



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Affiliated to JNTUK, Kakinada)

A NAAC Accredited Institute

An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle – 531002, Visakhapatnam, A.P.

Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in

CIRCULAR

Anakapalle

Dt: 10-1-2020

Department of Electrical & Electronics Engineering is hereby informed that, in view of the feedback received from III & IV B.Tech. EEE students regarding skill enhancement and to improve the expertise of students to DESIGN OF POWER CONVERTERS USING SOFTWARE TOOLS, HOD is advised to depute a faculty from EEE to design the empirical formula for determining the system voltage and develop a suitable course structure in line with basic concepts of power utilization to III & IV B.Tech. EEE students with over 30 working hours. Please ensure that this Add-on course helps them to understand the power circuits. Make arrangements to deliver the course from next week onwards.

Dadi Institute of Engineering & Technology, Anakapalle

Dadi Institute of Engineering & Technology

Approved by AICTE & Permanently Affiliated to JNTUK



NAAC Accredited Institute

Visakhapatnam, Andhra Pradesh

A Five Day Training Program on

DESIGN OF POWER CONVERTERS USING SOFTWARE TOOLS

About the Institute

Dadi Institute of Engineering & Technology is a top ranked Engineering and Management College affiliated to Jawaharlal Nehru Technological University, Kakinada. The Institute is NAAC Accredited, ISO Certified and also associated with many professional bodies in the field of Engineering, Technology and Management. It strives to promote the highest standards among the students and enable them to build a New World.

Dadi Institute of Engineering & Technology is distinctive among institutions of higher learning.

Founded in 2006 by Sri Dadi Veerabhadra Rao, an academician and former Minister as the first multicultural and co-educational college in Anakapalle which admits only academically promising students.

Course Instructor

Mr. T Ramesh Babu,
Asst. Prof., EEE Department

About the Course

Students will be able to learn the power utilization which includes a device that consumes energy constituting the current, such as a battery or a generator; devices that use current, such as lamps, electric motors, or computers. It is useful to learn and follow the rules to save the energy.

Benefitted Students

III & IV B.Tech. EEE

Date: 21/1/2020 to 25/1/2020

Venue: Lab-5 (II-Floor)

Department of Electrical & Electronics Engineering

DESIGN OF POWER CONVERTERS USING SOFTWARE TOOLS

Course Instructor:

Mr. T Ramesh Babu,

Asst. Prof., EEE

Dadi Institute of Engineering & Technology

Duration:

5 Days: 21/1/2020– 25/1/2020

Overview & Need for the Course:

Students will be able to learn the power circuits which includes a device that gives energy to the charged particles constituting the current, such as a battery or a generator; devices that use current, such as lamps, electric motors, or computers; and the connecting wires or transmission lines.

Course Objectives:

- To Design the empirical formula for determining the system voltage
- Supply system based on the conductor material required for overhead lines and underground cables
- Need to transmission lines and distribution lines
- Types of transmission line conductors

Course Outcomes:

- To Learn the fundamental of MATLAB & PSPICE Tools
- To generate various waveforms signals and sequences
- To verify and simulate various transmission lines and distribution lines
- To verify and simulate various theorems
- To determine system voltage.

Requirements

- ❖ Basic Knowledge of Electrical system
- ❖ Basic Knowledge of circuit Theory
- ❖ Basic computer knowledge.

Course Contents

- Chap1. Generation of various signals and sequences, such as unit Impulse, Step, etc.
- Chap2. Operations on signals and sequences such as Addition Multiplication,
- Chap3. Verification of Kirchhoff's current law and Voltage law using simulation tools.
- Chap4. Determination of electrical parameters
1. Form factor,
 2. Peak factor
- Chap5. Transmission Lines
1. Need of Transmission and distribution lines
 2. Effects of supply frequency and voltage on transmission line

Student Attendance Sheet - Design of Power Converters Addon Course [2019-20]

