COMPARISON STUDY OF ONLINE EDUCATION PLATFORM

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Abstract

With a boom in increased usage of internet, online learning has also witnessed a tremendous growth in this era. Although the teaching pedagogy will vary from platform to platform, the students and society at large have benefitted from vast content in various formats, and they have experienced best learning through e-learning. Various forms of electronic media support this e-teaching and learning process. In this process, educational content is delivered over the web in the form of text, video, audio format and fulfills the need of an instructor or trainer. This paper analyses the teaching pedagogy, content and various other aspects of e-learning platforms like SWAYAM, eDX and CourseEra.

Keywords: *E-learning, SWAYAM, eDX, CourseEra*

Introduction:

The idea of e-Learning has fundamentally gotten investigate considerations as one development changing the examples of instructing over the globe on the side of, or somewhat supplanting the conventional up close and personal way to deal with the conveyance of information and aptitudes. The fast development in the e-content improvement utilizing web innovation and its consistently expanding utilization has given phenomenal chances to instructors to stretch out instructing material to understudies not just inside the four-dividers of their homerooms yet in addition in the solaces of their home everywhere throughout the globe. Indian Government has taken various activities, and granted various e-content advancement extends under NME-ICT for the development and improvement of – content condition. The focused on clients are not completely profiting the chance of such activities. The greater test is to get the consideration of target clients or in other words, to spread the mindfulness among its objective clients with the goal that the online students not just get the most extreme advantages from the tasks yet in addition partake in its creation and development through intuitive Learning Management System (LMS) stages. With utilization of ICT in training and setting up of National Mission in Education through ICT (NMEICT) in 2009, e-content has become the most famous learning technique that causes a student to learn at his own place. Right now we have characterized e-content and learned about the significant activities taken by Government of India for e-content and self-instruction.

Dominant part of appropriation examines center around understudy reviews, consequently there is additionally a shortage of studies that catch the educator/coach/teacher point of view with respect to execution, conveyance, and content, instructional method issues for e-content. It is indispensable to contemplate coach point of view and necessities on cloud based e-

content administration frameworks. This exploration assessed the key noteworthy components required for college resources to utilize e-content stages. To build up an e-Learning framework that matches well with the students' needs, it is indispensable to examine teaching point of view and necessities.

Analysis of various E-learning Platforms:

1. SWAYAM

This is the home page of SWAYAM. The user who wishes to pursue any course needs to click on the tabs highlighted in yellow background color. The tab will then redirect to another page on a different tab.

2. UDEMY

This is the home page of Udemy. On the home page, we can see search button to look for any course. By clicking on categories, we can get list of various courses.

3. COURSERA

Very similar to Udemy and Swayam, Coursera also has a search box on the top of the home page

4. SWAYAM

By clicking on Course catalog, course categories will open up.

5. SWAYAM

Course List

✔ - Completed

■ - Ongoing

● - Yet to start

S.No	Course Id	Course	Bengali	Gujarati	Hindi	Kannada	Malayalam	Marathi	Tamil	Telugu	NPTEL site URL
1	106105151	Programming in C++	■	■	✔	■	■	■	✔	✔	Click here
2	106106145	Programming, Data Structures And Algorithms	✔	✔	✔	■	■	■	■	■	Click here

Once you click on AICTE tab, you will be redirected to another page on a different tab. The layout however is clumsy as the user needs to scroll multiple times on the page.

6. SWAYAM

Home >> Higher Education >> ICT Initiatives of MHRD

ICT Initiatives of MHRD (e-Brochure)

S.No.	Resource	For students/Researchers	For Institutions
Audio-Video e-content			
1	SWAYAM: Massive Open Online Courses	Earn credit through online courses	<ul style="list-style-type: none"> Encourage your extraordinary faculty to develop online courses Accept credits awarded under SWAYAM Form SWAYAM local chapters
2	SWAYAMPARBHA: View digital courses on TV	Watch high quality educational programs 24*7	Provide facility for viewing SWAYAMPARBHA content
h SWAYAM			
Digital content: access journals and e-books			
1	National Digital Library: e-content	Access e-content on multiple disciplines	<ul style="list-style-type: none"> Get your E-content listed Form NDLC Club
2	e-PG Pathshala: Gateway for e-books	Get free books and curriculum-	Host e-books

Technology Enabled Learning

- Overview
- National Mission in Education through ICT
- ICT Initiatives of MHRD
- Letters/Correspondence
- Latest Updates
- SWAYAM Local Chapters
- List of Universities approved credit transfer
- List of Central University having Studios

The higher side of SWAYAM is that it being a government based online learning platform, makes its users updated about the initiatives made in this area.

