

INSTITUTIONAL BEST PRACTICE-1

1. Title of the Best Practice: Digital literacy enhancement in Academics

2. Objectives of the Practice

Possessing adequate digital literacy skills and embracing web-based techniques to ensure continuity in the process of teaching and learning thus make education accessible without the obstacles created by the Covid-19 virus.

3. The Context

The huge challenge was to assure that Teaching, Non teaching faculty and students are equipped with adequate technological facility and knowledge to go for online classes.

4. The Practice

Online classes were conducted through Google Meet and Zoom platforms. The entire college was made Wifi accessible, Google classroom and Zoom were extensively used to conduct online lectures, share resources and conduct internal exams and assignments.

Training for ICT skills: Since the technology is new for several teachers therefore the staff attended webinars as well as FDP.

Developing innovative teaching pedagogies appropriate for online mode: Pedagogy was mainly participative with a focus on students engaging in group projects and giving powerpoint presentations, as well as discussions and other activities. Besides online lectures, teachers used Powerpoint presentations, lecture recordings, uploading on Google drive, and Audio/video aids. Google Forms were used for taking feedback. All webinars, FDPs, workshops, exams, outreach programmes, Awareness programmes, pledge sessions had been virtual and conducted through ICT.

Providing learning resources (recorded videos, e-books, assignments, quizzes, internal assessment, student projects, virtual labs, seminar presentations) through Google classrooms and making it available to students.

5. Evidence of Success

Despite the fact that the face-to-face interaction of physical classes cannot be replicated in the online perspective, The College response to the pandemic was suitable given the circumstances. Faculty members used several ICT tools such as Google classroom, through Zoom, Google meet; Go to Meeting, WebEx, Microsoft Teams, Jam board, OneNote, whiteboard, Quizzes.com, Virtual Labs, to conduct online classes, and internal evaluations.

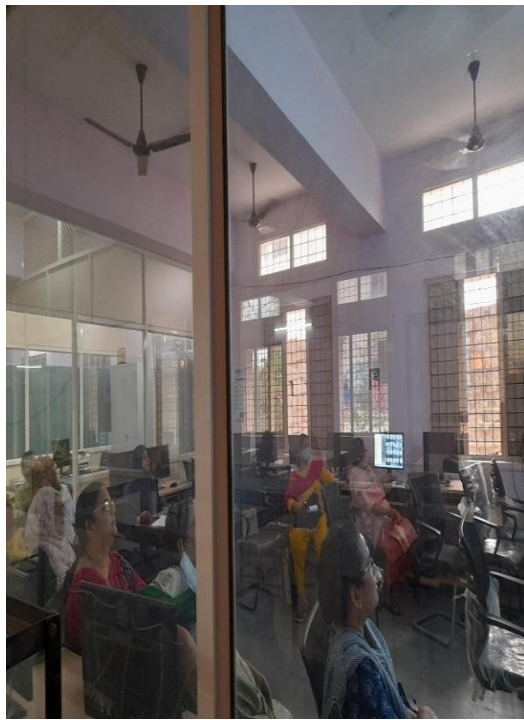
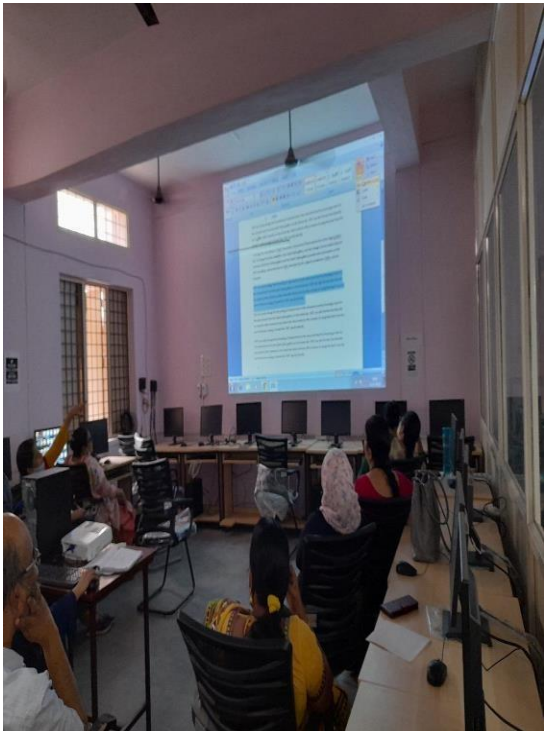
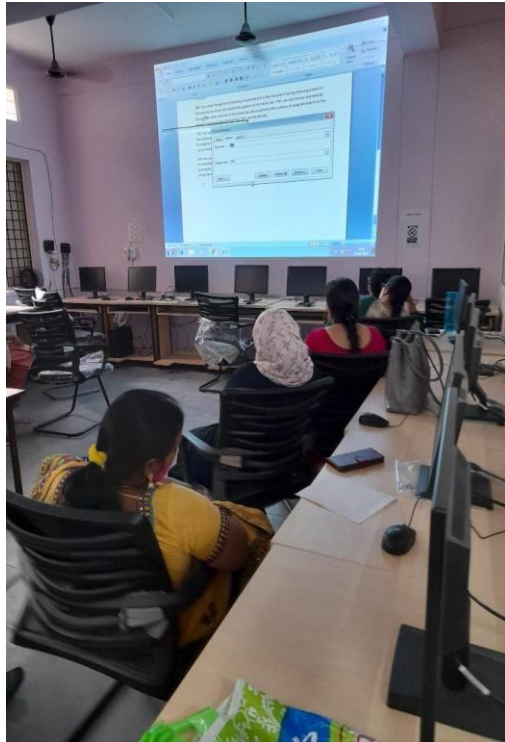
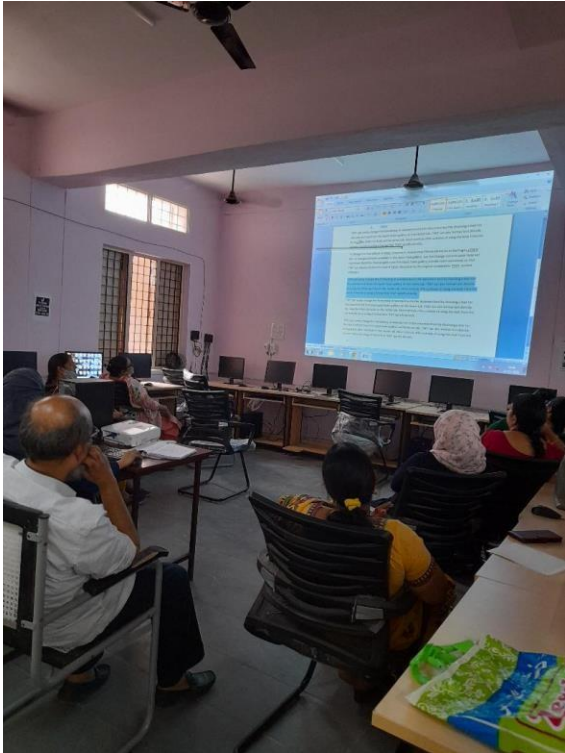
6. Problems Encountered