Sl No	Roll No	Name of the Student	21/01/2020	22/01/2020	23/01/2020	24/01/2020	25/01/2020
1	16U41A0201	DUVVADA SAGAR KUMAR	D.Sagar	D.Sagar	D.Sagar	D.Sagar	D.Sagar
2	16U41A0202	KARRI ASHWIN KUMAR	K.A.Kumar	K.A.Kumar	K.A.Kumar	K.A.Kumar	K.A.Kumar
3	16U41A0203	KARRI SIVA	K.Siva	K.Siva	K.Siva	K.Siva	K.Siva
4	16U41A0204	SINGAMPALLI JANARDHAN	S.Janabhu	S.Janabhu	S.Janabhu	S.Janabhu	S.Janabhu
5	16U41A0205	POLA NAGABHUSHANAM	P.Nagabhu	P.Nagabhu	P.Nagabhu	P.Nagabhu	P.Nagabhu
6	16U41A0206	VEGI MOUNIKA	V.Mounika	V.Mounika	V.Mounika	V.Mounika	V.Mounika
7	16U41A0207	PULAPAKURA CHANDRA MOULI	P.Mouli	P.Mouli	P.Mouli	P.Mouli	P.Mouli
8	16U41A0208	RUDRARAJU DINESH VARMA	R.Varma	R.Varma	AB	R.Varma	R.Varma
9	16U41A0209	SAGORI SURENDRA BABU	S.S.Babu	S.S.Babu	S.S.Babu	S.S.Babu	S.S.Babu
10	16U41A0210	SALADI CHARAN	S.Charan	S.Charan	S.Charan	S.Charan	S.Charan
11	17U45A0201	ACHANTA SAI	A.Sai	A.Sai	A.Sai	A.Sai	A.Sai
12	17U45A0202	ADARI VENKATA AJAY	A.Ajay	A.Ajay	A.Ajay	A.Ajay	A.Ajay
13	17U45A0203	BHESETTY PAVANKUMAR	B.Kumar	B.Kumar	B.Kumar	B.Kumar	B.Kumar
14	17U45A0204	BODDEDA LOKESH	B.Lokesh	B.Lokesh	B.Lokesh	B.Lokesh	B.Lokesh
15	17U45A0205	BODDEDA SIVA.SAI	B.Siva	B.Siva	B.Siva	B.Siva	B.Siva
16	17U45A0206	CHANDHAKA SAI KUMAR	C.Sai	C.Sai	C.Sai	C.Sai	C.Sai
17	17U45A0207	DADI ATCHUTHA	D.Atchutha	D.Atchutha	D.Atchutha	D.Atchutha	D.Atchutha
18	17U45A0208	DALLI MANIKANTA DURGA DEVENDRA PRASAD	D.Durga	D.Durga	D.Durga	D.Durga	D.Durga
19	17U45A0209	GANGIREDLA MANIKANTA	G.Manika	G.Manika	G.Manika	G.Manika	G.Manika
20	17U45A0210	GANNU NARESH	G.Narash	G.Narash	G.Narash	G.Narash	G.Narash
21	17U45A0211	GANUGULA SIVA	G.Siva	G.Siva	G.Siva	G.Siva	G.Siva
22	17U45A0212	GAVARA REVATHI	G.Revathi	G.Revathi	G.Revathi	G.Revathi	G.Revathi
23	17U45A0213	GOLLAVILLI SWATHI	G.Swathi	AB	G.Swathi	G.Swathi	G.Swathi
24	17U45A0214	JERRIPOTHULU GIRIKUMAR	J.Kumar	J.Kumar	J.Kumar	J.Kumar	J.Kumar
