Managing technology

Name

Instructor

Institution

Date

Challenge encountered by large research university with teaching large number of second and first year lectures

Introduction

Managing Technology and technology usage is essential in the current education systems globally. Technology can help them in supporting their learning and research process as they endeavor to climb up the learning curve and remove them from unknown to known state. Their ability to understand how to encompass the value of using information wisely, accessing the net for learning programs and focusing on understanding concepts is valuable. To foster such learning, the institutions must enhance use of technology from administrative departments to the class rooms. Teachers should show example by using it, in teaching and elaborating concepts through practical lessons. This can only be possible if the institution invests heavily on technology and technological appliances such as computers, hardware and software.

Task 1

The event scenario in chapter 4 entails the challenges encountered by large research university with its very large second and first year lecture classes and how technology help improve the quality of teaching and learning for the students .l’universite de vaud happens to be top 100 in research universities world rankings with a good IT infrastructure, since 1980s it has tried to put a plan to ensure that technology progress is consistent and up to date. The university supports an open source learning management system that is used by the different departments and faculties within the university. But not exclusively to support classroom sections, it has an extensive distance learning education programme used by the different faculties within the institution. This facility shows how technology can be used to foster learning even to students that are far away from the institution.

Task 2

The techniques and principles that were applied to encourage or to encourage information systems include interdisciplinary, theme based programme that would lead to specialization for students who are in their final year of education and ready for the employment world. The students will have gained enough technical experience in usage and application of the advanced technology systems. Secondly, teaching designed around problem or inquiry based learning and not majoring on research as seen in the faculty departments alone but also on the current research which is in the teaching and learning in higher institutions of learning ensuring deep and detailed learning. Lastly the technology applied to encourage information system is the heavy use of learning technologies in a controlled way to enable students have access to wide range of learning resources, allows development of learning skills and collaborative learning, reduce time research spent in faculty in large lecture classes and lastly free up faculty time for small group, face –to-face interaction and essential hands –on work in labs.

Task 3

Efficiency is achieved when a level of performance is achieved using the lowest amount of output. The techniques and principles that is applied encourage information systems such as interdisciplinary and theme based programme that leads to specialization for the final year. This helps students to focus on their areas of interest long early in their career. The teaching design is good and revolves around problem or inquiry based learning and not majoring on research alone of the faculty but also on the current research this promotes efficiency in learning by making the student’s dependency ratio to the instructor lower. This promotes the motivation of learning and decision solving increases hence broadened learning expedition. Lastly, the technology applied encourages information system and heavy use of learning technologies in a controlled and can lead to efficiency within the institution since both the teachers and students get access to a wide range of learning resources, allow for development of learning skills and collaborative learning and reduce time to do research. Organization goals can then be achieved easily.

Task 4

Technology integration helps the institution benefit academically and administratively and the critical indicator and monitor of technology integration is the leadership ,the leaders can allow for the administrative and academic benefit by playing their respective roles by :actively promoting the importance of technology for transforming teaching and learning this can be done by strategy plans and public announcements ,the senior executive team should guide ,facilitate and be responsive of the wide range of decision makers within the institution. The institution can also implement the following to benefit academically: Increased flexible access for a more diverse student body, developed interaction between instructors and students, more individualization of learning, developing student skills in identifying, analyzing and applying knowledge. The use of technology to support the development of independent learning, teamwork and collaboration fosters learning that is geared to success and the interaction between the learners and the tutors is also eased.

Task 5

Knowledge systems are very important in understanding the target market and decision making. An institution for instance, can know which particular market to target based on the service that they offer and the manner in which they are offered. Knowledge system can help in determining the potential students to target, from what location and for what courses to provide. The system can also help in gaining a particular approach of disseminating information be it in class or in the market field. Students can be marketed for their strong skills in technology and the university can sell itself publicly.

References

Bates, A. W., Bates, T., & Sangra, A. (2011). *Managing technology in higher education: Strategies for transforming teaching and learning*. John Wiley & Sons.