



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)
Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India.
[AFFILIATED TO BPUT, ODISHA]
www.coeb.ac.in

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ADD-ON COURSE : PCB Design

[Programme: B.Tech, ETC]

Course Objectives:

To introduce some basic fundamental ideas of printed circuit board (PCB) design, Packages of electronic components, Rule for design for manufacturing, PCB Manufacturing Techniques, Wet film and Dry film.

SYLLABUS

Total Lecture Hours : 40

MODULE-I:

[10 Hours]

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-II

[14 Hours]

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-III

[16 Hours]

PCB Manufacturing Techniques: Film Master generation methods : Study of photographic Film, Exposing and Developing Process, Cleaning Method of base materials before pattern transfer-Manual and Mechanical Cleaning Methods, Mechanical methods required in manufacturing of PCBs like punching, drilling ,milling and routing.

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Course Outcomes: After completion of the course, the students will be able to

- CO1: Explore different aspect of Printed Circuit Board Design and fabrication.
- CO2: Design various types of PCBs. Schematic Design, entry Rules for Schematic Entry, Component Layout methods
- CO3: Implement the placement Rules, routing techniques for single sided.
- CO4: Explore processing of design and fabrication documents.
- CO5: Design and fabricate their own PCB for their Project and can also work in PCB Designing and Fabrication area.

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of course and assessment processes.

Learning resources:

Suggested Books:


1. Printed Circuit Boards: Design, Fabrication, and Assembly by R. Khandpur.
2. Fundamentals of Layout Design for Electronic Circuits by Jens Lienig, Juergen Scheible.
3. Electronic Product Design by SD Mehta
4. Pcb Design & Fabrication by Ramesha Talawar, Mustaq Kunnur

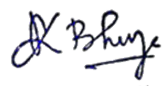
Other Sources:


e-Learning Resources:

1. <https://www.youtube.com/watch?v=o4zeeEwG7gw&list=PLbRMhDVUMngcwN9HHIOALFj1HYs9T64BF&index=3>
2. <https://www.youtube.com/watch?v=D7DJkLdbh8&list=PLbRMhDVUMngcwN9HHIOALFj1HYs9T64BF>

Design and Developed by: Prof. Subrat Kumar Mohanty and Prof. Snehasis Dey


Principal
PRINCIPAL
College of Engineering Bhubaneswar


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H.O.D. ETC Engg.
H.O.D.
Dept. of ETC Engg.
COEB, Bhubaneswar



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COLLEGE OF ENGINEERING BHUBANESWAR

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NOTICE

ADD-ON/CERTIFICATE COURSE

Date: 05/08/2019

Ref No: COEB/ETC/2019/09

It is for the information of all the students of 3rd/5th/7th semester that the classes for the Add-On/Certificate Courses will commence as per the time table given below.. The registration process for the course will start from **06/08/2019**. The interested students to enroll themselves for the course are advised to contact the concerned Course Coordinators for the details.

Scemester	Course Title	Course Coordinator	Date of Commencement
3rd	PCB Design	Prof. Arpit Sourav Mohapatra	16/08/2019
5th	Advances and challenges in telecommunication	Prof . Loknath Sarangi	16/08/2019
7th	Machine Learning Algorithms for Communication	Prof. Sandip Kumar Mishra	16/08/2019

The class timing will be from 5.30 pm to 7.30 pm.


Head of the Department
Dept. of ETC Engg.
COEB, Bhubaneswar

Copy to:

1. Office of the Chairman/ Vice-Chairman for kind information.
2. Office of the Executive Director for kind Information.
3. Office of the Registrar for kind Information.
3. Office of the Principal for kind information.
4. Departmental Notice Board.
5. Guard File

Head of the Department


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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

ADD-ON COURSE

STUDENT ENROLLMENT SHEET

Name of the Department: Electronics and Telecommunication Engineering	
Course Title: PCB Design	
Semester: 3rd	Academic Year: 2019-20

Student's Declaration/Undertaking

1. I do hereby undertake to participate in the above mentioned add on course.
2. I do hereby, promise to abide by the admissible rules and regulations, connecting discipline, attendance, etc. of the department, and also to follow the code of Conduct prescribed for the students of the institute, as in force from time to time.

