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## AICTE MANDATED SMART CLASS ROOMS "COMMON HARDWARE MULTIPLE SUBJECTS OSS WITH "PORTABLE APPS & OS" LOADED PC STICK AND PENDRIVES



By : M.S.Yatnatti: Editor and Video Journalist Bengaluru : Smart Class Rooms: Common hardware and multiple subjects OSS with portable apps and OS installed in pen drives and PC Sticks subject wise will be revolutionizing higher education system India in near future by making each class room as smart class room for multiple subjects .AICTE has mandated smart class room for each department in institution getting its approval. Classrooms architecturally designed with optimal room for natural light and air, provide a vibrant backdrop to the academic achievements and offer a unique place to study, relax and develop. The classrooms are required to be equipped with an array of Hi-Tech equipment which enables the competent teachers to conduct classes in such a manner that the students can make use of all the available resources at the click of a button. In this very special learning environment, BIG TV CompuStick/Pluggable Pen drive Desktop/Laptop for each student and high speed WIFI internet. All these facilities enable the teachers to teach in a unique and innovative manner which makes the students feel involved in the teaching - learning process and improves the pace and quality of learning. Smart class room need subject wise portable OS with OSS Applications .Teacher and each student can use Portable OS with applications of their subject in their pocket in Pendrive instantly converting smart class room into their subject Lab by plugging in Desktop Laptop and Big TV and rebooting with OSS making it feasible and economically affordable. KPNUT will provide Portable installed OS with applications of their subject in Pen drive which they can keep it always in their pockets while attending their smart class room and save their data in it. KPNUT will provide e learning on each on each Portable OS with applications.

Digital technology and computers have revolutionized education .Class rooms need to have BIG TV screens with HDMI Slot to convert them into PC. Students or class rooms can have Laptops. The advent of computers has changed our very existence .These machines have evolved from being a mere luxury to an essential and indispensable part of our education . We need the computer in its varied forms of laptops and tablets, to communicate, learn, explore, transact and even access knowledge. No wonder then, that computer literacy is looked upon as an integral part of our education process. The institution of higher learning can easily provide hardware .When question of software's comes every institution has no funds for commercial software's to purchase them and also keep them purchasing new versions every year . KPN unlimited technologies Bengaluru is planning to provide unlimited portable OS and portable Apps loaded PC Sticks and Pen drives which students and teacher can carry in their pockets and convert any class room into their subject computer Lab by just plug and play at very affordable prices . Universities in India need to convert every class room into a portable lab .Each teacher and Each student can convert into his subject lab and use it by using portable apps and portable OS without affecting the basic hardware. Portable Apps and Portable OS can be carried in their pockets. The higher education in India is getting revolutionized with use of BIG TV Screen (which can be converted into a computer by Compu Stick or PC Stick ) as black board in class room and each student with a lap top or a desk top .This is the basic hardware that need to be provided in each class room.KPN unlimited technologies Bengaluru is planning to provide each subject teacher and each subject students with portable Linux OS and portable Linux based Apps of his choice and with this each teacher and students can convert it into his subject lab by using potable OS and portable Apps provided by KPNUT .These apps can run from any portable device (a thumb drive, CD, DVD, portable hard drive or other device Compu Stick ) without needing to be installed directly on the hard drive of the system you're using. You can visit [www.kpnutechnologies.com](http://www.kpnutechnologies.com) or contact [kpnutechnologies@yahoo.com](mailto:kpnutechnologies@yahoo.com) for your proposals and a quote or for choice portable OS and portable Apps on CD/DVD or Pen Drive or on Compu Stick or PC Stick or Micro SD card with choice of your open source software portable OS and portable Apps loaded PC Sticks and Pen drives according to your subject needs. KPN unlimited technologies Bengaluru will load required potable app on USB or Comput Stick OR pc Stick with required Portable App and Portable OS . IT is considered as an enabler for Indian to transform itself from a developing country to an industrialized nation. IT has left an immense impact on the nature and structure of higher education in Indian and will continue to play a prominent role in its future. KPNUT presents to the readers how IT utilization has enabled the country to offer quality education to its citizen in-line with the requirements of its labor market and the Net generation. KPN Unlimited Technologies is a vibrant company whose activities span over diverse areas within the broad realms of information technology. KPN Unlimited Technologies is a Private company with professionals teamed up to offer the IT industry a radical growth. A place where imaginative minds have the opportunity to explore new ideas and implement cutting edge solutions. Our professionals are constantly abreast with the latest technology and are proven leaders in redefining industry standards with new products.