25	17U45A0215	KANDELLI SOWJANYA	K.Sowjanya	K.Sowjanya	K.Sowjanya	K.Sowjanya	K.Sowjanya
26	17U45A0216	KANDIPILLI LAVANYA	K.Lavanya	K.Lavanya	K.Lavanya	K.Lavanya	K.Lavanya
27	17U45A0217	KANDREGULA HARI RAMA KRISHNA	K.Ramash	K.Ramash	K.Ramash	K.Ramash	K.Ramash
28	17U45A0218	KOILADA KAVYA	K.Kavya	K.Kavya	K.Kavya	K.Kavya	K.Kavya
29	17U45A0219	KOILADA PRASAD	K.Prasad	K.Prasad	K.Prasad	K.Prasad	K.Prasad
30	17U45A0220	KOLLU GANGARAM	K.Gangaram	K.Gangaram	K.Gangaram	K.Gangaram	K.Gangaram
31	17U45A0221	KOPPOJU SAI KUMAR	K.Sai	K.Sai	K.Sai	K.Sai	K.Sai
32	17U45A0222	KOTHAKOTA KIRAN	K.Kiran	K.Kiran	K.Kiran	K.Kiran	K.Kiran
33	17U45A0223	KOTTAPALLI LAITHA	K.Laili	K.Laili	K.Laili	K.Laili	K.Laili
34	17U45A0224	KUNDALA DURGARAO	K.Durgarao	K.Durgarao	K.Durgarao	K.Durgarao	K.Durgarao
35	17U45A0225	MAJI ROOPA	M.Roopa	M.Roopa	M.Roopa	M.Roopa	M.Roopa
36	17U45A0226	MALLA JOSHI	M.Joshi	M.Joshi	M.Joshi	M.Joshi	M.Joshi
37	17U45A0227	MALLA VARAPRASAD	M.Varasad	M.Varasad	M.Varasad	M.Varasad	M.Varasad
38	17U45A0228	MATHURTHI SIVAJEE	M.Sivajee	M.Sivajee	AB	M.Sivajee	M.Sivajee
39	17U45A0229	MINDI MAHESH	M.Mahesh	M.Mahesh	M.Mahesh	M.Mahesh	M.Mahesh
40	17U45A0230	MOPADA NANAJI	M.Nanaji	M.Nanaji	M.Nanaji	M.Nanaji	M.Nanaji
41	17U45A0231	NANDARAPU ANANTH KUMAR	N.Kumar	N.Kumar	N.Kumar	N.Kumar	N.Kumar
42	17U45A0232	OMMI MANESWARA RAO	O.Rao	O.Rao	O.Rao	O.Rao	O.Rao
43	17U45A0233	PAKKURTI VINAY	V.Vinay	V.Vinay	V.Vinay	V.Vinay	V.Vinay
44	17U45A0234	PAMPANA PRAVALLIKA	P.Pravallika	P.Pravallika	P.Pravallika	P.Pravallika	P.Pravallika
45	17U45A0235	PEDIREDLA VENKATA TARAKA SWAROOP	P.Swaroop	P.Swaroop	P.Swaroop	P.Swaroop	P.Swaroop
46	17U45A0236	PENTABOINA SUDHARSHAN	P.Sudharshan	P.Sudharshan	P.Sudharshan	P.Sudharshan	P.Sudharshan
47	17U45A0237	PITTA KISHORE	P.Kishore	P.Kishore	P.Kishore	P.Kishore	P.Kishore
48	17U45A0238	POLASAPALLI SAMUEL JACK FELEX	P.Seek	P.Seek	P.Seek	P.Seek	P.Seek

