Best practices-1 : Effective use of Virtual Lab

1. Title of the Practice ：   **Effective use of Virtual Lab**

2. Goal

● Remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars.
● To enthuse students to conduct experiments by arousing their curiosity. This would help them in learning basic and advanced concepts through remote experimentation.
● To provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self evaluation.

3. The Context
● Virtual Labs project is an initiative of the Ministry of Human Resource Development (MHRD), Government of India under the aegis of National Mission on Education through Information and Communication Technology (NMEICT).
● Using Vlab we can take the practice session of practical online. This would help them in learning basic and advanced concepts through remote experimentation.
● Teacher can show dynamic execution of programs on different inputs
● All students and Faculty Members of Science and Engineering Colleges who do not have access to good lab-facilities and/or instruments.

4. The Practice:

  In laboratory conduction, Some staff conducted an experiment of a virtual lab for the students.

5. Evidence of Success :

Virtual Lab attendance of students and photos.

 6. Problems Encountered and Resources Required

Virtual Lab Site has given specific subjects Virtual Labs. So every faculty could not be able to take advantage of this lab, if it is not available on the Vlab portal.

Best practices-2 : Youtube Channel Creation

1. Title of the Practice

Youtube Channel Creation

2. Goal
● Remotely access video lectures for faculty
● Change learning style making learning videos on YouTube. Educational programming on YouTube takes on many shapes, forms, and personalities—which means there's something for almost every learner globally.

3. The Context
● Using youtube channels we can share our knowledge like notes, PPT's and other digital material by recording our videos , so that students can access these lectures as they want.
● The goal of these videos could be to inform, or give knowledge of a particular subject to the students as well as this video gives the freedom to students that access these videos .

4. The Practice

Every staff member have already create there youtube channels

Staff have record the video using any recording software

Then staff members upload their videos on youtube channels.

5. Evidence of Success : Staff member youtube channel subscribers and video views .

6. Problems Encountered and Resources Required :

Lack of online learning tools and Increase ICT based learning.

 All time available data on youtube .

for this practice internet connection and video recording software required .

Best practices-3 : Participation and award winning in Competitions and filing patents

Title of the Practice: Participation, filling patents and Winning State and National Level Prizes for Final Year Projects in Various Project Competitions.

Goal: The Insitute aims to select and undergo final year projects which have potential to participate in the competitions like Hackathon, Avishkar and other competitions and to be patented by the students.

The Context: Various National Level and State Level Competitions like Hackathon , Avishkar , are organized by the AICTE and other bodies to boost the innovative ideas and project and to convert it into product.

Practice: The Final Year Project selected by the departments is scrutinized critically by the project review committee formed by the Project co-coordinator. The Potential project which has ability to solve societal problems and ability to increase productivity by using technology are given preference. The potential project ideas are patented every year and are motivated to participate and win the prizes in project competitions like Hackathon, Avishkar and other national and state level competitions.

Evidence of Success: The institute have filled 15+ patents in the last three year.The Smart Onion Planter Project have won 1st prize at Chatra Vishwakarma Award and Hackathon 2019 organized by the AICTE, also 1st prize at Avishkar Project Competition 2019.Smart onion Sorting project has also been the runner up in Avishkar Project Competition and was a participant in Smart India Hackathon 2019. Many other project groups have won cash prizes in many project competitions organized in Nashik, Pune and Nagar regions.

Problem Encountered and Resources required:

Efforts are taken by the Project Co-ordinator, and all the project guides in the selection process and brainstorming is done in selecting the project. The project selected is continuously monitored and the work completed is reviewed by the internal review committee periodically.