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RESEARCHERS EXCELLENCE IN TECHNOLOGY THAT ENHANCES TEACHING, LEARNING AND RESEARCH PLAGIARISM IS ACADEMIC DISHONESTY



By : M.S.Yatnatti: Editor and Video Journalist Bangaluru : Reportedly Plagiarism is considered academic dishonesty and a breach of educational ethics. It is subject to sanctions like penalties, suspension, and even expulsion. Recently, cases of 'extreme plagiarism' have been identified in academia .Time is ripe .Educators need to adopt the technologies to impart education. Online education clubbed with outsourced Lab are the present and future of education .You agree or agree not to agree. This is a reality written on the walls on universities .Entire teaching and learning revolve around minds getting and sustaining their attention and interest holds the key to success in this tricky process. Teaching and learning can be tech enabled. Smartphone's tablets desktops laptops computers have become class rooms laboratories and research centers and playgrounds and virtually become everything..Sakai software platform is one of a vibrant, international community that collaborates to create technology that enhances teaching, learning and research. Member organizations include large universities and small colleges, K-12 systems, hospitals, government organizations, research societies and political parties. In 2004, four leading U.S. universities, together with Jasig, the parent organization of the uPortal portal framework, began a collaboration to combine and synchronize their assorted learning software into a collection of integrated, open source tools. MHRD UGC association of Indian universities NAAC and all universities should conduct seminars and workshops to educate and train the University students to use latest technologies in research and bring out a common code conduct for all students of all Universities and all should support the University administration for taking stern actions on students violating university rules and code in respect of research . Research Students can Collect Organise Cite Sync Collaborate and Grab your research with a single click. Zotero is software that allows you to easily collect, manage, and save bibliographic information about the items you find on the Web. It also works with word processing programs to help you easily cite your sources as you write. The reference management is the most laborious task while preparing a research paper or thesis .The important point to be noted is that publishing a paper or article by using already published content without adding citations to the source is known as plagiarism which would lead to copyright infringements .In research and universities plagiarism is considered a serious issue .A reference manager makes your life simpler by adding and removing the references swiftly. Samsung Smart School is one among the best : These mobile educational solutions enable students and teachers to benefit from a broad range of education-related information on their mobile device. They include up-to-date school information, access to crucial learning resources and real-time attendance and participation trackers, all of which serve to increase your students' engagement and performance.

Zotero is an amazing open source software tool that helps writers to manage the various references used in their research articles and presentations .Essentially it helps them to add these references in their articles with minimal drudgery but with surgical precision. Reference management software, citation management software or personal bibliographic management software is software for scholars and authors to use for recording and utilising bibliographic citations (references). Once a citation has been recorded, it can be used time and again in generating bibliographies, such as lists of references in scholarly books, articles and essays. The development of reference management packages has been driven by the rapid expansion of scientific literature. These software packages normally consist of a database in which full bibliographic references can be entered, plus a system for generating selective lists of articles in the different formats required by publishers and scholarly journals. Modern reference management packages can usually be integrated with word processors so that a reference list in the appropriate format is produced automatically as an article is written, reducing the risk that a cited source is not included in the reference list. They will also have a facility for importing the details of publications from bibliographic databases. Reference management software does not do the same job as a bibliographic database, which tries to list all articles published in a particular discipline or group of disciplines; examples are those provided by Ovid Technologies (e.g. Medline), the Institute for Scientific Information (e.g. Web of Knowledge) or mono disciplinary learned societies e.g. the American Psychological Association (PsycINFO)). These databases are large and have to be housed on major server installations. Reference management software collects a much smaller database, of the publications that have been used or are likely to be used by a particular author or group, and such a database can easily be housed on an individual's personal computer. Apart from managing references, most reference management software also enables users to search references from online libraries. These online libraries are usually based on Z39.50 public protocol. Users just need to specify the IP address, database name and keywords to start a Z39.50 search. It is quicker and more efficient than a web browser. However, Z39.50 is a little out of date. Some popular scientific websites, such as Google Scholar, IEEE XpI Which one is the best reference management software? That's a question any student or researcher should think about quite carefully, because choosing the best reference manager may save lots of time and increase the quality of your work significantly. So, which reference manager is best? Zotero? Mendeley? Docear? ...? The answer is: "It depends", because different people have different needs.

Engineering research demands a computation platform that is free from patents and it is not plagued by proprietary rules. It is all about innovation. Engineering complex systems and making significant contributions to any particular field of research is the key motive to any researcher. Budding researchers should build on existing research platforms without ambiguity. In this context, it is necessary to recognize the importance of open source software and GNU general public licence. The software tools I currently use in my research include Ubuntu-14.04-LTS, which is a Debian distribution built on OS Linux-3.19.0-61-generic kernel. The processor used is Intel N3540, which is a low wattage (TDS) processor with a decent clock frequency. The processor gives considerable battery backup and performance. The other handy open source software tools are:Linux:Linux kernel 0.01 was released by Linus Torvalds in 1991. He wrote it in C programming language with a GCC compiler. It had 10,239 lines of code then. Now, it has more than 2 billion lines of code. An estimated 3 billion Android phones with the Linux kernel were sold in 2014. Almost all electronic devices support this code. Supercomputers and servers are run on Linux. They are so stable that upgrades are possible without even shutting them down. In 2005, Linus Torvalds said, "Linux is evolution, not intelligent design". Hence, this portable module will keep on upgrading into new variants and a feature rich kernel, with the GNU general public license and keeping the source code intact.

