



REVIEWS OF OPEN EDUCATIONAL RESOURCES (OER) VIA WEB TOOLS FOR ENHANCING TEACHING METHOD AND LEARNING PROCESS

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ABSTRACT

This research paper investigation on the web tools accuracy, processing and coded in the web site for public usage. This tools have been much attention in teaching method and learning process. The utilization of web tools in different places like education institution, hospitals, and business companies etc. We can able to get more knowledge from various web tools. Using web tools, teachers can perform variety teaching methods as well as learn relative subjects. Through web tools, some may access like free software tools for running your online classes, designing and making content, students can attend the exam, decreased reduced administrative burden, cost effectiveness for conducting online screening test; some may not access the particular searching sources. Some important web tools and educational benefits such as, google class rooms, website builders, content management systems and graphic design. The significance of web tools and its demerits have also been discussed in detail.

KEYWORDS: Open Educational Sources; Web Tools

Article History

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INTRODUCTION

Recent days, web tools have been much attention in the throughout the world. Using this tool, we can able to collect all information from various source data with less cost, plagiarism checking for student's thesis and publications, to scrutinize the previous research works from all researchers, money transfer, internet banking, online software, easy to contact any person from anywhere and security systems[1-12]. Web tools have high efficiency and accessibility is very free. Especially, web tools is significant role on the educational institution. The following web tools such as chatGPT, Gemini, e-books, e-library, Scopus, IEEE Explore, Springer, Science direct, American Chemical Society, American Institute of Physics, Institute of Physics, Wile, World Scientific, Taylor and Francis etc. have been very useful for educational institution.

The main purpose of teaching learning from web tools is to create curiosity, exchange of ideas, evaluate perception and understanding about the relevant topics[12-15]. We can able to collect the images, pictures, audio, video and animation videos from the web tools for better understanding of learning process etc[16, 17]. The aforementioned sources have been much attention in people are studying rather than referring text books from offline. It carry communicative informative with the use of unchanged and energetic pictures in form of visual technology for good expression and understanding. Information technology is a must aspects of ICT that deals with how information can be

represented and presented digitally, using others media such as text, audio, video, and others. It demand the compound of various technologies provide information in the best available formats, packages and dimension. It concern the use of hardware and software for the object of collecting, extracting, storing, offering and participating of information mostly in digital forms. These application have been position for separate educational uses such as the work position for Physics classes, social science, physical education studies[17].

The objective of this present investigations on web tools is target at serving as a guide for tutor and education executives and application for learning in educational institutions. The web tools objective, various web tools information's and web tools methodologies have been presented in detail.

OBJECTIVE OF THE PRESENT STUDY

- Using web tools, to assess the instruction and the enhancing teaching learning process via seeing text and videos.
- Few important tools have been presented for benefit of educational institutions.
- To gain knowledge all research scholars, students and teaching faculties from selected web tools.
- To know about various web tools (Digital libraries, video hosting platforms, and learning management systems (LMS)) for getting quick information from the selected web tools
- To learn advancement education via online course using certain web tools significance.
- To assess the efficiency of students' academic tracking system.

Methodology

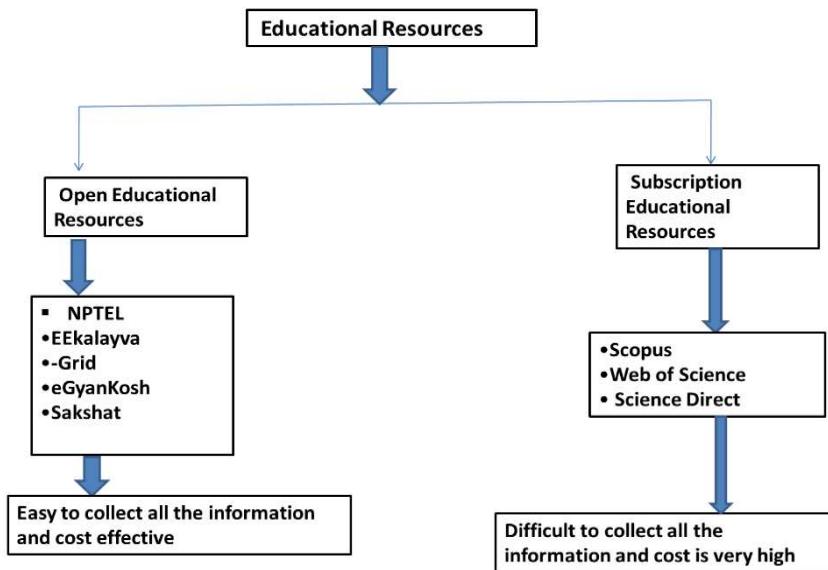


Figure 1: Flowchart of Educational Sources.

RESULTS AND DISCUSSION

There are numerous open educational resources is very useful to an educational university and colleges [18, 19]. A lot of open educational resources are given below: National Program on Technology Enhanced Learning (NPTEL). It is implemented by all Indian Institutes of Technology (IITs) and Indian Institute of Science (IISc), Bangalore.

