7.2 - Best Practices

Best Practices -I

Title of best practices: E-content- Futuristic way of knowledge base.

1. **Goals**

The goal of this scheme is to encourage individual students, groups of students in college to develop the content and multimedia production to develop educational content in electronic format, suitable for use in various teaching and learning programmers. E-content serves this purpose in its various forms such as web-based learning, computer-based learning, mobile-based learning, virtual classrooms, and digital collaboration. It is a combination of text, audio, video, images, animation with visual effects that is delivered via the internet, or mobile technology.

1. Promote generation of e-content in all subjects.
2. Develop teachers' and students' resources in e-Content.
3. Make available the e-Content to teachers and students through various delivery modes for formal and non-formal education, for supplementing and complementing the process of teaching and learning in higher education.
4. Develop partnerships between educational institutions and the IT industry for the continuous development of new content and methodology taking into account contemporary technology.
5. You are able to link the various resources in several varying formats.
6. It is a very efficient way of delivering courses online.
7. Due to its convenience and flexibility, the resources are available from anywhere and at any time.
8. Students working full-time can take advantage of web-based learning.
9. Web-based learning promotes active and independent learning.
10. As you have access to the net 24×7, you can train yourself anytime and from anywhere also.
11. It is a very convenient and flexible option; above all, you don't have to depend on anyone for anything.

12. Not only can you train yourself on a day-to-day basis, but also on weekends or whenever you have the free time to. There is no hard and fast rule.
13. Through discussion boards and chats, you are able to interact with everyone online and also clear your doubts if any.
14. The video instructions that are provided for audio and video learning can be rewound and seen and heard again and again if you do not happen to understand the topic the first time around.
15. State the meaning of e-content.
16. Explain the process of designing and developing of e-content.
17. Explain the phases in different instructional design models
18. Create e-content for a particular topic.
19. State the meaning of a reusable learning object.
20. Describe the use of various tools for editing graphics, audio, and video.
21. Explain how authoring tools are used in creating e-content.
22. Explain the meaning and importance of Open Educational Resources
23. Explore various Open Educational Resource repositories.
24. Use different Open Educational Resources for classroom teaching and learning.
25. Explain the meaning and types of Creative Commons Licensing.

Context

Online learning has numerous advantages over traditional learning methods. Some of these include the possibility for students to make use of self-paced learning and to choose their own learning environments. Additionally, e-learning is both cost-effective and cost-efficient, as it removes the geographical obstacles often associated with traditional classrooms and education. All of us have access to the internet and we use it for many different things like researching for some information for school and college projects, downloading music, pictures, wallpapers, and screen-savers, to get updates on the latest happenings all over the world, emails, instant messaging, chats, and many other things. . You can educate yourself in the comfort of your own home and get a degree through the internet now. With the latest technology, even the impossible seems possible now. Web-based learning is commonly referred to as e-Learning or online learning. It essentially includes learning online through the courses that are offered on the net. Emails live lectures, and videoconferencing are all

possible through the net. Online learning has a number of tools such as videos, PDFs, podcasts, and teachers can use all these tools as part of their lesson plans. By extending the lesson plan beyond traditional textbooks to include online resources, teachers are able to become more efficient educators.

2. Practice: Competitive examination in the subject of Chemistry

This practice was adopted in the academic year 2020-21. E-content has been organized as per the subject and class requirement. Various types of learning sources are digitized in the form of texts, books, and reference books. These files are uploaded on the college Google drive which is called as SDMN library. The student getting access to the drive can easily view the seven folders namely SSPU syllabi, novels, historical, competitive exam e-books, e-book for senior college. Students can also get access to the material uploaded by Savitribai Phule Pune University on the ECLM portal. Specific YouTube links are made available on the drive which includes MCQs, recorded lectures of various experts. The platform is used by junior college students too who can get access to free e-books, NCERT texts, NEET, GEE, entrance exam material as well as free books and old question papers. To encourage online learning library has provided the link for the 'top 21' education app. E-Learning material can be accessed through various modes of the internet or downloading from the site. Online meetings on the difficulty faced by students are done on online –meetings and Mixed Learning. A blend of communication between the provider and receiver takes place directly as in whatsup chat rooms, or video-audio conferencing. The information is passed through forums, emails, Web-based learning CD-ROMs Audio and Visuals. The library shares link to this material on the WhatsUp number of the student to have him a user-friendly experience.

