

**KANDULA SRINIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING
(AUTONOMOUS)**

KADAPA-516003. AP

(Approved by AICTE, Affiliated to JNTUA, Ananthapuramu, Accredited by NAAC)

(An ISO 9001-2008 Certified Institution)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATION COURSE

ON

“PCB DESIGN”

Resource Person :Dr. T. MARIPRASATH, Associate Professor, Dept. of EEE,KSRMCE.

Course Coordinator: Mr. G. HUSSIAN BASHA, Assistant Professor, Dept. of EEE,KSRMCE.

Duration: 13/08/2019 to 30/08/2019.



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Kadapa, Andhra Pradesh, India – 516 005

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Department of Electrical and Electronics Engineering

Lr. / KSRMCE / EEE / 2019-2020 /

Date: 06.08.2019

To
The Principal,
K.S.R.M.College of Engineering (A), Kadapa.

//THROUGH PROPER CHANNEL//

**Sub: KSRMCE – (EEE) – Permission for Conducting a Certification Course on “PCB Design” for
B.Tech V Semester Students – Request for Permission – Reg.**

Respected Sir,

It is being brought to your notice that, I G. Hussain Basha, Assistant Professor from Department of EEE is organizing a Certification Course on “**PCB Design**” for B.Tech V Semester students, from 13/8/2019 to 30/8/2019. In this regard, I request you to kindly permit me to organize the above-mentioned certification course, for which kind of act I would be grateful to you sir.

The Resource persons of the workshop:

1. Dr.T. Mariprasath, Associate Professor in EEE, KSRMCE (A).

Thanking you Sir,

Yours Faithfully

(G. Hussain Basha)
(Assistant Professor/EEE)

Forwarded to
Principal Sir,

G. Hussain Basha
06/08/2019

Permitted
U.S.S. Murthy



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Department of Electrical and Electronics Engineering

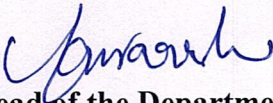
Cr./KSRMCE/(Department of E.E.E)/2019-2020/

Date: 10.08.2021

Circular

It is hereby informed that the department of Electrical and Electronics Engineering is organizing a Certification Course on “**PCB Design**“ for B.Tech V Semester students, from 13/8/2019 to 30/8/2019. The resource person is Dr.T. Mariprasath, Associate Professor in EEE., KSRMCE.. In this Context, I request the students to register their names with the concerned coordinator on or before 12.08.2019. The details of the Workshop are as follows:

| | |
|----------------------------|---|
| Name of the Event | Certification Course |
| Name of the Course | PCB Design |
| Date(s) | 13/8/2019 to 30/8/2019 |
| Resource persons | Dr.T. Mariprasath, Associate Professor in EEE., KSRMCE. |
| Venue | KSRMCE-CRI |
| Faculty Coordinator | G. Hussain Basha, Assistant Professor in EEE, KSRMCE |


Head of the Department
Department of Electrical & Electronics Engineering
K.S.R.M. College of Engineering
Cuddapah - 516 003



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Department of Electrical and Electronics Engineering

List of Registered Participants

| | |
|---|---|
| Name of the Event | Certification Course |
| Name of the certification course | PCB Design |
| Date(s) of the Course | 13/8/2019 to 30/8/2019 |
| Resource persons | Dr.T. Mariprasath, Associate Professor in EEE, |
| Venue | KSRMCE-CRI |
| Faculty Coordinator | Mr.G. Hussain Basha, Assistant Professor in EEE |

| S.No | Roll Number | Name Of The Student | Signature |
|------|-------------|----------------------------------|---------------------|
| 1 | 179Y1A0201 | Akula Venkata Aravind | A. Aravind |
| 2 | 179Y1A0202 | Akula Venkata Sunil | A. Sunil |
| 3 | 179Y1A0203 | Ankireddipalli Vivekanandareddy | A. Vivekanandareddy |
| 4 | 179Y1A0204 | Banda Sivaraj | B. Sivaraj |
| 5 | 179Y1A0206 | Bhumireddy Chandrakala (W) | B. Chandrakala |
| 6 | 179Y1A0207 | Duggisetty Jagapathi Babu | D. Jagapathi Babu |
| 7 | 179Y1A0208 | Gaddam Anil Kumar | G. Anil Kumar |
| 8 | 179Y1A0209 | Gajjalakondugari Renuka Devi (W) | G. Renuka Devi |
| 9 | 179Y1A0210 | Gorantla Sasidhar | G. Sasidhar |
| 10 | 179Y1A0211 | Krishnam Snehalatha (W) | K. Snehalatha |
| 11 | 179Y1A0212 | Kuruba Lakshminanth | K. Lakshminanth |
| 12 | 179Y1A0214 | Manchala Sowmya (W) | M. Sowmya |





