ABSTRACT

In IT world Network Information Security issues has been increasing in the last many years. Networks are the focal point of any educational Campus/organization and Network Information Security is every Educational Campus/Organization problem. Information Technology Security requires the active cooperation of a combination of people, infrastructure and technology. There are many Network Information Security issues in any educational campus/organization which may cause the disturbance/disorder in teaching and research activities.

In any educational campus/organization there must be teaching, research and communication task. Privacy and data security is primary concern for these activities. They always plan and evaluation to build up improved strategies that can offer well-organized and efficient communication between each others. The planning of a Campus network needs a lot of resources, and to assess them to make a full secure and reliable platform. For compete the mission of research and teaching activities, the campus should to provide a secure network that protects the reliability and confidentiality of any type of information.

Every educational campus communicates inside and outside for their work and many services (i.e. web services, file services etc.) are used for this purpose. Then the security issue is raised. Now a day's educational campuses require fortification against both inner and outer attacks/threats. A lot of different technologies are obtainable through which educational campus/organizations can improve their security for their networks. By using these different networks security techniques we will secure our campus.

In this thesis, for this purpose we will made security levels and then apply best security techniques on these levels which will keep tracks all security attacks/threats and fight against these attack/threats. Although there are many techniques but we try to focus and implement the best all possible best techniques which can secure our campus network maximum.

As the concern for Network Information Security and flexibility enlarge, new techniques to supervise networks are needed. By Application Security, Physical Security, System Security and different security mechanism applying, we will increase the security strong and efficient. Choosing combination of these right methodology, we will design secures campus network and educational campus can work with efficient and reliable communication with each other's without any risk and will also check and update the security issues time to time for best performance of educational campus/organization. This research effort to determine out how a educational campus/organization security should function, what security mechanism/techniques to use, how to boost the flexibility and how to make the network more secure and efficient.