	1	1	1	a	a	0
13.	MOHAMEDASIK.J	,	1	1	1	1	1	,	K	1	
14.	MOHAMED LUKMAN.K.M	*	1	1	1	1	1	1	1	1	
15.	MOHAMED MUFASIL MUFEETH.K.M	1	1	1	1	1	1	1	1	1	1
16.	MOHAMED MUSTAQ.M.S	1	,	,	1	1	,	1	1	,	1
17.	MOHAMED NABIL.B	1	1	a	a	a	a	a	a	a	a
18.	MOHAMED NASURUDEEN.J	1	1	1	1	1	1	1	1	1	,
19.	MOHAMED RAZIK.K.A		1	,	,	,	,	,	1	١,	1

SL.NO	STUDENT NAME	23	24	25	26	27	28	29	30	31	32
SL.NO	STODENT NAME	15/6	15/6	15/6	15/6	16/6	16/6	16/6	14/2	16	15/2
20.	MOHAMED THAGIR.M	1	1	1	1	1	1	1	1	ì	1
21.	MOHAMED YASEER.M	,	,	1	1	^	,	,	1	1	1
22,	MOHAMED YASIR ARABATH.M	1	1	1	1	1	1	1	1	1	1
23.	MUTHUMARI.E	1	1	,	1	1	,	1	1	1	1
24.	NAFEES AHMED.A	,	1	1	1	1	1	1	1	1	1
25.	NANDHINI.J	1		-1	,	1	1	1	1	1	1
26.	NITHYA.R	,	1	,	,	,	1	1	1	1	1
27.	NOORUL AMEEN.M	1	,	,	1	1	1	1	1	1	1
28.	PANDIYAN.G	a	a	a	a	a	a	a	a	cı	4
29.	PAVITHRA.E	1	1	1	,	1		1	1	1	1
30.	PON MANIKANDA PRABHU.B	1	1	1	1	1	1	1	1	1	1
31.	PRAKASHRAJ.A		1	1	1	1	,	1	1	1	,
32.	PRAVEENKUMAR.S.P	1	1	1	1	1	1	1	,	1-	1
33.	PRIYANKA.S	,	1	1	1	1	1	1	,	1	,
34.	RAGUL,V	,	1	1	1	1	1	1	1	1	1
35.	RAVICHANDRAN.B	7	1	1	1	1	. 1	1	1	,	1
36.	RUBI.R	1	1	1	1	1	1	1	1	1	1
37.	SALMANKHAN.S	1	1	1	1	1	1	. /	1	ļ	1
38.	SAYED AASIQUE.Y	1	,	,	1	1	1	1	1	,	

SL.NO	STUDENT NAME	23	24	25	26	27	28	29	30	31	32
SLAO	STODENT NAME	15/6	15/6	15/6	15/6	16/6	况	15/6	14/6	14/6	15/6
39.	SENTHIL KUMAR.P	,	1	1	1		1	1	1	1	1
40.	SHAHANA BEGAM.S	1	,	1	1	,	1	1	1	1	,
41.	SHEKABDULLA.S	,	1	,	1	,	1	1	1	1	1
42.	SIVA KUMAR.M	,		1	1	1	1	1	1	. 1	1
43.	SIVASANKAR.S	,	1	1	1	,	1	1	1	,	1
44.	SOWNDHARYA.S	1	1	7	1	1	1	1	7	1	1
45.	THANVEER AHAMED.A.R	1	1	,	. /	1	1-	1	1	1	1
46.	THUNGABDULRAHMAN.S	,	,	,	1	1	1	1	1	t	1
47.	VENKATESH.N	,	1	1	1	1	1	1	1	,	1
48.	VIGNESH.V (26-02-1997)	1	1	,	1	1	1	1	1	1	1
49.	VINOTH.G	1	1	,	1	1	1	1	,	1	1
50.	ANIFNABI. A	1	1	ı	,	1	1	1	1	,	1
51.	ASHIKA. S	1	1	1	1	1	1	,	1	1	1
52.	HAJAMOHAMEDIRFAN. I	1	1	1	1	,	,	,	,	1	1
53.	JOSEPH PRABAKARAN, R	1	,	1	1	a	4	a	a	a	a
54.	KIRUBAANETHI. C.M	1	,	/	1	1	1	1	1	1	1
55.	MOHAMED ASLAM, J	1 ,	,	,	1	,	,	,	1	1	1
56.	MOHAMED MUSTAK ALI. M		,	•	1	1	,	F	,	1	1
57.	PRAKASH. B	1,	1		1	,	,	-	1	,	1

ET NO	CTUDENT NAME	23	24	25	26	27	28	29	30	31	32
SL.NO	STUDENT NAME	15/6	15/6	15/6	15/6	16/6	16/6	16/6	11/2	1/16	16/2
58.	SATHISH. M	129	1	1	1	1	-1	1		1	1
59.	SINEHAVARAN. M	,	1	1		A	1	1	J	1	1
60.	YASAR. M	1	1	1	^	1	1	1	1	1	,

Course Coordinator

HODÆEE

M.I.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPPALLI-620 007.

