



KG Reddy College of Engineering & Technology

Chilkur, Moinabad, RR District

BEST PRACTICE 1

Title: Bridging the Gaps between Academics and Industries

Objectives of the Practice:

1. To fulfill human capital requirements, and bridge the gap between academics and industry.
2. To make the students involved in practical learning to get real-time industrial experience through Maker Space.
3. To enhance industrial interactions of faculty by providing the knowledge on current updates in industry and technology.
4. To share the acquired knowledge from industry interactions with R&D, CEED and share with other faculties and students in the campus.
5. To improve the design-thinking process by conducting various workshops by Maker Space and IUCEE.
6. To make students and faculty learn planning, organizing and time management skills.
7. To encourage faculties to carry out research-oriented work, and improve their technical skills to give better examples and explanation of subjects.

The Context:

An academician shows interest generally in problems that are intellectually challenging. His/her areas of interest lie in technology development initiatives and methods related to process and design improvement. Students face critical situations after they get placement in industry. To address such industry-related issues, students have to explore technical training programs and activities. They have to learn updated technologies.

A support system is needed to ensure a focused involvement of both academics and industry to prepare students for the industry. To execute this plan, our college decided to make students involved in real time practice through Maker Space. To make the assignments more interesting, we follow the method of project-based assignments. By this method, students acquire practical knowledge. To provide hands-on experience, students and faculties are encouraged to attend seminars and workshops.

The Practice:

IOT Maker Space helps to bridge the gap between academics and industries.

Maker Space

IOT Maker Space is a great initiative of Telangana Academy for Skill and Knowledge (TASK) and Hyderabad Software Enterprises Association (HYSEA) promoted to all engineering colleges with an objective of looking into the overall development of a student. It helps the students in gaining technical skills, presentation skills, innovative thinking, and in developing prototypes and to get them ready as future entrepreneurs.

They conduct workshops, hackathons, lectures at the college level and zone level. They invite mentors and jury from industry and academics to validate the ideas and provide further guidance. Besides this, they arrange demonstrations with startup companies to share the experiences and to promote the innovations.

The institution has also registered for IOT Maker Space and is supported by “UPTEC IDEA Labs” as Industry mentor (Implementation Partner). It is a specialized lab with fully equipped facilities.

Execution of Maker Space at our institution

- K.G. Reddy College of Engineering and technology initiated Maker-Space activities at our institution in the year 2016 to develop awareness among students on latest technologies(Raspberry Pi, IOT, Cloud computing)
- With the support of "UPTEC IDEA Labs," as implementation partners conducted orientation, seminars, and workshops in our college.
- According to the guidelines provided by Maker, Space students can complete the mini-projects on their own. This has enhanced their technical and competency skills.
- Students have actively participated in the event "Hackathon." (excite and App development)

Project Based Learning

The institution has implemented this method, to increase the conceptual knowledge and design thinking ability of the students. Mini projects related to subjects are given to students as a part of the assignment. It helps students to develop self-learning, analytical thinking and utilizing their technical skills to enhance their efficiency by working on real-time projects.

Industry interaction Programs:

Industry interaction programs are conducted in the institute to motivate the faculty on research-oriented activities. These programs help them to gain knowledge and update themselves according to the change in technology and demand of industries.

The knowledge gained through Industry Interaction Program by faculty will be shared with other faculty and students to impart new learnings to each other.

Evidence of Success:

Maker space workshops help the students to carry out the mini projects by themselves and students could complete the project. Under the guidance of Maker Space, one of the projects named "SMART CHAIR," has been selected in the Jawaharlal Nehru Technological University Hyderabad EXCITE-2017 in top 20 projects.

Project –Smart Chair:

Now our students are doing the major projects by themselves with the help of workshops conducted by Maker Space.

All the faculties who had industry interaction could successfully share the information with other faculties and students as a mandated practice of KGR CET. By this knowledge sharing, students can complete their project-based assignments effectively.

MOUs

- Visit of industry experts to KGR CET campus and practicing engineers to the Institute for seeking research work and laboratories, discussions and delivering lectures on industrial practices, trends, and experiences.
- Workshops, conferences, and symposia are organized with joint participation of the faculty and the industries.
- UG and PG projects/dissertation work in industries are carried out under the guidance of the faculty and experts from industry.

Problems Encountered and Resources required:

Problems Encountered:

- Sometimes it is difficult to meet the demands and requirements of the industry because the curriculum is not updated from time to time as per the needs of the industries, it is felt while interacting with industry people.
- The resource person is not always available on the campus for the clarification of students and faculties ambiguities.

Resource Required:

- Sanctioning of leave
- Financial support from institute

BEST PRACTICE 2

FINANCIAL ASSISTANCE TO STUDENTS

Objective: To provide financial assistance to the students of K.G. Reddy College of Engineering and Technology for completing their graduation.

The aim is to give a scholarship to the eligible students.

The context: Students are from a diverse background, some of the students are meritorious but not capable of paying the tuition and other fees due to their financial conditions. It is the culture of the institution to support those students to achieve their dreams.

The Practice: Financial assistance is provided to the students based on the following parameters.

- The annual income of the family is taken into consideration to provide a scholarship to the merit students at the time admission.
- The scholarship is renewed based on their academic performances.
- A student from a rural/urban background, preferably nearby villages.
- Achievements -Sports/ Social activities.
- Physically Challenged.

KG Reddy College of Engineering & Technology governing body will take a decision in the selection process based on above-mentioned parameters.

Approval Process: At the starting of academic year college will release scholarship notification. Eligible students could apply for the scholarship with supporting documents as mentioned in the notification. Scholarship notification is displayed on notice board. Eligible students are shortlisted by student's admission section which later is scrutinized and finalized by governing body, and the selected students would be informed through college notice board and website.

Review in Policy of Scholarship is carried by taking feedback from benefited students, heads of the Department, faculties (based on student's performance in academics and Co-curricular activities) and reporting to the governing body.

Evidence of Success: Many numbers of students received those scholarships and completed their degree. The exit feedback from those students indicates the true success of this scholarship program.

Problems Encountered and Resources required: The institution does not face any problem as such to identify those students to provide the scholarships.

A huge fund is required to provide this type of assistance at the college level.