LaTeX:In research, publication is a must in order to validate the work. With LaTeX, you can write a journal or conference paper without worrying about its alignment. LaTeX is capable of aligning books, your thesis or even your presentation slides. Learning LaTeX can be a challenge, but a graphical user interface (GUI) like Tex Live can be used for easy learning. The file system in LaTeX is open source. After installation, you can check your software package version in your computer by typing the following command in command line Interface (CLI or terminal).

Scilab: Apart from a calculator, array based computation is the next step to engineering or scientific research. MATLAB is known for such high level numerical computation but it is a proprietary software. Scilab is an open source equivalent of MATLAB. It was created in 1990 by researchers from INRIA and ENPC in France.

Inkscape: High resolution images with diverse formats, such as scalable vector graphics (svg), can be flawlessly achieved with this open source software. It has all the flexibility to interact with LaTeX and it has become my favourite drawing platform.

LibreOffice: We are all helplessly dependent on Microsoft office. But the MS Office package comes with a price. MS Excel is the favourite of many engineers. Its equivalent is LibreOffice Calc, which helps in managing data adequately. Its limitations can be overcome with programming skills. Slide preparation and writing is bypassed by LaTeX.

Artha: A dictionary is one of the overlooked components in any computer. It is good to have a dictionary handy. It is also possible to set shortcut keys of your favourite to access the word you want on your screen, at the click of a button.

Calibre: Richard Dawkins once said, "Where I come from, a scholar is somebody who's read more than one book." Reading books in an e-reader or smartphone is current trend. Personality, I won a Kindle device.

VLC Media Player: Whether it's video lectures or your favourite sci-fi movie, VLC supports almost all formats. It has good networking capabilities and will remain favourite media software.

Zotero : Researchers should give valid citations or bibliographies to support their claims. There are numerous bibliography management software packages available. Zotero is free and open source, adequate for almost all of your citation needs.

Zotero [zoh-TAIR-oh] is a free, easy-to-use tool to help you collect, organize, cite, and share your research sources. It lives right where you do your work—in the web browser itself. A personal research assistant: Zotero is the only research tool that automatically senses content in your web browser, allowing you to add it to your personal library with a single click. Whether you're searching for a preprint on arXiv.org, a journal article from JSTOR, a news story from the *New York Times*, or a book from your university library catalog, Zotero has you covered with support for thousands of sites. Store anything: Zotero collects all your research in a single, searchable interface. You can add PDFs, images, audio and video files, snapshots of web pages, and really anything else. Zotero automatically indexes the full-text content of your library, enabling you to find exactly what you're looking for with just a few keystrokes. Visit for a quick start guide at https://www.zotero.org/support/quick_start_guide . Zotero is installed by visiting [zotero.org](https://www.zotero.org), clicking the Download button on the page, and selecting the version of Zotero you wish to install. Zotero is, at the most basic level, a citation manager. It is designed to store, manage, and cite bibliographic references, such as books and articles. In Zotero, each of these references constitutes an item. For Zotero for Firefox, click the Zotero icon in the Firefox toolbar to open your Zotero library. This brings up a pane with all of your references, collections, and notes. You can close the Zotero for Firefox pane by clicking on the X icon in the upper right of the Zotero window or by clicking on the toolbar icon again. The Zotero window does not have to be open for you to do "quick saves" of material you want to add to your research collection. Every item contains different metadata, depending on what type it is. Items can be everything from books, articles, and documents to web pages, artwork, films, sound recordings, bills, cases, or statutes, among many others. The left column includes My Library, which contains all items. Clicking the button above the left column creates a new collection, a folder into which items relating to a specific project or topic can be placed. Think of collections like playlists in a music player: items in collections are aliases (or "links") to a single copy of the item in your library. Items can be assigned tags. Tags are named by the user. An item can be assigned as many tags as is needed. Tags are added or removed with the tag selector at the bottom of the left column or through the Tags tab of any item in the right column. Up to 6 tags can be assigned colors and numbers. Numbered tags can be quickly added or removed using the corresponding number keys on your keyboard. Quick searches show items whose metadata, tags, or content match the search terms and are performed from the Zotero toolbar. Clicking the spyglass icon to the left of the search box opens the Advanced Search window, allowing for more complex or narrow searches. Advanced searches can be saved in the left column. They are similar to collections, but will update with new matching items automatically. Items can have notes, files, and links attached to them. These attachments appear in the middle column underneath their parent item. Attachments can be shown or hidden by clicking the arrow or plus sign next to their parent



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