Bharati Vidyapeeth's College of Engineering for Women, Pune-43

Strategic Plan and Deployment Document

Strategic Plan

Institute Vision Statement: Women Empowerment Through Technical Education

Institute Mission Statement:

- **Develop women students to rise to their full potential.**

- **Impart knowledge and prepare competent engineers.**

Core Values

- **Commitment**

- **Respect**

- **Excellence**

- **Accountability**

- **Diversity**

The Institute's strategic plan is aligned with the vision, mission and core values of the institute.

Institute recognizes

- The need for holistic development of girl students.

- Impact of capacity building of faculty members to impart quality education.

- Need to strengthen industry linkages.

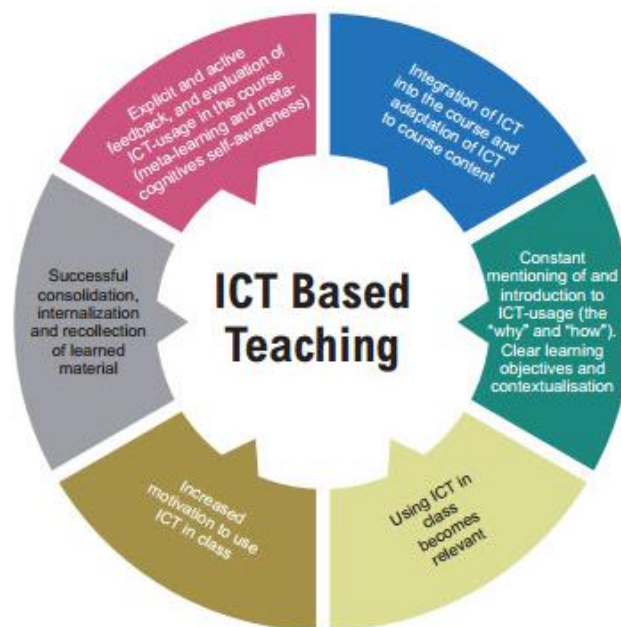- Importance of participation in extension activities.

Institute strives for

- Holistic development of girl students through

  a. life skill practices.

  b. building confidence in all types of communications.

  c. building technical competence.

  d. inculcation of creativity.

  e. inculcation of financial intelligence.

- Capacity building of faculty members through

  a. various kinds of trainings.

  b. promotion of research activities and code of ethics.

- Strengthen industry linkages through

  a. induction of industry experts.

  b. sponsored projects.

  c. internship.

- Increase student participation in extension activities.

- Implement Information and Communication Technology (ICT).

Deployment Document

Information and Communication Technology (ICT) System

The critical global incident generated by the pandemic forced most teachers use Information and Communication Technology (ICT) tools in facilitating teaching and learning. The role of ICT plays a wider role in teaching-learning activities such as, content creation, administrative activities, assessment of assignments, unit test, in semester examination, student's performance tracking, trainings, knowledge management and knowledge organization. In addition, the technical features of ICT allow us to customize to meet the demands of an institution. Considering the recent major shifts in the learning paradigm, these innovations were deployed in our institute.

The institute has its own learning management system installed on Moodle and Lecture Capture System positioned in a classroom. The institute also uses Google Classroom and Microsoft Teams' platform to cover classroom essentials. During the pandemic, faculties have scheduled their online lectures and practical using Google and Teams calendar. The faculties have created course related E-content in the form of audio, video, PPTs and PDFs and shared with the students using Google Drive and OneDrive links. The faculties have shown their web presence by deploying course related blogs on WordPress and uploading the video lectures on YouTube to reshape the learning process.

Benefits of ICT deployment in Teaching

The institute has 155 Mbps internet leased line for the smooth conduction and deployment of ICT. The important deliverables of ICT are as follows:

1.0 Overview of Deliverables

For deployment purpose, the deliverable for the ICT system consists of IP address (http://10.16.10.69/moodle/) that can be entered as a URL in browser of the computer system. The institutes ICT system has been developed by creating Moodle instance on the organization's data center server. The contents of the ICT system are accessed and modified, by entering the username and password, allocated to each user as per the respective user's access permission.

2.0 Installation and Configuration of Learning Management System (LMS)

The system is designed and developed to deploy course wise e-Learning resources that should be accessed by the student(s) user. It is operated by the Admin user, who has the full access and authority of the portal for modifications. The "faculty" users with restricted access are created department wise by the "Admin" to upload the course materials, delivering the assignments and conduction of quiz etc. The student users are also created by Admin for accessing the course material, attempting the quiz" and to submit the assignments. Creation of users and formation of courses are implemented through Moodle Plugins.

3.0 Installation and Configuration of Virtual Classroom:

Activity	Status
Networking of All classrooms	✓
Camera Mount Installed - Wall Mount or Ceiling Mount	Wall Mount
Camera Installation	✓
Camera Type	Dahua

Server Installation & Configuration	✓
Server Rack Installation	Placed in server room.
Audio Type	IR
Power Backup Installation	✓
Static IP Configuration	NA
Cloud Access	✓
Livestreaming	✓
Application - Local Admin Account creation	✓

4.0   Monitoring of ICT services

The "**ICT system**" of the institute is monitored by Organization's "**Data Center".** The Data center is equipped with battery banks and generators for uninterruptible power supply. Environmental control of Data Center is maintained by computer room air conditioners (CRAC), ventilation, and exhaust systems. Physical security is provided with biometrics and video surveillance systems. Data Center also consists of servers, storage hardware, cables and racks, as well as a variety of information security elements such as firewalls for IT operations and storage of the organization's affiliated institute's data. To monitor operations and maintain infrastructural equipment, the operational staff is appointed by the organization.