All educational courses were offered by all over India IIT professors through NPTEL. This course is very useful to all engineering students to understand the relevant topics. This course is also benefit to all research scholars and PG students. Most of the universities is mandatory to complete the aforementioned courses. Students also benefit to obtain credit score.

Ekalavya

It is a comprehensive open learning platform that goals to empower learners throughout country. It is numerous collection of open educational resources.

National Digital Library) (NDL)

This online course is offering to workshop, seminar, webinar and conference etc. In addition, published research articles can be collect from the NDL.

Shodhganga

All disciplinary research thesis were submitted by Indian universities. After awarded thesis can be stored in the Shodhganga. The aforementioned link is very useful to identify the research gap followed by to develop new materials research by the research scholars.

UGC-MOOC

Students cab access course from anywhere and at any time. In addition, students can interact with the other people via this web tool. The some online open educational web tools is given below.

- E-Grid
- eGyanKosh
- Sakshat
- e-PG Pathsala
- Virtual Learning Environment of Delhi University (VLE)
- Consortium of Educational COMMUNICATION (CEC)
- National Science Digital Library (NSDL)
- National Repository of Open Educational Resource (NROER)
- E-BIDYA
- Flexi Learn Open Course Portal
- A-VIEW
- SWAYAM
- SWAYAM PRABHA

The Significant and Demerits of Some Web Tools is given below:

Google Site

- **Significant:** Google site is belongs to an American Search Engine Company. We can able to do the searches the research publications, e-books, and Review articles via library's Database and catalogue.
- **Merits:** It is very easy to find about any topics information's very quickly. It is excellent online tool to read any title information. It is one of the greatest search engine web tools in the world.
- **De-Merits:** All content are not reliable and accuracy on the internet. Because, anyone can post anything about same title. Google only looks up content on the open web source. Determining if the material biased or outdated may be challenging.

Google Scholar

- **Significant:** By doing a single database search, researchers may perform research effectively and save time. It looks through the same academic journals, books, and papers that you look at in the databases and catalogue of the library.
- **Merits:** Variety of documents is available, which is related to the academic field.
- **De-Merits:** Many of the older articles not able to find by browse certain title. No way to restrict search such kind of results.

Research Gate

- **Merits:** Research Gate is the one of the leading a web tool for all researchers throughout the world. The aim of this research gate tools, to know the is research hot topics is going on and updated research field. Meanwhile, there are several similar websites, such as Researcher ID, and Academia.
- **De-Merits:** Without your concerns, your research work can able to appear through the researcher network.

Microsoft Edge

- **Merits:** Edge is cloud-based, which allows users to access their files and applications from anywhere with an internet connection. This flexibility is particularly useful for remote work, collaboration among teams, and for individuals who need to work on the go.
- **De-Merits:** disadvantage of Microsoft Edge is that it is not the best, especially when compared to Google Chrome and Mozilla Firefox.

MS Teams, ZOOM and Google Meet

- **Merits:** It is saved the time and also cost effective. To learn very fast about any information than traditional teaching method. We can able see the relevant information videos, PPT and e-notes etc.
- **De-Merits:** The network issue problem and face to face meeting is not possible at very time.

Charts and Graphs

Comparative study of subscription and open educational resources are consolidated in Table 1 and Table.2.

Table 1: Different Articles Source URL link, No. Articles, and Usage Percentages of Subscriptions Sources.

S. No.	Subscriptions Article Sources	URL	Percentage (%)
1.	Science Direct	http://www.sciencedirect.com/	32.1
2.	Google Scholar	https://scholar.google.com/	25.6
3.	IEEE Explore	http://www.ieeexplore.ieee.org/	15.4
4.	Springer	http://www.springer.com/	10.3
5.	ACM Digital Library	http://dl.acm.org/	5.1
6.	Web of Science	https://apps.webofknowledge.com/	5.10
7.	Taylor & Francis	http://taylorandfrancis.com/	2.6
8.	Ebsco	http://ebsco.com/	2.6
9.	Wiley Online Library	http://onlinelibrary.wiley.com/	1.3
		Total =	100.0

