

**K. K. Wagh Institute of Engineering Education & Research, Nashik**

**Department: Electronics & Telecommunication**

**Project based learning**

**Objectives of project based learning are**

1. To improve technical skills in students like Circuit Designing, Circuit testing (Hardware, software), troubleshooting and Programming etc.
2. To improve soft skills in students like Communication skills , Presentation , Report writing etc
3. To improve following abilities in students like critical thinking, communication and cooperation in students

Project based learning activity is carried out for following subjects.

**A.Y.2018-19 Sem II**

Sr. No	Name of Course	PO and PEO mapping of the activity	Name of the Faculty
1.	Integrated Circuits	PO9,PO10,PO11,PO12, PEO1,PEO 3	S. P. Munot , S. A. Karpe
2.	Analog Communication		D. C. Shimpi, S.V. Shelke
3.	Object Oriented Programming		V. R. Lele D. D. Khartad

**A.Y.2018-19 Sem I**

Sr. No	Name of Course	PO and PEO mapping of the activity	Staff
1.	VLSI Design & Technology	PO9,PO10,PO11,PO12, PEO1,PEO 3	Dr.S.A.Patil, M.P.Joshi K.N.Kumari
2.	Electronic Measuring Instruments and Tools		S. A. Karpe S.V.Bhokare
3.	Digital Electronics		R.R.Khinde S. V. Shelke
4.	Electronics System Design		R.V.Chothe S.S.Ansari

A.Y.2017-18 Sem I

Sr. No	Name of Course	PO and PEO mapping of the activity	Staff
1.	Integrated Circuits	PO9,PO10,PO11,PO12, PEO1,PEO 3	S. A. Karpe

A.Y.2016-17 Sem I

Sr. No	Name of Course	PO and PEO mapping of the activity	Staff
1.	Integrated Circuits	PO9,PO10,PO11,PO12, PEO1,PEO 3	S. S.Bhabad

**Impact of the activity:**

Project based learning activity improved technical skills in students like circuit designing, circuit testing (hardware, software), troubleshooting and programming etc.

This activity also enhances soft skills in students like communication skills, teamwork, leadership, presentation, report writing etc.

The activity is useful to improve student's abilities like critical thinking, communication and cooperation etc. Students are agreeing that this experience will be useful to them in their career.

**K. K. Wagh Institute of Engineering Education & Research, Nashik**  
**Department: Electronics & Telecommunication**  
**Report of Project based learning exhibition**  
**A.Y.2019-20 SEM I**

Department of Electronics and Telecommunication department organized project based learning exhibition on 5<sup>th</sup> Oct 2019 from 11.00 am to 3.00 pm.

Along with regular studies students of SE, TE, BE are implementing innovative ideas as a micro, mini projects. Students select topics and discuss it with their teachers. Required resources are provided by department like components, circuit simulation software's PCB lab, reference books etc.

Students design, simulate, test and implement projects in laboratories. Students prepare technical report of the project and give presentation of their project. Assessment of the project is done by the faculty members based on criteria like topic selection, design of the circuit, implementation, understanding of the concept, result and conclusion etc. Project based learning exhibition is organized to provide the students with a platform to showcase their talent. Students are also motivated to prepare electronics hobby projects and present it during exhibition.

Around 36 micro and mini projects done by second, third and fourth year students were presented in exhibition. Second year students have done projects under subject digital electronics and Data structure and applications. Third year students have done projects under subject electronics system design, project done by fourth year students are from the subject IOT. Electronics hobby projects done by students were presented in open category.

**Impact of the activity:**

Project based learning activity improved technical skills in students like circuit designing, circuit testing (hardware, software), troubleshooting and programming etc.

This activity also enhances soft skills in students like communication skills, teamwork, leadership, presentation, report writing etc.

The activity is useful to improve student's abilities like critical thinking, communication and cooperation etc. Students are agreeing that this experience will be useful to them in their career.

**Photographs of event**



## **Report of Project based learning exhibition**

**A.Y.2018-19 SEM I**

Project based learning exhibition is organized by Electronics & Telecommunication department on 13<sup>th</sup> Oct 2018 from 11.00 am to 2.00 pm.

Objectives of project based learning are

4. To improves technical skills in students like Circuit Designing, Circuit testing (Hardware, software), troubleshooting and Programming etc.
5. To improve soft skills in students like Communication skills , Presentation , Report writing etc
6. To improve following abilities in students like critical thinking, communication and cooperation in students

Around 50 micro and mini projects done by second, third and fourth year students were presented in exhibition. Second year students have done projects under subject digital electronics and electronics test and measuring instruments. Third year students have done projects under subject electronics system design , project done by fourth year students are form the subject VLSI design and technology.

Electronics hobby projects done by students were presented in open category. Major projects done by PG students are also kept in exhibition, there were 8 such projects.

Mr. Akshay Kulkarni from Crompton Greaves, Nashik ,Ms. Dipika Pawar from Motwane Pvt.Ltd, Ms. Surbhi Jalori from Emerson, Nashik and Mr. Rahul Patil are the experts from industry who was invited for inauguration and evaluation of projects. Dr. D.M. Chandwadkar H.O.D. E&TC and ELTX motivated students to design more innovative and application specific projects.

Photographs of event











**K. K. Wagh Institute of Engineering Education & Research, Nashik**

**Department: Electronics & Telecommunication**

**Report of Project based learning exhibition**

**A.Y.2018-19 SEM: II**

Project based learning exhibition is organized by Electronics & Telecommunication department on 5<sup>th</sup> April 2019 from 11.00 am to 2.00 pm.

Objectives of project based learning are

7. To improves technical skills in students like Circuit Designing, Circuit testing (Hardware, software), troubleshooting and Programming etc.
8. To improve soft skills in students like Communication skills , Presentation , Report writing etc
9. This approach gives students a relevant learning experience and encourages the transfer of knowledge to new situations.
10. To improve following abilities in students like critical thinking, communication and cooperation in students

Around 32 micro and mini projects done by second and third year students were presented in exhibition. Second year students have done projects under subject Integrated Circuits, Analog Communication and Object oriented Programming. Third year students have done projects under subject Employability Skills and Mini Project. Electronics hobby projects done by students were presented in open category.

Ms. Sawmya Rao, Configurator & Software Tester at FinIQ Nashik, Ms. Mitali Sharma, System Engineer at EMERSON Nashik are the experts from industry who was invited for inauguration and evaluation of projects. Dr. D.M. Chandwadkar H.O.D. E&TC and ELTX motivated students to design more innovative and application specific projects. Ms. Sawmya Rao, who was university topper, explained importance of technical skills in industry and how these activities are useful to develop those skills. Ms. Mitali Sharma Congratulated winners and wish them success and best wishes for their future.

**Photographs of event**