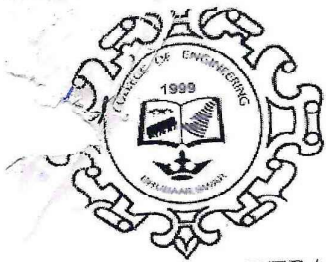
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Signature of the student
1	1801219018	ASHISH KUMAR PARIDA	Ashish Kumar Parida
2	1801219021	ASIF KHAN	Asif Khan
3	1801219042	DAVID HANSDAH	Jitu Mistry
4	1801219062	JITU MISTRY	Jitu Mistry
5	1801219065	KALYANI SWAGATIKA DASH	Kalyani Dash
6	1801219079	MANORANJAN SAHOO	Manoranjana Sahoo
7	1801219082	MEGHANTH NAIK	Meghanth Naik
8	1801219091	NUTAN NAYAK	Nutan Nayak
9	1801219099	PRASANTA KUMAR THAKUR	Prasanta Kumar Thakur
10	1801219107	PRIYABRATA KUMURA	Priyabrata Kumura
11	1801219112	PURNENDU SUNANI	P. Sunani
12	1801219130	SANKAT MOCHAN BISWAL	Sankat Mochan Biswal
13	1801219163	SUSHREE SANGITA	Sushree Sangita
14	1801219170	TOKAN BEHERA	Tokan Behera
15	1801219227	ANANYA SAMAL	Ananya Samal
16	1801219228	BIJAY KUMAR PADHI	Bijay Kumar Padhi
17	1801219229	BISHNUPRIYA MOHARANA	Bishnupriya Moharana
18	1801219230	MAHESH PRASAD MISHRA	Mahesh Prasad Mishra
19	1801219231	NISHI TIRKEY	Nishi Tirkey
20	1801219232	SMRUTIREKHA MARANDI	Smrutirekha
21	1801219233	SUBHASHREE BIDYASAGAR	Subhashree Bidyasagar

A. Mohapatra

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A. Mohapatra





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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING ADD ON COURSE _____

STUDENT ATTENDANCE SHEET

Programme: B.Tech in ETC

Semester: 3rd Academic Year :2019-20

Name of the course: PCB Design
Course Code (if any):

Duration : 40 hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 16/8/19	Date: 19/8/19	Date: 20/8/19	Date: 21/8/19
1	1801219018	ASHISH KUMAR PARIDA	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida
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K. Bhuje

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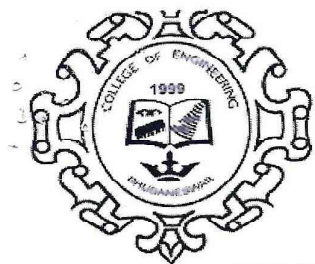
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21	1801219233	SUBHASHREE BIDYASAGAR	Subhashree Bidyasagar		Subhashree Bidyasagar	
Signature of the Course Coordinator			A. Mohapatra	A. Mohapatra	A. Mohapatra	A. Mohapatra


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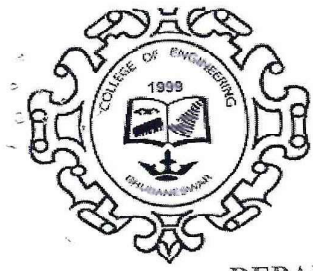
Programme: B.Tech in ETC

Semester: 3rd Academic Year :2019-20

Name of the course: PCB Design
 Course Code (if any):

Duration : 40 hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 22/8/19	Date: 26/8/19	Date: 28/8/19	Date: 29/8/19
1	1801219018	ASHISH KUMAR PARIDA	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida
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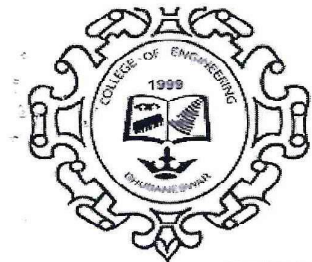
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Signature of the Course Coordinator			A. Mohapatra	A. Mohapatra	A. Mohapatra	A. Mohapatra