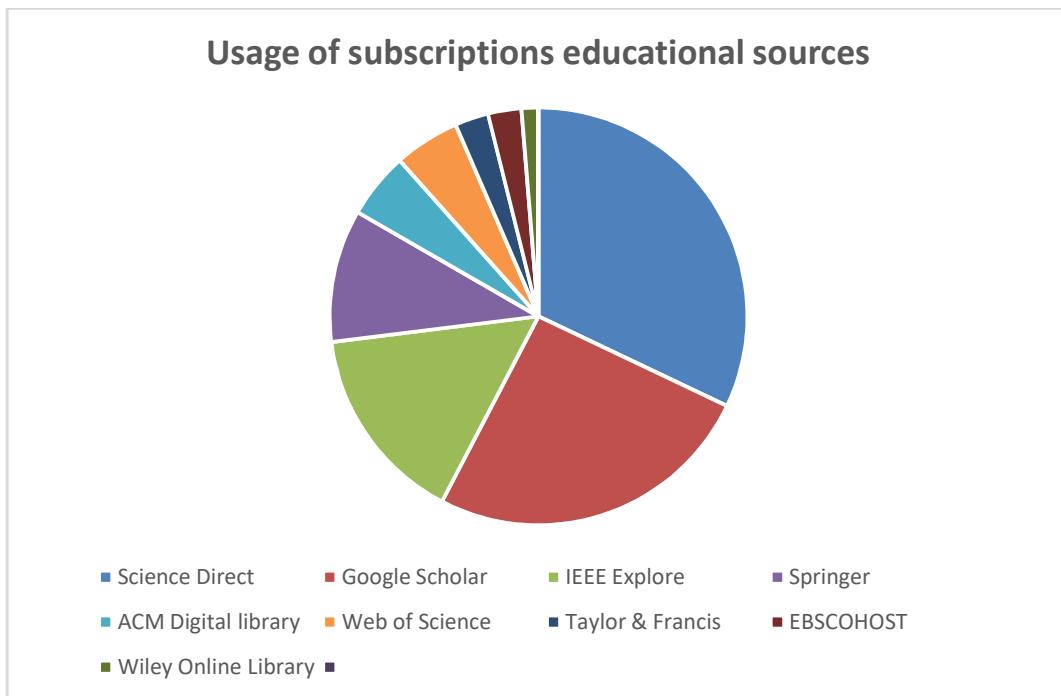


Figure 1: Usage of Subscription Educational Sources.

Table 2: Different Articles Source URL link, No. Articles, and Usage Percentages of Open Educational Sources

S. No.	Open Education Resources	URL	Percentage (%)
1.	NPTEL	https://www.nptel.ac.in	29.1
2.	NDLI	http://www.ndl.gov.in	24.5
3.	ShodhGanga	http://shodhganga.inflibnet.ac.in	20.1
4.	OpenEducationNetwork	http://openumnedu/oencom/	9.1
5.	NRER	http://education.gov.in/national-repository	6.3
6.	e-PG Pathsala	https://epgp.inflibnet.ac.in	4.2
7.	e-Gyankhosh	http://gyankosh.ac.in	3.1
8.	UGC MOOC	http://ugcmoocs.inflibnet.ac.in/	2.4
9.	Ekalavya	http://eklavya.me	1.2
		Total	100.0

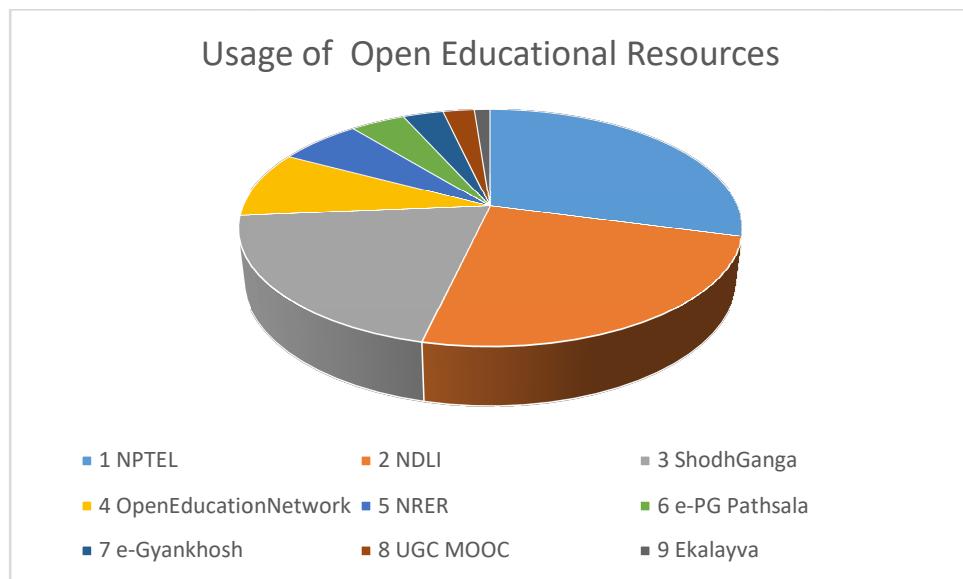


Figure 2: Usage of Open Educational Sources.

CONCLUSION

In today's educational landscape, open educational sources have become indispensable in enhancing both teaching methods and learning processes. These tools not only facilitate the delivery of content but also foster an interactive, engaging, and collaborative environment that is crucial for modern education. Due to the advancement of open educational sources, learners can now access educational resources from any location at any time. This adaptability promotes a variety of learning velocities and styles, increasing inclusivity in the classroom. With their creative approaches to teaching and learning, open educational sources are revolutionizing the field of education. These tools will become more and more important in education as they develop, supporting teachers in meeting the varied needs of their pupils and preparing them for a world that is changing quickly. But in order to fully reap the rewards of these resources, it's imperative to deal with the issues and provide fair access for all students.

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