

Ref.No. CEA/E&TC/2016/3262CA)

Date:- 11/10/2016

To,
Mr. Arvind Kumawat,
Marketing Manager ,
CTR Manufacturing Industries,
Pune.

Subject: Request for delivering Expert lecture on topic "Study of PCB for Project implementation" dated 15th October 2016

Dear Sir,

It gives us immense pleasure to state that the Department of Electronics & Telecommunication Engineering of our institute organizes an Expert lecture for students.

As per discussion with Prof. S.R.Udawant, Assistant Professor, Department of Electronics & Telecommunication Engineering, We would like to invite you to deliver Expert lecture on topic "Study of PCB for Project implementation" dated 15th October 2016 at 11:00 am.

Kindly accept our invitation to deliver lecture and give your consent.

Thanking you.




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Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar

Yours sincerely,

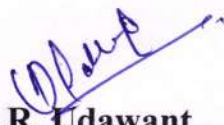

(Dr. H.N.Kudal)
Principal

Notice

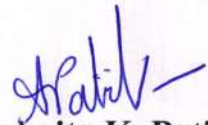
Date: 12/10/2016

All the S.E, T.E, B.E. students are hereby informed that Electronics and Telecommunication Engineering Department is arranging expert lecture on "Study of PCB for Project implementation" delivered by Mr. Arvind Kumawat, Marketing Manager , CTR Manufacturing Industries , Pune on 15/10/2016 Saturday at 11:00 am.

All the students should present for expert lecture.


Prof. S.R. Udawant

Event Incharge


Dr. Anita K. Patil

H O D


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Ahmednagar



Report on the Expert Lecture

Date: 15/10/2016

- Date of the expert lecture : 15/10/2016
- Time :11.00am to 1.00pm
- Title: "Expert Lecture on Study of PCB for project implementation"
- Name of the expert: Mr. Arvind Kumawat
- Designation: Marketing Manager
- Industry: CTR Manufacturing Industries Ltd, Pune
- Classes attended: SE, TE & BE students
- Number of students attended: 106
- Venue: Seminar Hall
- Event In-charge: Prof.S.R.Udawat
- Topics Covered
 1. PCB for Project Implementation

Objective of Expert Lecture:

To introduce the ideas PCB for project implementation

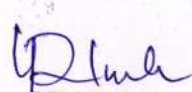

Event In charge

Prof. S.R.Udawat


H.O.D

Dr. Anita Patil




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Course Outcomes

CO1: Students will get the knowledge about use of PCB in Industry.

CO2: Students will get the knowledge about Project Implementation.

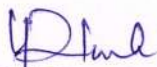
CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3									3
CO2	3	3	3									3

CO-PSO Mapping

CO	PSO1	PSO2	PSO3
CO1	3		
CO2	3		




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Study of PCB for Project implementation

Contents

A) Steps to Design a Circuit Board

- Create the Schematic
- Create a Blank PCB Layout
- Schematic Capture: Linking to Your PCB
- Designing Your PCB Stackup
- Defining Design Rules and DFM Requirements
- Place Components
- Insert Drill Holes
- Route Traces
- Add Labels and Identifiers
- Generate Design Files

B) Types of Printed Circuit Boards

- Single-Sided PCBs
- Double-Sided PCBs
- Multilayer PCBs
- Rigid PCBs
- Flex PCBs
- Rigid-Flex PCBs

C) PCB MATERIAL

- FR-4
- CEM-1, CEM-2 and CEM-3
- RF-35
- PFTE
- Polyimide


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Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar
Department of Electronics & Telecommunication

A.Y: 2016-17.