3. Evidence of Success:

Students' satisfaction on feedback using e contents is regularly conducted in the case of this year feedback serve was conducted on 27th Aug. to 29th Aug. through online Google form. There were seven questions including general information of students and suggestions. Total 244 students of various classes responded to it. It is observed that 95.5 students use this facility. A table provided with it shows e-content material-wise use in percentage. Some students' reactions are registered in the space given in the satisfaction serve forms. The findings revealed that for the group where the chalk and talk method was adopted by the

teacher the scores obtained were very low for more than half of the students and the rest were in the moderate score category whereas for the group where the E-content method was adopted all the students were in the high score category. It proved the effectiveness of this method. Hence it may be said that the student's learning can be enhanced using the e-content method in classroom teaching. E-content development can continually serve the need of the students. E-content is a bridge between knowledge and irregular students. Although content development plays a key role in e-learning, it is undoubtedly is an easy process. Time and again e-content would enrich the knowledge base in the subject area, patience in creating the necessary objects. The process of connecting students with their studies has rather become simpler. With help it one can easily locate and assess fast or slow learners and what strategies are developed for students.

4. Suggestions:

It is observed that teachers face variety of problems while teaching environmental education, the dialogue is usually limited to the theoretical approach and the content becomes too technical and data-driven. So, even though data presentation had to be an important aspect of teaching, the main challenge is to identify a way to convert dry and factual data into an interesting and interactive format.

Another challenge is that students come from varied backgrounds. Hence, the content needs to be interactive, engaging, and yet simple enough to appeal to a varied audience.

However, with the use of multiple learning strategies aligning to technology-aided learning, e-learning can be a very strong tool to create such a teaching-learning environment.

With e-content, teachers can generate their own material, incorporate more creativity in classroom teaching, and thus have more control over the classroom than they have had in the past.

Therefore, in order to study the Effectiveness of e-content in teaching environmental education to college students, the present research was taken up.

5. Contact Details:

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Best Practice II

Title of the Practice: Competitive examination in the subject of Chemistry

Goal:

- To improve basic knowledge and contain of Chemistry subject.
- To motivate students for prospective career in Chemistry.
- To intensively guide students for various competitive examinations in Chemistry like NET, SET GATE, SPPU entrance examination for M.Sc. admission and other competitive and entrance exams.
- To build among students a sense of awareness, provide guidance, n other information about various competitive examinations.

1. Context

Department of chemistry conducts the activity for UG and PG students. Aptitude Test for F.Y.B. Sc. aims at assessing their basic knowledge of chemistry and to create interest among the students. To assess the advanced knowledge level of second-year students ‘Inspire Test’ is conducted. At graduation level ‘Chem-Quiz’ is conducted, this examination benefits the students to **Entrance Examination** of Universities. Additionally, from this year on, to meet the demand of postgraduate students for such a competitive test, our department is initiating "Resonance" MCQ-based testing for both Part I and Part II students.

2. Practice

At the beginning of the year, the Department of Chemistry displays a notice to students for these examinations, and awareness regarding this was also given during the regular lectures. HOD calls different objective questions from the staff and sets a final question paper. According to the departmental event calendar, there is a specific schedule for such competitive exams. These entire three examinations were conducted simultaneously. Department of chemistry developed a new idea to assess these answer books within a very short period and the result is immediately displayed on the notice board. The three meritorious students from all classes are awarded the books in the form of prizes.

3. Evidence of success:

Because of the success of the regular conducting test a financial grant provision has been made by our college for the same. Every year 2-3 students are admitted for the M.Sc. program at SPP University department.

4. Problems Encountered and Resources required

There were difficulties in arranging the student seating arrangement during the exam. As regular classes, the classes are not empty and this is difficult to conduct exams simultaneously.

5. Suggestions

Such tests must be conducted periodically at least twice per year.

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