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| | | | |
|----|------------|--------------------------------|--------------------|
| 13 | 179Y1A0221 | Rayapu Vennela (W) | Vennela |
| 14 | 179Y1A0222 | Sannapuri Venkatesh | Venkatesh |
| 15 | 179Y1A0223 | Shaik Abdul Farooq | S. Abdul Farooq |
| 16 | 179Y1A0224 | Shaik Misba Sania (W) | M. Sania |
| 17 | 179Y1A0225 | Sucharitha Panyam (W) | Panyam sucharitha |
| 18 | 179Y1A0226 | Syed Azaruddin | S. Azaruddin |
| 19 | 179Y1A0227 | Syed Hafeez Parvez | S. Parvez |
| 20 | 179Y1A0228 | Syed Shazia Tabassum (W) | Syed Tabassum. |
| 21 | 179Y1A0230 | Yarranagu Rajesh Reddy | Rajesh Reddy |
| 22 | 189Y5A0201 | Athinjeri Rajesh | Rajesh. |
| 23 | 189Y5A0202 | Bijivemula Sudarshan Reddy | B. Sudarshan Reddy |
| 24 | 189Y5A0203 | Billipati Pavan Kumar | B. Pavan Kumar |
| 25 | 189Y5A0204 | Bollineni Prasanna Lakshmi (W) | Prasanna Lakshmi |
| 26 | 189Y5A0205 | Chabuk Sawar Mohammed Subhan | Ch. Md. Subhan. |
| 27 | 189Y5A0206 | Chundu Nirankumar | Nirankumar |
| 28 | 189Y5A0207 | Dara Praveen | Praveen |
| 29 | 189Y5A0208 | Dasari Kishor Kumar | Kishor Kumar |
| 30 | 189Y5A0209 | Dasari Pavan Kalyan | Pavan Kalyan |
| 31 | 189Y5A0210 | Dwarsala Veera Madhavi (W) | Veera Madhavi |
| 32 | 189Y5A0212 | Gundlamadugu Reddy Krishna | Reddy Krishna |
| 33 | 189Y5A0213 | Jada Naveen Kumar | Naveen Kumar |
| 34 | 189Y5A0216 | Kambham Pavan Kumar Reddy | Kumar Reddy |





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| | | | |
|----|------------|-------------------------------|--------------------------|
| 35 | 189Y5A0217 | Kapa Omkar Reddy | Omkar Reddy |
| 36 | 189Y5A0218 | Karapureddy Manoj Kumar Reddy | Manoj Kumar |
| 37 | 189Y5A0219 | Koduru Kumar | K. Kumar |
| 38 | 189Y5A0220 | Konangi Chandu | K. Chandu |
| 39 | 189Y5A0221 | Kothapalli Somanju | K. Somanju |
| 40 | 189Y5A0222 | Kumarakalva Balaji | K. Balaji |
| 41 | 189Y5A0223 | Kummara Vishnu | K. Vishnu |
| 42 | 189Y5A0224 | Kundala Sivasai | K. Sivasai |
| 43 | 189Y5A0227 | Kusam Chandra Prakash Reddy | K. Chandra Prakash Reddy |
| 44 | 189Y5A0228 | Lakkireddy Madhu Sai | L. Madhu Sai |
| 45 | 189Y5A0229 | Lavanur Revanth Reddy | L. Revanth |
| 46 | 189Y5A0230 | Lingireddy Sai Harshini (W) | Sai Harshini |
| 47 | 189Y5A0231 | Moghal Aslam Baig | M. Aslam Baig |
| 48 | 189Y5A0232 | Moola Pradeep Kumar Reddy | M. Pradeep Kumar |
| 49 | 189Y5A0233 | Mule Siva Jyothsna (W) | M. Siva Jyothsna |
| 50 | 189Y5A0234 | Neelam Pavan Kumar Reddy | N. Pavan |
| 51 | 189Y5A0235 | Palla Ravivarma | P. Ravivarma |
| 52 | 189Y5A0236 | Palla Reddaiah | P. Reddaiah |
| 53 | 189Y5A0237 | Palleti Prasanna Kumar | P. Prasanna |
| 54 | 189Y5A0238 | Pathakota Santhosh Reddy | P. Santhosh Reddy |
| 55 | 189Y5A0239 | Pattam Sravani (W) | P. Sravani |
| 56 | 189Y5A0240 | Pullagura Prabhu Teja | P. Prabhu Teja |
| 57 | 189Y5A0241 | Pullirupu Sathish Kumar | P. Sathish Kumar |





