SIDDARTHA INSTITUTE OF SCIENCE AND TECHNOLOGY: PUTTUR (AUTONOMOUS)

(Approved by AICTE, New Delhi, Affiliated to JNTUA, Ananthapuramu)
(Accredited by NBA for EEE, MECH, ECE & CSE and Accredited by NAAC with 'A' Grade)
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Best Practices (2020-21)

1. **Usage of ICT Tools**
2. **Establishment of IIC**

Usage of ICT Tools:

Our Institution focuses on advanced teaching learning process to enable the students and faculties to get through technological advancements for academic process. Using ICT tools in academics not only goes updating with the technology but also using it according to the stream such that the employees of the institution and students are technically equipped. The Institution particularly gives attention to go with the flow of technological advancements and requirements. Even though remote learning was essential due to the pandemic situation, our institution has a special role in that it should reach even students from urban areas to ensure quality instruction. For instance, when they are unable to connect over online platform due to network issues the related videos to the concept will be sent for preparation. Further, students who missed the class will be monitored and contacted for attending regularly. Overall, ICT is used by this institution to reach the students throughout their learning process.

Objectives of the Practice:

➢ To streamline the educational process in remote classes.

➢ To conduct online classes with the use of ICT teaching methods

➢ To utilize the technology for performing everyday tasks like grading and attendance.

➢ To evaluate students through online quizzes and assignments.

The Practice: The certainty of online classes during pandemic situations has been carried out under the implementation of using IC Tools effectively and actively for teaching and learning. Online pedagogies were adopted in teaching and assisted the students in covering the syllabus. Online timetable for running the classes under the online platform for forty minutes has been done. A Group has been created in what's App to connect with all the students at any time to

share the learning materials and handouts. Both students and faculty learned by using the tools for practice. For example, classes through online was practiced for connecting all the students in one platform after trying all the other platforms like Google Meet and other applications. The connectivity problems have been assisted and for further complications what's App Group was highly useful to bridge the gap of connectivity issues. Dissemination of ppts, video lectures through Google Classroom and what's App application was successful. Conducting Online Quizzes, tests and assignments were made effectively to engage the students in learning. Taking classes through PowerPoint presentations in the classes were helpful in sharing the content through slides. Each and every chapter was made for the slideshow and became prerequisites for teaching. Attendance has been recorded for each and every class regularly. Practice of syllabus and assessment has been done with conducting quizzes through Google Forms. These practices have improved the usage of ICT tools among the students and faculty as well.

Obstacles faced if any and strategies adopted to overcome them

> ➢ Internet connectivity is the major obstacle as many of the students and faculty are located in the rural areas.
> ➢ Poor connection during classes with technical issues
> ➢ Preparation and distribution of materials required a lot of effort and time taken by the staff.

Strategies Adopted: Audio visual lectures were sent to the students to overcome poor network connection for live class. Supported YouTube videos related to the content were sent as handouts. Virtual seminars, online quizzes were created to encourage and engage the students towards learning. Handouts of power point contents have been shared for each chapter for easy learning. Quizzes and Assignments have been circulated for student's assessment. Written assignments have been given and evaluation has been done through online when students shared the work done images. Staffs have undergone the digital creation of content pertaining to his/her subject with lot of efforts to update from traditional chalk talk method.

Impact of the practice: Any new learning has an impact on the learners and obstacles will be quite common. In a pandemic situation, digital learning has become a necessity, and impact of such a practice has its pros and cons. This practice has spread more usage of ICT Tools among the students. Online courses and NPTEL courses were known to learn the things and improved self-learning. Education and learning was more feasible through this practice. Even though the remote learning has driven the indolence of students at home, it is quite unpleasant for the

students as well as faculty to accept the sudden change. Creativity, learning through various resources, problem solving skills was improved.

Resources required

> ➢ ICT tools like mobile, laptop and computers were made necessary resources.
> ➢ Internet facility, learning applications (Apps) installation was required.
> ➢ All the necessary digital sources support required to enhance learning.

Establishment of IIC:

The Institutions Innovation Council was established to create an innovation culture in the Institution. The Institution has formed a cell to bring about the activities in accordance with MHRD Innovation cell (MIC) to incorporate and carry the creativity among the students.

Objectives of the Practice:
> ➢ To encourage and support the young minds idea and transform them into exemplars.
> ➢ To get the benefit of the core of learning through innovation activities.
> ➢ To acquire skills in enhanced learning and gaining knowledge from innovation.

The Practice

The main component of the IIC Team formation is to establish ecosystem of Innovation, Start-up and Entrepreneurship in the Institutions. If the practice has been initiated from the entry level of the students in Engineering College, the holistic, essence of learning takes place and this practice transforms the Engineering students towards a phenomenal achievement towards the society. This practice has been initiated in creating awareness about the Innovative council and its importance. This result in National seminar and on the event of "World Entrepreneurs Day" Celebration the substance of the cell has reached the students and faculty after listening to the talk of the resource expert. The functions of IIC are as follows:

IIC Calendar Activities: This promotes the benefit in terms of learning, Skill and Knowledge through creating awareness for the faculty as well as students of this Institution.

IIC Council Meeting: Review of progress in the meeting and to establish the council activities.

World Entrepreneurs Day celebration: It makes to know the importance of Entrepreneurship and its value right from the college education.

Innovation Cell: It promotes the innovative ideas through various sessions enabling the students to make understand the real essence of innovation and activate them through the innovation cell activities.

Activities of IIC: Various activities like workshops, webinars

Intellectual Property Cell: As part of various expert sessions regarding Intellectual Property and Rights, it creates and promotes understanding among the faculty and students about approaches and practices in this field.

Obstacles faced if any and strategies adopted to overcome them

As Institution Innovative Council (IIC) is one of the important cells in the Institution, the formation of IIC needs funds to create awareness. As the Institution situated in rural background, it is difficult to bring out the students to engage in activities despite their natural inhibition, reticence and hesitation. Students fear to come forward to participate in these activities as they stick around academic progress and rote learning. Making them motivated and identifying them towards achievement is a mammoth task.

Strategies Adopted

Motivating the students towards IIC activities needs a lot of expert lecture's motivation, video lectures, giving them success stories of reputed entrepreneurs, going to the level of the students and bringing them towards achievement needs a lot of effort both from the management side and faculty as well. Creating awareness of how Government of India supports IIC activities and making them to understand the importance of IIC is one the main strategies adopted by the Institute to make this into practice.

Impact of the practice

➢ Numbers of events/ activities were organized by the four wings of IIC. The IIC provides awareness programs that meet both the needs of students and faculty entrepreneurs, resulting in innovative ideas of social relevance.

➢ IIC has been able to provide the required inputs that enable the students and faculty to create and develop their ideas.

➢ IC students and faculty were engaged in a variety of innovation-related initiatives and sessions, from the institution to the International level**.**