ABSTRACT: Information Technology (IT) is very powerful in today’s world and backbone of the Indian economy. Information Technology expels the many different technologies inherent in the field of information technology and their impact on information systems to the collection of tools that make it easier to use, create, manage and exchange information. The Internet is the latest of a long series of information technologies, which includes printing, mail, radio, television and the telephone. Information Technology Services is to provide an innovative, customer-focused, and robust foundation for information technology solutions that enable the university community to pursue excellence in research, education, and public service. Information Technology Services seeks to establish trust with customers through professionalism, honest and open dialogue, high quality customer service, and a commitment to partnership and collaboration. In the backdrop of all these developments the present paper makes an attempt to: expels with the various roles, advantages and disadvantages those are being followed in present scenario in information technology.

Keywords: Information Technology, Strategies, Advantages and Disadvantages

I. INTRODUCTION

Information Technology covers a broad spectrum of hardware and software solutions that enable organizations to gather, organize, and analyze data that helps them achieve their goals. It also details technology-based workflow processes that expand the capacity of an organization to deliver services that generate revenue. The four main focuses of IT personnel are business computer network and database management, information security, business software development, and computer tech support. For a guide on tech fundamentals, check out some basics on cables and connectors and the here. As the IT industry evolves to meet the technology demands of today’s workplace, different challenges are arising and IT professionals are striving to meet them. Network security is by far the greatest concern for many companies and they rely on their IT staff to prevent or stop these system breaches. Read more about the basics of computer security here. Data overload is becoming an increasingly important issue since many businesses are processing large amounts of data on a daily basis, with many of them not have the processing power to do so. Last, but not least, two of the most essential skills needed from IT professionals are teamwork and communication skills. Systems are complex and people are needed to help translate that task. Therefore, IT professionals are the ones responsible for helping others get their work done efficiently without the complex jargon of the technology world. Here are some of the most popular positions for people interested in Information Technology:

1.1 Computer Systems Analyst
In this position, analysts design and develop computer systems and are an expert at every facet of hardware, software, and networks. Analysts also evaluate the systems and research the industry for better products to enhance their existing system.

1.2 Cloud Specialist
Cloud specialists organize and give configuration to the information infrastructure in the sky. Because this is still an emerging technology, these architects are highly sought after and one of the top-paying professions in the industry.

1.3 Computer Forensic Investigator
These investigators are computer crime detectives that search for, identify, and evaluate information from computer systems.
1.4 Health IT Specialist
Health IT is booming, especially with Affordable Care Act coming on and transition from paper to electronic health records. Health IT specialists will mix computer knowledge with record-keeping skills, medical coding, and billing.

1.5 Database Administrator
Database administrators create, upgrade, and test for databases.

1.6 Web Developer
Web developers are in high demand because they have a great understanding of what makes a good operating system. They create web pages, web applications, and web content with their knowledge of what the average surfer finds visually stimulating and how to optimize sites for mobile tech, among numerous other skills.

1.7 IT Manager
These managers are the contact pros when your email won’t send or Microsoft Word doesn’t open. As the head of the IT department, they ensure that a company’s network is operating smoothly and that dangerous threats like malware are minimized.

1.8 Information Technology Vendor Manager
Slightly more hands-off compared to some tech positions, vendor managers oversee supply when it comes to software and hardware. This can mean anything from Microsoft’s latest word processor to health IT programs for hospitals.

1.9 Computer Systems Administrator
The expertise of network and computer systems administrators is essential to every office. Aside from maintaining a healthy computer network, they also lend their tech knowledge to managing telecommunication networks. This profession is expected to add 96,600 new positions by 2020!

1.10 Mobile Application Developer
Because of our highly-mobile lifestyle, mobile application developers are and will be in high demand for years to come, especially as mobile devices and technology becomes increasingly sophisticated.

II. DEFINATION OF INFORMATION TECHNOLOGY
Stands for "Information Technology," and is pronounced "I.T." It refers to anything related to computing technology, such as networking, hardware, software, the Internet, or the people that work with these technologies. Many companies now have IT departments for managing the computers, networks, and other technical areas of their businesses. IT jobs include computer programming, network administration, computer engineering, Web development, technical support, and many other related occupations. Since we live in the "information age," information technology has become a part of our everyday lives. That means the term "IT," already highly overused, is here to stay.

III. OBJECTIVES
• To know the role of information technology
• To understand the advantage and disadvantages in information technology.

IV. METHODOLOGY
This study is based on the analysis of the secondary data published in the magazines and various websites.

V. REVIEW OF LITERATURE
Scientists communicate to brainstorm ideas and be creative, formulate research questions, solve experimental or theoretical problems, disseminate results, and get feedback. Several authors emphasize the importance of communication to science. Garvey (1979) states: “communication is the essence of science.” Abelson, an editor of the journal Science said, “Without communication there would be no science” (1980, quoted in Lacy & Bush, 1983, p. 193). The peer-reviewed journal article – polished, archived, and findable – is only one facet of the scholarly communication process. Science is inherently social and informal scholarly scientific communication forms the backbone that connects scientists and enables scientific progress. Information and communication technologies have transformed our world in many ways; yet, informal scholarly scientific communication forms a socio-technical interaction network in which communication is influenced by technology but defined by the social structures of scientists and their organizations (Kling, McKim, & King, 2003; Lamb, Sawyer, & Kling, 2000). Researchers know a lot about informal scholarly scientific communication through a rich history of study of the social structure of science and scholarly communication prior to the widespread availability of information and communication technologies such as e-mail, the internet, and instant messaging. The purpose of this paper is review what we
know about informal scholarly scientific communication and to examine exactly what influences information and communication technologies have had on the existing structures. An understanding of this interaction of social structure and media effects is important to better support the information seeking and communication of scientists.