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| | | | |
|----|------------|-----------------------------|------------------|
| 58 | 189Y5A0242 | Rajoli Karthik Reddy | R. Karthik Reddy |
| 59 | 189Y5A0243 | Ramireddy Pavan Kumar Reddy | P. Pavan Reddy |
| 60 | 189Y5A0244 | Repalle Anok | P. Anok |

C. H. Basraf
Coordinator

J. Anwar
Head of the Department

HEAD
Department of Electrical &
Electronics Engineering
K.S.R.M. College of Engineering
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Department of Electrical and Electronics Engineering

Certification Course on “PCB Design”

Module – 1: Printed circuit Board Design: Study of Packages of Electronic Components. History of Printed Circuit Boards. Various types of Printed Circuit Boards
- Single Sided Boards, Double Sided Plated through Hole Boards, multilayer Boards..

Module – 2: Printed Circuit Board Design Methods: Rules for single and Double Sided Board. Schematic diagram Entry in PCB Design tool/S/W. Layout Design, Routing methods. Guideline for Artwork Generation. Generation of various Manufacturing Documents/ Output file generation. Component Library management in PCB Design tool.

Module – 3: Printed Circuit Board Manufacturing Methods: Method of Screen Printing for pattern transfer. Method of Wet film and Dry film for single and Double Sided Board Manufacturing. Method of Solder-mask and Legend Printings. Plating and Etching Techniques. Mechanical methods required in manufacturing of PCBs like punching, drilling ,milling and routing.


Coordinator(s)


Head of the Department

HEAD
Department of Electrical &
Electronics Engineering
K.S.R.M. College of Engineering
Kadapa -516003.



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Department of Electrical and Electronics Engineering Attendance Sheet

| Roll Number | 13.8 | 14.8 | 15.8 | 16.8 | 17.8 | 19.8 | 20.8 | 21.8 | 22.8 | 23.8 | 24.8 | 26.8 | 27.8 | 28.8 | 29.8 | 30.8 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 179Y1A0201 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | A | P |
| 179Y1A0202 | P | P | P | P | P | A | P | P | P | P | P | P | P | P | P | P |
| 179Y1A0203 | P | P | P | P | P | P | P | P | P | A | P | P | P | P | P | P |
| 179Y1A0204 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 179Y1A0206 | P | A | P | P | P | P | P | P | P | P | P | A | P | P | P | P |
| 179Y1A0207 | P | P | P | P | P | P | P | P | P | A | P | P | P | P | P | P |
| 179Y1A0208 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 179Y1A0209 | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 179Y1A0210 | P | P | P | P | P | P | P | P | P | P | P | P | A | P | P | P |
| 179Y1A0211 | P | P | P | P | P | P | P | P | A | P | P | P | P | P | P | P |
| 179Y1A0212 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | A | P |
| 179Y1A0214 | P | P | P | P | P | P | A | P | P | P | P | P | P | P | P | P |