Class: TE

Roll No.	Name of Student	
1	ANDHALE RENUKA PRADAD	Andale Renuka
3	BANSODE AJINKYA VIJAY	Bansode Ajinkya
4	BARDE SACHIN PRAMOD	Barde Sachin
5	BHANDARE SONAL ANANTRAO	Bhandare Sonal
6	BHOR KIRAN SAHEBRAO	Bhor Kiran
7	BHUJBAL SAYLI ZUMBAR	Bhujbal Sayli
8	BISWAS SUPRITA NIRIPEN	Biswas Suprita
9	CHAUDHARI DURGESH CHANDRAKANT	Chaudhari Durgesh
10	CHAVAN PANDURANG JANAK	Chavan Pandurang
11	CHAVAN SANDEEP KESHAV	Chavan Sandeep
12	DARANDALE BHAKTI KAILAS	Darandale Bhakti
13	DEORE VISHAKHA VIJAY	Deore Vishakha
14	DEVKAR POOJA ASHOK	Devkar Pooja
15	DHAWALE AMRUTA ARUN	Dhawale Amruta
16	DHEPE NIKITA BHAUSAHEB	Dhepe Nikita
17	DOMALE GAURAV SANJAY	Domale Gaurav
18	DONGARE HINDDEVI ARUN	Dongare Hinddevi
19	DURGUDE BALIRAM ARJUN	Durgude Baliram
20	GAIKWAD AJAY BALASAHEB	Gaikwad Ajay
21	GARGE OMKAR DHANANJAY	Garge Omkar
23	GAWAI AMOL SHANKAR	Gawai Amol
24	GAWALI BHAKTI SHANKAR	Gawali Bhakti
25	GHOHARE VAIBHAV KAMALKAR	Ghohare Vaibhav
26	GIRAM SURYAKANT BALBHIM	Giram Suryakant
28	HAMPE POOJA SHEKHAR	Hampe Pooja
29	JAGTAP YOGESH BHAUSAHEB	Jagtap Yogesh
30	KADAM ROSHAN SANJAY	Kadam Roshan
31	KADAM MINAKSHI JALINDAR	Kadam Minakshi
35	KASAR SHUBHAM RAJESH	Kasar Shubham
37	KHARADE SONALI ANANDA	Kharade Sonali
38	KOLHE GOKUL BHAU	Kolhe Gokul
39	KUDALE KOMAL RAJENDRA	Kudale Komal
40	KULKARNI VAISHNAVI SUNIL	Kulkarni Vaishnavi
42	LANDGE SUDHIR NAMDEV	Landge Sudhir
43	MADAKE KOMAL BABASAHEB	Madake Komal
46	MODHAVE MADHURI NAMDEV	Modhave Madhuri
47	MORE NAMRATA BAPUSAHEB	More Namrata
48	MOTE ASMITA SANJAY	Mote Asmita
49	MULAY AKSHAY RAOSAHEB	Mulay Akshay
50	MULE AAKASH BABASAHEB	Mule Aakash
51	MULIK MAYA VISHNU	Mulik Maya
52	MUNOT NEHA DILIP	Munot Neha
57	PAGIRE SUPRIYA SANDIP	Pagire Supriya
59	PATIL PRAFULLA DILIP	Patil Prafulla
60	PAWAR SHITAL VASANTARAO	Pawar Shital
61	PISE UMESH MACHHINDRA	Pise Umesh
63	SAINDAR DILIP SHIVAJI	Saindar Dilip
64	SHAH KUNJALA PRAVIN	Shah Kunjala



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65	SHAIKH ASIF NASIRGULAB	Shaikh
66	SHELAR VIJAY VISHVNATH	Shelar V.V
67	SHELKE JAYASHRI BALU	Shelke J.B
68	SHELKE PRAJAKTA ARJUN	
69	SHINDE MANISHA AMBADAS	
70	SHINDE DHANASHRI SUBHASHRAO	Shinde D.S
74	SUDRIK SUKANYA DNYANESHWARRAO	
76	THANAGE ROHIT MOHAN	Thanage R.M
77	THOKAL PALLAVI SHIVAJI	
78	THOMBARE TRUPTI BHIMRAJ	
79	THORAT APURVA ANANT	Thorat A.A
80	TILEKAR SHUBHANGI RAOSAHEB	
82	TUPVIHIRE DIKSHA RATAN	Diksha
84	VYAPARI SHREYA RAJENDRA	
86	WAGHUNDE ANJALI BALASAHEB	
87	WAGHUNDE KOMAL SUKHADEV	Waghunde K.
88	WAHATULE ASHWINI SUGRIV	
89	YANNAWAR TUSHAR JAYWANT	Yannawar T.J
90	AKOLKAR NIKITA RAJENDRA	
91	KAKADE RAHUL APPASAHEB	
92	KAZI SAQLAIN IKBAL	Kazi
93	KUMAR SANDEEP NATHURAM	
94	MISHRA ANKIT SUBHASH	Mishra A.S
95	PAWAR VISHAL CHANDRAKANT	
97	SHAIKH MOHAMMEDNAWAZ SHAHAJAHAN	Shaikh M.S
98	VIGHNE SACHIN SHIVAJI	
99	MISKIN SWAPNIL SANTOSH	
100	LIMBIKAR RADHIKA PRAKASH	Limbiakar R.P
101	KULKARNI UMESH RAMESHRAO	
112	SABLE KOMAL	Sable K.



