

LESSON PLAN
ON
USE OF COMPUTERS
IN NURSING

IDENTIFICATION DATA

NAME : **MS. MALA**

DESIGNATION : **ASSISTANT PROFESSOR**

SUBJECT : **HALTH/NURSING INFORMATICS AND TECHNOLOGY**

TOPIC : **USE OF COMPUTERS IN NURSING**

DURATION OF TEACHING : **20-25 MINUTES**

METHOD OF TEACHING : **LECTURE CUM DISCUSSION**

A.V AIDS : **PPT**

DATE AND TIME : **10.11.2023, 3 PM**

GENERAL OBJECTIVE :-

After class students will be able :

To acquire knowledge on the topic “**USE OF COMPUTERS IN NURSING**”.

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
1 min	At the end of the lecture the students will be able to :	<p style="text-align: center;"><u>INTRODUCTION</u></p> <p>“Technology is a useful servant but dangerous master”</p> <p>The world in which we are risiding is presently working on the dynamic mode. The technology has become a useful servant in every sphere of life. As we witness the sunrise in the morning and the moment we lay down on our bed to sleep at night, we are using technology in one or the other way.</p> <p style="text-align: center;"><u>USE OF COMPUTERS</u></p> <p>Computers are primarily used to store and manage accounts and personal data, maintain projects,track inventory status and make report.</p> <p>It can be used for:-</p> <ul style="list-style-type: none"> ● Teaching and learning process ● Nursing practice ● Nursing administration ● Nursing research 	The teacher introduces the topic to the class by giving the example.	

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
5 mins	Explains the use of computers in teaching-learning/ nursing education	<p>USE OF COMPUTERS IN TEACHING-LEARNING/ NURSING EDUCATION</p> <ul style="list-style-type: none"> ● Teaching process: The student nurses are using computers to make to make lesson plans and performing classroom teachings or presentation while the teachers are using the technology for providing better and improved lessons. ● Learning process: Computers enhance the learning process as they help in stimulating all the senses of the students while learning new things. ● Simualation: Simulations of procedures or hospital setting enables the students to understand the concept better and get themselves adapted to the environment before actually facing it This is possible due to the presence of computer technology ● Communication: In the midst of the pandemic, when the student- teacher interaction deteriorating it was the computer technology that helped it to survive. ● Up-to-date information:-The dissemination of evidenced based and up-to-date information from researches done across the seven seas is possible just because of the computer technology. ● Maintenance of record: Computer serve as a reliable source as a record keeping as the students record can br recorded faster and stored safe for the long term use in computers. ● Evaluation: No stone is left unturned by the technology. Nowadays, even in the evaluation process, the educational 	The teacher explains the use of computers in teaching- learning/ nursing education	Explains the use of computers in teaching- learning/ nursing education

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
5 mins	Explains the use of computers in Nursing Practice	<p>Institutes are using computer-based testing(CBT)</p> <p>USE OF COMPUTERS IN NURSING PRACTICE</p> <ul style="list-style-type: none"> ● The prime responsibility of the nurse is to provide advanced, efficient and competent nursing care to the individual, family and community. ● Patient Management System- Presently, an automated computerized system is being used to manage all the needs of the hospital right from the admission to the discharge and that system is known as the patient management system (PMS) or the hospital management system. It has decreased the long queues of the patients in the hospitals and assisted the health care professionals in maintaining records, documenting the findings timely, minimizing errors, preventing duplication of work, decreasing the workload, taking prompt actions and in the process of decision making. Such systems are developed as per the guidelines and standards laid by the World Health Organization (WHO). The PMS provides better security as the data is password protected data and adheres to patient safety as it minimizes errors compared to the conventional system. 	The teacher explains the use of computers in Nursing Practice	Explains the use of computers in Nursing Practice

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
		<p>Telemedicine:</p> <p>Technology has unfolded various areas of the health sectors and one of them is Telemedicine or Tele-health or E-health. As 70% of the population of India live in rural areas and 90% of healthcare facilities are accessible in urban areas, therefore, to fill this gap, services like Telehealth came into existence. Telehealth is a broader term used for the health services provided by the health care professionals to people who are unable to reach the hospitals for any reason Telenursing is a branch of Telehealth that is going to be discussed later in this chapter.</p> <p>Telehealth has become a liaison between the people in need of the health care services and the professionals who are rendering the health care services at a nominal cost. Video conferencing became the medium for providing such services through face to face interactive sessions. Telemedicine proved to be a boon for people worldwide especially in the pandemic situation. This is broadly divided into two categories: Emergency and Non-emergency/Regular healthcare services. National Task Force on Telemedicine (2005) gave the concept of “level-m” which means “Mobile Telemedicine” that directly connects the people living in rural areas to the nearby PHCs or CHCs or District hospitals. For implementing this concept, mobile vans have been established.</p>		

