CHAPTER 2

LITERATURE REVIEW
Literature Review

Boehm, Davis and Ross (1996)

According to author the number of studies conducted on object oriented analysis which has making direct association between OO and some other methods. The author given several methods of system building methodologies such as procedural, data oriented and checking the quality of designs and solutions of different projects. The result has somewhat encouraging to object oriented analysis.

Kaun C.Chen (2004)

The aims of this study to introduce the characteristics of procedure based and object oriented language. It also shows the performance between these two programming languages. It tests only basic operations over the other concepts not contain complex operations. They calculate runtime performance of different OOP and procedure based operations using C++.The goal of this research to build business application for comparisons of programming languages.

Michael Blumenstein (2004)

The author describes the experience in coordinating a first year object oriented course. It shows in the course structure a content have evolved to implement and evaluate an objects as an needed. For student learning outcomes used variety of assessment strategies. They get backup by students feedback and performance. He finding in many institutions around world has adopted java as the language to first year student. But it need object oriented programming to first year student because these concepts of object oriented programming are important. It shows major issue that presented itself was the choice of methodology for teaching object oriented programming. In teaching methodologies two approaches to teaching objects i.e. - object first and structure program first, with the aid of used references. Finally the author conclude in this paper group study, feedback of students is important for learn object oriented concepts understanding and solving their problems.


The given paper describe object oriented methodology are mostly used in analysis and design. This paper compares structured and object oriented methodology. For the
designing purpose it uses different life cycle models. But according to author system development life cycle (SDLC) is used to development. The author shows both OO methodology and structured methodology but Object oriented model is beneficial.

**de Villiers (2006)**

In this paper the author gives importance of e-learning. It gives the some rhetorical questions on e-learning and try to finding solutions on them. This paper introduces a synthesis of contemporary learning theory. With the use of e-learning, developing educational applications for educators and designers. It describes the interactive learning environments, learning theory, web base learning and educational technology. It shows basic definitions of e-learning as instructions delivered on a computer by way of internet or intranet. This paper overviews the concept and evolution of e-learning for educational artifacts.


The prime aim of author to show e-learning system is major factor in recent year. The most of the universities uses e-learning technology for effective working. It also shows impact of learning object and e-learning in education sector. It also analyzes difference between traditional teaching method and teaching by e-learning, among the concept of OOP using C++. With the use of learning objects provides benefits and increasing the speed and efficiency of teaching.

**Stavroula Georgantaki and Symeon Retalis (2007)**

The author describes educational tools which can support the instructional process of object oriented design and programming. They suggest that object oriented programming paradigm highly important for students. With the use of such methods students overcome learning difficulties. They discusses on tool which could influence the teaching of object oriented design and programming. The software industry exposure to object oriented programming has become increasingly important in both academia and industry. It gives lots of references for effective ways to teach object oriented programming. The scope of this paper, author shows educational tools in object oriented programming. Evaluation study about the learning effectiveness of these tools implemented. For effective utilization of educational tools for teaching programming is well documented. They show seminars will be conducted on OOP.
Asagba et.al. (2008)

In this paper authors discussing the difference between structured and object oriented programming methods. Here structure programming organizes easy understanding programs. Whereas object oriented programming (OOP) consist of set of objects which vary dynamically. An object oriented approach makes programs more intuitive to design, faster to develop and easier to understand. But use traditional structure approach used more steps to perform action. They give amenable result of developing module. Finally the author concludes OOP approach to software design that facilitates rapid development of applications. They utilize OOP techniques to develop modules. The structure programming could not divide programs manageable part but OOP solved given problem.

Evastina Bjork et.al. (2008)

According to this research authors suggest technical issues on e-learning. Need of e-learning platform accessible to everybody in the society is growing .They finds in this paper e-learning for all is possible to obtain. They experiments how to make examination on the internet with high reliability. With the use of that method prevent students from cheating .All internet users make possible e-learning.

Ivaylo Donchev and Emilia Tondorova (2008)

The author said that teaching problems of object oriented programming and difficulties to understanding. This work present to analyze and classify the difficulties arises in teaching of OOP in universities. The aim of this study to dealing with data in class and clearing the behavior of objects in program. Taking peculiarities while defining objects and classes. The most important aspect of teaching OOP concepts to clear mention classes and objects.

Norazlina Khamis et.al. (2008)

The authors shows in given research, how we addressed this challenge in object oriented programming. There are difficulties occurring to take real programming jobs and programming education with traditional assessments. This paper shows assessments of students in object oriented programming skills. Discuss the issues on object oriented programming assessment. In this paper, the issues and finding possible solutions on assessment object oriented programming. The model can be build to current work for object oriented for object oriented programming.
Baomin Qi and Lu Li and chengho Wang (2009)

The author describes the way people now a day’s communicate and learn electronically. The effective learning method is e-learning and creating better environment as classroom based learning. This research intend to learn by e-learning is used study courses and educational programs. This study can be used to developed teaching and learning activities. It experiment e-learning on higher education institutes. From the author point of view teaching and learning methods are not effective with the use of e-learning only, but also need to classroom virtual blended model.

Tian-tai Guo and Lin Guo and Dong-Sheng Li (2009)

In this paper both author trying to show rapid expansion of higher education in china. They suggest that, need lots of resources or man power for laboratories, teaching staff and experiments. But they found i.e. use of virtual reality technology. Implement virtual laboratory, virtual campus as a virtual education. For better utilization of these resources used network concept local area network (LAN). Author said that, there are some issues are exited such as single function, 2D rendering form, the reality of experiment is not strong, But network virtual experiment good for education system.

Micaela Esteves et.al. (2010)

According to author new technologies as virtual world brings new opportunities for teaching and learning. The author said that conducting research on how teaching and learning computer programming languages. With the use of virtual world environment better effectiveness in learning programming found. Technology becomes most factors in today’s world, with the use of e-learning. The effectiveness also carried out if teacher should check student progress report daily. This research would help us student and learners for better framework for next working.

Minhong Wang et.al. (2010)

The researcher shows in this paper most workplace e-learning applications fail to meet needs of learner. To solve this problem the author need to examine what workplace e-learning requires. They investigate in this research, problems on the fundamental elements of workplace learning environment including learner organizations. For achieve this, a performance oriented approach is proposed. They
introduces web based training learning system, e-learning. Many of the organizations and students uses e-learning technology. Some research already found on e-learning but much of e-learning research based on formal courses in educational institutions. They adopt systematic approach to investigate e-learning environment.

**M.Sivasakthi and R.Rajendra (2011)**

According to both java programming language is most popular in educational system and industry. The teaching and learning java programming has been lots of responsibility. Because the concepts of object oriented could not be understand students or learners easily. The given research shows students facing difficulties to understand OO concept using java. From this study authors investigate learning difficulties of OOP with java and collect data from CSE and IT students.

**Kamlesh Gujar, Surendra Mishra and Pankaj Kawadkar (2011)**

The author gives implementation using object oriented approach is most beneficial than other approach. The model selection is most critical part of development using object oriented. From the evolution of programming languages, object oriented language should prefer. Object oriented concepts utilize effectively by author. The author shows reduce coupling in object oriented programming. Classes concepts in OO programming shows impact in domain of software system.