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|----|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 179Y1A0221 | P | P | P | P | P | P | P | P | P | P | P | A | P | P | P | P |
| 14 | 179Y1A0222 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 15 | 179Y1A0223 | P | P | P | P | P | P | P | P | A | P | P | P | P | P | P | P |
| 16 | 179Y1A0224 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | A |
| 17 | 179Y1A0225 | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 18 | 179Y1A0226 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 15 | 179Y1A0227 | P | P | P | P | P | P | P | P | P | P | P | A | P | P | P | P |
| 20 | 179Y1A0228 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 21 | 179Y1A0230 | P | P | P | P | P | P | P | A | P | P | P | P | P | P | P | P |
| 22 | 189Y5A0201 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 23 | 189Y5A0202 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | A |
| 24 | 189Y5A0203 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 25 | 189Y5A0204 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 26 | 189Y5A0205 | P | P | P | P | P | A | P | P | P | P | P | P | P | P | P | P |
| 27 | 189Y5A0206 | P | A | P | P | P | P | P | P | P | P | P | P | A | P | P | P |
| 28 | 189Y5A0207 | P | P | P | P | P | P | A | P | P | P | P | P | P | P | P | P |
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| Roll Number | 13.8 | 14.8 | 15.8 | 16.8 | 17.8 | 19.8 | 20.8 | 21.8 | 22.8 | 23.8 | 24.8 | 26.8 | 27.8 | 28.8 | 29.8 | 30.8 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 189Y5A0208 | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 189Y5A0209 | P | P | P | P | P | P | P | P | P | P | A | P | P | P | P | P |
| 189Y5A0210 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | A |
| 189Y5A0212 | P | P | P | P | P | A | P | P | P | P | P | P | P | P | P | P |
| 189Y5A0213 | P | A | P | P | P | P | P | P | P | P | P | P | P | P | A | P |
| 189Y5A0216 | P | P | P | P | P | P | P | P | A | P | P | P | P | P | P | P |
| 189Y5A0217 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 189Y5A0218 | P | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P |
| 189Y5A0219 | P | P | P | P | P | P | P | P | P | A | P | P | P | P | P | P |
| 189Y5A0220 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 189Y5A0221 | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 189Y5A0222 | P | P | P | P | P | P | P | P | P | P | P | A | P | P | P | P |
| 189Y5A0223 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 189Y5A0224 | P | P | P | P | P | P | A | P | P | A | P | P | P | P | P | P |
| 189Y5A0227 | P | P | P | P | P | P | P | P | P | P | P | P | P | A | P | P |
| 189Y5A0228 | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 189Y5A0229 | P | A | P | P | P | P | P | P | P | P | P | A | P | P | P | P |



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|----|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 46 | 189Y5A0230 | P | P | A | P | P | P | P | P | P | P | P | A | P | P | P | P |
| 48 | 189Y5A0231 | P | P | P | P | A | P | P | P | P | A | P | P | P | P | P | P |
| 48 | 189Y5A0232 | P | P | P | P | P | P | P | P | P | P | P | P | P | A | P | P |
| 45 | 189Y5A0233 | P | P | P | P | P | P | P | P | A | P | P | P | P | P | P | P |
| 50 | 189Y5A0234 | P | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P |
| 57 | 189Y5A0235 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 52 | 189Y5A0236 | P | P | P | P | P | A | P | P | P | P | P | P | P | P | P | P |
| 55 | 189Y5A0237 | P | A | P | P | P | A | P | P | P | P | P | P | P | P | P | P |
| 59 | 189Y5A0238 | P | P | P | P | P | P | P | P | P | P | A | P | P | P | P | P |
| 55 | 189Y5A0239 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 56 | 189Y5A0240 | P | P | P | P | P | P | P | P | A | A | P | P | P | P | P | P |
| 52 | 189Y5A0241 | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 58 | 189Y5A0242 | P | P | P | P | A | P | A | P | P | P | P | P | P | P | P | P |
| 59 | 189Y5A0243 | P | P | P | P | P | P | P | P | P | P | A | P | P | A | P | P |
| 60 | 189Y5A0244 | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P | P |

C. H. Rao
Coordinator

M. Anwar
Head of The Department
HEAD

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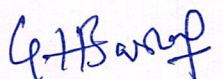
Department of Electrical and Electronics Engineering