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
1 min		<p>Telenursing</p> <p>Nursing is an emerging profession and is witnessing a great change in terms of technology. Telenursing is one of its best examples. Telenursing is the use of telecommunication technology to render nursing services to people inhabiting at distant places. The patients are able to communicate with the nursing professionals while sitting at their place through the devices like phones, routers (for internet access), web cams, etc. At times, the nurses also use personal digital assistants (PDAs) for easy access to the medical information anytime and anywhere. PDAs or hand held computers also provide assistance in documentation when working in remote areas. The technology also provides an opportunity to conduct video conferencing that helps in reducing the gap between the patients and the health care providers. The latest technology being used in this sector is the “Ring sensor” which is a type of device worn by the patient for 24 hours/day that transmits wireless data to the telenursing center. There are endless possibilities in this field because of evolving technologies.</p>		

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
6 mins	Explain the use of computers in nursing administration	<p>USE OF COMPUTER IN NURSING ADMINISTRATION</p> <p>Computers are now the part and parcel of the nursing profession. There could hardly be any administrative department in nursing that is not using computers in one or the other form. The informatics is used in the form of human resource management, personnel management, managing the patient information system, inter-departmental coordination as well as in quality assurance.</p> <p>Computer in Human Resource Management and Personnel Management</p> <p>Human resource management is an important aspect of the managerial functions of a nurse. When we talk about the human resource management with the help of computer applications, it is known as Human Resource Information System (HRIS). Computer acts as an economical way of managing the human resources. It not only saves time but also minimizes the efforts of the nursing managers. HRIS provides</p>	The teacher explains the use of computers in nursing administration	Explain the use of computers in nursing administration

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
		<p>a huge pool of professionals from which the nursing manager can easily select as per the requirement of the institute. Once the selection process is completed, the computers help in managing the data of the health care professionals and also assist in record keeping. Moreover, it assembles the raw data and converts it into meaningful information that supports decision making. The nurse administrator can easily make rotation plans and can also maintain the attendance and the leave records. In addition to this, the system provides passage of information of the employees to top levels swiftly. Payrolls, increments and salaries can also be easily recorded using the available software. Therefore, overall, computers have lessened the burden of nursing managers and helped in enhancing the productivity.</p> <p>Computer in Patient Information System</p> <p>Technology has not only proven to be advantageous for the personnel management but it has brought the patient information system to another level. It is also known as patient</p>		

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
		<p>management system that manages the information related to the patients. It helps to keep a track of the patients, enables better management, maintains electronic health records and promotes interoperability while minimizing errors that promotes patient's safety. It provides data regarding the dietary plan, drug administration plan, drug interaction, laboratory test requisition, availability of bed and rooms, transfer of patient, etc.</p> <p>Interdepartmental Coordination</p> <p>The emergence of electronic health records has standardized the patient care and helped in enhancing the level of information sharing. This has given birth to interoperability that has made the access to health services universal.</p> <p>Interoperability has made interdepartmental coordination easier and within no time. This helps in saving a lot of time that provides to be a boon in case of emergency situation. The patients are given a unique ID that can be used universally that enables integration of data and hence better health care facilities worldwide.</p>		

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
4 mins	Explain the use of computers in Nursing Research	<p>Quality Assurance</p> <p>The use of computers in nursing administration also serves as a basis for quality assurance. The work of the entire staff can be recorded and assessed by using certain application for Workforce analysis. It keeps an eye on the performance and productivity of the employees that can be adjusted as per the needs of the healthcare organization to improve the quality of healthcare.</p> <p>It also helps in planning for career development and organize in-service and continuing education for the nursing personnel. It provides data for nursing audit and suggests the scope of improvement in the required fields that ensures provision of quality-based care. It has eased the process of accreditation.'</p> <p>USE OF COMPUTER IN NURSING RESEARCH</p> <p>The demand of evidence-based practice is increasing day by day in the field of nursing and that is possible because of research. Research is the systematic process of recollecting facts.</p>	The teacher explains the use of computers in Nursing Research	Explain the use of computers in Nursing Research

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A.V AIDS	EVALUATION
		<p>The computers have proven to be of great value in each step of this systematic process right from the problem identification, reviewing the literature, selecting the research design, finding. The first step in the research process is to identify the research problem. For doing so, one can take the help of the computer technology. The researchers can use online sources like Shodhganga, PubMed, etc. to view different types of researches done in India. The limitations of those researches can be a good source for identifying the gaps and make your problem statement. information system to another level.</p>		

TIME	SPECIFIC OBJECTIVE	CONTENT	TEACHING LEARNING ATY WITH A. V AIDS	EVALUATION
1 min	:	<p style="text-align: center;">Summary</p> <p>computers are primarily used to store and manage accounts and personal data, maintain projects, track inventory status and make report.</p> <p>It can be used for:-</p> <ul style="list-style-type: none"> ● Teaching and learning process ● Nursing practice ● Nursing administration ● Nursing research 		