VI. ROLE OF INFORMATION TECHNOLOGY

Information technology (IT) has become a vital and integral part of every business plan. From multi-national corporations who maintain mainframe systems and databases to small businesses that own a single computer, IT plays a role. The reasons for the omnipresent use of computer technology in business can best be determined by looking at how it is being used across the business world.

6.1 Communication

For many companies, email is the principal means of communication between employees, suppliers and customers. Email was one of the early drivers of the Internet, providing a simple and inexpensive means to communicate. Over the years, a number of other communications tools have also evolved, allowing staff to communicate using live chat systems, online meeting tools and video-conferencing systems. Voice over internet protocol (VOIP) telephones and smart-phones offer even more high-tech ways for employees to communicate.

6.2 Inventory Management

When it comes to managing inventory, organizations need to maintain enough stock to meet demand without investing in more than they require. Inventory management systems track the quantity of each item a company maintains, triggering an order of additional stock when the quantities fall below a pre-determined amount. These systems are best used when the inventory management system is connected to the point-of-sale (POS) system. The POS system ensures that each time an item is sold, one of that item is removed from the inventory count, creating a closed information loop between all departments.

6.3 Data Management

The days of large file rooms, rows of filing cabinets and the mailing of documents is fading fast. Today, most companies store digital versions of documents on servers and storage devices. These documents become instantly available to everyone in the company, regardless of their geographical location. Companies are able to store and maintain a tremendous amount of historical data economically, and employees benefit from immediate access to the documents they need.

6.4 Management Information Systems

Storing data is only a benefit if that data can be used effectively. Progressive companies use that data as part of their strategic planning process as well as the tactical execution of that strategy. Management Information Systems (MIS) enable companies to track sales data, expenses and productivity levels. The information can be used to track profitability over time, maximize return on investment and identify areas of improvement. Managers can track sales on a daily basis, allowing them to immediately react to lower-than-expected numbers by boosting employee productivity or reducing the cost of an item.

6.5 Customer Relationship Management

Companies are using IT to improve the way they design and manage customer relationships. Customer Relationship Management (CRM) systems capture every interaction a company has with a customer, so that a more enriching experience is possible. If a customer calls a call center with an issue, the customer support representative will be able to see what the customer has purchased, view shipping information, call up the training manual for that item and effectively respond to the issue. The entire interaction is stored in the CRM system, ready to be recalled if the customer calls again. The customer has a better, more focused experience and the company benefits from improved productivity.
VII. ADVANTAGES AND DISADVANTAGES OF E-RETAILING
Management information systems are used by organizations to track, store, manipulate and distribute information to the appropriate people when necessary. Using a management information system can enable a business to streamline its operations into a cohesive functioning unit. Management information systems support business decision-making by providing management with critical data. They serve to enhance the organization’s communication, reduce human labor, support short- and long-term business goals and distribute complex information.

7.1 ADVANTAGES OF INFORMATION TECHNOLOGY
7.1.1 Globalization
IT has not only brought the world closer together, but it has allowed the world's economy to become a single interdependent system. This means that we can not only share information quickly and efficiently, but we can also bring down barriers of linguistic and geographic boundaries. The world has developed into a global village due to the help of information technology allowing countries like Chile and Japan who are not only separated by distance but also by language to share ideas and information with each other.

7.1.2 Communication
With the help of information technology, communication has also become cheaper, quicker, and more efficient. We can now communicate with anyone around the globe by simply text messaging them or sending them an email for an almost instantaneous response. The internet has also opened up face to face direct communication from different parts of the world thanks to the help of video conferencing.

7.1.3 Cost effectiveness
Information technology has helped to computerize the business process thus streamlining businesses to make them extremely cost effective money making machines. This in turn increases productivity which ultimately gives rise to profits that means better pay and less strenuous working conditions.

7.1.4 Bridging the cultural gap
Information technology has helped to bridge the cultural gap by helping people from different cultures to communicate with one another, and allow for the exchange of views and ideas, thus increasing awareness and reducing prejudice.

7.1.5 More time
IT has made it possible for businesses to be open 24 x7 all over the globe. This means that a business can be open anytime anywhere, making purchases from different countries easier and more convenient. It also means that you can have your goods delivered right to your doorstep with having to move a single muscle.

7.1.6 Creation of new jobs
Probably the best advantage of information technology is the creation of new and interesting jobs. Computer programmers, Systems analyzers, Hardware and Software developers and Web designers are just some of the many new employment opportunities created with the help of IT.

VIII. DISADVANTAGES OF INFORMATION TECHNOLOGY
8.1 Unemployment
While information technology may have streamlined the business process it has also created job redundancies, downsizing and outsourcing. This means that a lot of lower and middle level jobs have been done away with causing more people to become unemployed.

8.2 Privacy
Though information technology may have made communication quicker, easier and more convenient, it has also brought along privacy issues. From cell phone signal interceptions to email hacking, people are now worried about their once private information becoming public knowledge.

8.3 Lack of job security
Industry experts believe that the internet has made job security a big issue as since technology keeps on changing with each day. This means that one has to be in a constant learning mode, if he or she wishes for their job to be secure.

8.4 Dominant culture
While information technology may have made the world a global village, it has also contributed to one culture dominating another weaker one. For example it is now argued that US influences how most young teenagers all over the world now act,
dress and behave. Languages too have become overshadowed, with English becoming the primary mode of communication for business and everything else.

IX. CONCLUSION
Information technology plays vital role in the world. Many changes have been occurring in society with the IT. There are several things discuss to consider when information technology starts; this present paper makes an attempt to: deals with the advantages and disadvantages of information technology and the essential roles that are being followed in present scenario in information technology.

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