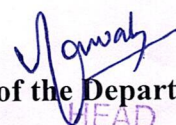
Certification Course


on

PCB Design

| <u>S.no</u> | <u>Date</u> | <u>Topic</u> | <u>No. of Hours</u> |
|-----------------|-------------|---|---------------------|
| Module-1 | | | |
| 1 | 13.08.2019 | Study of Packages of Electronic Components | 2 |
| 2 | 14.08.2019 | History of Printed Circuit Boards | 2 |
| 3 | 15.08.2019 | Various types of Printed Circuit Boards Single Sided Boards | 2 |
| 4 | 16.08.2019 | Double Sided Plated through Hole Boards, multilayer Boards | 2 |
| 5 | 19.08.2019 | Rules for single and Double Sided Board | 2 |
| Module-2 | | | |
| 6 | 20.08.2019 | Schematic diagram Entry in PCB Design tool/S/W | 2 |
| 7 | 21.08.2019 | Guideline for Artwork Generation | 2 |
| 8 | 22.08.2019 | Generation of various Manufacturing Documents/ Output file generation | 2 |
| 9 | 23.08.2019 | Method of Screen Printing for pattern transfer | 2 |
| 10 | 24.08.2019 | Method of Wet film and Dry film for single and Double Sided Board Manufacturing | 2 |
| 11 | 26.08.2019 | Method of Solder-mask and Legend Printings. Plating and Etching Techniques | 2 |
| Module-3 | | | |
| 12 | 27.08.2019 | Components Preparation Method-Lead Forming methods. | 2 |
| 13 | 28.08.2019 | Leaded through hole assembly | 2 |
| 14 | 29.08.2019 | Study of Tools used in the assembly process | 2 |
| 15 | 30.08.2019 | Based on theory- practical | 2 |
| Total | | | 30 |


Coordinator


Head of the Department

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Department of Electrical and Electronics Engineering

Organising
Certification Course on

PCB Design

From

13/8/2019 to 30/8/2019

Venue

KSRMCR-CRI

Resource Person

Dr.T. Mariprasath,

Associate Professor

EEE-Dept

Faculty Coordinator

G. Hussian Basha

Assistant Professor,

EEE-Dept



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Department of E.E.E

COURSE COMPLETION CERTIFICATE

on

PCB DESIGN

This is to certify that Duggisetty Jagapathi Babu (179Y1A0207) has participated in "PCB Design" , During 13/8/2019 to 30/8/2019 organised by the Department of Electrical and Electronics Engineering, K.S.R.M. College of Engineering (Autonomous), Kadapa

Coordinator

Dr. V.S.S. Murthy
Principal



K.S.R.M. COLLEGE OF ENGINEERING

(AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 003

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Department of E.E.E

COURSE COMPLETION CERTIFICATE

on

PCB DESIGN

This is to certify that Gorantla Sasidhar (179Y1A0210) has participated in "PCB Design", During 3/8/2019 to 30/8/2019 organised by the Department of Electrical and Electronics Engineering, K.S.R.M. College of Engineering (Autonomous), Kadapa

Coordinator

Dr. V.S.S. Murthy
Principal



**K.S.R.M. COLLEGE OF ENGINEERING
(UGC-AUTONOMOUS)**

Kadapa, Andhra Pradesh, India – 516 005

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Department of Electrical and Electronics Engineering

Activity Report

| | |
|--|--|
| Name of the Event | Certification Course |
| Name of the workshop | PCB Design |
| Date(s) of the workshop | 13/8/2019 to 30/8/2019 |
| Target Audience | B.Tech V Semester Students |
| Number of Students Participated | 60 |
| Resource Persons | Dr.T. Mariprasath, Associate Professor in EEE, |
| Organizer/Supporting Team | Mr. G. Hussain Basha, Assistant Professor in EEE |
| Report | <p>To fulfil the Industry goals and requirements, the Department of Electrical and Electronics Engineering conducted a certification course on “PCB Design” from 13/8/2019 to 30/8/2019. The course started with an introductory and interactive talk on “PCB Design” by the resource person Dr.T. Mariprasath, Associate Professor in EEE. The circuit implemented on the PCB was an “Astable Multivibrator”. Firstly the students were given a brief explanation on the different stages involved in PCB designing. They were then given hands-on training on Eagle Software, where the instructor took them step by step through Schematic creation, ERC, Netlist generation, Layout design, and DRC.</p> <p>This was followed by Gerber and G-Code generation using Nvis Software which is required by the Nvis PCB Prototype Machine. The students were taught to generate Gerber and G-Codes for Milling, Engraving and Drilling, which were then imported to the PCB Prototype Machine. The students were shown how to use the Nvis PCB Prototype Machine for the PCB creation.</p> <p>The students showed great zeal and enthusiasm in designing the PCB and the satisfaction and joy to see the final PCB was overwhelming. The workshop was a fruitful and a very successful event.</p> |



