VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<u>Importance of e-Classroom in Teaching and Learning</u>

In VMTW in Computer Science & Engineering we have E-Classroom facility.

The E-Class room consists of

1. Projector

2. Smart board

3. System

4. Public Address System

1. Teaching without chalk and blackboard made possible through technology that serves as fundamental structural changes as integral to achieving significant improvements in productivity. It used to support both teaching and learning, technology infuses classrooms with digital learning tools, such as computers and hand held devices.

2. Student engagement and motivation; and accelerates learning. Technology also has the power to transform teaching by ushering in a new model of connected teaching. This model links teachers to their students and to professional content, resources, and systems to help them improve their own instruction and personalize learning.

3. E-classroom as part of our educational technology eliminate the barrier to quickly access new information in the field of research and it bridging the gap between the rich and the poor and urban to remote areas to quest for quality learning.

4. This type learning creates an opportunities to teachers and pupils/students to use the educational resources and other technologies that can increase educational productivity by accelerating the rate of learning reducing costs associated with instructional materials and better utilizing teacher's time.

This can also be done a blended learning by incorporating both face-to-face and online learning opportunities known as distant learning program. The degree to which online learning takes place, and the way it is integrated into the curriculum, can vary across schools.

5. E-classroom has also the potential to improve educational productivity by accelerating the

rate of learning, taking advantage of learning time outside of school hours, reducing the cost of instructional materials, and utilizing teacher's time.

6. It also helps to develop the mindset of the students towards positive thinking and quest for more learning towards excellence.

7. These can be particularly useful in rural areas where online learning can help teachers and learners accessible to information and to overcome distance.

8. Digital resources like electronic grade books, digital portfolios, learning games, is a powerful tools to help teachers create more engaging and interactive teaching ways of learning on teacher and student performance, are a few ways that technology can be utilized to transform learning.

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<u>**E-Learning Module**</u>

1.NPTEL videos

NPTEL course contents are useful for Faculty training and through them improve the quality of students. In addition, the course materials (both web and video) are freely accessible by every student.. These courses are used by our faculty members and Students for updating their academic background. Open and distance education using NPTEL contents are long term prospects for IITs.

- The students and faculty can access the NPTEL video's at digital library in college central library.
- The students and faculty can access the NPTEL video's at Dept library
- The students and faculty can acces the NPTEL video's at Internet Lab
- The Faculty can access the NPTEL video's in their personal system in their cabin

Globarena E -Mentoring System (GEMS)

GEMS is a high impact comprehensive online solution to bridge the employability - skill gap and enhance the college talent pool by focusing on holistic student skill development, thus establish a continuous talent hub for the industry.

GEMS facilitates students acquire skills in a systematic way to:

- **strengthen domain skills**
- become **competent and confident individual**
- understand the **industry prospective**
- be prepared to **succeed in recruitment process**
- **be ready to excel in the workplace**

GEMS Approach

GEMS follows the conscious competence learning model. It will enable the students to go through the process of skill acquisition at various stages.

- **Pre-assessment:** Reflects student capabilities, creates awareness about inherent strengths and suggests areas for improvement.
- **Learning resources:** Help students acquire knowledge and skills through self-learnable digital programs.
- **Expert guidance:** Students interact with mentors to get clarifications for their queries and also get needed guidance to hone their skills.
- **Collaborate:** Students exchange views amongst the GEMS learners community.
- **Interim assessments:** Review student progress and provides corrective feedback.
- **Review GEMS progress:** Our coordinators will visit the colleges regularly to monitor the programme and take the feedback for further improvement.
- **Post-assessments:** Reflect on student progress and performance (scores). It can be compared across the GEMS learners community.

- **Industry interface:** Creates awareness regarding the current industry trends through industry-academia meets and articles. GEMS also conducts job drives to facilitate student placements.
- **Career portal:** Students profile (resume, study profile and assessment score) are uploaded to showcase their capabilities to the companies registered on GEMS.