SMART CLASSROOMS: Creating the new wave in teaching, city campuses are embracing technology in the classroom. Some higher education institutions have employed the path-breaking 'flipped classroom' model, an active learning model that inverts traditional lectures by using technology to allow students to listen to the lectures online at home and use class time for collaborative learning and activity-style homework assignments. The in-class discussion, personalised student guidance, team based skill development and enrichment activities are allowed by moving content delivery outside of class time, the Annual Status of Higher Education of States and UTs of India, 2015 by the CII and Deloitte report states. Increased computer penetration in semi urban areas has made it possible for students in small towns and villages to access the best content from around the world. This is just getting started and will lead to long term democratisation of knowledge. "Online education portals and home tutoring have given education a new lease of life especially to those living in remote areas. Non-profit organisations and large enterprises have begun donating computers and the required connectivity to villages and towns to enable the children and adults to access education within their rural environment. Through video conferencing, it is now possible for educationists to tutor students globally, hence bridging the divide in education and making learning accessible to all. Transform your classroom into a hub for digital learning and teaching with a device that turns monitors into fully functional computers—the Intel® Compute Stick. Development of KPNUT Portable Labs: Today every student need computer and computer needs software's. The computer Labs is costly affair to the higher education institution and training institutes to have different labs for different subjects with different hardware's and software's. Institutes can adopt KPNUT revolutionary concept of portable lab in teaching and training students with minimal hardware and OSS Software's different labs for different subjects with light weight OS with specific software application on different domains with BIG TV screen in each class room along with Black board and every subject teacher coming with Compu stick with KPNUT portable OS converting BIG TV screen computer where practical teaching become easy and all students coming with Lap Tops with portable OS on USB or Live CD pertaining to their subjects working along with teacher . KPNUT will provide Light weight Live CD /DVD portable OS on USB Compu stick with KPNUT portable OS re-mastering available Linux distributions with specific OSS application for practical teaching. Transform your classroom into a hub for digital learning and teaching with a device that turns monitors into fully functional computers—the Intel® Compute Stick. Teaching with proprietary software too costly and using open source software in an open access environment is less costly. To this end, the concept of the LiveCD versus a standard Microsoft Windows architecture as a desktop platform for general-purpose computing needs within a public access computer lab can be better option. To this end, the concept of the portable OS on USB a desktop platform for general-purpose computing needs within a public access computer lab can be better option. To this end, the concept of the Compu stick with portable OS which can directly connected to BIG TV Screen as black boarded in class room and each student on a desk top use live CD or portable OS on USB as a desktop platform for general-purpose computing needs within a public access computer lab will be explored. Any teacher or student Carry Any Operating System or portable apps (compendium of OSS) in his Pocket CD DVD Portable Lab on Stick and Portable OS with Application on compu stick according to his subject. "Technology Assisted Learning Projects (TALP) are being introduced. Incorporate technology into teaching and Technology could not replace a teacher totally. "Technology and teaching must go hand in hand. Technology is important. Portable apps installed on USB are provided .Transform your classroom into a hub for digital learning and teaching with a device that turns TV monitors into fully functional computers—the Intel® Compute Stick. Tech essentials to empower growing higher education and training and recruiting business For Universities training institutions colleges. Turn your class room into any IT lab on any subject .KPN Unlimited Technologies has produced a top-notch product that fills a gap education and training using computers labs in each class rooms . No need to designate one or two rooms as Computer Lab. Every college needs LABS and that too portable labs and each hardware available can be converted by teacher into any domain lab by using our specific Compu stick with portable OS which can directly connected to BIG TV Screen and used on any student Laptop. KPNUT will give on line training on all these unlimited technologies with certifications and recruitment and placements service. It's not always necessary to reserve a special computer lab when you want to integrate computer activities into your course. Traditional computer labs have fixed seating and aren't well-suited to group work or discussion; students are hidden behind large screens.