7. Coursera

Technically Coursera is bit different from other two platforms, in a way, that by just pressing text cursor in the search box, it will display a list of all popular and most viewed courses. This makes the home page user friendly and pushes user to search for any course. This is an important feature.

8. UDEMY

Similarly, Udeemy also offers a list of courses in various categories to its users. By simply clicking on “Categories”, it will display all what it has to offer you.

Comparison of Various e-Learning Platforms

Comparison Aspect	Swayam	CourseEra	Udemy
Ownership	Government	Private	Private
Teaching Pedagogy	Video lectures, reading material, self-assessment test, online discussion forums for doubt	Video lectures, discussion forums, homework exercise	Video lectures, Quizzes, Project
Types of courses offered	School education, out of school education, Under- graduation, Post-graduation, Technical education	MOOC, Specialization, degree, Professional certificate, Master-track certificate, Online degree	MOOC, Specialization, Professional certificate
Add-ons offered in the course	SWAYAM Certificate (with additional fees)	Quizzes, weekly exercises, peer-graded assignments	NA
Credit transfer in course	Yes	No	Yes
Cost	Free, additional cost for certificate	Free, paid for certificate	Free, paid for certificate
Partners	None	200+ in 24 countries	190+ countries
Collaboration	9 bodies are appointed	4 universities of various countries and 2 international institutions	NA
Certificate Type	Not Sharable	Sharable certificate	Not Sharable
Languages Covered	NA	30	65
Learners	NA	53 million	50 million
Courses Offered	2000	4570+	1 lac

[Table 1.1]

The above table 1.1 compares three different platforms from various aspects.

As shown above, SWAYAM is an online Government led project which includes Video lectures, reading material, self-assessment test and online discussion forums for doubt as a part of teaching methodology. It includes School education, out of school education, under-graduation, Post-graduation and Technical education. If we compare SWAYAM with other two platforms like Udemy and CourseEra which are run by Private Companies, Udemy includes Video lectures, Quizzes, Project whereas CourseEra includes Video lectures, discussion forums, and homework exercise. CourseEra includes MOOC, Specialization, degree, Professional certificate, Master-track certificate, online degree but Udemy includes MOOC, Specialization, and Professional certificate. As a part of Add-ons, SWAYAM offers Certificate with additional fees, whereas Quizzes, weekly exercises, peer-graded assignments are offered by CourseEra. Udemy and SWAYAM offers the participants to transfer credit but CourseEra doesn't. The common feature of each of them is that for obtaining certificate, participate has to pay additional cost. CourseEra has the maximum number of partners among all the three-200+in 24 countries whereas Udemy has 190+ partners. SWAYAM lacks behind in this with no partners. SWAYAM has got collaboration with 9 bodies. With CourseEra, it has collaboration with 4 universities of various countries and 2 international institutions. Udemy lacks behind in this. Only CourseEra offers sharable certificate whereas other two don't fall in this category. Udemy offers courses in maximum number of languages i.e. 65, while CourseEra provides courses in 30 languages, whereas SWAYAM makes use of only one language i.e. English. CourseEra hold first position in context of users which is 53 million, while Udemy holds second rank with 50 million users, however, the user base of SWAYAM is not known. Udemy offers as many as 1 lac courses in varied fields, CourseEra offers 4570+ courses while the least number of courses are provided by SWAYAM which is 2000.

CONCLUSION

Among all the three platforms, Coursera and Udemy weigh on almost the same scale whereas SWAYAM lacks behind in various aspects as mentioned in the table 1.1. If necessary upgrades can be done for SWAYAM, it will also be reaching the standards as adopted by other two platforms.

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