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66	KHANDAPURE SHIVPRASAD SURYAKANT	Khandapure S.S.
67	KHARAD PRAVINSINGH BALIRAM	
68	KHARAD NIKITA DYANDEO	Nikita
69	KOLHE PANKAJ RAMESH	
70	KOTHULE SAVITA RAJENDRA	Kothule S.E.
73	KULKARNI AARTI PRASHANT	
74	LAD SHUBHANGI EKNATH	Lad S.E.
75	MAINDAD SWATI NAVNATH	
76	MALUNJKAR RUTUGANDHA	Malunjkar
78	MANE DIPALI SHAHAJI	
79	MHASKE PRIYANKA RAMESH	MHASKE P.R.
81	MORE HARSHVARDHAN BALASAHEB	
82	MORE DHANASHRI RAJKUMAR	
83	MUNDHE GANGARAM VAJINATH	
84	MURKUTE SANCHITA EKNATH	Murkute P.E.
85	MYANA VISHAL DNYANESHWAR	
86	NAGAPURE ANJALI RAMESH	
87	NAGARE SHRUTIKA SHRIDAR	
88	NAGARE CHAITALI HANUMAN	Nagare C.H.
89	NAGARKAR MAYUR VILAS	
90	NAIKWADE RAHUL ASHOK	
91	NAWALE SUPRIYA RAGUNATH	Nawale
92	PADGHAM PRADIP SHIVDAS	Padgham P.S.
94	PARDESHI SHUBHAM KISHOR	
95	PATARE SHRADDHA VIJAY	
96	PATHAN AFRIN RASHIDKHAN	Pathan A.R.
98	PATOLE PRIYANKA DADU	
100	PAWAR RAHUL SUBHASH	Pawar R.S.
101	PIMPAL PRATIMA RAOSAHEB	
102	POKALE KISHOR PANDIT	Pokale.
103	PUND PRADNYA ASHOK	
104	PUND AMOL BALASAHEB	
105	RAUT PRIYA ASHOK	Pund A.B.
106	ROKADE JAYKUMAR NANDAKISHOR	
107	SANGLE SHUBHAM SHESHRAO	Sangle
108	SATHE SAGAR SUNIL	
109	SAYYAD KALIM UMRAO	Sayyad K.U.
110	SAYYAD JAMIR AKBAR	
111	SHAIKH ISMAIL YASIN	Shaikh I.Y.
112	SHELKE SAYALI MACHHINDRA	
114	SHETE SHWETA CHANDRAKANT	Shete.
115	SHEWALE YOGESH DHONDIRAM	
117	SHINDE MAYURI BAPU	M.B. Shinde.
118	SHINDE VRUSHALI DHAIYASHEEL	Shinde
119	SHINDE AKSHAY BHARAT	
120	SHINGDE SNEHA TUKARAM	Shingde S.T.
121	SHIRSATH POOJA SHARAD	
122	SINGH DEEPESH AJAYPRATA	
123	SIRSAT ANJU NIRANJAN	Sirsat A.N.



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Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar
Department of Electronics & Telecommunication