Principal



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
TRICHY - PUDUKKOTTAL ROAD, TIRUCHIRAPPALLI. - 620 007.
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Ph: 0431 - 2660 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Certificate Program Assessment Test

Name of the course: Power Quality Issues in Industrial Load

Course Code: EE17182 Academic Year: 2017-2018 Date: 20.06.17 Time: 01:30 hrs

Answer All the Questions (5*2=10)

PART-A

- 1. What is power quality?
- 2. List the power quality standards?
- 3. Classify the harmonics.
- 4. How to detect fault in power circuit?
- 5. What is the causes for voltage swell?

Answer All the Questions (4*10=40)

PART - B

6.a. Draw the power quality curve and explain it detail.

(Or)

- 6.b. Explain the various power quality issues.
- 7.a. How to mitigate the harmonics explain it in detail?

(Or)

- 7.b. Analyze power quality issues related to harmonics.
- 8.a. Explain various case studies power quality.

(Or)

- 8.b. What are the general requirement in industry to maintain the quality of power?
- 9.a. Why power factor correction is required and explain it with one method?

(Or)

9.b. Explain working principle of static VAR compensator.

Course Coordinator

HoD/EEE

Principal



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennal)
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Website: - www.mlet.edu

Ph: 0431 - 2660 303

One Page Report

Name of the Course: Power Quality Issues in Industrial Loads

Course Code: EE17182

Course Coordinators: Mr. E.Muthukumaran, AP/EEE

Total Hours: 32

Academic Year: 2017-2018

I hereby affirm that the entire course contents in the certificate program "Power Quality Issues in Industrial Loads" listed in the certificate course syllabus have been performed by the students as the part of the prescribed co – curricular activities through certificate course by NAAC and NBA.

I confirmed that the certificate program title as "Power Quality Issues in Industrial Loads" was done by me in the beginning of the semester and course delivery with attendance of the students was recorded.

I confirmed that all the students for this certificate program were actively attended and performed well throughout the duration and eligible students received the participation certificate.

Course Coordinator

HODEEE

Principal

M.I.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPPALLI-620 007

	M.I.E.T. ENGINEERING COLLEGE Trichy, Pudukkottai Road, Trichy - 620 907.	DOMESTICAL
0	Course Completion Certificate INSTITUTIONS Since 1984 Course Completion Certificate	
000000000000000000000000000000000000000	This is to Certify that Mr/Ms. J. NANDHINI of Third Year EEE has Completed the Course on	
***************************************	"Power Quality Issues in from 12.06.2017 to 16.06.2017 Industrial Loads"	多级多
9	him I all	(2) 42 (A)
Ŷ.	Course Coordinator Hod PRINCIPAL Principal M.I.E.T. ENGINEERING COLLEGE Principal GUNDUR, TIRUCHIRAPPALLI-628 887	TO THE REAL PROPERTY.

M.I.E.T. ENGINEERING COLLEGE Trichy, Pudukkottal Road, Trichy - 620 007.
Course Completion Certificate INSTITUTIONS Since 1981
This is to Certify that Mr/Ms. K. MANIMARAN
of Third Year FFF has Completed the Course on Power Quality Tasues in from 12.06.2017 to 16.06.2017 Industrial Loads*
Industrial Loads to 12.06.2017 to 16.06.2017
Course Coordinator Hod Principal

M.I.E.T. ENGINEERING COLLEGE Trichy, Pudukkottal Road, Trichy - 620 007.
Course Completion Certificate
INSTITUTIONS Since 1981
This is to Certify that Mr/Ms. J. AMEER SUHAIL
of Third Year FFF has Completed the Course on
"Power Quality Issues in from 12.06.2017 to 16.06.2017 Industrial Loads"
Industrial Loads"
Course Coordinator Hod Primbal (%)

M.I.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPPALLI-620 007

M.I.E.T. ENGINEERING COLLEGE STY
Trichy, Pudukkottal Road, Trichy - 620 007. Course Completion Certificate
INSTITUTIONS Since 1984
This is to Costify that Made
This is to Certify that Mr/Ms. S. PRIYANKA of Third Year FEE has Completed the Course on
of Third Year FEE has Completed the Course on "Power Quality Issues in from 12.06.2017 to 16.06.2017 Industrial Londs"
Industrial Londs"
Course Coordinator Hoo Principal

K	MACONIE TO ENGINEERING COLLEGE S	
	Trichy, Pudukkottai Road, Trichy - 620 007. Course Completion Certificate INSTITUTIONS Single 1944	
	Since 1984	
	This is to Certify that Mr/Ms. S. SALMANKHAN	
*	of Third Year EEE has Completed the Course on "Power Quality Inques in from 12.06.2017 to 16.06.2017 Industrial Loads"	
	Industrial Loads"	
	Course Coordinator Hod Principal	60%
$\frac{1}{2}$		¥:



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennal)
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.
Email: principalangg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 - 2660 303

One Page Report

Name of the Course: Power Quality Issues in Industrial Loads

Course Code: EE17182

Course Coordinators: Mr. E.Muthukumaran, AP/EEE

Total Hours: 32

Academic Year: 2017-2018

I hereby affirm that the entire course contents in the certificate program "Power Quality Issues in Industrial Loads" listed in the certificate course syllabus have been performed by the students as the part of the prescribed co – curricular activities through certificate course by NAAC and NBA.