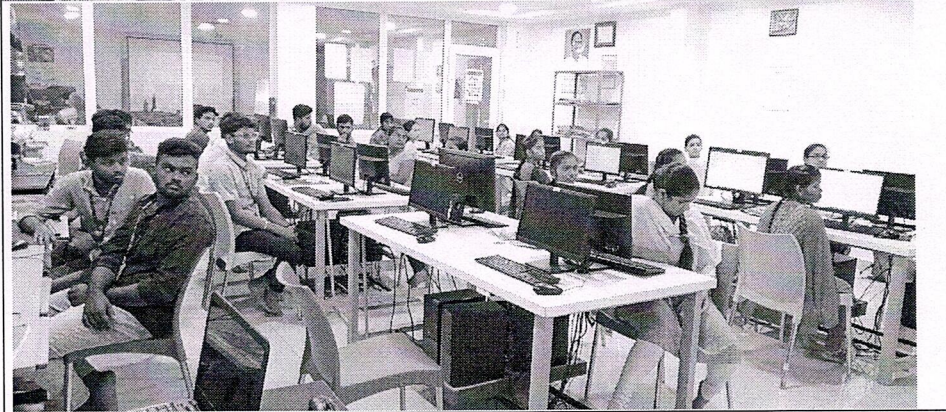
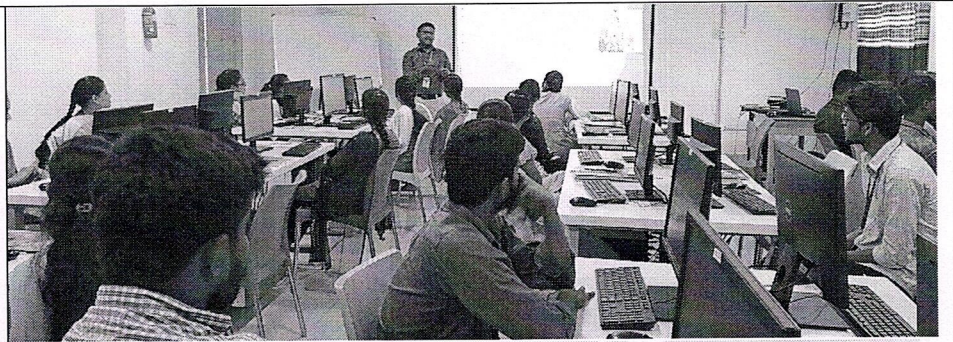
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Photos



[Handwritten Signature]
Coordinator

[Handwritten Signature]
Head of the Department

**HEAD
Department of Electrical &
Electronics Engineering
K.S.R.M. College of Engineering
Kadapa -516003.**

Certification Course PCB Design from 13/8/2019 to 30/8/2019

* Indicates required question

1. The content was Clear & Understandable *

Mark only one oval.

- LOW
 MODERATE
 HIGH

2. The program was well paced within the allotted time *

Mark only one oval.

- LOW
 MODERATE
 HIGH

3. The instructor was a good communicator *

Mark only one oval.

- LOW
 MODERATE
 HIGH

4. The material was presented in an organized manner *

Mark only one oval.

LOW

MODERATE

HIGH

5. The instructor was knowledgeable on the topic *

Mark only one oval.

LOW

MODERATE

HIGH

6.

*

Rate the value of course in increasing your skills

Mark only one oval.

