

VAC 25

NURSING INFORMATICS

Mahatma Gandhi Nursing College

Value Added Course - Nursing Informatics Total hours - 30

Unit	Time (Hrs)		Learning Outcomes	Content	Teaching/ Learning
	T	rs) P/L			Activities
I	4	2	Describe the importance of computer and technology in patientcare and nursing practice Demonstrate the use of computer and technology in patientcare, nursing education, practice, administration and research.	 Use of computers in teaching, learning, research and nursingpractice Windows, MS office: Word, Excel, Power Point Literature search Hospital management information system 	 Lecture Discussion Practice session Visit to hospitals with different hospital management systems
п	4	1	Describe the principles of healthinformatics Explain the ways data, knowledge andinformation can be used for effective healthcare	Principles of Health Informatics Health informatics – needs, objectives and limitations Use of data, information and knowledge for more effective healthcare and better health	 Lecture Discussion Practical session Work in groups with health informatics team in a hospital to extract nursing data and preparea report
III	3	1	Describe the concepts of information systemin health Demonstrate the use of health information system in hospital setting	 Introduction to the role and architecture of information Clinical Information System (CIS)/Hospital information System (HIS) 	 Lecture Discussion Demonstration Practical session
IV	4	4	Explain the use of electronic health records in nursing practice Describe the latest trend in electronic health records standards and interoperability	 Challenges of capturing rich patient histories in a computable form Latest global developments and standards to enable lifelong electronic health records to be integrated from disparate systems. 	 Lecture Discussion Practice on Simulated EHR system Practical session Visit to health informatics department of a hospital to understand the use of EHR in nursing practice
	2		Describe the advantages and limitations of health informatics in maintaining patient safety and risk management	Relationship between patient safety and informatics Function and application of the risk management process	LectureDiscussion
VI	3	2	Describe the functions of nursinginformation system Explain the use of healthcare data in management of health care organization	Using Information in Healthcare Management Components of Nursing Information system(NIS) Evaluation, analysis and presentation of healthcare datato inform decisions in the management of health-care organizations	 Lecture Discussion Demonstration on simulated NIS software Visit to health informatics department of the hospital to understand use of healthcare data in decision making