I confirmed that the certificate program title as "Power Quality Issues in Industrial Loads" was done by me in the beginning of the semester and course delivery with attendance of the students was recorded.

I confirmed that all the students for this certificate program were actively attended and performed well throughout the duration and eligible students received the participation certificate.

Course Coordinator

HODEEE

Principal



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
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Email: principalengg@miet.edu, contact@miet.edu
Wobsite: - www.miet.edu

Ph: 0431 - 2660 303

Date: 04.12.2017

To

The Principal

M.I.E.T Engineering College,

Trichy - 620007

Respected Madam,

Sub: Permission to conduct the certificate program - Reg...

We have planned to conduct the value added course for our third year students from 11.12.17 to 15.12.17.

Name of the certificate program	Course Coordinator
Power Electronics Using MATLAB	Mr.D.Tamilselvan., AP/EEE

So kindly give us permission to conduct the certificate course and to utilize the facility.

Thanking you

Course Coordinator

HoD EEE

Principal



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.
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Website: - www.miet.edu

Ph: 0431 - 2660 303

6.12.17

CIRCULAR

Sub: Certificate Program

It is planned to conduct the certificate program for the third year Electrical and Electronics Engineering students after the class hours.

The certificate program is short term certificate courses which are designed and offered by our department for the benefit of our students. Course will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned certificate program can enroll their name to the course coordinator.

Name of the Certificate Program	Course Coordinator
Power Electronics Using MATLAB	Mr.D.Tamilselvan., AP/EEE
Commencement of course Time: 09.30 AN	

Course Coordinator

A NOSONL' IOAC Coordinator

HoD/EEE

Principal

M.I.E.T ENGINEERING COLLEGE, TRICHY - 7

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Certificate Course (III Year - VI Semester)

Course Syllabus

Name of the course: Power Electronics Using MATLAB

Course Code: EE17183

Course Coordinator: Mr.D. Tamilselvan., AP/EEE

Total Hours: 34

Academic Year: 2017-2018

Objective

- To Impart the Knowledge to the students with MATLAB software.
- To introduce the concept of MATLAB/SIMULINK for power semiconductor devices and power electronics applications.

Unit I - Introduction to MATLAB

Mathematical functions- Vector and matrix operations-Arrays-Simulink library browser Circuit elements-Simulating the model.

Unit II - MATLAB Simulation of Power Semiconductor Devices

7

Power Diode- Thyristors- Power MOSFET- Gate turn off thyristors (GTO) - Insulated-gate bipolar transistor (IGBT).

Unit III - Phase Controlled Rectifier

Gate triggering methods- Rectifier and its classification- Six pulse converter.

Unit IV - DC Choppers

7

Chopper configuration—Type A- chopper, Type B chopper, Type C chopper, Type D chopper and Type D chopper—Switched mode regulators—Boost converter and Buck converter with closed loop.

Unit V -Inverters

3

Voltage source inverters- Single phase half-bridge inverter with R and RL load -Single phase full -bridge inverter with Rand RL load -Pulse width modulation techniques

Course Outcome

The students will be able to

- · Understand the basics of simulink
- Able to simulate the phase controlled rectifier, Chopper and Inverter.
- · Able to simulate closed loop control for Boost and Buck converter.

References

These are some of the links and books which can help students in increasing their knowledge base and clarification of the doubts.

- [1] http://www.eng-tips.com/threadminder.cfm?pid=575
- [2] http://www.matlabtutorials.com/mathforum/
- [3] http://www.mathworks.in/matlabcentral/
- [4] http://www.cfd-online.com/Forums/tags/matlab.html
- [5] http://diydrones.com/forum/topic/listForTag?tag=Matlab

Course Coordinator

A Josson Li IOAC Coordinator

HOD/EEE

Principal



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Willing Student list

CP1 Coordinator: Mr. J.Gopi, AP/EEE

CP2 Coordinator: Mr. E.Muthukumaran, AP/EEE

CP3 Coordinator: D.Tamilselvan, AP/EEE

Academic Year: 2017-2018

SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	CP3 Power Electronics Using MATLAB
1.	AALIYABANU M	/	Carrier and the second of the second	
2.	AJASH M	· ·		
3.	ANWARDEEN M	· ·		
4.	BEER AJMAL DHASKIN M	· ·		
5.	ESATH G	· /		
6.	GAYATHRI M	1		
7.	JASIMA NASREEN MOHAMMAD IQBAL	✓ ·		
8.	KANAGAMANIKANDAN T	✓		
9.	LOGESH R	✓		
10.	MOHAMED HASSAIN J	· /		
11.	MOHAMED IBRAHIM M	· ·		
12.	RESHMA FARHA S			
13.	SHEIK MOHAMMED ZUBAIR S D	· /		
14.	VANIKA.C	✓		
15.	VICTORLAWRENCE J	· ·		(4)
16.	YUVAPPRIYA M	· ·		

SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	Power Electronics Using MATLAB
17.	AHAMED ISTHIYAK H	✓		
18.	AMBALAKARAR THILAGAN ELANGO	✓		
19.	ANTONY SELVAM Y	✓		
20.	ANWAR BASHA A	✓		
21.	AROCKIA REMIGIUS A	✓		
22.	ASIQ NOORMOHAMED A	✓		
23.	AVULIAMOHAMMED A	✓		
24.	ELAVARASAN E	√		
25.	FAISAL AHAMED J	✓		
26.	GOWS MYDEEN I	✓		
27.	HAJA SHAHUL HAMEERUDEEN M	-		
28.	IMRANKHAN A	✓		
29.	IMTHIAZ AHAMED R	✓		10
30.	KANNAN G	✓	consideration of the same and t	
31.	KAUSALYA K	~		
32.	LOHESHWARAN A	4		
33.	MANIRAJAN N	✓		
34.	MANSUR BAHATH M	1	- San Carlotte and Estatement of the Carlotte	
35.	MOHAMED ASHIK S	✓		
36.	MOHAMED HUSSAIN M	✓	1	
37.	PRIYA D	✓ ·		
38.	RAJA M	✓		
39.	RAJA PRAVEEN S	1	an menangaran	
40.	RAJASEKAR M	✓		production memory, three left and the
41.	RANJITH R	✓		



SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	CP3 Power Electronics Using MATLAB
42.	RIYAZ MOHAMED M	✓		
43.	SARANYA R	✓ ·		
44.	SOBAN RAJ T	~		
45.	THAMOTHARAN S	✓ ·		
46.	THANGAMAYIL P	✓	7.	
47.	VIJAY S	✓ ·	-5000 (2000)	
48.	ABIRAM SAM SEELAN.V			✓
49.	AJITH KUMAR.C		✓	V
50.	ALAGESAN.M		✓	~
51.	AMEER SUHAIL.S		✓	~
52.	ANTONY.A			
53.	CHARLES.P		✓	/
54.	DHIVYA.B		✓	✓
55.	GOVINDARAJ.B		✓	✓
56.	JAYABALAN.M		1	1
57.	JENNERSON.I		✓	-
58.	LEOANTONY.W		✓	✓
59.	MAHESHWARAN.K		* 1	~
60.	MANIMARAN.K		✓	*
61.	MOHAMEDASIKJ		~	~
62.	MOHAMED LUKMAN.K.M		✓	~
63.	MOHAMED MUFASIL MUFEETH.K.M		✓ .	✓
64.	MOHAMED MUSTAQ.M.S		- ×	✓
65.	MOHAMED NABIL.B		✓	~
66.	MOHAMED NASURUDEEN.J		~	1



SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	CP3 Power Electronics Using MATLAB
67.	MOHAMED RAZIK.K.A		1	✓
68.	MOHAMED THAGIR.M		. 🗸	~
69.	MOHAMED THAREEK.A			✓
70.	MOHAMED YASEER.M		✓	✓
71.	MOHAMED YASIR ARABATH.M		✓	~
72.	MUTHUMARI.E		1	V
73.	NAFEES AHMED.A		✓	✓
74.	NANDHINI.J		✓	✓
75.	NITHYA.R		1	1
76.	NOORUL AMEEN.M		1	1
77.	PANDIYAN.G		1	✓
78.	PAVITHRA.E		1	✓
79.	PON MANIKANDA PRABHU.B		✓	
80.	PRAKASHRAJ.A		✓	~
81.	PRAVEENKUMAR.S.P		. 1	✓
82.	PRIYANKA.S		1	1
83.	RAGUL.V		✓	~
84.	RAVICHANDRAN.B		1	*
85.	RUBI.R		✓	4
86.	SALMANKHAN.S		✓	✓
87.	SAYED AASIQUE.Y		1	✓
88.	SENTHIL KUMAR.P		✓	~
89.	SHAHANA BEGAM.S		✓	1
90.	SHEIK ABDUL AZEEZ.A			1
91.	SHEIK ABDULLASHA.J			✓

SL. NO	STUDENT NAME	CP1 Design of Power Converter and Applications	CP2 Power Quality Issues in Industrial Loads	CP3 Power Electronics Using MATLAB
92.	SHEKABDULLA.S		✓	/
93.	SIVA KUMAR,M		✓ -	~
94.	SIVASANKAR.S		✓	1
95.	SOWNDHARYA.S		~	✓
96.	THANVEER AHAMED.A.R	=		
97.	THUNGABDULRAHMAN.S		1	1
98.	VENKATESH.N		✓	✓
99.	VIGNESH.V (26-02-1997)		✓	✓
100.	VINOTH.G		✓ ·	✓
101.	ANIFNABI. A		1	✓
102.	ASHIKA. S		1	✓
103.	HAJAMOHAMEDIRFAN. I		. 🗸	✓
104.	JOSEPH PRABAKARAN. R		✓	1
105.	KIRUBAANETHI. C.M		~	1
106.	MOHAMED ASLAM. J		✓ ✓	✓
107.	MOHAMED MUSTAK ALI, M		1	1
108.	PRAKASH. B		1	1
109.	SATHISH, M		1	✓
110.	SINEHAVARAN. M		✓	
111.	YASAR. M		✓	✓