**Rong-Qin chen et.al. (2012)**

In this paper programming ability is one of the most important to support e-learning for teachers and students. This paper proposed programming platforms for teachers can manage their students, assign some work and submit their programming assignment and receive feedback in real time. They introduce e-teaching, computer programming, e-learning and plagiarism detection. It overcomes traditional methods of assignments in given paper. They said that e-teaching/ e-learning the programming languages, such platform should support student online study. In this paper they finally conclude that, e-learning platform for teaching and learning computer programming. But some limitations in their platform i.e. interaction between teachers and students.

**Devajit Mahanta, Majidul Ahmed (2012)**

According to this paper author suggest the working of e-learning objectives, methodologies and limitation of e-learning. The author utilizes their knowledge to
find the solution on e-learning limitations and they also work on e-learning tools. They gives us the overall world are connected to internet i.e. teaching are easy to electronically form. They fruitfully gather knowledge and education both by synchronous and asynchronous methods. They conclude in this research, it is helpful for ICTS, Vida Conformity, Students and educators etc.

**Harpreet Kaur (2012)**

In this paper author present the working of object oriented programming into software. The problem is that it does not address cross-cutting concerns. It specifies two types of aspect as object and aspect oriented approach. When software build it faces a tangling problem but author tries to handle this problem in this paper. The aim to show how object oriented design patterns can be redesigned into pure aspect oriented design patterns.

**Nabil Mohammed Ali Munassar and Dr.A.Govardhan (2012)**

In this paper researcher said that object oriented approach is better than traditional approach. Traditional software development approach must use of structure programming language. But author suggest that object oriented approach is acceptable. With the use of object oriented approach, we can continuation of object analysis. Traditional or procedural model are limited up to small projects with specific requirement. From overall study object oriented approach is advantageous over traditional approach.

**Xiao-dong Zhu (2012)**

In this paper author describe evolution of object oriented programming languages include their versions. This paper object oriented programming presented in terms of the characters and development. Adoptive learning and teaching in curriculum upon object oriented programming. The author compares multiple programming languages with C++ programming language. Teachers should guide students from the view of objective world; author put teaching tactic in forword reference. It concludes whole building of object oriented thinking by developing programming language object oriented.

**Ekta Srivastava and Nisha Agarwal (2013)**

According to authors, tell us about e-learning and analytical study of different factors of e-learning. From this study the author know that e-learning is growing in
education, training sector and student are adopt e-learning. They give difference between traditional learning and e-learning. Finally the authors conclude that in future e-learning is more powerful. Understanding capabilities are growing rapidly for student using e-learning.

Ivaylo Donchev and Emilia Tondorva (2013)

The author said that now days situations in programming courses at his university and giving us teaching experiences. They providing proper difficulties and fixes in the course of object oriented programming. To overcome these difficulties they supply proper recommendations. A difficulty arises when traditionally teaching programming concepts. The author shows it is very difficult activity to define study of programming. In conclusion author shows content for the object oriented programming in their work to focus on the syntactic features to overcome or avoid negative view. The idea is to finding new technique of program and problem solving.

Rui Huang et.al. (2013)

The given paper shows improve the quality of object oriented system. It also discuss traditional approaches of object oriented system. Authors trying to improve techniques of object oriented system. They cover the key concepts of object oriented design: classes, methods and inheritance.

Shivam (2013)

In this paper, discussing all the concepts about inheritance. Inheritance is the mechanism to creating new class from existing class. The class is referred to as base class and new one is derived class. Objects are most important factor in OO concept inheritance. The benefit of inheritance is user can reused the given code again and again. The author shows in given paper, inheritance is central concept of object oriented programming. Reusability is most important part of programming language including inheritance.

Mr. Sudhakar Parate et.al. (2012)

In this paper author discuss on new emerging technology named as network forensics. Mainly it very efficient against web based attacks. Generally network forensics technology is better method to investigate different attack. That technique solves many network security problems such as access control, system log and router log etc.
Author not only introduced this method but also write review to improve these techniques against attack and it take analysis of different attack and detection of attack.

The author described in this paper about forensics techniques. There are very useful and improve the system. These techniques are scientifically proved. The author described the history about forensics techniques. The first workshop was held in 2001. In this technology structure implicate identification, accumulation, preservation, etc. and because of these facilities this structure used today also. It solve adversity issue in connection also solved various network problems.

Author described about how to prevent from web based attack using these techniques. The web base attack hack the private information of users. So by using these techniques user can secure the information. Is also described related works that how to forensic techniques help to detect attack such as,

- Intrusion detection systems
- Honey pot
- Firewall
- Vulnerabilities detection techniques
- Double guard detecting techniques
- Hidden markov models (HMM)
- Honey net

In this paper the author write about the role of network forensics investigation process with a suitable diagram. The five steps described here,


The different challenges append with the network forensics as described as followed,

Data capture , Data granularity, Data Integrity, Privacy, Data Analysis, Data as legal evidence

All the information is described in this paper with problems and also their solutions. It define in short web based attack, vulnerabilities detection techniques, firewall,
Honeypot, etc. and at last on paper they explains role of network forensic and their challenges.

**Soly Mathew Biju (2013)**

In this paper the researcher show knowing of object oriented concepts is usually a hard task for students and similar manner is difficult or challenging to teach these concepts. While teaching object oriented programming teachers faces number of problems to undergraduate students. Researcher shows the object oriented concept. Some concepts students understand properly but some concept cannot understand .It finally points difficulties in some areas and result, developing self tact or knowledge to teach. It shows learning method improvisation needed.

**Ozgur Aktunc (2013)**

According to Ozgur Aktunc the retention rates of programming have been decreases in united state of America. In this paper, author offer programming courses to many students to write a computer program for the first time. They uses different technologies to teach, it uses 3D environment that has visual and narrating aspect. The main aim of author to increasing skills and motivate students about programming languages problems. It uses animations and virtual world to overcome programming understanding problem. The student can move from basic programming concepts to java programming.

**Odunik SA et.al.(2012)**

Internet is the best medium of learning system it is not only use for learning. It is also useful in business, research, institution, now day we are not need to go anywhere to gain information. We can collect glob information using internet. This paper introduces to convert education and opening around the globe by permitting different types of communication this. Paper also describes the conformation of cloud computing services for education. Could be employing to enhance or alleviate the challenges self assured to E-learning has recorded a slow growth the rural area. Its implementation is plugged by server sustainability.

**R.kamala, E.ramganesh, (2013)**

In this paper describe effective to contribute of computing in education in various method. computing offer more beneficial and reliable services to user like high
returns on investment, reduces maintenance cost, flexible infrastructure etc. this paper also describe many application that regard to improve educational environment. Amazon cloud service are the most extensive cloud service to provide resizable compute capacity. Microsoft educational cloud computing are of about power of choice. A hybrid model of resources it also provide ability to use same Microsoft technology in the class of education. Microsoft@edu it is famous browser to support tools for student as well as researcher. Another popular application of cloud is GAE (Google Application for Education)it is more popular for sharing educational idea for staff, teacher, student it available on free of cost. This paper also describe IBM cloud services it offers design to help education system and also provide services to faculty, student, researcher at school, collages and university. Sales force is another pioneer application of cloud. it is trusted leader in cloud and CRM it provide big discount on educational product

Kamal Dhull(2013)

Development of country is depends on education system of that country. Education contributes to poverty reduction and increase economical growth. This paper describe eLC model it offer software development platform for E-learning task management. eLC is based on model view controller design pattern paradigm. This paper introduce a new shared pool environment for university, colleges, and school.

