

COURSE OUTLINE

T – Theory, P/L – Lab

Unit	Time (Hrs)		Learning Outcomes	Content	Teaching/ Learning Activities	Assessment Methods
	T	P/L				
I	10	15	Describe the importance of computer and technology in patient care and nursing practice	<p>Introduction to computer applications for patient care delivery system and nursing practice</p> <ul style="list-style-type: none"> □ Use of computers in teaching, learning, research and nursing practice 	<ul style="list-style-type: none"> • Lecture • Discussion • Practice session • Supervised clinical practice on EHR use • Participate in data analysis using statistical package with statistician 	<p>(T)</p> <ul style="list-style-type: none"> • Short answer • Objective type • Visit reports • Assessment of assignments
			Demonstrate the use of computer and technology in patient care, nursing education, practice, administration and research.	<ul style="list-style-type: none"> • Windows, MS office: Word, Excel, Power Point • Internet • Literature search • Statistical packages • Hospital management information system 	<ul style="list-style-type: none"> □ Visit to hospitals with different hospital management systems 	<p>(P)</p> <ul style="list-style-type: none"> □ Assessment of skills using checklist
II	4	5	Describe the principles of health informatics Explain the ways data, knowledge and information can be used for effective healthcare	<p><u>Principles of Health Informatics</u></p> <ul style="list-style-type: none"> • Health informatics – needs, objectives and limitations • Use of data, information and knowledge for more effective healthcare and better health 	<ul style="list-style-type: none"> • Lecture • Discussion • Practical session • Work in groups with health informatics team in a hospital to extract nursing data and prepare a report 	<p>(T)</p> <ul style="list-style-type: none"> • Essay • Short answer • Objective type questions • Assessment of report
III	3	5	Describe the concepts of information system in health Demonstrate the use of health information system in hospital setting	<p><u>Information Systems in Healthcare</u></p> <ul style="list-style-type: none"> • Introduction to the role and architecture of information systems in modern healthcare environments • Clinical Information System (CIS)/Hospital information System (HIS) 	<ul style="list-style-type: none"> • Lecture • Discussion • Demonstration • Practical session • Work in groups with nurse leaders to understand the hospital information system 	<p>(T)</p> <ul style="list-style-type: none"> • Essay • Short answer • Objective type
IV	4	4	Explain the use of electronic health records in nursing practice Describe the latest trend in electronic health records standards and interoperability	<p><u>Shared Care & Electronic Health Records</u></p> <ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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 	<p>(T)</p> <ul style="list-style-type: none"> • Essay • Short answer • Objective type <p>(P)</p> <ul style="list-style-type: none"> • Assessment of skills using checklist

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					<ul style="list-style-type: none"> □ Prepare a report on current EHR standards in Indian setting 	
V	3		Describe the advantages and limitations of health informatics in maintaining patient safety and risk management	<p><u>Patient Safety & Clinical Risk</u></p> <ul style="list-style-type: none"> • Relationship between patient safety and informatics • Function and application of the risk management process 	<ul style="list-style-type: none"> • Lecture • Discussion 	(T) <ul style="list-style-type: none"> • Essay • Short answer • Objective type
VI	3	6	Explain the importance of knowledge management Describe the standardized languages used in health informatics	<p><u>Clinical Knowledge & Decision Making</u></p> <ul style="list-style-type: none"> • Role of knowledge management in improving decision-making in both the clinical and policy contexts • Systematized Nomenclature of Medicine, Clinical Terms, SNOMED CT to ICD-10-CM Map, standardized nursing terminologies (NANDA, NOC), Omaha system. 	<ul style="list-style-type: none"> • Lecture • Discussion • Demonstration • Practical session • Work in groups to prepare a report on standardized languages used in health informatics. • Visit health informatics department to understand the standardized languages used in hospital setting 	(T) <ul style="list-style-type: none"> • Essay • Short answer • Objective type
VII	3		Explain the use of information and communication technology in patient care Explain the application of public health informatics	<p><u>eHealth: Patients and the Internet</u></p> <ul style="list-style-type: none"> • Use of information and communication technology to improve or enable personal and public healthcare • Introduction to public health informatics and role of nurses 	<ul style="list-style-type: none"> • Lecture • Discussion • Demonstration 	<ul style="list-style-type: none"> • Essay • Short answer • Objective type • Practical exam
VIII	3	5	Describe the functions of nursing information system Explain the use of healthcare data in management of health care organization	<p><u>Using Information in Healthcare Management</u></p> <ul style="list-style-type: none"> • Components of Nursing Information system(NIS) • Evaluation, analysis and presentation of healthcare data to inform decisions in the management of health-care organizations 	<ul style="list-style-type: none"> • Lecture • Discussion • Demonstration on simulated NIS software • Visit to health informatics department of the hospital to understand use of healthcare data in decision making 	(T) <ul style="list-style-type: none"> • Essay • Short answer • Objective type
IX	4		Describe the ethical and legal issues in healthcare informatics Explains the ethical and legal issues	<p><u>Information Law & Governance in Clinical Practice</u></p> <ul style="list-style-type: none"> • Ethical-legal issues pertaining to healthcare information in contemporary clinical practice • Ethical-legal issues related to 	<ul style="list-style-type: none"> • Lecture • Discussion • Case discussion • Role play 	(T) <ul style="list-style-type: none"> • Essay • Short answer • Objective type

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			related to nursing informatics	digital health applied to nursing		
X	3		Explain the relevance of evidence-based practices in providing quality healthcare	<p><u>Healthcare Quality & Evidence Based Practice</u></p> <p><input type="checkbox"/> Use of scientific evidence in improving the quality of healthcare and technical and professional informatics standards</p>	<ul style="list-style-type: none"> • Lecture • Discussion • Case study 	<p>(T)</p> <ul style="list-style-type: none"> • Essay • Short answer • Objective type