Course Coordinator

HOD/EEE

Principal



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Certificate Program (III Year – VI Semester)

Course Delivery

Name of the Course: Power Electronics Using MATLAB

Course Code: EE17183

Course Coordinator: Mr.D. Tamilselvan., AP/EEE

Total Hours: 34

Academic Year: 2017-2018

Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Mathematical functions		
2.	Vector and matrix operations		
3.	Arrays		
4.	Simulink library browser	7	11.12.17
5.	Circuit elements		
6.	Circuit elements		
7.	Simulating the model		
8.	Thyristors		
9.	Power Diode		
10.	Power MOSFET		
11.	Gate turn off thyristors (GTO)	7	12.12.17
12.	Insulated-gate bipolar transistor (IGBT).		
13.	Gate triggering methods		84
14.	Gate triggering methods		
15.	Rectifier and its classification		
16.	Rectifier and its classification		12.12.17
17.	Six pulse converter	7	13.12.17
18.	Six pulse converter		

SI.No	Topics to be Covered	Hours	Date of Deliver
19.	Chopper configuration		
20.	Type A chopper		
21.	Type B chopper		
22.	Type A chopper and Type B chopper		
23.	Type D chopper and Type D chopper	Maria Ma	
24.	Switched mode regulators		14.12.17
25.	closed loop control	7	
26.	Boost converter with closed loop.		
27.	Buck converter with closed loop.		
28.	Voltage source inverters		
29.	Voltage source inverters		15.12.17
30.	Single phase half-bridge inverter with R load		
31.	Single phase half-bridge inverter with RL load	6	
32.	Single phase full -bridge inverter with R		
33.	Single phase full -bridge inverter with RL load		
34.	Pulse width modulation techniques		

Course Coordinator

HoD/EEE

Principal



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Resource Person Details

	Resource Person Details
Title of the program	Power Electronics Using MATLAB
Course Code	EE17183
Duration and timing of the program	34 Hrs, 9:00 AM to 5:00 PM
Name of the resource person	D.Tamilselvan
Photo of the resource person	
Email address	tamilselvan.t@miet.edu
Contact number	9787393272
Designation	Assistant Professor
Educational qualification	 Completed B.E., Electrical and Electronics Engineering from Sri Sairam Engineering College during 2001. Completed M.E., Power Electronics and Drives from St.Joseph's College of Engineering during 2009. Pursuing Ph.D in High gain DC – DC Converter at Anna University, Chennai from St.Joseph's College of Engineering
Experience	 Industrial experience – 4 Years. Teaching Experience – 12 Years.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Certificate Program (III Year – VI Semester)

Attendance Sheet

Name of the Course: Power Electronics Using MATLAB Course Code: EE17183 Course Coordinator: Mr.D.Tamilselvan., AP/EEE Total Hours: 34 Academic Year: 2017-2018

SL.NO	CTITISTINT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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1.	ABIRAM SAM SEELAN.V	1	1	1	1	1	1	1	N	6	0	00	1	1	1	1	1	1	1	1	1		1
2.	AJITH KUMAR.C	1	1	>	1	1	1	1	-	-	-	-	-	-	-	-	1		-	,	,	1	1
3.	ALAGESAN,M	1	/	/	-	/	/	1	a	0	Ta	0	0-	a	a	a	a	2	2	^	0	a	12
4.	AMEER SUHAIL,S		-	1	1	-	1	1	/	/	1	1	1	1	(-	-	1	-	1	-	0	-
5.	CHARLES.P	1	1	1	1	1	1	1	1	1	1	1	1	-	/	1	1	1	1	,	1	1	1
6.	DHIVYA.B	1	1	1	1	1	1	1	/	1	1	1	1	1	,	1	1	1	1	1	/	,	,
7.	GOVINDARAJ.B	1	1	1	1	1	1	-	1	1	1	1	1	-	1	,	^	1	1	1	1	1	1
8.	JAYABALAN.M	1	1	1	1	1	1	1	/	1	1	1	1	/	1	1	1		1	1	1	,	1
9.	JENNERSON.I	1	1	1	1	1	1	1	^	1	1	1	1	/	~	1	1	1	-	_	à	K	e
10.	LEOANTONY,W	1	1	,	1	1	,	1	,	1	-	-	/	1	1	-	-	/	-	-	0-	V .	