Wanwipa Titthasiri (2013)

In this paper author introduce comparison between traditional learning method and E-learning method. It is useful to take feedback of student improvement using both method. In this paper author describe traditional learning advantages by using experimental approach in this paper researcher conducting experimental approach on academic semester. It also make two group of student one group can implement traditional study approach second group can apply E-learning approach in the outcome of that research is traditional learning is advantageous than E-learning due to less cost and minimum cost. In this paper shows comparison chart of traditional learning and E-learning. This table clearly indicates the feature of both learning method are different. using traditional classroom student can already interact with the instructor not need of internet technology, classroom is convenient and comfortable,
student not need to computer training. This paper also introduce negative point of traditional learning like student need traveling cost, student prefer small class, high tuition fees, classroom learning require student personally to attendance. This paper also conclude costiveness of E-learning class such as student have own learning schedule. Students have not need to travel cost but E-learning also have some negetiveness. Like high investment, need of internet connectivity, student need to computer training for learning finally researcher suggested.

**Pratik Bhanthi et al (2011)**

This proposed research focuses on the future scope and enhancement of cloud computing for Indian universities. Cloud computing is new technology for implementing web based management of educational activities using E-learning technology. Cloud computing provide modern pathway for university to provide on demand services to student. The deployment of cloud computing will help the universities by decrease the large expense and demand of licence software. Now day india will be developing country and it has need to implement cloud technology in education cloud offer pooling of resources and inter organizational collaboration to reduce expense of resources this will increase research orientation of country. The universities in India as well as all over world growing depression and working load of managing and storing data. University need to web based technology to easily manage data operation and storing data remotely. Cloud provide such type of enhancement. Cloud computing provide the high availability of unlimited computer, on demand self sufficient service, rapid elasticity and location independency of resources. According to propose research cloud reduce skilled labour cost by 50% in operations, configuration and management, it increase capital utilization by 75 % and reduce software license coast. This research suggests the utilization of cloud technology for large data storage and management in universities of India. Although the cloud computing technology is highly beneficial in industry and business sectors. cloud computing provide virtualization and separation of hardware and software data storage hurdle in developing countries like India can be solved.

**Shubhangi thorat et al (2015)**

Communication is basic entity of sharing idea, cloud computing provide wireless communication facility to user. Now days in our research aim is to find the method of cloud based E-learning for solving learning disability. This paper is helpful for
improving communication facility. Using cloud based learning student have not need to purchase powerful system or invest large amount for communication. Cloud computing solve the problem of large investment using cloud based learning student can easily communicate with global trainer any where, any time in globe. Using cloud feature student can access and shared information using there laptop, mobile, tablet. The aim of propose research is to develop Bluetooth attendance system architecture for mobile client. The advantage of this system is to use wi-fi technology and provide high availability.

This paper also analyzed existing system that can be used in college premises. In year 2012 developed the application network chat system based on socket and cloud computing but it can be only limited for chatting application. In year 2013 developed cloud computing application for mobile also in same year MIT SAT an automated student tracking system using Bluetooth and eyes was developed but this advantage is that in this application range is main problem and proxy attendance. In this paper discuss various aspect of cloud computing for communication but propose model architecture are not only used for educational environment but also used for corporate world, health care, political and social world.

Kiran Yadav (2014)

In this research researcher prove the education play important role in maintaining the economic growth of country and feature of cloud computing to enhance education system. In presence research conclude how cloud computing is helpful for educational institute, student, teacher. Faculty, parent and staff. The proposed architecture of cloud integrate the whole college system to facilitate various cloud services. Cloud provided various services such as SaaS provide any time, any where, apps facility for student. It only require web server, the best well known example is MicrosoftLive@edu which provide office application and communication facility. PaaS service provide operating environment in which application run, PaaS include SalesForce.com development platform, Microsoft, azure, Amazon. IaaS service provide on demand data centre. This paper also discuss drawback of existing educational system, old education system suffer from poor infrastructure, poor teacher, poor resource availability. For solving this problem we need to implement cloud based education system, it provide personalized learning, reduce cost, high accessibility, no extra infrastructure needed. Cloud based education system improve existing education using modern approach of learning.
Jaykeerthi.M (2014)
Enhancing traditional learning government provide ICT lab for government school. E-learning is modern methodology to collaborate learning with technology. But problem is that when we implementing E-learning in rural school need to invest large expense for license software, machine, projector but solving this problem cloud is the best solution. In presence research researcher can study government school in Tamilnadu that can be implement cloud based E-learning to enhance education quality in Tamilnadu. The quality of education is very good in Tamilnadu but it is not sufficient because more teacher, well building infrastructure, quantity of student only this things are not sufficient to improving the quality of education. We need to variation of technology, cloud computing provide web based services for increasing education quality in minimum cost with high availability.

Hemant S Mahale (2012)
In educational sector information generated every day, it has need to stored somewhere. Now days cloud computing perform vital role in multiple sector such as business, education, social service because it has very low cost and high availability. Cloud provides data storage and processing large data set over internet with systematic manner. In propose cloud architecture can be defined the details terms of cloud implementation. In this architecture there are multiple server are placed at remote place to storage global data and it can be shared information. The accessing criterion of this architecture is user can simply launch their desktop application and connect the internet using browser. Using browser we can fetch information stored in server using network resources like internet. Data centre form the data storage responsibility and manipulate hug information virtual machine perform the role of data separation between different user. This paper provide new approach to enhance learning methodology using cloud based learning

Habib Ullah Khan (2013)
Communication performs the role of heart in all kind of interaction in educational environment. In old learning method is faced to face oriented and this kind of learning method is plain lecture method. E-learning transform the plain lecture into multimedia, E-learning provide some new approach to educational institution the proposed research is invent the method to improve group work activity. Group work
activity grows the potential of student and gives finishing to soft skill for adopting new technology. In existing education faced many problem regarding group work activity and faculty do not properly manage the group work activity. But researcher use E-learning approach to systematically manipulate group work activity. This approach was carried out in Dhofar University evolving under graduate student. This research propose the online working group each group have one group leader and all members in group are easily communicate with other group using message. Group leader is responsible for breakdown the work of assignment. Every member of group is bounded to submit this work end of each week or within schedule can make by group leader. Researcher use t-test method to identifying significant result of group work method using E-learning approach.

**Barile et al (2009)**

In this research paper researcher find the method to solve E-learning problem of disabled students. This research indicates the real time experimental based approach to enhancing educational method. In this paper shows report of 223 student with disability, 58 campus disability service provider, 28 professor and 33 E-learning professional from Canadian college and university researcher use to apply the following procedure to resolving E-learning problem of disabled student. Researcher first recruit participant then make a group of each four student for online questionnaires after then asking demographic question after implementing of E-learning technology 62% student indicate that require adoptive technology such as hardware and software. In this research first maintain the table for indicating percentage of various type of disabilities, finally the research find the standard deviation of student and solving the problem of E-learning using exploratory method.