A.Y: 2016-17

Class: BE

Roll No	Name of the Student	Marks
1	ADHAV MANISHA KARBHARI	Adhav M
2	ADIGOPUL SHIVANI DATTATRAYA	
3	AHER SHILPA KISAN	Aher
4	AKOLKAR AMOL SONYABAPU	
5	AMATE AJINKYA BALASAHEB	Amate A.B
6	ANAP SUPRIYA BHAUSAHEB	
8	ANDHALE HARSHADA UDHAV	Andhale
9	ARSUDE VIJAYKUMAR PRABHAKAR	
10	ASHWINI MADHUKAR PATIL	Ashwini
11	AWARE DIPAK VASANT	Aware D.V
12	BAHIR AKSHADA BALKRUSHNA	
13	BAMNIKAR DAMINI DIPAK	
14	BHAKARE MONIKA RAOSAHEB	Bhakare M
15	BHALERAO ANIKET ASHOK	
16	BHAT SHAILESH RAMESH	
17	BHONDE AKSHAY EKNATH	Bhonde A.F
18	BHUJBAL AISHWARYA EKNATH	
19	BINIWALE SHUBHAM RAVINDRA	
33	DHAWALE SANDHYA SHIVAJI	Dhawal
34	DHAWALE ASHWINI GORAKH	
35	DHERE SUPRIYA RAGHUNATH	Dhere S.R
36	DHUMANE ANKITA SURESH	Dhumane
37	DWARKE PRIYA ASHOK	
38	FAND VRUSHALI RAMDAS	Fand V.R
39	FRANCIS KEVIN ROMAIN	
40	GAIKAWAD AKASH SUDHAKAR	
41	GAIKWAD SWATI RAGHUNATH	Panti
42	GAYKAR MINAL RAJARAM	
43	GHODKE VAIBHAV MAHADEO	Ghodke V.M
44	GHUMARE PRIYAKA PANDURANG	
45	GUNDELI PRASHANT BALKRUSHNA	Gundeli
46	HOSHING MADHURA MUKUND	
47	INAMKE NEHA RAJENDRA	
49	JADHAV PRIYAKANT TANAJI	Jadhav
50	JADHAV JALINDER DNYANDEO	
51	ANNU JAGLAN	
52	JAGTAP RUPALI SHRINIVAS	Jagtap
53	JAMKAR SHITAL SAHEBRAO	
54	KADAM NITISH BALASAHEB	
55	KADLAG PRANALI SANJAY	Kanali
56	KAKADE KAMINI BABANRAO	
57	KALE ROHINI GOPINATH	
59	KALE VISHNU SATWA	Kale
61	KARPE MONIKA NANDU	
62	KATARIYA ATUL HARISH	Katariya
63	KAWEKAR PRANJALI PRAMOD	
64	KEDARI OMKAR VIJAY	Kedari
65	KHALADKAR PRIYANKA CHANDRAKANT	



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124	SOLANKE PRANITA GANGABHISHAN	Polanke P.G
125	SOLANKE RAVINDRA BABANRAO	Solanke R.B
126	SORATE AMITA SHARAD	
127	SURWASE OMPRAKASH LAHU	
128	SURYAWANSHI GAURAV KISHOR	
129	TADAS SHYAM ASHROBA	Shyam
130	TAYDE ASHWINI RANGANATH	
131	THAKUR RAJASHREE SURESH	Thakur R.S
132	THORAT KAJAL KAILAS	
133	URKUDE RUSHABH PRAKASH	Kajal
134	VANVE SOMNATH BABAJI	Vanve S.B
135	VASHIKAR SUSHEN SHRIRAM	
137	WAGH BHAGYASHREE PANDHARINATH	
138	WALE YOGESH MAHADEO	Yogesh W.
139	WANI MAHESH BHAGWAN	
140	WARE YOGITA INDRAJIT	W.Y.I
141	YESHI AJAY DILIP	Yeshi A.D
142	ZAMBARE SNEHAL VILAS	
143	ZINE VRUSHABH BALASAHEB	Zine V.
144	ZUNJARRAO SAGAR ANIL	
145	AREKAR PRAVIN VIJAY	Pravin R.V
146	BENKE MADHURI DATTATRAYA	
148	DEVKAR BAJEERAV DNYNDEV	
149	KADAM SOPAN EKNATH	Kadam S.F
150	KARANDE DNYANESHWAR SANDIPAN	
152	LONDHE AJAY SANJAY	Ajay
153	MANE DIGVIJAY MUKUNDRAO	
155	MOHITE TUSHAR BHAGWAT	Tushar
156	NAIR AJESH RAGESH	
157	SHAIKH FIROJ SALIM	Shaikh F.S
158	THAKARE AJAY SAMADHAN	Thakare A.S
159	BANDE DIPAK AMBADAS	
160	CHINE TUSHAR BALASAHEB	
161	SHAIKH SAHIL NISAR	Shaikh S.N
162	SARODE PRAVIN DATTU	Pravin
163	PATIL VENKATESH ANNARAO	
164	MHETRE NEHA ARUN	
165	PARDESHI KIRAN SHENFADU	Pardehi K.S
166	SANAP HARSHAD VIJAY	
167	PANIGRAHI SUNIL JAYA	
168	DHANDE NILESH CHANDRASEN	Nilesh
169	BEAUTY KUMAR JHA	
172	KALE SAGAR GRAKH	Kale P.G
176	MANDALE YOGESH ASHOK	
177	MISHRA VISHAL	Mishra V.
178	MOKATE SHEKHAR BALASAHEB	
180	PAWAR PRIYA BHOPU	Pawar
182	MONSHUL TYAGI	Monshul T.