SL.NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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11.	MAHESHWARAN.K	1	1	1	1	1	1	1	1	1	1	1	1	1	9	745	1	15	1	11		-	1
12.	MANIMARAN.K	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	/	,	,	-	,	1
13.	MOHAMEDASIK.J	1	1	1	1	1	1	1	1	1	1	7	1	,	1		1	-	1	2	<i>a</i>	0	1
14.	MOHAMED LUKMAN.K.M	1	1	1	1	1	1	1	à	0	12	a	-1	/	1	-	1	1	-	2	1	1	
15.	MOHAMED MUFASIL MUFEETH.K.M	1	1	1	1	1	1	1	a	0	a	a	0	~	0	1	1	1	1	1	,	1	1
16.	MOHAMED MUSTAQ.M.S	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	,	/	1	1
17.	MOHAMED NABIL.B	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	7
18.	MOHAMED NASURUDEEN.J	1	1	1	1	1	1	1	1	1	1	1	1	1	1		7	/	7	1	/	-	7
19.	MOHAMED RAZIK.K.A	1	1	1	1	1	1	-	1	1	7	/	-	1		,	7	7	1	1	1	1	
20.	MOHAMED THAGIR.M	1	1	1	1	1	1	1	1	1	-	1	1	/	1	1	1	1	1	1	7	7	-
21.	MOHAMED THAREEK,A	1	1	1	1	1	7	1	1	1	/	1	1	1	,	1	7	1	1	-	1	1	1
22.	MOHAMED YASEER.M	1	1	1	1	1	1	1	1	1	-	1	7	1	1	1	1	1	7	1	-	1	1
23.	MOHAMED YASIR ARABATH.M	1	7	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	1	1	1	1
24.	MUTHUMARI.E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	1
25.	NAFEES AHMED.A		1	1	1	1	1	1	1	/	1	1	1	1	1	1	1	1	1	1	1	1	1
26.	NANDHINLJ	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	/	1	1
27.	NITHYA.R	1	1	1	1	1	1	1	1.	1	1	1	1	1	1	1	/	/	/	1	1	1	1
28.	NOORUL AMEEN.M	1	1	1	7	1	1	1	1	1	1	1	1	1	1	-	1	7	/	/	-	/	1
29.	PANDIYAN.G	1	1	1	1	-	1	1	1	1	1	7	1	1	1	0	1	a	a		^		12
30.	PAVITHRA.E	1	,	1	1	-	1	1	-	,	7	7	1	,	-	U	/	/		0	0	0	0

SL.NO	STUDENT NAME	1	2	-3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	OTODIA (TIVA) III	11/6	1/12	1/12	1/2	14-	1/2	77	12/2	17/2	12/2	1/2	13/2	17/12	20/2	13/2	3/2	13/12	17/2	13/1	1/2	17/2	M
31.	PRAKASHRAJ.A	1	-	1	1	1	1	1	1	1	1	1	1	/	1	1	1	1	1	1	17	17	8
32.	PRAVEENKUMAR,S,P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	/	1	1	1
33.	PRIYANKA.S	1	1	1	1	1	/	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1	1
34.	RAGUL.V	a	0	0	a	0	12	12	12	1	1	1	1	/	1	1	1	/	1	/	1	/	1
35.	RAVICHANDRAN.B	1	1	1	/	1	/	1	1	1	1	1	1	1	1	1	7	1	1	1	7	1	1
36.	RUBLR	1	1	1	1	1	-	1	1	1	1	1	1	/	1	1	7	7	1	-/	7	1	1
37.	SALMANKHAN.S		1	1	1	/	,	1	1	1	,	1	1	/	7	1	7	1	1	7	1	1	1
38.	SAYED AASIQUE.Y	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	1	7	1	1	7	1	1
39.	SENTHIL KUMAR,P	1	1	,	1	1	1	1	1	1	1	1	7	1	1	1	7	- 5	7	1	7	1	1
40.	SHAHANA BEGAM.S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	7	7	/	1	-	7
41.	SHEIK ABDUL AZEEZ.A	1	1	1	/	1	1	1	1	1	1	1	1	1	1	1	/	1	1	1	1	1	7
42.	SHEIK ABDULLASHA.J	1	1	1	1	1	1	7	1	1	1	1	1	1	1	/	1	7	7	1	_	7	1
43.	SHEKABDULLA.S	1	1	1	1	1	1	1	/	7	1	1	1	/	7	1	1	1	1	1	1	1	/
44.	SIVA KUMAR.M	1	1	1	1	1	1	7	7	1	1	1	1	1	1	1	-	/	1	1	1	7	1
45.	SIVASANKAR.S	1	1	1	/	1	1	1	1	1	1	.,	1	/	1	1	1	1	1		1	7	1
46.	SOWNDHARYA.S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	1	1	1	1	-
47.	THUNGABDULRAHMAN.S	1	1	1	1	1	1	7	1	1	1	1	,	,	/	1	7	1	7	1	1	1	1
43.	VENKATESH.N	-	1	1	1	1	/	1	1	1	- 7	1	1	1	1	1	1	7	1	1	1	1	1
49.	VIGNESH.V- (26-02-1997)	1	1	1	1	1	1	1	1	/	1	7	/	1	7	1	1	1	1	7	1	1	1
50.	VINOTH.G	1	1	1	1	1	1	1	1	0-	11	^	1	M	0	1	-	4	1	1	-	-	×
51.	ANIFNABI. A	1,	1	1	1	1	1	1	0-	U_	U-	<i>U</i>	2-	0	7	1	1	10	•	/	-	-	