Online teaching-learning is detrimental to our physical and emotional wellness and expensive, subject to the availability of the Internet. Infrastructural problems & technical issues encountered both by teachers and students

7. Resources Required

A room, a chair, desk, Devices-smartphone, desktop, Laptop, tablet, Headphones, A mouse and keyboard, Software ,Hardware, CD/DVD, memory card ,Stable network and constant attention and focus

8. Notes (Optional)- Our College inculcated the best in students' academic growth irrespective of the pandemic. Web resources like PDFs, links, recordings, and audio files were uploaded on Google classroom and made available to students.



INSTITUTIONAL BEST PRACTICE-2

1. Title of the Practice: Petri Art a Bio Art to portray resilience during pandemic

2. Objective of the Practice

The goal of the Department of Microbiology is “**Bridging the gap between Humans and Microbes by Petri Art**”. This imbalanced and misinformed relationship that humans have with their own microbial community causes fear and disgust.

Our core mission is to change the relationship humans have with microbes. Using the universal language of art, we would like to bring the invisible to the visible. To familiarize the public with the beauty of bacteria. To engage the public into a deeper understanding and increase their awareness and interactions with the microbial communities in and around us.

Using agar, a gelatinous-like substance to fill the petri dish, we create a canvas where the microbes can be spread around like paint and allowed to grow and create art. Unlike most forms of art, our ‘paint’ is alive, and will live, breathe and grow over time, often in unforeseeable ways.

3. The Context

The only way to adequately prepare students for the future is through online education classes that help them to learn about technology. Preparing students for the workforce is one goal of education today. Since almost all jobs now and in the future will require students to use technology in some form; students need to begin learning the basics of how computers work and how it is related to science and technology and enhances life. The Basic skills of Computer programme has been implemented to learn basics and to store the data. The Programme syllabus is framed in accordance to the need and context. The best practice included making of nutrient agar, sterilization techniques, art and designing, basic computer skills etc.

4. The Practice

Final year students from the department are selected to conduct this activity. Usually 20 to 25 students from final year are assigned for this programme. The Infrastructure which includes the lab, nutrient agar and the incubators, Petri plates are provided by the college. The students worked for 4 to 5 hours. The school children and intermediate college students at our premises visited microbiology department with full attention, enthusiasm and interest to learn the importance of petri art and about microorganisms. They were very much eager to open the petri plates, many students gained knowledge from this.

5. Evidence of Success

It was a successful activity. Students who have been part of this best practice were very happy and also they have given a very good oral feedback to the juniors, and inter and school students, non science students at our college. The college management has appreciated and acknowledged our best practice. Oral assessment was done to test the outcome of the activity which came out to be positive. The college management decided, for teaching every year and to bring awareness in bridging the gap between Humans and Microbes.

6. Problems encountered and resources required

Bacterial contamination, Lack of skilled lab attender, Power distribution is still very poor because we don't have any backup. We faced a problem because of power failure. Parents thought it a waste of time, Scheduling the class timing and Working for long hours.