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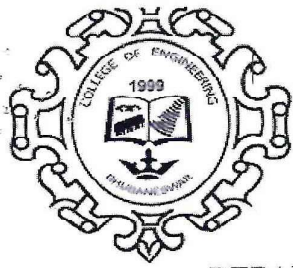
Semester: 3rd Academic Year :2019-20

Name of the course: PCB Design

Course Code (if any):

Duration : 40 hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 30/8/19	Date: 4/9/19	Date: 5/9/19	Date: 6/9/19
1	1801219018	ASHISH KUMAR PARIDA	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida
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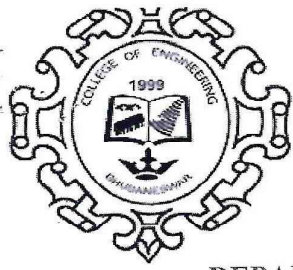
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21	1801219233	SUBHASHREE BIDYASAGAR	<i>Subhashree</i> <i>Bidyasagar</i>	<i>Subhashree</i> <i>Bidyasagar</i>	<i>Subhashree</i> <i>Bidyasagar</i>	
Signature of the Course Coordinator			<i>A. Mohapatra</i>	<i>A. Mohapatra</i>	<i>A. Mohapatra</i>	<i>A. Mohapatra</i>

A. Bhuje
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STUDENT ATTENDANCE SHEET

Programme: B.Tech in ETC

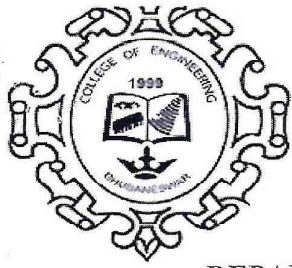
Semester: 3rd Academic Year :2019-20

Name of the course: PCB Design

Course Code (if any):

Duration : 40 hours		Date & Signature of the Student				
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 10/9/19	Date: 11/9/19	Date: 12/9/19	Date: 13/9/19
1	1801219018	ASHISH KUMAR PARIDA	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida
2	1801219021	ASIF KHAN	Asif Khan	Asif Khan	Asif Khan	Asif Khan
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STUDENT ATTENDANCE SHEET

Programme: B.Tech in ETC

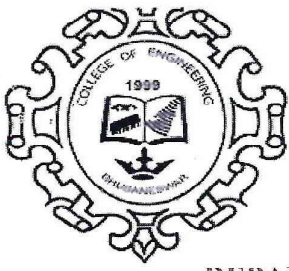
Semester: 3rd Academic Year :2019-20

Name of the course: PCB Design

Course Code (if any):

Duration : 40 hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 16/9/19	Date: 17/9/19	Date: 18/9/19	Date: 19/9/19
1	1801219018	ASHISH KUMAR PARIDA	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida	Ashish Kumar Parida
2	1801219021	ASIF KHAN	Asif Khan	Asif Khan	Asif Khan	Asif Khan
3	1801219042	DAVID HANSDAH	David Hansdah	David Hansdah	David Hansdah	David Hansdah
4	1801219062	JITU MISTRY	Jitu Mistry	Jitu Mistry	Jitu Mistry	Jitu Mistry
5	1801219065	KALYANI SWAGATIKA DASH	Kalyani Swagatika Das	Kalyani Swagatika Das	Kalyani Swagatika Das	Kalyani Swagatika Das
6	1801219079	MANORANJAN SAHOO	Manoranjan Sahoo	Manoranjan Sahoo	Manoranjan Sahoo	Manoranjan Sahoo
7	1801219082	MEGHANTH NAIK	Meghanth Naik	Meghanth Naik	Meghanth Naik	Meghanth Naik
8	1801219091	NUTAN NAYAK	Nutan Nayak	Nutan Nayak	Nutan Nayak	Nutan Nayak
9	1801219099	PRASANTA KUMAR THAKUR	Prasant Kumar Thakur	Prasant Kumar Thakur	Prasant Kumar Thakur	Prasant Kumar Thakur
10	1801219107	PRIYABRATA KUMURA	Priyabrata Kumura	Priyabrata Kumura	Priyabrata Kumura	Priyabrata Kumura
11	1801219112	PURNENDU SUNANI	Purnendu Sunani	Purnendu Sunani	Purnendu Sunani	Purnendu Sunani
12	1801219130	SANKAT MOCHAN BISWAL	S.M Biswal	S.M Biswal	S.M Biswal	S.M Biswal
13	1801219163	SUSHREE SANGITA	Sushree Sangita	Sushree Sangita	Sushree Sangita	Sushree Sangita
14	1801219170	TOKAN BEHERA	Tokan Behera	Tokan Behera		
15	1801219227	ANANYA SAMAL	Ananya Samal	Ananya Samal	Ananya Samal	Ananya Samal
16	1801219228	BIJAY KUMAR PADHI				
17	1801219229	BISHNUPRIYA MOHARANA	Bishnupriya Moharana	Bishnupriya Moharana	Bishnupriya Moharana	Bishnupriya Moharana
18	1801219230	MAHESH PRASAD MISHRA	M.P. Mishra	M.P. Mishra	M.P. Mishra	M.P. Mishra