SL.NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
SULTO	STODENT NAME	Wa	No	11	jr.	17	11	0 1	wh	111	11	1)	"	11	Ma	13/	11	11	11.	4	"	17/1	des
52.	ASHIKA, S	1	12	1	1	/	1	1	1	1	1	1	1	/	1	7	1	-	-	-	1	110	1
53.	HAJAMOHAMEDIRFAN, I	1	1	1	1	1	1	1	1	-	1	1	7	/	1	1	1		-	100	-		
54.	JOSEPH PRABAKARAN, R	1	1	1	1	1	1	/	1	1	1	1	1	/	1	1	7	1	-	/	1	-	-
55.	KIRUBAANETHI, C.M	/	1	,	1	_	1	1	1	1	/	1	1	/	/	1	/	1	/	1	1		
56.	MOHAMED ASLAM, J	1	1	7	1	1	1	1	1	1	/	1	1	-	/	1	-	1	1	1	/	1	-
57.	MOHAMED MUSTAK ALI. M	1	1	1	1	,	1	/	1	_	1	/	1	1	1	7	-/	/	/		1	7	7
58.	PRAKASH. B	1	1	1	1	1	1	1	1	1	-	1	1		1	1	-	-		-			-
59.	SATHISH. M	1	1	1	1	1	1	1	/	/	-/	1	-/		/	/	-/		-		-4	-	
60.	YASAR. M	1	1	1	1	1	1	1	0	CA.	1	~			-	/		-	-	-			-

SL.NO	STUDENT NAME	23	24	25	26	27	28	29	30	31	32	33	34
	DA GOOGLA TAME	11/12	111/12	the	以介	14/12	11/12	15%	15/2	18/12	18/0	150	18/2
1.	ABIRAM SAM SEELAN.V	1	1	1	1	1	1	a	v	0	0-	a	0
2.	AJITH KUMAR.C	1	1	1	1	1	1	1	1	1	1	-	1.
3.	ALAGESAN.M	a	a	a	a	a	a	-	a	n	a	a	a
4.	AMEER SUHAIL.S	-	-	-	1		-	1	1	1	7	1	7
5.	CHARLES.P	1	1	1	1	-	1	1	1	1	/	1	1
6.	DHIVYA.B		1	1				. /	1	/	-	/	7
7.	GOVINDARAJ.B		/	1	1	_	-	1	1	1	-	1	7
8.	JAYABALAN.M	1	-	1	_	-	-	1	1	1	-	1	1
9.	JENNERSON.I		_	1	1	-	1	1	1	1	-	7	1
10.	LEOANTONY.W	/	-	/	_	-	1	1	1	-	1	-	1
11.	MAHESHWARAN,K	1	/	1	1	-	-	1	7	1	-	-/	1
12.	MANIMARAN.K	1	1	1	1	-	1	1	1	1	7	1	
13.	MOHAMEDASIK.J	-	1	/	1	/	/	1	1	1	1	7	1
14.	MOHAMED LUKMAN.K.M	1	1	1	1	1	1	1	1	1	1	1	1
15.	MOHAMED MUFASIL MUFEETH.K.M	1	1	1	1	1	1	1	1	1	1	1	1
16.	MOHAMED MUSTAQ.M.S	1	1	1	1	1	1	1	1	1	1	1	-
17.	MOHAMED NABIL.B	1	1	/	1	/	1	1	1	1	1	1	_
18.	MOHAMED NASURUDEEN.J	1	1	1	1	1	1	1	1	7	/	7	7
19.	MOHAMED RAZIK.K.A	1	1	1	1	/	1	1	1	1	/	1	
20.	MOHAMED THAGIR,M	1	1	1	1	1	1	1	1	1	1	1	1
21.	MOHAMED THAREEK.A	1	a	a	a	0	a	1	/	1	7	/	1

SL.NO	STUDENT NAME	23	24	25	26	27	28	29	30	31	32	33	34
	OTODENT NAME	11/2	111/12	14/12	14/2	14/12	19/12	15/2	WAL	15/2	18/12	18/2	15/19
22.	MOHAMED YASEER.M	1	1	1	1	1	1	-	1	1	1	1	1
23.	MOHAMED YASIR ARABATH.M	1	1	1	1	1	1	1	1	/	1	1	1
24.	MUTHUMARI.E	1/	/	1	1	1	1	1	1	/	/	1	1
25.	NAFEES AHMED.A	/	1	1,	1	1		1	-/	/	1	1	1
26.	LINIHDNAN LINIHDNAN		1	1	1	1	1	1	/	1	1	7	/
27.	NITHYA.R	/	/	1	1	1	1	1	-	1	-	-	/
28.	NOORUL AMEEN.M	1	1	1	1	1	1	1	-	/	-		-
29.	PANDIYAN.G	7	/	1	1	/	1	1		-	-	-	-
30.	PAVITHRA.E	1	1	1	1	1	1	-/	1	-	/	_	-
31.	PRAKASHRAJ.A	1	1	1	1	1	/	1		/	1	/	_
32.	PRAVEENKUMAR.S.P		1	1	1	1	/	1	-	1	/	-	_
33.	PRIYANKA.S		1	1	/	1	1	1	1	1	1	-	/
34.	RAGUL.V	/	/	1	/	1	/	1	-	-	-	-	-
35.	RAVICHANDRAN.B	/	/	/	1	/	1	1	1	1	/	/	-
36.	RUBI.R	1	/	1	1	/	1	1	1	1	1	1	-/
37.	SALMANKHAN.S	/	1	1	1	/	1	1	1	1	/	-	1
38.	SAYED AASIQUE.Y		1	/	1	1	/	1	1	1	-	1	1
39,	SENTHIL KUMAR.P		1	1	1	1	1	1	/	/	1	1	7
40.	SHAHANA BEGAM.S	1	-	1	/	/	1	1	1	-	1	1	-
41.	SHEIK ABDUL AZEEZ.A	1	1	1	1	1	7	1	/	1	/	1	1
42.	SHEIK ABDULLASHA.J	1	/	1	1	1	1	1	/				1