		P. Sriharish	P. Sriharish	P. Sriharish	P. Sriharish	P. Sriharish
49	17U45A0239	PUREDLA SRIHARIBABU	P. Sriharish	P. Sriharish	P. Sriharish	P. Sriharish
50	17U45A0240	RALLAPATI GANESWARA RAO	R. Rao	R. Rao	R. Rao	R. Rao
51	17U45A0241	SARAGADAM SURESH	S. Suresh	S. Suresh	S. Suresh	S. Suresh
52	17U45A0242	SENAPATHI GANESH	S. Ganesh	S. Ganesh	S. Ganesh	S. Ganesh
53	17U45A0243	SHAIK SHARIF	S. Sharif	S. Sharif	S. Sharif	S. Sharif
54	17U45A0244	SORNAPUDI HARSHA	S. Harsha	S. Harsha	S. Harsha	S. Harsha
55	17U45A0245	SRIKAKULAM MAHESH	S. Mahesh	S. Mahesh	AB	S. Mahesh
56	17U45A0246	SURISSETTY LAVANYA	S. Lavanya	S. Lavanya	S. Lavanya	S. Lavanya
57	17U45A0247	VANGALA JAYARAM	V. Jayaram	V. Jayaram	V. Jayaram	V. Jayaram
58	17U45A0248	VEGI VENKATA SATYA SAI HARI HARAN	V. Hari	V. Hari	V. Hari	V. Hari
59	17U45A0249	YENNETI MEENA	Y. Meena	Y. Meena	Y. Meena	Y. Meena
60	17U45A0250	KANDREGULA KISHORE	K. Kishore	K. Kishore	K. Kishore	K. Kishore
61	17U45A0251	NANDARAPU NAIDU	N. Naidu	N. Naidu	N. Naidu	N. Naidu
62	17U45A0252	JOGI LAXMAN SAI KIRAN	J. Sai	J. Sai	J. Sai	J. Sai
63	17U45A0253	AYTHI AVINASH YADAV	A. Yadav	A. Yadav	A. Yadav	A. Yadav
64	17U45A0254	PADALA GANGADHAR	P. Gangadhar	P. Gangadhar	P. Gangadhar	P. Gangadhar
65	17U45A0255	PUVVULAROUTHU RAVI TEJA	P. Ravi	P. Ravi	P. Ravi	P. Ravi
66	17U45A0256	KANDREGULA VENKATESH	K. Venkatesh	AB	K. Venkatesh	K. Venkatesh
67	17U45A0257	BHESETTI RAMA KRISHNA MAHESH	B. Mahesh	B. Mahesh	B. Mahesh	B. Mahesh
68	17U45A0258	REDDI RAMYA	R. Ramya	R. Ramya	R. Ramya	R. Ramya
69	17U45A0259	RONGALI GANGADHAR	R. Gangadhar	R. Gangadhar	R. Gangadhar	R. Gangadhar
70	17U45A0260	VANAM VINAY	V. Vinay	V. Vinay	V. Vinay	V. Vinay
71	17U45A0261	VELUGULA MANIKANTA	V. Manika	V. Manika	V. Manika	V. Manika
72	17U45A0262	KANDREGULA SAMPATH KUMAR	K. Kumar	K. Kumar	K. Kumar	K. Kumar
73	18U45A0201	ADADA JYOSHNA	A. Jyoshna	A. Jyoshna	A. Jyoshna	A. Jyoshna
74	18U45A0202	ARLE PAVAN KALYAN	A. Pavan	A. Pavan	A. Pavan	A. Pavan
75	18U45A0203	BADAMPUDI RADHA	B. Radha	B. Radha	B. Radha	B. Radha
76	18U45A0204	BOTTU SUNEETHA	B. Sunetha	B. Sunetha	B. Sunetha	B. Sunetha
77	18U45A0205	CHADARAM DURGA VENKATESH	C. Durga	C. Durga	C. Durga	C. Durga
78	18U45A0206	CHESETTY YAMINI PRASANNA DALISHA	C. Dalisha	C. Dalisha	C. Dalisha	C. Dalisha
79	18U45A0207	DADI SAI SREENU	D. Sai	D. Sai	D. Sai	D. Sai
80	18U45A0208	DODDI MANOJ	D. Manoj	AB	D. Manoj	D. Manoj
81	18U45A0209	DASARI MANOJ KUMAR	D. Kumar	D. Kumar	D. Kumar	D. Kumar
82	18U45A0210	DEVADULA ESWARA SARASWATHI	D. Eswara	D. Eswara	D. Eswara	D. Eswara
83	18U45A0211	EROTHI PURNIMA PRIYANKA	E. Purnima	E. Purnima	E. Purnima	E. Purnima
84	18U45A0212	ESAMPALLI TARUN KUMAR	E. Kumar	E. Kumar	E. Kumar	E. Kumar
85	18U45A0213	GOLLAOPUDI MANIKANTA	G. Mani	G. Mani	G. Mani	G. Mani
86	18U45A0214	KOCHERLAKOTA SAI MANI KRISHNA	K. Sai	K. Sai	K. Sai	K. Sai
87	18U45A0215	MALLA CHARAN TEJA	M. Teja	M. Teja	M. Teja	M. Teja
88	18U45A0216	MATHURTHI VENKATESH	M. Venkatesh	M. Venkatesh	M. Venkatesh	M. Venkatesh
89	18U45A0217	MEDISETTI KUMAR RAJA	M. Raju	M. Raju	M. Raju	M. Raju
90	18U45A0218	NAKKINA DHANA SAI	N. Sai	AB	N. Sai	N. Sai
91	18U45A0219	PADALA MURALI SHANKAR	P. Murali	P. Murali	P. Murali	P. Murali
92	18U45A0220	PERURI CHANDANA	P. Chandan	P. Chandan	P. Chandan	P. Chandan
93	18U45A0221	POLMARASETTY DURGA MAHA LAKSHMI	P. Lakshmi	P. Lakshmi	P. Lakshmi	P. Lakshmi
94	18U45A0222	PORIREDDY SRINU	P. Srinu	P. Srinu	P. Srinu	P. Srinu
95	18U45A0223	PUDI NAVEEN KUMAR	P. Naveen	P. Naveen	P. Naveen	P. Naveen
96	18U45A0224	RONGALI APPALARAJU	R. Appala	R. Appala	R. Appala	R. Appala
97	18U45A0225	SAMUDALA MAHESH	S. Mahesh	S. Mahesh	S. Mahesh	S. Mahesh
98	18U45A0226	SUNKARI SURESH	S. Suresh	S. Suresh	S. Suresh	S. Suresh