1

2

3

4

5

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**K.S.R.M. COLLEGE OF ENGINEERING
(AUTONOMOUS)**

Department of Electrical & Electronics Engineering

Feedback of students on Certification Course on "PCB Design"

13-08-2019 to 30-08-2019

| S.No | Roll Number | Name of the Student | The content was Clear & Understandable | The program was well paced within the allotted | The instructor was a good communicator | The material was presented in an organized | The instructor was knowledgeable on the topic | Rate the value of course in |
|------|-------------|---------------------|--|--|--|--|---|-----------------------------|
| 1 | 179Y1A0201 | Aravind | LOW | LOW | HIGH | MODERATE | HIGH | 5 |
| 2 | 179Y1A0202 | Sunil | HIGH | MODERATE | HIGH | HIGH | MODERATE | 5 |
| 3 | 179Y1A0203 | Vivekanandareddy | HIGH | MODERATE | MODERATE | HIGH | HIGH | 5 |
| 4 | 179Y1A0204 | Banda Sivaraj | MODERATE | HIGH | HIGH | MODERATE | MODERATE | 5 |
| 5 | 179Y1A0206 | Chandrakala | HIGH | HIGH | MODERATE | HIGH | MODERATE | 5 |
| 6 | 179Y1A0207 | Jagapathi Babu | MODERATE | HIGH | HIGH | HIGH | MODERATE | 5 |
| 7 | 179Y1A0208 | Kumar | HIGH | HIGH | MODERATE | MODERATE | MODERATE | 5 |
| 8 | 179Y1A0209 | Renuka Devi | LOW | MODERATE | MODERATE | HIGH | HIGH | 4 |
| 9 | 179Y1A0210 | Gorantla Sasidhar | HIGH | HIGH | MODERATE | HIGH | HIGH | 5 |
| 10 | 179Y1A0211 | Snehalatha | LOW | MODERATE | HIGH | HIGH | HIGH | 5 |
| 11 | 179Y1A0212 | Lakshmikanth | HIGH | HIGH | HIGH | HIGH | HIGH | 4 |
| 12 | 179Y1A0214 | Manchala Sowmya | HIGH | HIGH | MODERATE | HIGH | HIGH | 4 |
| 13 | 179Y1A0221 | Rayapu Vennela | HIGH | LOW | HIGH | HIGH | HIGH | 5 |
| 14 | 179Y1A0222 | Venkatesh | HIGH | HIGH | LOW | HIGH | HIGH | 4 |
| 15 | 179Y1A0223 | Farooq | MODERATE | HIGH | MODERATE | HIGH | MODERATE | 5 |
| 16 | 179Y1A0224 | Shaik Misba Sania | LOW | HIGH | HIGH | HIGH | MODERATE | 4 |
| 17 | 179Y1A0225 | Panyam | LOW | HIGH | HIGH | MODERATE | MODERATE | 4 |
| 18 | 179Y1A0226 | Syed Azaruddin | HIGH | HIGH | HIGH | MODERATE | HIGH | 5 |
| 19 | 179Y1A0227 | Parvez | LOW | HIGH | HIGH | HIGH | LOW | 4 |

