Course Specification

— (Bachelor)

Course Title:	**Health Informatics**
Course Code:	**NUR26443**
Program:	**Bachelor of Nursing Sciences**
Department:	**Nursing**
College:	**Applied Medical Sciences**
Institution:	**University of Bisha**
Version:	**6**
Last Revision Date:	20-8-2023

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هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

A. General information about the course:

1. Course Identification

1. Credit hours: (2+0)

2. Course type

A.	☐ University	☐ College	☒ Department	☐ Track	☐ Others
B.	☒ Required			☐ Elective	

3. Level/year at which this course is offered: (Level 8 4th year)

4. Course general Description:

This course offers an introduction to health informatics. Health Informatics integrates computer science, health science and information science that identifies, gathers, processes, and manages patient information. The course provides basic foundation on information management and processing principles used to support the data, information, and knowledge needs in the provision and delivery of nursing and health care.

5. Pre-requirements for this course (if any):

NA

6. Co-requirements for this course (if any):

NA

7. Course Main Objective(s):

Developed basic skills in using health informatics principles to improve practice.
Acquired a conceptual and theoretical framework of the design, development, and
implementation of health information systems
Describe the impact of technology in organizational communication.
Utilize basic concept, scientific principles and techniques in information system and health

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	25	83.3%
2	E-learning	5	16.7%
3	Hybrid ● Traditional classroom ● E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	25
2.	**Laboratory/Studio**	
3.	**Field**	
4.	**E-learning**	5
5.	**Self-directed learning**	45
Total		75

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Define health ,Nursing Informatics, telenursing, telemedicine , theories ,frameworks and models supporting informatics practice.	**K3**	Interactive lectures, Pre lecture assignments	Written test Oral test Electronic quiz & Quiz E-Individual Assignment Oral presentation-Group
1.2	Describe the impact of technology in organizational communication.	**K3**	Interactive lectures, Pre lecture assignments NCLEX questions	Written test Oral test Electronic quiz & Quiz E-Individual Assignment Oral presentation-Group
	Recognize of health informatics role on ...	**K3**	Interactive lectures,	Written test Oral test

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	promoting quality of patient care		Pre lecture assignment	Electronic quiz & Quiz E-Individual Assignment Oral presentation-Group
2.0	**Skills**			
2.1	Differentiate between different types of nursing technology used for patient care	**S1**	Interactive lectures, Pre lecture assignments NCLEX questions	Written test Oral test Electronic quiz & Quiz E-Individual Assignment Oral presentation-Group
2.2	Discuss complication and challenges in nursing informatics.	**S2**	Interactive lectures, NCLEX questions	Written test Oral test Electronic quiz & Quiz E-Individual Assignment Oral presentation-Group
...	Use the internet and other electronic sources as a mean of communicates and a source of information	**S4**	Interactive lectures, Pre lecture assignment	Written test Oral test Electronic quiz & Quiz E-Individual Assignment Oral presentation-Group
3.0	**Values, autonomy, and responsibility**			

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.1	Take responsibility for lifelong learning.	V1	Group Discussion Self-directed learning	Oral presentation - Group
			Team based learning	Individual assignment
3.2	Engage in effective teamwork, inter-agency and collaborative working with respect of legal and ethical issues.	V3	Group Discussion Team based learning Self-directed learning	Oral presentation - Group Individual assignment

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction of health informatics	2
2.	Health care information system	2
3	Theories, models and framework supporting health informatics.	2
4	Legal and health Ethical Considerations in health Informatics	2
5	Professional Use of Electronic Resources	2
6	Selecting a Healthcare Information System	2
7	The Role of Standardized Terminology and Language in Informatics	2
8	The Electronic Health Record	2
9	Integrating Technology, Informatics, and the Internet into Nursing Education	2
10	Consumer Education and Informatics	2
11	Public Health Informatics	2
12	Telehealth	2
13	Evidence-Based Practice (EBP) and Research	2
14	challenges of nursing informatics	2
15	Revision	2
Total		**30**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1	Continuous assessment		30%
1.1	Electronic quiz	3rd	10
1.2	Quiz	5th	5
1.3	2- Individual assignment	9th	5

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No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.4	Oral presentation - Group	11th	5
1.5	Oral test	13th	5
2	Mid exam (written test)	7th	20%
3	Final exam (written test)	16th	50%
	Total		100%

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	- Enrico Coiera.(2015), Guide to Health Informatics , 3rd edition, CRC Press. eBook ISBN9780429192777. - Ramona Nelson , Nancy Staggers(2013), Health Informatics : An Interprofessional Approach,(2nd ed.,), Elsevier - Health Sciences Division. ISBN13 9780323402316. - Frank Sullivan, Jeremy C. Wyatt.(2016), ABC of health
Supportive References	Toni Hebda,Patricia Czar:(2016),Handbook of Informatics :For Nurses & Heath Care Professionals,(5th ● ed.),PEARSON.
Electronic Materials	Blackboard materials
Other Learning Materials	● E- books electronic ● Online US Library

3. Required Facilities and equipment

Items	Resources
facilities	Size of class room appropriate Number of lecturer room should be large enough with good ventilation E- learning lab
Technology equipment	Data show Blackboard Laptop computer Computer based simulator Project system
Other equipment	E- books electronic Online US Library

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Program Leaders	Direct / indirect

Assessment Areas/Issues	Assessor	Assessment Methods
	Peer Reviewer Students Faculty Academic performance follows up committee. Students GPA	Direct
Effectiveness of Students assessment	Program Leaders Peer Reviewer Students Faculty Academic performance follows up committee. Examination committee	Direct / indirect
Quality of learning resources	Program Leaders Peer Reviewer Students Faculty PLOs assessment committee	Direct / indirect
The extent to which CLOs have been achieved	Program Leaders Peer Reviewer Students Faculty Academic performance follows up committee. Examination committee Students Results	Direct / Indirect
Other		

G. Specification Approval

COUNCIL /COMMITTEE	DEPARTMENT COUNCIL
REFERENCE NO.	1/44/45
DATE	21-8-2023