**Eugen Zaharescu (2012)**

This paper presents the crucial information about the most useful software systems that are useful to hold educational tools for collaborative method of learning and platforms control modern enhancing educational virtual spaces that can join adaptive video-conference facility for student, application access using mobile devices. Modern e-learning technologies can supply most important features like, collaboration of modern technology with student learning activity and group work ability of student in rural education based on internet infrastructure. This presence research describe basic architectural concepts and principles are imported from grid computing and
cloud computing systems, IBM Smart Cloud, Microsoft Azure, IBM Tivoli- Live Monitoring Infrastructure Services, IBM Computing on Demand (CoD)™ World-class social networking services and online alliance tools, including file sharing, Web conferencing, and instant messaging are described subsequently (e.g. IBM Lotus Live™). Cloud computing architectures for improving education services for rural education and disabled students (IBM Cloud Academy program). Cloud-based E-learning architecture deploys layered structure of services software as service (SaaS), platform as a service (PaaS) and infrastructure as service (IaaS) provide implicit resources by Cloud Computing researcher study multiple modern architecture to implement storage and compute resources. A fundamental framework for Private Cloud Computing-oriented educational E-learning implements the similar layered format cloud computing facility such as SaaS, PaaS, and IaaS and essential resources and it fulfill the E-learning requirement. In proposed Private Cloud should provide important attributes such as service scalability, reliability of services, elasticity. In this proposed system architecture fully support and execute cloud based application for E-learning.

Sunny Rawat et al (2013)

Education is the basic need of society to enhance their lifestyle. Now day we observe important of education in many case study, and development ratio of country depends on ratio of education. This proposed research is important to find hurdle of education in Darjeeling. Around 65% of the State's population is living in rural areas and this things are same in other state. The paper discusses how the Indian rural educational system, especially region of Darjeeling researcher visit to some different rural area to collect information of education system. The objective of this proposed research is to find out the current situation of rural education of Darjeeling, finding require facility to enhance education, know the impact of education on rural people, contribution of government to improve education system, to find problems in rural education by using case study. proposed research find some new method to improve education in Darjeeling based on primary as well as secondary data taken from journal, research paper and visit to place. it define method to provide free standard education to rural student and Implementing new teaching methodologies and Assessment system. This research finds problems in rural education such as absence of libraries, poor infrastructure, poor accessibility to road, absence of hostels, the other problem of rural education in Darjeeling is Teachers of rural schools in villages and small towns
receive low salary so there is a possibility that teachers do not take efforts devotionally. Most of the schools do not have proper well furnished and clean infrastructure. Therefore, they do not provide computer education, physical education and additional-curricular activities due to lower economy. After the study of rural education researcher find problems regarding rural education and proposed some possible solution and method.

Dinesha H A and DR.V.K Agrawal(2011)

This paper focuses on implementing advance technology tools in rural education. In rural area few school are well facilitate . but lack of school do not provide proper education due to insufficient resources , lack of expenses and insufficient knowledge . this paper describe virtualization technology to solving traditional learning problem . which provide virtual desktop, virtual storage . in virtualization is the integrating multiple core into a single die. this paper also describe “moodle” it stand for modular object oriented dynamic learning environment. Daas offering database as service .SaaS offer software packages to be purchased by individual customer and PaaS offer facility to support entire application development life cycle .NGO educational cloud introduce the functionality of cloud computing to improve educational methodology including school ERP, E-learning, virtual classroom, school portal, university portal, and university ERP. Educational cloud provide many beneficial aspect elasticity, reliability, quality of services are non functional aspect and technical aspect .this paper describe the kaligidhar trust is multifaceted, non-profitable charitable organisation working for rural education and cloud computing providing effective solution to achieve goal of quality education.

Lincy Meera Mathews and Dr.bandaru rama Krishna Rao(2012)

This paper describe components of rural education system. In current scenario education system in village facing many problems open space learning, less infrastructure, less amount of knowledge and equipment. This paper describes feasible rural education system. The students having rural background facing problems in semantic web based education system.
Swati Vitkar (2012)

This paper introduces a new paradigm of higher education and also explores the potential of cloud computing to improve the traditional model of learning using cloud-based learning to implement design and manage support learning. In cloud architecture, define two things: service consumer & service creator. Cloud service consumer needs to protect anytime anywhere access to cloud computing architecture defining the capability of virtualized infrastructure. This paper also describes benefits & limitation of cloud computing and various security issues.

Pranay Kumar et al. (2013)

This paper describes various applications of cloud computing which will help students, staff, trainers, and institutions to improve the rural education system. This paper also describes some approaches of E-learning service. Like E-learning program based on computer, computer-based training, and effective approach is computer-supported collaborative learning approach CSCL focuses on the behavior of students in the classroom, sharing of information. In this paper, the author writes about network security. The network security is the most essential part of every network. To protect network from unauthorized users, threats, or attacks use the security software. Here the firewall network security is described. The IP firewalls are used to set up, maintain and examine the tables of IP packet filter rule in the Linux Kernel. The firewall checked the all rules and satisfies about the packets to matching to the original and then access it in the network. This paper work to demonstrate the tasks needed to improve the network security in the Linux environment. Author writes some information and overview of Linux. The Linux is an open-source operating system and the main feature is user can alter the code. It run on different types of hardware and also supports different types of servers. The features of Linux are secure, portable, large collection of utilities, and support firewall. The Linux IP firewalls which provide better security in LAN and data filter from WAN network. The next topic is about firewall policies use in different security levels. To control on network seven security policies are specified. The components in developing firewall policy such as advanced authentication, packet filtering, and application gateway. The many rules are use for the different parameters.
In firewall different network packets are processed by different chains such as incoming, outgoing and forwarding traffic. Every parameter or packet has set the rule for identification. The parameters are IP address, protocol, limitation, interface and etc. Here show flow diagram of IP firewall in Linux, describe their chains are in firewall.

**Vaishnavi.J.Deshmukh et.al.(2013)**

In this paper describe. the architecture or cloud computing .this paper describe method to improve current education system or traditional education system an adaptive e-learning system designed. Adaptive E-learning System structure are build to solving the problem of integration , interexchange and demonstration of multimedia this paper also discuss business and dataflow of adoptability test in adoptability E-learning system to compare the traditional computing and cloud computing. This paper bind the traditional learning to modern cloud based learning. Cloud based E-learning cannot completely replace the teacher. it is only updating for technology. Modified system architecture can combine cloud environment and institution. This paper also explains the benefits of proposed cloud architecture like, powerful computing storage capacity, high availability, high security, and virtualization.

**Sinora Ghosalkar (2014)**

In the world many undeveloped country has very poor education ratio and development of each country is depends on education ratio. The ratio of education are not only decreases due to poor economy of country. But it also low due to disabilities of student. In Indian education system provide special education for disabled student. In this proposed research developed android application on examination using speech technology for blind people.

In existing examination system normal student can give the exam on paper or using computer based pattern but visually impaired student faced many problem in examination. This proposed application are helpful for blind people in this project researcher use speech technology attempt to provide solution for some of this issues and provide equal opportunity for all the student in taking up competitive exam today this research provide big support and enhancement for visually disabled people. Using this application blind people give test itself without need of any one.
Simon Sai-hau HO et al (2011)
Student with specific learning disabilities have need to provide additional sensory input in proposed research researcher implement augmented reality technology. That integrate real world environment with computer generated graphics and video. In this technology simple textbook content and text based educational material converted into 3D moving object. Mostly AR technology are useful for student with dyslexia, it is reading disorder using AR technology student easily read educational content on their mobile device and learner will then able to control how model moves and appear on the screen.