| | | | | | | | | |
|----|------------|--------------------|----------|----------|----------|----------|----------|---|
| 20 | 179Y1A0228 | Tabassum | HIGH | HIGH | HIGH | MODERATE | HIGH | 5 |
| 21 | 179Y1A0230 | Reddy | LOW | HIGH | HIGH | MODERATE | LOW | 5 |
| 22 | 189Y5A0201 | Athinjeri Rajesh | MODERATE | MODERATE | MODERATE | HIGH | LOW | 5 |
| 23 | 189Y5A0202 | Sudarshan Reddy | LOW | HIGH | HIGH | HIGH | LOW | 5 |
| 24 | 189Y5A0203 | Kumar | HIGH | LOW | MODERATE | HIGH | HIGH | 5 |
| 25 | 189Y5A0204 | Lakshmi | LOW | LOW | HIGH | MODERATE | HIGH | 5 |
| 26 | 189Y5A0205 | Mohammed | HIGH | MODERATE | HIGH | HIGH | MODERATE | 5 |
| 27 | 189Y5A0206 | Nirankumar | HIGH | MODERATE | MODERATE | HIGH | HIGH | 5 |
| 28 | 189Y5A0207 | Dara Praveen | MODERATE | HIGH | HIGH | MODERATE | MODERATE | 5 |
| 29 | 189Y5A0208 | Kumar | HIGH | HIGH | MODERATE | HIGH | MODERATE | 5 |
| 30 | 189Y5A0209 | Kalyan | MODERATE | HIGH | HIGH | HIGH | MODERATE | 5 |
| 31 | 189Y5A0210 | Madhavi | HIGH | HIGH | MODERATE | MODERATE | MODERATE | 5 |
| 32 | 189Y5A0212 | Reddy Krishna | LOW | MODERATE | MODERATE | HIGH | HIGH | 4 |
| 33 | 189Y5A0213 | Kumar | HIGH | HIGH | MODERATE | HIGH | HIGH | 5 |
| 34 | 189Y5A0216 | Kumar Reddy | LOW | MODERATE | HIGH | HIGH | HIGH | 5 |
| 35 | 189Y5A0231 | Moghal Aslam Baig | HIGH | HIGH | HIGH | HIGH | HIGH | 4 |
| 36 | 189Y5A0232 | Kumar Reddy | HIGH | HIGH | MODERATE | HIGH | HIGH | 4 |
| 37 | 189Y5A0233 | Jyothsna | HIGH | LOW | HIGH | HIGH | HIGH | 5 |
| 38 | 189Y5A0234 | Kumar Reddy | HIGH | HIGH | LOW | HIGH | HIGH | 4 |
| 39 | 189Y5A0235 | Palla Ravivarma | MODERATE | HIGH | MODERATE | HIGH | MODERATE | 5 |
| 40 | 189Y5A0236 | Palla Reddaiah | LOW | HIGH | HIGH | HIGH | MODERATE | 4 |
| 41 | 189Y5A0237 | Kumar | LOW | HIGH | HIGH | MODERATE | MODERATE | 4 |
| 42 | 189Y5A0238 | Santhosh Reddy | HIGH | HIGH | HIGH | MODERATE | HIGH | 5 |
| 43 | 189Y5A0239 | Pattam Sraavan | LOW | HIGH | HIGH | HIGH | LOW | 4 |
| 44 | 189Y5A0240 | Teja | HIGH | HIGH | HIGH | MODERATE | HIGH | 5 |
| 45 | 189Y5A0241 | Kumar | LOW | HIGH | HIGH | MODERATE | LOW | 5 |
| 46 | 189Y5A0242 | Reddy | MODERATE | MODERATE | MODERATE | HIGH | LOW | 5 |
| 47 | 189Y5A0220 | Konangi Chandu | LOW | HIGH | HIGH | MODERATE | MODERATE | 4 |
| 48 | 189Y5A0221 | Kothapalli Somanju | HIGH | HIGH | HIGH | MODERATE | HIGH | 5 |
| 49 | 189Y5A0222 | Kumarakalva Balaji | LOW | HIGH | HIGH | HIGH | LOW | 4 |
| 50 | 189Y5A0217 | Kapa Omkar Reddy | MODERATE | HIGH | HIGH | HIGH | MODERATE | 5 |

| | | | | | | | | |
|----|------------|-------------------|----------|----------|----------|----------|----------|---|
| 51 | 189Y5A0218 | Kumar Reddy | HIGH | HIGH | MODERATE | MODERATE | MODERATE | 5 |
| 52 | 189Y5A0219 | Koduru Kumar | LOW | MODERATE | MODERATE | HIGH | HIGH | 4 |
| 53 | 189Y5A0223 | Kummara Vishnu | HIGH | HIGH | MODERATE | HIGH | HIGH | 5 |
| 54 | 189Y5A0224 | Kundala Sivasai | LOW | HIGH | HIGH | MODERATE | MODERATE | 4 |
| 55 | 189Y5A0229 | Reddy | HIGH | HIGH | HIGH | MODERATE | HIGH | 5 |
| 56 | 189Y5A0230 | Harshini | LOW | HIGH | HIGH | HIGH | LOW | 4 |
| 57 | 189Y5A0227 | Prakash Reddy | MODERATE | HIGH | HIGH | HIGH | MODERATE | 5 |
| 58 | 189Y5A0228 | Sai | HIGH | HIGH | MODERATE | MODERATE | MODERATE | 5 |
| 59 | 189Y5A0206 | Chundu Nirankumar | LOW | MODERATE | MODERATE | HIGH | HIGH | 4 |
| 60 | 189Y5A0207 | Dara Praveen | HIGH | HIGH | MODERATE | HIGH | HIGH | 5 |

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