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COURSE COMPLETION CERTIFICATE

This Certificate is given to

DADI SAI SREENU



For the successful completion of 5-days course on Design of power converter
using software tools from 21/01/2020 – 25/01/2020

Mr. T. Ramesh Babu
Course Instructor

Dr. Ch. Naga Prasad
Principal

Mr. Dadi Ratnakar
Chairman





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Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in

COURSE COMPLETION CERTIFICATE

This Certificate is given to

DODDI MANOJ



For the successful completion of 5-days course on Design of power converter
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Mr. T. Ramesh Babu
Course Instructor

Dr. Ch. Naga Prasad
Principal

Mr. Dadi Ratnakar
Chairman





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COURSE COMPLETION CERTIFICATE

This Certificate is given to

MAILLA CHARAN TEJA



For the successful completion of 5-days course on Design of power converter
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Mr. T. Ramesh Babu
Course Instructor

Dr. Ch. Naga Prasad
Principal

Mr. Dadi Ratnakar
Chairman



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COURSE COMPLETION CERTIFICATE

This Certificate is given to

PERURI CHANDANA



For the successful completion of 5-days course on Design of power converter
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Mr. T. Ramesh Babu
Course Instructor

Dr. Ch. Naga Prasad
Principal

Mr. Dadi Ratnakar
Chairman



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Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in

COURSE COMPLETION CERTIFICATE

This Certificate is given to

SOPEETI AKHIL



For the successful completion of 5-days course on Design of power converter
using software tools from 21/01/2020 – 25/01/2020

Mr. T. Ramesh Babu
Course Instructor

Dr. Ch. Naga Prasad
Principal

Mr. Dadi Ratnakar
Chairman



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NAAC Accredited Institute and Inclusion under Section 2(f) & 12 (B) of UGC Act
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute

STUDENT FEEDBACK FORM

Dear Candidate,

Your feedback is critical for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so that we can serve you better.

Title of the Activity: Design of power converter using software Tools

Date Duration: 5D 21/1/20 - 25/1/20 Instructor/Coordinator: T. Ramesh Babu

- | | | | | | |
|---|---|---|---|---|---|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | ④ | 5 |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | ⑤ |
| 3. I will recommend this course/workshop program to relevant coordinators across our campus | 1 | 2 | ③ | 4 | 5 |
| 4. The program was well placed within allotted time | 1 | 2 | ③ | 4 | 5 |
| 5. The instructor was an effective communicator | 1 | 2 | 3 | 4 | ⑤ |

Feedback Suggestions

Learned
New things
in this session

Please return this form to the Course Instructor/Organizer/Coordinator at the end of the workshop/add-on course/Training Program



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Title of the Activity: Design of power converter using software tools

Date Duration: 5D 21/1/20 - 25/1/20 Instructor/Coordinator: T. Ramesh Babu

- | | | | | | |
|---|---|---|---|---|---|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | ④ | 5 |
| 2. The program was helpful in practical understanding | 1 | 2 | ③ | 4 | 5 |
| 3. I will recommend this course/workshop program to relevant coordinators across our campus | 1 | 2 | 3 | 4 | ⑤ |
| 4. The program was well placed within allotted time | 1 | 2 | 3 | ④ | 5 |
| 5. The instructor was an effective communicator | 1 | 2 | 3 | ② | 5 |

Feedback Suggestions

Good course
to learn
in non-a-days.

Please return this form to the Course Instructor/Organizer/Coordinator at the end of the workshop/add-on course/Training Program