COMPUTER-BASED EXAMS :Digital technology and computers are gradually replacing the use of physical tests and moving towards a paperless environment. Classroom assignments have moved out to homebased testing. "We have online presentation of assignments by students where we attest them and mail the results back to the students," reveals a teacher. "Online tests are the future and are gradually replacing physical testing. This revolutionary pattern has enabled even those who are mobility-impaired, to take tests from their own homes. "Standardised testing has moved to computers over the past decades," points out an educationist . "This protects the integrity of the testing process and circumvents the logistical challenges of holding a physical test all over the country on any one day. Further, with the introduction of adaptive tests, since each test is uniquely tailored to a student, scores obtained are truly reflective of a student's knowledge. "As India is surging ahead towards a cashless economy made possible by the digital process, the use of smart computing has only begun. KPNUT is planning to bring one by one as per request of educational institution requirements several thousand available open source software's Top apps and portable OS in 2017 that help business education training to grow .KPN shall provide all the available technology for user thousands of apps and hundreds of Linux Distributions .Why do you need portable apps? Well, we're usually faced with a space crunch on our hard drives due to the huge file sizes that result from 4 GB and Full HD videos, 20MP photos, lossless audio rips, graphic-heavy games, and the sheer amount of data we store on our PCs. Also, it doesn't make sense to install each and every software most of which we might use occasionally on our already packed computers. In such cases, all you need to do is use a 16GB pen drive and pack it with the myriad software that you need. Using these is as simple as plugging the USB stick into your machine, and clicking on the app to start. Besides, your 'cleaner' computer will boot up faster, and you can also use these software on the go when your own PC is not at hand. If you travel frequently, or going to attend seminars or you are converting existing computer lab to your specific Lab or taking your class it can be frustrating to have to use a system that doesn't have your favorite open source software already installed. Fortunately, many of the most popular open source applications come in portable versions that you can take with you on a USB thumb drive or other portable media. What makes an application portable? These apps can run from any portable device (a thumb drive, CD, DVD, portable hard drive or other device) without needing to be installed directly on the hard drive of the system you're using. They also don't leave behind any files on the host system, and they don't interfere with other software installed on that system. For this list, we've compiled some of the best portable open source applications available. Some of these were originally designed by the project owner to be portable. Others are open source applications that have been repackaged for portability by a third party.

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. 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 for 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. 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.

Reference Note and bibliography: For further details and down load and other information you are requested to visit the website at sakaiproject.org. Sakai provides us with the flexibility we need to offer a learning management system to support the teaching methodology. In the similar way for further details and down load and other information you are requested to visit the website at [zotero.org](http://www.zotero.org) . As per reports and information available at <http://www.samsungsmartschool.com> Samsung Electronics Co. Ltd is multi-product global company . Fortune Global Top Company,Samsung: With the success of its electronics business, Samsung has been recognized globally as a industry leader in technology and now ranks as a top 10 global brand ore and arXiv, do not support the Z39.50 protocol

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Everybody is facing Problems, Problems?

Kindly write to us, we analyze and convince our selves and if appropriate then we will take your problems, to concerned authorities, ministries, i.e., through our news paper property politics and try to help you. We also provide consultancy and Liaison service on case to case bases as per agreed terms and fees. Write your problems with Xerox copies,

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