Sadhana Jaiswal et al (2014)
This research describing new scenario of modern technology to implement cloud computing based E-learning in education. E-Learning is the learning tool on the web technology. It is contribution of electronic media and information and communication technology in rural education system that provides learning provision on the internet. Now a day, E-Learning has become very interested and adoptive learning method in rural education. The main two aspects in rural education is trainer and learner. E-Learning is not only used in college, University and school but it also finds its place in industry and institution such as training (with E-Learning). Benefits of E-Learning, learners attend class at their home any time and their classes are in their laptop, PC, mobile. During learning, they need some software and hardware according to the need of their courses. It is the major drawbacks of E-learning to need of high investment but cloud computing provide new way to reduce expense. In this paper researcher proves cloud provide modern feasible solution for rural education. Finally researcher conclude cloud computing is the latest and current feasible approach to motivating and developing student educational behavior and improve their learning ability and teaching skills of trainer.

Bhruthari G.Pund et.al.(2012)
This paper describes new agenda of cloud based E-learning and also presenting case study of educational cloud. This paper concerning much beneficial aspect about cloud based E-learning. It reduces cost of hardware, licensing cost, user can only paying single software expense and also avoids large time, cost reinforcement and update. It also provides flexibility and accessibility of resources over internet. In this paper describe five layer of E-learning architecture infrastructure. Resource layer it is base
layer that IT infrastructure resources. And also share hardware resources appropriate
with protection and scalable way. Next layer of architecture is software resources
layer. This layer composes operating system and middleware. Many developers can
develop application base software and embedded in the cloud. Another layer of
propose architecture is resource management function of this layer to manage the
software and hardware resources. fourth layer s service layer are categorise into three
services SaaS, PaaS, IaaS and last layer of this architecture is application layer. it is
application of integration and maintain all teaching resources .this paper also explain
grid computing concept.

D.kashi Vishwanath et.al.(2012)

This paper describing feasible E-learning using cloud. this paper conclude many
aspect about cloud computing . it is promising pathway of education system providing
many services. E-learning cloud computing business model facilitate three things.
cloud providing building ,maintain the cloud and cloud user can access this cloud on
demand using E-learning cloud.some security, privacy, reliability, legal and
compliance issues are discuss here and there possible solution are also finding using
encryption of data

Utpal Jyoti Bora and Majidul Ahmed(2013)

This paper describe cloud computing benefits for organisation cloud computing is
adoptable technology for educational organisation providing usage of virtualized
resources as a service through the internet . There are many educational institution in
rural area cant offered investment but cloud computing provide a solution for that
institution cloud computing provide resources any where any time. This paper
describe benefits of cloud computing for both teacher & student and also describing
services of cloud like Saas, Paas, Iass and deployment strategy of cloud like- private,
public and community cloud.

Dr.Milind Joshi et.al. (2013)

The author represented information about viruses, their creation and problems those
generated by viruses. In the early life utilization of computer are growing frequently
and increase every day. The computer will transfer and receive information from
others but the viruses are damage or harm to this information. In this paper author
presenting viruses information from their historical background and which is the newly viruses create up to 2010. It shows diagrammatically so it is easy to understand. The detail explanation of virus, the name of viruses, their working, how it affects on our computer and also gives their examples. It explain following viruses,

- Melissa: It spread though e-mail and when open that mail it will be activated.
- My Doom: It causes to destroy websites.
- ILOVEYOUILOVEU: Is same as Melissa, attack through e-mail.
- Nimda: The aim of this virus to slow internet network speed.
- The Klez virus: This virus directly changes the source and block mail.
- SQL slammer/sapphire SQL ,
- Sasser and Netsky: This virus are damage the whole system.
- Heap-A/Oompo-A,
- Code Red and code Red II and the last is,
- Storm worm.

The author also described the actual working of computer viruses. It define viruses life cycle by diagrammatically such as, virus creation, how to it replicate itself, their activation, discovery, assimilation and last stage is Eradication. After virus working author also describe problems of computer those created by viruses. Such as, speed of computer will become slow, take rebooting, vanish drives and disk, problem about screen, etc.,

In this paper entire details described about virus problems but not give the solutions on that problems were created by viruses and also not describe how to prevent computer from viruses attack. So the “Protection from viruses” are not suggested by author.


This paper describe uploading and downloading high resolution video using dynamic chunk size method to effectively stored data without interrupt and without wastage of memory. This paper also describe security issues, less consumption of bandwidth using dynamic chunk size method divide the file size into different size of chunk to load of the server it is helpful to stored data effectively .the first step of E-learning is downloading video this video user can access easily at the time of video streaming
they check the HSF value of block. This upload time analyses and download time analysis.

M. Sanir Abou EI-Seoud et.al.(2013)

This paper describe effective web based education in Egypt through cloud and there positive effect on higher education. Cloud based E-learning solved the problem of transportation, high prices of traditional educational books, over crowded classroom and providing educational resources over internet in low cost. This paper also analyse growth of internet user and there purpose. Individual user 46.03% people uses internet for educational aspect in Egypt. The yearly growth rate of internet user in February 2012 is 29.37%, January 2013 is 32.49% and in February 2013 is 32.67 the annual growth rate of internet user is 11.24% cloud based E-learning enhance traditional E-learning system activities for improving learning system.

Larib nasir et.al.(2013)

In this paper author just want to checkout the writing skill of sample student. Then his question arising there how we can improve the writing skill of some sample student. The intervention prove to bring out significant improvement is the enhancing the writing skill of the sample student.

Faten Karim and Dr. Robert Goodwin(2013)

This paper focus on potential values and aspect of computer computing as platform for e-learning. And also categorised how cloud computing is several from other computing. Cloud computing platform can reduce cost, can be easier to maintain and offer benefits to third party user of security and capability this paper also conclude that using deployment of cloud computing we can improve E-learning strategy in low cost with many benefits. Because cloud computing reduces cost due to lower requirement of hardware and software and less need of site maintenance.

Sudhir kumar Sharma et.al.(2014)

This paper describing cloud computing benefits for distance education. Smart user can uses smart phones to access study materials any where any time on their smart phones. Many educational institution uses cloud computing environment due to cost saving, scalability, time shifting, this paper showing benefits of cloud computing in
education as well as challenges of cloud computing. Cloud computing provide many E-learning base solution for student like usage of paying subscription, take online course, online discussion of courses, permit student to work from multiple places, and moving from one device to another and no need to backup. Cloud computing also give solution for teachers like prepare online test for the student, access project taken by student, provide e-content for the student, communicating with student with the help of video conferencing.

**C. John Paul and Dr. R. Santhi (2014)**

This paper describe digital collaboration with learning services and technology to provide efficient and integrated learning system. Least of two entity are involving in E-learning student and trainer. Student adopt a feature of cloud based E-learning using online course, writing exam, sending feedback, sending project, and trainer adopt features of cloud like, dealing with the content, preparing test, communicating and sending feedback. This paper also describing a principles of cloud computing and cloud computing layers, SaaS, PaaS, IaaS implementation of cloud faced many challenges, this paper verified cloud computing technology use to providing smart forum and informal learning.