SL.NO	STUDENT NAME	23	24	25	26	27	28	29	30	31	32	33	34
Junto	STODENT NAME	restor	19/2	14/12	14/12	14/1	14/2	14/12	15/12	15/12	15%	15/12	15/0
43.	SHEKABDULLA.S		1	1	-	1		1	1	-	/ 1/2	7	1
44.	SIVA KUMAR.M		_	/	/	1	/	1	/	-/	-	1	1
45.	SIVASANKAR.S		1	-	-	/	1	/	1	-/	1	-	1
46.	SOWNDHARYA.S	1	1	-	/	1	-	1	1	-	-	1	1
47.	THUNGAEDULRAHMAN.S	1	1	/	/	1		/	1	-/	1	/	1
48.	VENKATESH.N		1	1	1	/	-	1	1		7	-	1
49.	VIGNESH.V (26-02-1997)		/	1	1	1	-	1	1	-	1	7	7
50.	VINOTH.G	2	a	a	a	a	a	1	/	-	1	7	-
51.	ANIFNABI. A	- /			-	-		-	1	7	-	-	-
52.	ASHIKA. S		/	1	-	. /	-	1	1	-		-	-
53.	HAJAMOHAMEDIRFAN. I		1	-		-	-	1	/	-	2	a	0
54.	JOSEPH PRABAKARAN, R		/	-	-		-	1	/	-	2	/	-
55.	KIRUBAANETHI. C.M		/		1	-	1	1	1	/	-		/
56.	MOHAMED ASLAM, J		/	-	_	-/	-	1	7	-	-	/	_
57.	MOHAMED MUSTAK ALI. M		/	1	1	-		1	7	-		7	-
58.	PRAKASH. B	/	1	/	/	/	/	1	/	1	7	1	7
59.	SATHISH. M	/	1	-	-	1	-	-	/	-/	/	/	-
60.	YASAR, M		/	/	-	/		/	-	/	-	1	

Course Coordinator

HODZEFF

Principal

PRINCIPAL
MILET. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLIFEEE 997:



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
TRICHY - PUDUKKOTTAL ROAD, TIRUCHIRAPPALLI - 620 007.
Email: principalangg@miet.edu, contact@miet.edu
Website: - www.miet.edu
Ph: 0431 -

Ph: 0431 - 2660 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Certificate Program Assessment Test

Name of the course: Power Electronics Using MATLAB

Date: 19.12.18

Course Code: EE17183

Time: 01:30 hrs

Academic Year: 2017-2018

Answer All the Questions (2*25=50)

1.a. Design and simulate the closed loop boost converter using PWM technique.

(Or)

1.b. Simulate the closed loop single phase full bridge inverter with R load.

Course Coordinator

HoD/EEE

Principal



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 - 2660 303

One Page Report

Name of the course: Power Electronics Using MATLAB

Course Code: EE17183

Course Coordinator: Mr.D.Tamilselvan., AP/EEE

Total Hours: 34

Academic Year: 2017-2018

I hereby affirm that the entire course contents in the certificate program "Power Electronics Using MATLAB" listed in the value added course syllabus have been performed by the students as the part of the prescribed co – curricular activities through add on course by NAAC and NBA.

I confirmed that the certificate program title as "Power Electronics Using MATLAB" was done by me in the beginning of the semester and course delivery with attendance of the students were recorded.

I confirmed that all the students for this certificate program were actively attended and performed well throughout the duration and eligible students received the participation certificate.

Course Coordinator

HoD/EEE

Principal

	W.I.E.T. ENGINEERING COLLEGE Trichy, Pudukkottal Road, Trichy - 620 007.	
0	Course Completion Certificate NSTITUTIONS Since 1981	6
	This is to Certify that Mr/Ms. P. CHARLES	
	of Third Year EEE has Completed the Course on	
	Power Electronics Using MATHERTON 11.12.17 to 15.12.17	
	Course Coordinator	
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M.L.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPPALLI-628 807.

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This is to Certify that Mr/Ms. T. NANDMINI of Third Year EEE has Completed the Course	00
Power Electronics Using MATLAB from 11.12.17 to 15.12.17	E.
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Course Coordinator	

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Since 1984	ALL ALL	2.03.00.	Ya	***	
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., of Third ye	ar BEE	has Comp	leted the Co	ourse on	5
Power Electron	ics Using MATLAB	from <u>11.12</u>	17 to 15	12.17	
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