

Institutional Distinctiveness

Describe the performance of the institution in one area distinctive to its vision, priority, and thrust.

Engineering Projects in Community Service (EPICS) is one of the distinctive characteristic programs at our institution, in collaboration with Purdue University, IUCEE. As a part of vision and mission of our college to produce industry-ready students, we have included EPICS in our institution. A systematic plan is formulated for implementation of EPICS programme. We have formed a team to develop the community problems in our institution. EPICS bring the students and community on the same platform to know the problem and to develop a design to address the problem, which fulfills the needs of the community.

An EPIC is a service-learning design program in which teams of students' partner with local community organizations to fulfill human, community, and environmental needs. It increases the self-efficiency of the students. To build these traits EPICS has started two courses.

1. **Design thinking Course:** This course is designed only for faculty. Faculty gets training and inputs through webinars conducted weekly. The faculty gives inputs to the students. Students have started developing the prototype for different community projects. This course was concluded by November 30 with the successful design of the projects by students with the help of the faculty.
2. **Virtual Labs:** This Course was for both faculty and students. In this course, a detailed description of Remote Laboratory Design and Development was discussed.

In our Institution, we have organized awareness program on EPICS, to the students who are willing to serve the society. In this awareness program, we had talked about how to find a community partner, how to interact and find the problems encountered with people in the community, how to design the prototype and the documentation for the projects.

After this Awareness program, we had organized SODHAYATRA in Chilkur village along with 75 students, in this Sodhayatra, students interacted with community people and have identified some problems that they have. Students have submitted a detailed project report on 19 identified problems, and we have conducted a brainstorming session on these Problems for community people. From these 19 identified problems, we have started to design the prototype for 15 Problems which are of top priority.

Execution of Design thinking course in KG Reddy College of Engineering and Technology:

1. Animal Treatment kit for veterinary Doctor.
2. Secured Digital wallet.
3. High Secured women bracelet.
4. Solar gross Cutter.
5. Smart E-Note Book
6. Candy finder.
7. Performance and Analysis of Solekshaw (Solar-Electric-Auto- Rickshaw)

8. Garage Remainder.
9. Safe Heart.
10. Easy buy Mini laptop.
11. Assessing and Treating The Physio-Chemical Characteristics Of Kitchen Wastewater
By Using Wetlands Technology
12. Hospital maintenance App.
13. Mobile Alert Mode.
14. ParkrLo
15. Mobile Toilet for School students in Chilkur village.
16. Battery Sharing App (still prototype under Design).

These are the Projects we have been designing and implementing in our institution. These are the projects nominated for the competition in ICTIEE-2018 conference.

Set Goals

To encourage the registered faculties to take initiatives in design thinking course and to develop prototypes for mini projects. To plan brainstorming session on Poster designing for International Conference on Transformations in Engineering Education (ICTIEE)-2018 Competition that is designed by the faculty & students. To organize a questionnaire's session with another faculty for the submitted mini projects. To associate with community people to modify the designed prototype according to their need.