PANIMALAR ENGINEERING COLLEGE
AICTE-IDEA LAB

Venue: Panimalar Engineering college, Bangalore Trunk Road, Poonamallee, Chennai
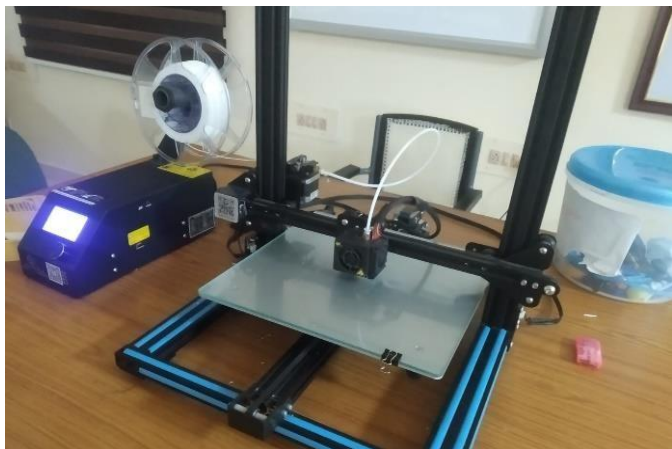

PEC-AICTE-IDEA LAB REPORT

PANIMALAR ENGINEERING COLLEGE PEC- AICTE-IDEA LAB

PEC-AICTE-IDEA LAB is used to set up, equip and network co-creative centres to support students to generate, develop and commercialize their innovative ideas through entrepreneurship or open innovation. And to foster student entrepreneurship and start-up creation at university settings by improving infrastructure, entrepreneurship culture and skills.

It is created in a way to give benefits to motivates students and researches to actively use their intellectual potential generate novel ideas. Our institution enables PEC-AICTE IDEA lab in the order to provide a common platform for the students and researchers having instinctive ideas and creative potentials. IDEA lab will provide an ambient environment with latest hardware and software, training, mentoring and networking software support for the dissemination of knowledge and develops ones analytical and critical thinking and problem-solving skillset.

The vision of the PEC-AICTE-IDEA LAB is to create a platform to experiment with ideas for qualitative change in the life within town and proximity rural areas to foster the "Make in India" movement of the nation, is to develop the human life of individuals who sharing knowledge, ideas, and technology to establish people of all ages, is to create a reference Centre focused on the development and rapid prototyping of the design projects for technological transformation and innovation and to assist the learning process based on the modern trends required by the industry and the market.

INAUGURATION OF AICTE-IDEA LAB

Due to this benefits your institution is planned to set up a IDEA lab in their campus. So that in the November 18th 2022 a PEC-AICTE IDEA LABis inauguration by the **Mr. M. Sundaresan**(AICTE-Southern Regional Office (SRO), Chennai). Along with honorable secretary and correspondent of this institution **Dr**. **P. Chinnadurai, M.A., Ph.D.,** and with directors **Mrs. C. Vijayarajeswari**, **Dr. C. Sakthikumar,** M.E., Ph.D., and **Dr. Saranyasreesakthikumar**B,E., MBA., Ph.D.,.

In the inauguration ceremony student from this institute are gathered in the auditorium. The principal **Dr.K.ManiM.E., Ph.D.,** give the welcome speech and then the directors and HOD are describe the objective and vision aboutthe idea lab and then correspondent **Dr. P. Chinnadurai, M.A.,Ph.D.,**and **Mr. M. Sundaresan**(AICTE-Southern Regional Office (SRO), Chennai) give his speech after this ceremony the members are cut the ribbon in the AICTE IDEA LAB and they inspected the lab.
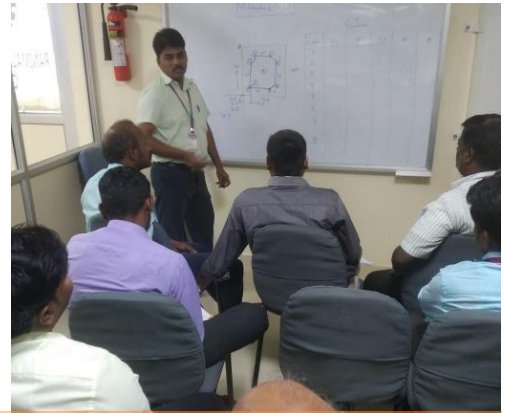

After the inauguration ceremony the student are explored their innovative idea to the chief guest. The guest are glad on seeing the student project. There contains the student project from the various department. It involves CNC, EEE student project, mechanical student project, 3d printer, ECE and AI&DS student project. They explained their creativity to the guest and the conversation is carried in interactiveways.

EVENTS IN AICTE-IDEA LAB

One week workshop on subtractive manufacturing by staff

At first one week workshop on subtractive manufacturing. In the subtractive manufacturing, one of its type CNC is taken there both CNC turning and CNC milling are teached to the panimalar engineering college mechanical staff which is carried out in hand-off workshop in that workshop both software and hardware topic on the CNC. This event is conducted in the PEC-AICTE IDEA lab from to . This event is conducted by a mechanicalstaff.

One week workshop on additive manufacturing

Then the another type of manufacturing named additive manufacturing is conduced to the students by staff to the mechanical students. The staff trained them as a trainer so that the upcoming events are going to be conducted by them. So that, no staff are not involved for that workshop then students going to conducted workshop.