**Mahesh Kumar Kumavat et al. (2014)**

The Mobile Ad Hoc network (MANET) is wireless network for mobile device. The author describe in this paper about Gray Hole attack. The MANET is collection of mobile nodes that co-operate and forward packets for each other. Here described the Gray Hole attack and this is active attack in MANET. The attack drop the IP address and send remaining packets to destination. The some packets loss due to an error and some packets are delay, these all activity determined by routing protocols. Here also explain some following protocol,

- **Ad hoc on Demand Distance Vector (AODV) routing protocol**: It creates their rout on demand process and sends packets to destination node.
- **Dynamic Source Routing (DSR) protocol**: This protocol knows the route of source to destination path. It passes the packet without any effort.
- **Zone Routing Protocol (ZRP)**: It maintain the routing information.
- **Destination Sequenced Distance Vector (DSDV) Routing Protocol**: It records the destination network. Maintain the every node in network and
for it form a routing table. The author also describe about techniques for detection and prevention of Gray hole. It explain various algorithm, H. Fu et.al. Represents DRI table, Two bits are present in this algorithm ‘from’ or ‘through’, by this two bits gray hole attack cannot tackle. M. Kanthe et.al. Define algorithm to find gray hole node and remove normal nodes in black list. G. Xiaopeng and C. Wei define novel gray hole attack detection. It traces the malicious node. H. Deng et.al. Proposed techniques to detect attack but some strong nodes are present in network then it will be fail. In trace gray algorithm, wants to information available in node. It detects the attack in time manner by the algorithm Mobile Agent (MA). D.G. Kariya et.al. Proposed an algorithms which observe the current node and maintain it in fwd packet Buffer.

Through using of these technology and algorithms gray hole attack is not affect on data. The destination server received the actual data send by the source. The author still not satisfied. He also present in future a new algorithm for detect fast the gray hole attack and reduce network load.

Mette Borgå (2013)
This paper focus on reading disability in higher education it affect on student reading skill. Now days in rural education most of student is caused by dyslexia, it is neurological based disorder. Proposed research focused on student learning and copying strategy. This research divided into multiple case design to address the research question and address the imperial inquiry that investigate contemporary phenomenon within its real life context.

Hagos Tesfahun Gebremichael et al (2014)
In this paper conclude utilization of cloud in organization Cloud computing services are improving performance and cost effectiveness for business organizations as well as for technical educational institutions. Students and all administrative people in institution have the chance to fast access and deploy different multiple application platforms and distributed resources via the internet on-demand access. This paper builds cloud computing architecture for organization. The research study conclude the cloud computing platform is beneficial for both students and instructors to enhance learning method and implementing modernization in traditional learning system. Cloud computing provide Application of storage technology it can useful for remote data storage, reducing application creation expense, decrease the system failure by
the server a single point of damage. Cloud application storage services complete this demand using cloud computing storage solutions. In this paper researcher describe the cloud computing plays and vital functions in the fields of Technical Educational Institutions and Online. Cloud Computing model is modern approach for holding facility and control of services to the user. It supplies an appropriate, on-required access. In past days we creating application in our pc it is only accessible in this machine; we are not able to access it globally. Problem of this system is hardware and software failure it affects on computer data and it is not recoverable. But cloud computing provide remote data storage facility to user. Using cloud user can easily back up there data. Back Up: Cloud computing provide important facility to user is that it automatically saves content, and protect it for lose or delete any important material. Storage: The Cloud computing allows stored multiple types of data including mp3, document, E-Books, applications, picture, and much more. It also provide high accessibility and collaboration allow to access multiple user.

Sachin taluja et.al (2012)

For planning a secure network is the necessary for mission in any enterprise and institution growth in network security. To provide a security to network it applies many policies and methods to defend various types of network machines from an illegal access. The servers are web browser, file server, mail server etc. these are the important devices in network. In this paper demonstrate the task wanted to increase security of network is linux environment.

In this paper the author write about the network security. The network security is most essential part of every network. To protect network from unauthorized users, threats or attacks use the security software. Here the firewall network security is described. The IP firewalls are used to set up, maintain and examined the tables of IP packet filter rule in Linux Kernel. The firewall checked the all rules and satisfies about the packets to matching to the original and then access it in the network. This paper work to demonstrate the tasks needed to improve the network security in Linux environment. Author writes some information and overview of Linux. The Linux is open-source operating system and the main feature is user can alter the code. It run on different types of hardware and also supports different types of servers. The features of Linux are secure, portable, large collection of utilities and support firewall. The Linux IP firewalls which provide better security in LAN and data filter from WAN
network. The next topic is about firewall policies use in different security levels. To control on network seven security policies are specified. The components in developing firewall policy such as advanced authentication, packet filtering and application gateway. The many rules are use for the different parameters.

In firewall different network packets are processed by different chains such as incoming, outgoing and forwarding traffic. Every parameter or packet has set the rule for identification. The parameters are IP address, protocol, limitation, interface and etc. Here show flow diagram of IP firewall in Linux, describe their chains are in firewall.

The author described the experimental setup and the result of firewall configuration. Overall the firewall is the best security in accept or transfer information. In this paper implement the security is have both hardware and software in any operating system.

**Sabareesan M and Gobinathan N (2013)**

The Proposed importance of database security because it one of the most important component for all of us on network. These data on network is not secure due to lack of security for that it used some mechanism to secure data against accidental threats, unauthorized users, hackers and in snooper etc. these are cause to damage database or some illegal use and malicious action are performed. In this paper he proposed two mixed techniques to secure the databases. Using the authentication followed by cryptography of database and algorithm are less secure and complex in existing system. The encryption and decryption algorithm both are based on generic algorithm which can be used encrypt the database and verify validate user’s login id and password. The main theme of these paper researches and analyzes the issues of security and try to defense.

**N. Malikaharjuna (2012)**

Cloud computing provide largest opportunity to growing educational environment in rural education. The modern technology called cloud computing that has multiple benefits and it is a perceptual network technology in this present research. The main advantages of cloud computing in education are to provide cost effective execution of hardware and software equipment in educational sector it also reduce the expense of licence copy of software. This is the better summit time to analyse the cloud and its
execution and better deployment and access it for the development of the quality and low expense education for all over the world. In this paper, we discuss how to influence on cloud computing and impact on this network technology to take education to an extensive mass of students over the every country. We believe cloud computing will surely improve the current system of education and improve quality at an affordable cost.

In this proposed system the main benefits is to growing education quality of rural education. In the current days student faced many problem regarding their educational life and many disabled student can not able to learn like normal student but in this case we need to implement new approach to enhance rural education. Cloud computing are popular tools in current days to grow rapid application access facility using cloud based learning. Cloud computing not only perform the role in education sector it also provide benefits to business, research centre and also use to store data on remote server, many service provider can supply cloud services to user for creating and deploying their own application.

Propose application in the existing research describe mobile-Learning the cloud computing perform a important task because the data sharing is the very important function of this M-learning system, so cloud computing handle the control of data sharing or data security and also the load management. The cloud computing helps to improve the storage area and large space if the data content are affix more by the users and also during peak hours the total number of user who utilize the system will be enhance so the load has to be allow automatically. In this paper researcher describe some cloud model to enhance learning process.