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47	GHANWAT POONAM CHANGDEO	Poonam G
48	GUND PRANALI CHANDARKANT	
49	HINGMIRE SHIVANJALI RANGNATH	
50	JAYBHAYE AKASH ASHOK	Akash
51	KADAM GITANJALI ASHOK	
52	KALOKHE GAURAV BABLU	
53	KERULKAR ASHISH KISHOR	
54	KHANDAGALE RAMESHWAR EKNATH	Rameshwar
55	KHEDKAR RENUKA DADASAHEB	
56	KOLHE ANIKET PARMESHWAR	
57	MAHADIK VIJAYA SATISH	mahadik V.S
58	MUTYAL ABHIJIT SUSHIL	
59	NAGVE LAXMAN BABAB	
60	PACHE CHETAN SAMPAT	Pache C.S
61	PARAMAL AJAY JIVAN	
62	PARDESHI ANKITA PRAVIN	Paradeshi A
63	PATHAN NADEEM ALTAF	
64	PATIL ADITI DINKAR	Patil A.D
65	PAWAR PRATIKSHA BALASAHEB	
66	PAWAR ROHIT RAMRAO	
67	POKALE VAISHNAVI BHARATRAO	
68	POPALGHAT KIRAN RAMNATH	
69	RASKAR RUPALI ASHOK	Raskar R.A
70	SARAVADE CHAITALI ACHYUT	
71	SAWADE NITIN LIMBAJI	
72	SHAIKH FARAHAN RAFIQUE	Shaikh F.R
73	SHEJWAL DHANASHRI SANJAY	
74	SHINDE ASHISH RAJU	
75	TELURE POOJA RAJABHAU	Telure P.R
76	UKIRDE PAWAN GHANASHAM	
77	WADKAR PRATIKSHA ASHOK	
78	GADE AKASH RAMDAS	
79	FARUQUI SAMRINA OMER	Samrinda



Dr. Vithalrao Vikhe Patil
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Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar

Feedback Form

Date: 15/10/2016

Topic of Expert Lecture: Expert lecture on "Study of PCB for project implementation"

Name of Expert:

Mr. Arvind Kumawat

Marketing Manager, CTR Manufacturing Industries Ltd, Pune

Q.No	Parameters	Below Average	Average	Good	Excellent	Outstanding
1	How would you rate the topic of expert lecture				✓	
2	How was the level of content?			✓		
3	How would you rate the knowledge of Resource person ?				✓	
4	How did you like the subject material?				✓	
5	Will lecture be useful for your studies?				✓	
6	How did you rate the lecture overall?					✓
7	What were the two best things about the session? 1) Resource person delivered good lecture 2) Topic was good which will help in future					
8	Remark —					
9	Suggestions if any ? —					



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Dr. Vithalrao Vikhe Patil
College of Engineering
Ahmednagar

Feedback Form

Date: 15/10/2016

Topic of Expert Lecture: Expert lecture on "Study of PCB for project implementation"

Name of Expert:

Mr. Arvind Kumawat

Marketing Manager, CTR Manufacturing Industries Ltd, Pune

Q.No	Parameters	Below Average	Average	Good	Excellent	Outstanding
1	How would you rate the topic of expert lecture				✓	
2	How was the level of content?					✓
3	How would you rate the knowledge of Resource person ?				✓	
4	How did you like the subject material?			✓		
5	Will lecture be useful for your studies?				✓	
6	How did you rate the lecture overall?				✓	
7	What were the two best things about the session? 1) Resource Person was brilliant. 2) well organized session					
8	Remark					
9	Suggestions if any ?					



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Dr. Vithalrao Vikhe Patil
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Ref. No. CEA/E&TC/2016/ 3290C1)

Date:- 15/10/2016

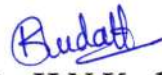
LETTER OF THANKS

Dear Sir,

On behalf of Dr. Vithalrao Vikhe Patil College of Engineering, Ahmednagar, we take this opportunity to extend our heartfelt gratitude & huge "Thank you" for delivering Expert Lecture on "Study of PCB for Project implementation" for Electronics & Telecommunication Engineering students on 15th October 2016 at 11:00 am.

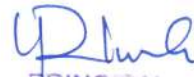
Let us maintain and cherish these relations for mutual benefit hence and forever.
We shall remain obliged for sparing valuable time with us.


(Dr. Ms. A.K. Patil)
HOD, E&TC


(Dr. H.N. Kudal)
Principal

To,
Mr. Arvind Kumawat,
Marketing Manager ,
CTR Manufacturing Industries ,
Pune .




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