

**A**  
**Report**  
**On**  
**Two Days Workshop on “PCB and circuit Designing 16”**  
**Organized by S.O.S. in Electronics & Photonics in**  
**association with**  
**Robo Tech India Pvt. Lmtd. In Wissenaire with IIT**  
**Bhubaneswar**  
**On 4th & 5th March, 2016**  
**At**  
**Pt. Ravishankar Shukla University,**  
**Raipur**

The S.O.S. in Electronics & Photonics department arranges the various kinds of Workshops on continuous basis to enhance student's practical & technical skill and to make them compatible with industry. To fulfill departmental goal and industry need S.O.S. in Electronics & Photonics department has organized "A workshop on "PCB and Circuit Designing'16" Presented by Robo Tech India Pvt. Ltd. In Wissenaire with IIT Bhubaneswar , in which knowledge of "How the PCB Designing is done in industry?" was given to the various college students during 4<sup>th</sup> March 2016 to 5<sup>th</sup> March 2016.

PCB Designing is one of most emerging field in Electronics in today's era. For the students of Electronics this is a good field to start their career.PCB designers are key persons in research and development (R&D), electronics production units as well as in the PCB industry. The workshop was aimed to provide knowledge about simulation tool to test electronics & electrical circuit in software environment, PCB design software named Cad soft EAGLE & to make physical PCB at home so that any student can make project on his own. Almost 60 students from colleges have participated in the workshop.

Event was started by the informative and motivational talk to have a healthy "PCB Designing Workshop". The workshop started with an inaugural function at 11:00 A.M. on 4th March, 2016. The HOD Electronics Dr. Kavita Thakur welcomed Prof. Bhagel (HOD Physics), Prof. R. C. Agrawal, Dr. S Tiwari , and Trainers of Robo Tech India Pvt Ltd Mr. Summit Vashishtha & Mr. Abhishek , Students and faculties for the workshop.



Inauguration Ceremony on 4<sup>th</sup> March 2016

Following content are covered in workshop:

- (1) Schematic Design
- (2) Component Footprint Design
- (3) Integrated Library Design
- (4) PCB Design & Routing
- (5) Itching of PCB

Mr. Summit Vashishtha & Mr. Abhishek have coordinated & executed 2-days of PCB Design workshop appreciably to make it a successful workshop to enhance student's skill level. After attending this workshop students are capable of Designing Special purpose PCB Of any Electronics Project. This project will helpful for students for circuit development of their final year project. Total 59 students in 13 groups Participated in Competition.



Speech by Dr. Sanjay Tiwari Sir on PCB Designing

The duration of this workshop will be two consecutive days, with seven hour session each day in a total of fourteen hours properly divided into theory and hands on sessions. At the end of this workshop, a small competition will be organized among the participating students and winners will be awarded with a Merit Certificate.

On 4th March, 2016, the first session of expert talk started at 12:00 A.M by Mr. Summit Vashishtha . He started with introduction of PCB Designing, Benefits of the workshop and its applications. He explained Schematic Design of Circuit on software Cadsoft EAGLE, benefits of using Cadsoft EAGLE, and pointers to make precise schematic design.



Key information about PCB designing by Mr. Summit Vashishtha

The second session of expert talk started at 2:00 P.M. by Mr.Summit Vashishtha. He explained PCB layout Design of Circuit on software Cadsoft EAGLE, and pointers to make precise PCB layout design. The afternoon session of Hands-on started at 3:30. P.M., where the participants provided with laboratory sessions on Schematic design & PCB layout design on Cad soft EAGLE. The participants also tried various demo circuits provided by Mr. Summit Vashishtha. Session ends by 6:00.

On 5th March 2016, The First session of expert talk started at 9:30 A.M. by Mr. Abhinash. He gave introduction of Simulation Environment. He also explain various simulation circuits. The second session of expert talk started at 11:30 A.M. by Mr. Sumt Vashishtha. He explained PCB making procedure & do's and don'ts of making PCB. He also explain various circuits which can be used often by students and motivates students to keep designing such circuits.



### Questionnaire during Workshop

The afternoon session of Hands-on started at 2:00. P.M., where the participants provided with laboratory sessions where they are provided with tools to make PCBs. Small competition held among 13 group named Lakhshay , Achiever , Alpha , Udaan , Orbit , Electronicstar , APJ , Rockstar , Rungta , Mats , Aasma , etc. And the winning groups are 1<sup>st</sup> **Lakhshay** , 2<sup>nd</sup> **Udaan** , 3<sup>rd</sup> **MATS** group. At the last day question answer session and certificate distribution function started on 5:00 PM. Feedbacks regarding workshop are provided by various students. Almost 60 students had taken part in the workshop. All the students responded that they have learned and had hands on experience in designing a PCB. They are very excited in participation in this workshop and requested for more workshops in similar way so that they can simultaneously gain the practical knowledge.



Prize Distribution Ceremony

Vice Chancellor Dr. S K. Pandey awarded 1<sup>st</sup> , 2<sup>nd</sup> , 3<sup>rd</sup> certificates to all the students by hand. He personally congratulated every student for participating in the event and making it successful. Rest of the students was awarded with a participation certificate from the HOD Electronics Dr. Kavita Thakur.



The vote of thanks & concluding speech to motivate the student to participate in such workshop was given by beloved HOD of Electronics Department Dr. Kavita Thakur. She thanked every student for their active participation and interest in participating in the workshop and mentioned about the activities conducted in the college by the department. She promised that department will continue its assistance in conducting these sorts of workshops and seminars in future.

He thanked the technical support given by Robo Tech Pvt. Ltd. She personally felt very happy for the response of the company and satisfied with the way they conducted the workshop.

She mentioned about the marvelous support given by the Vice Chancellor Dr. S K. Pandey and the department in conducting these workshops. She also thanked for the personal interest taken by him in encouraging the department in all aspects.



Vote of Thanks by Dr. Kavita Thakur