Olojo Oludane Jethro (2012)

Olojo jethro said that in a given research article effects on teaching and learning in current scenario using e-learning. The authors mention that for students collaborative learning and it can be swa in the form of computer assisted learning. The learning content is delivered digitally in early development in commuter related leaning is assisted by e-learning. The new learning environment for students and requiring different skills for presenting e-learning. Students have increasing vast of information from different sources to sort through e-learning for evaluation skill, research and critical thinking. The students are fully independent on the traditional learning with the use of electronic media. To extra knowledge and accomplishment used by e-learning. It also helps to developing virtulization in educational interventions to
medical educators to build the lackness. Internet based learning, computer assisted instruction, distributed learning, online learning and web based learning is e-learning. There are two modes of e-learning 1] Distance learning 2] Internet Based learning. The distance learning uses information technology to deliver instruction to learners who are at remote location. The use of computer to delivery of package for learning and teaching in computer assisted learning. Updating electronic content is easily than printed material. The e-learning is now days considered knowledge based storage of information. The author shows in this paper how to use e-learning terminology to perform enhancement in educational area.

Marko Cupic, Zeljka Mihajlovic

The author presenting technical issues and use of a software environment for learning an educational assessment. The marko cupic and team said that the system is design to support distance education. The visual presentation and computer graphics highly demanding for interaction between users. They design such a framework that working for any course. They are providing the essential keys of educational technology programming environment and e-learning. The educational area has been fully utilizes the electronic devices and internet technologies for getting new knowledge. Now a day’s internet technologies are used to overcome difficulties in education. The author said that chats enabled synchronous communication and web applications are used to perform document working. The remote real laboratories, interaction, simulation in content of real environment are presenting learning technology. There are many attempts to make the learning process better and more interesting.

Stephanie W.Cawthon(2009)

This paper are describe how we can implement accommodation. it include the changes to administration of the test, extended time, change test item impact of this accommodation is on student with disabilities. This paper also some kinds of term theoretically basis for validation and accommodated assessment factor that affect impact of accommodation. And extending time . this paper mostly describe significant challenges and opportunity to integrating multiple construct

S.K.Nayak and Dr. Kalyankar.N.V(2010)

This paper focuses on the childhood education in rural india , 21 century is the century of hi tech. It compromised with IT , ICT , BT & Nano technology
traditional learning faced many problems but in now days internet plays important role in E-learning cloud based e-learning no limitation or area and time due to their characteristics share any time anywhere. ICT development has changed learning process this paper describing issue and approaches of e-learning in India and how we can developed childhood education in issue India. in this paper describe limitation of e-learning and strategy to solve this problem.

In 21st century wireless technology perform important role in all sector business, education. Wireless technology help to improve learning into M-learning. Now days educational institution need to adopt new technology to enhance learning method. In this research paper researcher can design cloud based learning framework for student to access higher technology to improving their educational skill. This paper proposed a framework specifies the virtualization technology used to build cloud based mobile learning. M-learning is advantageous due to its features, cost reduction, performance, availability; wide network access the proposed framework of cloud based architecture can build using integration of six layer. User interface layer are implementing for reducing amount of memory requirement and application development time, software as service are used for student to manage interaction with cloud in HEI and eliminating need to install and run the application, platform as service provided deployment of application without coast and complexity. Infrastructure as service it provide software application environment. The conclusion of this research is proved how we can reduce unnecessary expense and time for developing any application. And time for developing any application. M-learning system using cloud computing is design to web implemented and manage by collaboration of ministry of education and Ethiopia HEI’s.

A.lavany (2014)
Now days world become a global village due to improvement of electronic and telecommunication via internet. Each and every person can access the information and shared data to each other via internet technology. This paper describe many cloud services such as SaaS, PaaS, IaaS for provide facility to educational institute. Cloud network can be integrating multiple distributed machine on different place but using interconnect each machine and easily shared the resources. Cloud solve the problem
of storage it provide large storage facility. On which student and trainer easily stored
large amount of data on remote server. The objective of this research is to examine the
factor responsible for improving cloud computing to E-learning. In this paper
researcher use case study method to examine the use of cloud computing for E-
learning. Researcher implements this cloud based framework in two autonomous
college, Maris Stella college, Vijayawada and S T Josef college for women,
Vishakhapatnam. This research mainly proposed for troubleshoot existing problem in
E- learning through cloud computing.

Usman Ahmad Usmani1 et al (2014)
Cloud computing are categories of network computing that depends on distributing
computing resources and data storage facility rather than having personal devices
such as mobile, tablet, pc to handle and deploy applications. The goal of the cloud
computing is to implement traditional supercomputing or high performance
computing power. To do this cloud computing technology for education adopt
network of higher group of servers typically running low expense user-pc technology
with specialized connections to distribute data processing among globally.
Applications and large information are moved to large centralized data centres called
cloud. Cloud Computing has different issues and concerns, such as performance
issues, regulations, data security, trust, expectations and in this paper researcher have
examined. The important security issues are affecting the cloud computing systems
and the available solutions. This paper also improves light and benefits on using cloud
computing as E-learning. Cloud provide some of the software like the Moodle and the
Blackboard are been the large applications today in the E-Learning it improve student
efficiency in learning process.

Cloud computing as a stimulating enhancement is a well choices in the area of
Educations sector these days. Students, staff and faculty have the opportunity to fast
and economically fetch different application platforms and resources via the web
technology on-request any where any time. This decreases the expense of educational
tools expenses and supply more efficient and higher functional capabilities. There will
be an online analysis to integrate the needed data for the use of cloud computing in
the Aided and unaided or private colleges in India. Cloud based E-learning in
education will help the school child, teachers, staff, Institutions and also the disabled
learners to a very high extent and mainly students from rural area will get an
opportunity to get the advance knowledge shared by the professor on other part of the world.

Shahid AI Noor et al (2010)

This research project introducing an cloud computing architecture for education sector for improving educational quality in and discuss the effect of propose architecture on education for providing high availability of resources. Researcher demonstrate comparative analysis of our proposed architecture with the traditional one to indicate the benefits of the proposed architecture over the current one. In this research proposed system architecture basically is developed of cloud partners, local servers and cloud central system. According to proposed cloud based system architecture each separate PC perform role as a cloud partner which provide the required resources to the cloud system from its accessible resources. each of these separate PC is the hold by individual educational institute whereas the institute purchase this pc from government grant for this institute. The primary objective of our proposed architecture is to use our narrow resources in a most effective way. This research can find some consequential defect in the administration of resources as there is no central observation of resources for separate institute.

Sumedha Kaushik and Ankur singhal (2012)

In information security the most vital component is network security because it responsible for securing all information those passed through the computers. Security of network is refer all component in computer like as all software and hardware function along with their characteristic, their features and operational procedures, accountability, measures, access control, administrative and management policies which can required to provide an acceptable level of protection to software and hardware and information in network. Due to these problem we need different type of security to particular component but only one particular element underlies many of the security mechanism in used author suggest ‘cryptography techniques’.

