

**Best Practice : 1****1. Title of the Practice**

Outcome based quality enhancement program through course specific mini project.

**2. Objectives of the Practice**

- To develop the institutional culture to engage students and gain more course specific knowledge.
- To maintain a balance between the old paradigm of teaching learning process with application based learning.
- To help teachers benefit from the student feedback and evaluation on teaching methodology and classroom learning process.
- To helps the institution in getting the students' insight on any course with overall potential.
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- To involve students and faculty members in testing and consultancy activities for various organizations.

**3. The Context**

Students are considered as skilled human resources who will take part and contribute to the overall growth and development of business and industry. They are the most important entity who would continuously struggle to develop the frontiers of knowledge. Students' participation in the quality enhancement is viewed as an opportunity where they can participate in its continual development process. It will produce a sense of belongingness towards the Institution and a sense of responsibility for maintaining and protecting the performance excellence of the establishment.

In any educational institute teaching is the core area where efficient handling of the teaching-learning practices can engage the student in some constructive way. Student-friendly teaching learning environment can be created to foster a better learning among students. To accomplish this aim we will provide provision in curriculum to accommodate employability enhancement courses and industry oriented advanced courses satisfying both statutory body requirements and programme specific demands.

**4. The Practice**

- Student Council / Alumni/ Governing Body are consulted on various course specific project/model.

- The Internal Quality Assessment Cell (IQAC) of ODGI organizes alumni participation programmes on regular basis to discuss on various cutting edge technologies which can be included as mini projects.
- ODGI alumni representatives are a part of Board of Studies who shares valuable opinions about projects.

### **5. Evidence of Success**

Success is the most important aspect in any system. It has been observed that the students have shown keen interest in implementing the knowledge based application development. Students are willingly participating in such activities which have given them an opportunity to apply the knowledge gained from curriculum with some practical exposure. Regular feedback has enabled the institution to add value to the existing academic and make it student centric.

### **6. Problems Encountered and Resources Required**

The challenges to adoption and implementation of this practice are in the form of understanding and definition of quality among the students. Students come with varied interests and understanding on quality in academic and administrative practices making it difficult to arrive at a consensus on quality standards. A certain amount of rigidity exists in the classroom teaching and examination processes and students perception of these aspects may act as a limitation in adopting some suggestions.

Resources would be required in terms of time spent on these exercises. Proper adjustment of routine to include sufficient time for mini project is essential. A comprehensive and updated list of alumni profiles tracking their career growth is also an essential resource. This would help the institution invite those that may be instrumental in giving important inputs in the process of quality enhancement. A comprehensive feedback system where students can voice their concerns and rate various academic aspects of the institution is another requirement for earmarking areas for quality improvement.

**Best Practice : 2**

1. **Title of the Practice:** Use of virtual Lab to gain knowledge on fundamental and advanced topic

2. **Objectives of the Practice**

- Remote access to labs in a range of science and engineering areas. Students at all levels of education, including undergraduates, postgraduates, and research experts, would benefit from these Virtual Labs.
- To stimulate students' interest in doing experiments by motivating their curiosity. Through remote experimentation, they will be able to acquire fundamental and complex topics.
- To provide a full Learning Management System focused on the Virtual Labs, where students can access a variety of learning resources, such as extra web resources, video lectures, animated demonstrations, and self-evaluation.

3. **The Context**

- National Mission on Education through Information and Communication Technology, under the Ministry of Human Resource Development (MHRD) of the Government of India has launched the Virtual Labs project (NMEICT).
- We can take practical practice sessions online using Vlab. Through remote experimentation, they will be able to acquire knowledge o fundamental and advanced topics.
- The teacher can explain dynamic programme execution on various inputs.
- All Science and Engineering College students and faculty members who do not have access to good lab facilities and/or tools.

**The Practice:** In laboratory conduction, most of the faculties conducted an experiment of a virtual lab for the students. Students are encouraged in doing experiments through remote PC also so they will be able to utilize their free time efficiently.

**Evidence of Success:** Virtual Lab attendance of students and photos.

**Problems Encountered and Resources Required:**

There are some selected subject wise experiments in the Virtual lab. All the faculty members and students could not able to take the advantage of this lab.