Best Practice I

1. Title: ICT based teaching –Learning

2. Objectives:

1) Enhanced teaching learning experience.
2) To allow students and faculty members to participate in e-learning.
3) To make teaching and learning more collaborative and interactive.

3. Context:

Engineering in education has seen major changes over the past few decades. Significant increase in the requirement for high quality education has led to adoption of ICT . ICT (Information and Communication Technology) has become an essential component of the teaching and learning process. As they master new skills and technologies, effective use of technology makes the classroom more energetic, stimulates students, and renews instructor zeal. This would increase the teaching ability of the faculty as facilitators of learning. It promotes the idea of self-learning and helps the students to attain the knowledge. Traditional methods of teaching are found insufficient to generate to contemplation provoking process. Teaching and learning process has developed from being a one-sided activity to a lively process involving exchange of ideas. To make it more collaborative modernized tools and technique are to be utilized.

4. **The Practice:**

Information and communication technology (ICT) centre had started in enhancement of teaching and learning process. ICT appears as a 'bridge' to bridge the gap and help student the learning process. In this digital age, using ICT in the classroom is critical for providing students with opportunities to study and apply what they've learned.

The topic of the syllabus was prepared in power point presentation. Pictures, flowchart, figures and animated figures were included in the PowerPoint presentation to ensure the students can learn the topic more effectively.

- To make the teaching learning process more effectively students are given assignments to prepare the power point presentations.

- The college recommended multimedia material development for teachers and various active learning approaches such as learning by doing, presentation of topic, work in a team and task solving.
- A problem assigned for a team of students that helps students to improve leadership skills, creative skills or techniques and sharing of knowledge.
- Training programs are conducted for the faculty and students.

5. Evidence of Success:

Information and communication Technology is playing a vital role in education. ICT can make teaching and learning process more effective and easier. Students are performing better using ICT tools rather than chalk and board method teaching. Faculty members began to provide more guidance to students regarding the learning materials available on the internet, such as e-journals & e-magazines which are beneficial to students in gaining topic knowledge. The approaches used in ACET are

I. E class room teaching: Using ppt material faculty uses LCD to teach the topic. Students can learn more effectively. Using web-access students can gain more knowledge in depth.

II. Learning by doing: It is one important guide in teaching learning process. Normally student listening the class physically, but here students handle the concepts or tasks individually or by team that helps enhance their skill and knowledge.

III. Team work: The students will be given task work as a team. Students share their ideas and thoughts to solve the task. Students actively participate that helps to develop communication.

IV. Seminar /Presentation: Topic will be given to students from the syllabus. Every week a batch students present their topic in the class room. That helps them understand the topic more precisely.

V. Career oriented approach: This method helps to get motivated, inspires towards their goal. Students will get motivation from the faculty, experts from industry.

VI. Every year 4 workshops are conducted to new students and new faculty.

VII. The faculty and students are registered and completed NPTEL courses.

6. **Problems encountered:**

- Most of the students studying in college coming from rural background.
- Some of the faculties are hesitant to adopt the new technology. Training programmes conduct that helps the faculty to overcome the difficulties.
- In starting stages it is difficult for students to change from the traditional method but they adopted ICT very fastly.
- Good internet connectivity. ACET management provides good internet speed.

Best Practice 2:

Title: Student Centric approach

Objectives:

- To create real time learning experience to the students.
- To create platform for students for industry experience.
- To enhance learning experience of students beyond the syllabus.
- To link the gap between the industry and academic.
- To encourage pupils to pursue holistic growth.

Context:

Delivering new knowledge to students is a necessity of the day. For any college to start and thrive it must be student centered, welcoming, helpful, innovative, and follow best practices. To construct a realistic industry simulation that allows students to study in real time. Student centric approach is self learning, beyond class room. ACET have designed student centric practices to overcome the gap between education and industry needs that helps increases employability.

The practice:

The traditional method of teaching involves students sitting silently and listening to the class, where the teacher gives knowledge and wisdom to students and they enhance their knowledge and skills. Student-centered approach where the instruction transfer from teacher to student. The main objective is students learn the subject individually and takes the responsibility of learning. This approach help students to develop skills required for problem solving in subject and their carrier. Each student has unique talent and skills. Student centric learning approach is personalized, connected learning that will help every student improve critical thinking, problem solving that contribute the society. This approach is not classroom based.

Evidence of success

Regular orientation with parents: ACET has open door policy where parents can met the class teacher, head of the department and the principal of the college to discuss or to know the progress of the students. ACET constantly monitors the progress of students academically and information is given to parent constantly.Every year college conducts regular parent interaction meeting starting from the academic year.

SNO	Academic year	Course	No of attendees
01	2016-17	B.Tech	450
02	2015-16	B.Tech	300
03	2014-15	B.Tech	200

Enhance teaching learning process:

Remedial classes are conducted to slow learners. Advance skill development for fast learners. To improve the English speaking of students we conduct classes'-content will be made available to students.

Industry skills: To meet the industrial needs skill development programs are conducted. To enhance the skill development.

Entrepreneurship training programmes: Students will be given opportunity to exhibit the technical ideas, innovative proposals.

Interaction with industry experts: Experts from various organizations share their knowledge to students that helps them to know the global market requirements.

Technical symposium or workshops: workshops are conducted twice a year that helps to enhance the student knowledge levels, students will be given financially support for participating off campus also.

6. **Problems encountered:**

- An industry professional who has to deliver the lecture cancel the lecture at last minute. It is difficult to replace the person. Our management invites more speakers from the industry.

- Most of the students are from rural background. Adopting new skills is difficult task. The faculty motivates them and trains them accordingly.