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College of Engineering Bhubaneswar



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

Koustuv Technical Campus, Plot No. 1 (A), Koustuv Square, Infocity Road
Patia, Bhubaneswar-751024, Odisha, India.

[AFFILIATED TO BPUT, ODISHA]

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ADD ON COURSE _____

STUDENT ATTENDANCE SHEET

19	1801219231	NISHI TIRKEY	Nishi Tirkey	Nishi Tirkey	Nishi Tirkey	Nishi Tirkey
20	1801219232	SMRUTIREKHA MARANDI	Smrutirekha	Smrutirekha	Smrutirekha	Smrutirekha
21	1801219233	SUBHASHREE BIDYASAGAR	Subhashree Bidyasagar		Subhashree Bidyasagar	
Signature of the Course Coordinator			A. Mohapatra	A. Mohapatra	A. Mohapatra	A. Mohapatra


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Certificate of Completion

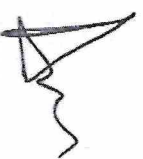
This is to certify that Mr./Ms. DAVID HANSDAH, student of the Department


of Electronics & Telecommunication Engg. semester Third bearing registration number 1801219042

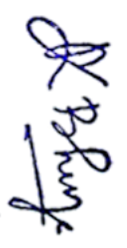
has successfully completed the ADD-ON Course titled PCB Design

conducted at College of Engineering Bhubaneswar in the academic year 2019-20

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Course-Coordinator


Principal


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Certificate of Completion

This is to certify that Mr./Ms. ASHISH KUMAR PARIDA, student of the Department

of Electronics & Telecommunication Engg. semester Third bearing registration number 1801219018

has successfully completed the ADD-ON Course titled PCB Design

conducted at College of Engineering Bhubaneswar in the academic year 2019-20

Course-Coordinator

Principal

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Certificate of Completion

This is to certify that Mr./Ms. ASIF KHAN, student of the Department

of Electronics & Telecommunication Engg. semester Third bearing registration number 1801219021

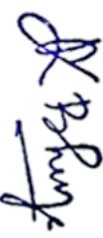
has successfully completed the ADD-ON Course titled PCB Design

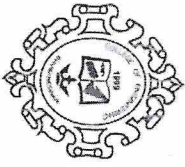
conducted at College of Engineering Bhubaneswar in the academic year 2019-20

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Course-Coordinator


Principal


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Certificate of Completion

This is to certify that Mr./Ms. JITU MISTRY, student of the Department

of Electronics & Telecommunication Engg. semester Third bearing registration number 1801219062

has successfully completed the ADD-ON Course titled PCB Design

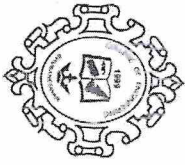
conducted at College of Engineering Bhubaneswar in the academic year 2019-20

Course-Coordinator

Principal

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Certificate of Completion

This is to certify that Mr./Ms. MANORANJAN SAHOO, student of the Department

of Electronics & Telecommunication Engg. semester Third bearing registration number 1801219079

has successfully completed the ADD-ON Course titled PCB Design

conducted at College of Engineering Bhubaneswar in the academic year 2019-20

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Course-Coordinator

Principal

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