The focus in this paper on cryptography which an emerging technology for avoiding attacks on network and provide good type of security to network. In cryptography research is ongoing and still in developed stages and those considerable research efforts available still required for secured communication.
Rajendra Kumar et al (2014)
The enhancement in the field of education in technology to use physical infrastructure with the use of virtualization and computer resources have been utilizes to run application on multiple operating systems. The large expense include in maintenance and management of those resources. The cost of this resource management is very high but proposed research give some enhancing use of centralized management of private cloud infrastructure. Computer Computing generate an efficient format for distribute resources with the help of virtualization among many; it greatly reduce the requirement for most products, equipment, utilities and tools. According to propose research outcome implementation of cloud computing decrease energy consumption up to 95%, reduce utility cost by 90%, reduce ecological impact of work station. In platform as a Service user can execute or acquired applications on the cloud provider’s infrastructure. In Software as a Service cloud application user can use to supply running applications in cloud structure. The cloud infrastructure includes two components such as physical Infrastructure which includes physical IT resources contains physical servers, storage and physical network components. Virtual infrastructure contain Resource pools such as CPU, memory, network bandwidth, Virtual IT resources such as virtual machines, storage, Identity pools (vlan ID, mac address ).

In this paper according to author describing uses of e-learning in teaching. In a given paper education embracing a face to face method and distance learning method. The student uses e-learning for acquiring skills and knowledge at a varying pace has been developed. The different net distributed a technical tool that is based upon e-learning. Student teacher cooperation can be realized in courses with presence of teachers. There are two modes available of e-learning synchronous and asynchronous mode. The courses are carried out without participation of teacher based on different kinds of accessible information in electronic form.

Teresa Martin-Blas, Ana Serrano-Fernandez (2008)
In this article the author suggest that learning process using the role of technologies. The authors build for online physics course a moodle platform. The students and teachers are used reference of this article to create an community using online learning. With the help of online learning students; teachers can share their
knowledge through different kinds of activities chats and forums. The author aim to improve the teaching learning process for teachers with many new technologies. The teachers are utilize those tools to take advantage and used that technology in class rooms. The author says the fact that the internet is a vast source of information and the teaching resources can be conceived by using some specific web based applications. The applications help students and teachers to interact for communication purpose in real time. E-learning platform also known as a virtual learning environment (VLE) can used in teaching science. They allow implementing objects of many kinds such as video, scanned images animations which can be dynamically. The researcher said that a software system designed to support teaching and learning is a virtual learning environment. A VLE is computer program that provide online work that’s why so called e-learning. A VLE supplied tools such as uploading of content, wikis, blogs, assessment, communication chats etc. with the use of internet such learning system sometimes called learning management system. They manage the learning content, managed learning environment and learning platform via computer through communication or online education.

**Jie shan (2014)**

In this paper author focuses on expanded network and their application along with their uses and attract attention on security of network. Author talking about computer technology in shortly and their active used in today's environment. Author defines comparison threat of system security vulnerability from year 2006-2011.

In the early days, computer network communication spread everywhere, every field like, political, economic, military and all industries. The author focuses in this paper on the concept of network security, threats and technology. The graphically present here system security vulnerability from year 2006 to 2011. The author concludes that, we pass the information or data to others. This data may damage or alter in process. This problem remove by using security technologies concept and author will explain in this paper the technologies that secure for use data.

Following technologies of computer network security described here,

1. Firewall technology
2. Data encryption technology
3. Intrusion detection technology
4. Anti-virus technology

The author measures here, by the using computer network we pass the information anywhere. But the viruses are damage or change the information. Now a day’s viruses are hiding in network and cause to discomfort to user code. By the help of web it spread rapidly and to avoid these problems author suggest here some precautions such as, Install antivirus and update the virus database.

    Improve the execution speed of network. Scan report provided by user etc. Many anti-viruses are work better in network security. Author defines here other types to secure computer network.

Measure to prevent hacker

    a. Use safety tool
    b. Firewall technology
    c. Measure about switch

According to their research, it suggest some basic technology of computer network security such as, Firewall technology, Data encryption technology, Intrusion detection technology and antivirus technology, all are good but not effective after that author described threats of computer network, which is also general and common, also suggest some measures to improve network security. Author suggests a good and standard solution or measures but it not working efficiently and no provide strong security against threats and attacker.


Education is the back boan of country , straight of education can done the development of country in this research paper researcher can finding the propose model for converting traditional education into smart education. In old scenario of education can uses old method of teaching but it is not sufficient to enhance education quality. The presence research introduce a new way to improving education quality and give smart finishing to educational method and tools. Cloud computing introduce in event teaching practice for teacher using sharp teacher of cloud computing. Cloud computing is internet based technology to provide and shared resources, software, tools, storage, and information are delivered as service that computer or mobile device can access any where, any time on demand. Cloud based learning environment are
advantageous than traditional educational method. Due to significant coast education, support trainer as well as learner access application any where, any time, increase openness to student to manipulate new technology. Cloud provide IaaS for providing infrastructure for application development, this service model provide services to faculty, student, admin, staff and researcher. Finally researcher conclude the benefits of cloud based learning to enhance existing education method.

Rasha Fouad Al Cattan (2014)
Cloud computing technology is a modern approach for providing multiple computing services on demand new it has update the way how many applications are building and accessed. Cloud computing is increasing faster and becoming a flexible technology for the organizations especially education institutes and university, with its dynamic scalability and expenditure of virtualized resources as a service via the Internet technology. This computing approach depends on a number of past technologies, such as Web2.0, Web services, virtualization, Service oriented architecture (SOA), etc. now days educational institution require for e learning is improve continuously and its compulsory for e learning systems to keep steps with the appropriate technology needed for development and improvement. presence research describe enhancing method to improve E-learning technologies such as Web 2.0, Cloud, enable to developed more successful and effective educational environment, that supply alliance and inter communication in eLearning infrastructure. This research conclude the motion towards cloud computing can be a substantial variation of Internet ready devices, applications retrieve directly from the Web, data placed in the cloud, and company applications controlled and hold by third party service provider. this paper conclude that introducing cloud computing with the integration of Web 2.0 collaboration technologies into eLearning environments is practical and it can greatly improve the collaboration action and educational staging for learners.

Abdullah Mohd Zin et.al. (2006)
In this paper researcher shows how implemented VPP (Virtual Pair Programming) and effectiveness of VPP in the learning of object oriented programming among students. The author gives feedback better from this research. It finds delivering all programs of IT through e-learning is a very challenging task. It also finds students and teachers also suffer from learning programming problem. It
shows some researchers upcoming trouble in learning system in India. It follows different approaches to overcome problems.

**Arun Gaikwad, Vrishali Surndra Randhir**

In this paper the authors suggests the methods in teaching and learning are useful for development of education sector in India. The author also tells that class room learning and e-learning in india a main wheel for development. For every country e-learning activities are important for development. Now a day's everyone wants growth and thinking about growth. Here author explain three types of learning online mode , e-enhancement mode and hybrid mode. These modes mostly used by professional and non- professionals courses teachers in higher education in india. The author refer another author F laurillards said that e-learning as the use of any newer technologies and learner suggest applications. Learning through best outcome is better for limitation , feedback and practice. The basic idea of this research is to understanding concept of e-learning. It also explain education scenario in india and e-learning in higher education. With the ease of internet connectivity is important growth of E-learning. E-learning increases the literate population percentage in india. The author said that e-learning lot of opportunities can be captured and developed through e-learning. India and other countries will work on developing using E-learning that should be beneficial for india. The author also explains formal and informal e-learning terminologies. The form limited literacy must be provided with the help of e-learning to adults. It is safe and patient place to developing himself in basic skills and mathematical skills. They also shows the percentage of literate population in the year2011. There is vast amount of growing demand to build or create a virtual learning environment.