

1. Title of the Practice

ICT Enabled Teaching Learning Process (iTLP)

2. Objectives of the Practice

The use of Information and Communication Technology (ICT) is a symbol of a new era in education. ICT enables the use of innovative educational resources and the renewal of learning methods, establishing a more active collaboration of students. It is catering to life-long learning aspirations and that too at an affordable cost. The ICT enabled Teaching Learning Process(iTLP) is implemented in the institute as a best practice. The main objectives of this practice is to:

To enable digitally deployed and student centric platforms to create smart environment for learners.

To manage academic and administrative resources with efficiency and optimum utilization.

3. The Context

In current information society, people have to access knowledge via information and communication technology(ICT) to keep pace with the latest developments. With the help of ICT constraints of time and place can be over come in the field of Teaching and Learning. Use of ICT is a new era in education.

In such a scenario, education, which always plays a critical role in any economic and social growth of a country, becomes even more important. Education increases the skills of the individual and their social interaction.

The use of ICT in education has intensely reformed teaching and learning processes. Furthermore, it has expanded new opportunities for learning and accessing to educational resources beyond those traditionally available.

ICT is considered as a mainstream in higher education. ICTs are being used in many areas such as: developing course materials; delivering content and sharing content; communication between learners, teachers and the outside world; creation and delivery of presentation and lectures.

4. The Practice

5. The Practice

FAMT, over a period of 25 years, has worked on some best practices by way of educational strategies and activities which enhanced quality of teaching and learning such as ICT Enabled Teaching Learning Process (iTLP)

In view of Digital India initiative of Indian Government, FAMT has set up the following ICT deployments to promote active use of technology on the campus:

- Google Workspace for email, document storage, Online meetings.
- E-learning -Google Classroom and lecture repository

- Cloud based MIS by Akron Systems, Online Feedback, Surveys and Attendance
- NPTEL Repository
- Alumni Portal

Google Workspace for email, document storage, Online meetings.

The institute in collaboration with Google got access to Google Workspace (formerly known as G-Suite). All the faculty have the access to email, document storage, Google class room and Google meets with facility to record the lecture.

Faculty members have been using EDMODO as an LMS in AY 2018-2019 and later on it was shifted to Google Classroom. Google Classroom provides centralized management of the students management, assignment sharing and evaluation, term work submission and online lecture conduction.

The google meet and google drive enables teachers to create a repository of every lecture which is conducted. Further, many teachers are having their Youtube channel and specific content is also shared on these channels.

FAMT has a cloud based MIS which takes care of the management of common activities. This MIS has two main modules (i) **Administration** (ii) **Academics**

Under administration module following key functionality are provided

- User Login is provided for faculty and students. Students can get the details related to tuition fees, Hostel fees, Exam fees. These details are updated in real time. Students can pay the fees also through the payment gateway.
- Regular SMS updates are sent to all faculty, staff and students and their parents for institute related news and announcements.
- Admission related processes are managed and different types of certificates are issued through the MIS.

Under Academics module following modules are operational

- Activities like assigning division to students, division transfer, assigning Roll No, assigning batch to student, batch transfer, assigning subjects to teacher, assigning batch to teacher, teaching Plan, practical plan, attendance sheet, marking daily attendance, assigning mentor, continuous assessment, Internal Assessment marks entry are carried out through this module. Master, class wise, individual time tables are created by using this module
- Data related to faculty achievements, research publication, conference, published books etc can be stored here.
- For the staff the Leave application, substitute request, approval of leave, Gate Pass approval as well as various reports related to Syllabus coverage, Teaching Learning Plans, students attendance and administrative process are generated herein

This MIS is accessible on the internet and it can be accessed remotely at any location. University related processes are updated in the MIS as and when required. This MIS saved lots of time, energy and paperwork.

The Central Library has an indexed repository for NPTEL lectures; students have been using the same on the campus for their reference purpose.

5. Evidence of Success

Enhancing and upgrading the quality of education and instruction is a vital concern, predominantly at the time of the spreading out and development of education. ICTs improve the quality of education in a number of ways: By augmenting student enthusiasm and commitment, by making possible the acquirement of fundamental skills and by improving teacher training. ICTs are also tools which enable and bring about transformation which, when used properly, can encourage the shift an environment which is learner-centered.

Faculty have developed the e-content for various courses and shared to students through various platforms.

In terms of administration, all activities related to students and faculty are carried out through cloud based MIS system from Akron systems.

The link for the e-content developed by faculty during the academic year 2019-20 is

https://famt.ac.in/NAAC_Documents/aqar/2019-20/Criteria7/Best_Practice_2/BP-2_E-content_2019-20.xlsx

6. Problems Encountered and Resources Required

FAMT is equipped with all the resources and infrastructure required for the utilization of Google Workspace, YouTube Streaming as well as NPTEL repository hosting which is now a well-established best practice at the Institute.

Students staying in rural areas of Ratnagiri district, face the problem related to network issues.