One week workshop on additive manufacturing to panimalar polytechnic college
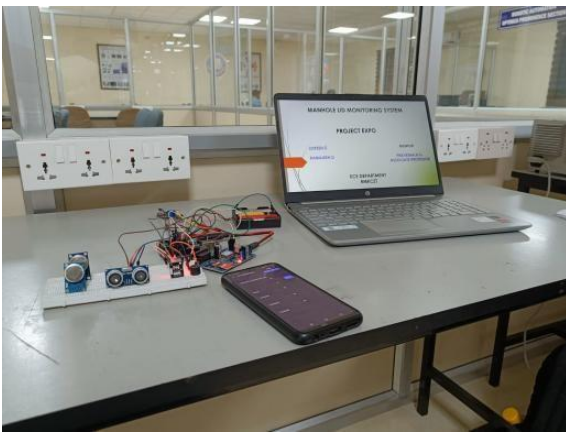
As discussed earlier, the students who are get training from the staff they conducted one week workshop is conducted in that workshop the equipment in the **PEC-AICTE IDEA LAB** is taken as the topic for the workshop to the **panimalar polytechnic college** student from all department it involves mechanical engineering, EEE, and ECE. In that CNC and 3d printing topic are covered. There are about 200 students are participated in that event. This event is

One week workshop on 3D printing conducted by the students (trainer)

A one week workshop on additive manufacturing are conducted to the various department such as mechanical engineering, electrical and electronic engineering and electronic and communication engineering are involved in that workshop. Every department has one week for that workshop, then the alternative week arranged to all department. This event is totally conducted by the students there a designing software (Fusion 360) and slicing software(cura).

In enhance the student's creativity and increase the innovation of the student idea, the project expo is conducted in the PEC-AICTE IDEA lab is conducted their final project of the student from all department are put their project in the expo. Then the projects are incepted then the best project are gifted with the cash price.
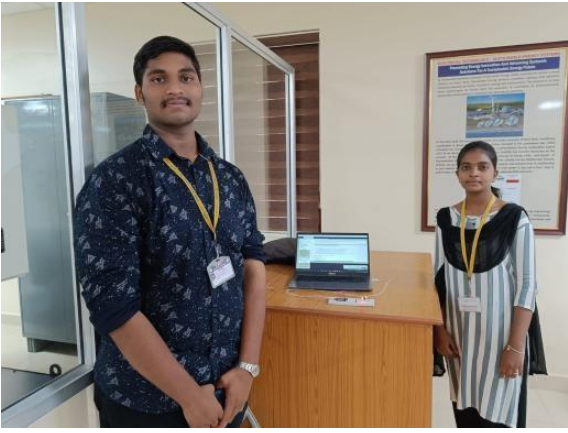
Projects done

The students of your students are use the PEC-AICTE IDEA LAB to do their projects. Their working place and the hardware and software was given to the student to finish the projects. The student of EEE department are doing their project e vehicle in the lab and there are many student are doing their project in the lab.

Ennvo contest

A national level technical symposium which named ennvo is conducted in the PEC-AICTE IDEA LAB in that event there are many events are conducted in the idea lab. In that event is also conducted by the student by the instruction of the respective faculty. In this event students from the various college are participated. The winner and runner from each event are recognized by the cash price and then the participate certificate is given to all the participate and winner certificate is also provided.

For the ennvo contest, the reverse engineering contest is conducted by the mechanical engineering students. The concept of this contest is to finished component is redesign with this own dimension. In this contest a printer component is given to the students, this component has to be redesign and it is 3D printer it is valuated in a way who design this with more accurate. The winner are awarded with cash price.

PEC- AICTE IDEA LAB ENNOVA CONTEST PRIZE DISTRIBUTION

S.NO	NAME OF THE EVENT	NAME OF THE STUDENT	COLLEGE NAME	WINNER/ RUNNER
1	CODE TO BUILD	Mr.K.Jagadeesh	PANIMALAR INSTITUTE OF TECHNOLOGY	WINNER
		Mr.R.SHarrisN arayanen		
		Mr.P.Sreejith	S.A ENGINEERING COLLEGE	RUNNER
		Mr.S.Lokesh		
2	WEBSITE DESIGN	Mr.DineshKumaran	Bishop Heber College	WINNER
		Ms.M.Mahalakshmi	AVC College of Engineering	RUNNER
3	DEMO TALK	Mr.D.KamaleshMr .C.Lokesh	RMK ENGINEERING COLLEGE	WINNER
		Mr.A.Thendral	RMK ENGINEERING COLLEGE	RUNNER
		Mr.V.Srisha		
4	REVERSE ENGINEERING	Mr.Tanush Kumar Mr.DharaniDharan	CHENNAI INSTITUTE OF TECH	WINNER
		Mr.SaiSiddharth	ESWARI ENGINEERING COLLEGE	RUNNER
5	CircuitRix	Ms.K.ThirishaMs.V. Vishnupriya Ms.P.Shalani	Rajalakshmi Institute of techonology	WINNER
		Mr.K.S.Kathiravan	Agni College of Engineering	RUNNER
		Mr.P.Babu		
		Ms.SafrinNootjahan		
6	COLOSSUS	Ms.MaanesaM s.Srisha	RMK ENGINEERING COLLEGE	WINNER
		Mr.Suriya Mr.Dinakar	Anand Institute Of Higher Techonology	RUNNER

IDEA LAB FACT

We do patient-oriented research (POR) for all our projects. It's citizen science where everyone does their part to contribute and make the world a betterplace.

PEC-AICTE IDEA LAB ACHIEVEMENT

There are 91 **colleges** which contain AICTE IDEA LAB and PEC-AICTE IDEA LAB has invesment **Rs: 53,54,643/-** of Panimalar Engineering College. PEC-AICTE IDEA LAB has conducted in **261** events and total point achieved with in one year of **3000 above** points.