



Course Specification

(Bachelor)

Course Title: **Health informatics**

Course Code: **MID26424**

Program: **Bachelor of Midwifery Sciences**

Department: **Nursing**

College: **Applied Medical Science**

Institution: **University of Bisha**

Version: **1**

Last Revision Date: **30 July 2023**





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A. General information about the course:

1. Course Identification

1. Credit hours: 2(2+0)

2. Course type

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

3. Level/year at which this course is offered: (7th level / 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. Pre-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	24	80%
2	E learning	2	7%
	Hybrid - Traditional classroom - E-learning		



No	Mode of Instruction	Contact Hours	Percentage
4	Others: Interactive learning	4	14%
5	Total	30	100

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Study lectures	24
2.	Laboratory/Studio	-
3.	Tutorial	-
4.	E-learning	2
5.	Interactive learning	4
6.	Others; Bb, self-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, and telemedicine	K1	Interactive Lecture & group discussion	Written Exam
1.2	Identify theories ,frameworks and models supporting informatics practice	K1		
1.3	Describe the impact of technology in organizational communication.	K3		
2.0	Skills			
2.1	Differentiate between different types of nursing technology used forpatient care	S1	Lecture & Group discussion	Written Exam
2.2	Discuss complication and challenges in nursing informatics.	S2	Interactive Lecture & Group discussion	Written Exam
2.3	Use the internet and other electronic sources as a mean of communicates and a source of	S4	Group discussion	Written Exam





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	information			
3.0	Values, autonomy, and responsibility			
3.1	Take responsibility for lifelong learning.	V1	Group discussion, TBL	Assignment, seminar
3.2	Committed to promote health and nursing care utilizing health informatics	V2		
3.3	Engage in effective teamwork, inter-agency and collaborative working with respect of legal and ethical issues.	V3		

C. Course Content

N o	List of Topics	Contact Hours
1.	Introduction to health informatics	2
2.	- Core Elements in Nursing Informatics. - Data Standards. - Data Sets, Classifications and Nomenclature. - Review of Current and Emerging Taxonomies. - Network Integration. System Integration and Interface Engines	2
3.	Information & Communication Technologies	2
4.	Theories, models and framework supporting nursing informatics.	2
5.	- Ethical, Political, Legal and Social Influences in midwifery Informatic - Ethics & Bioethics - Ethical Issues & Social Media Ethics & Informatics	2
6.	Electronic Health Record	2
7.	Clinical Information Standards	2
8.	Clinical Decision Support Tools	2
	- Informatics in Health Care Education - OSEN competencies - TIGER initiative	4



	- o Online instruction - o Social networking - o Simulation o Student counseling	
10.	- Informatics in Patient Care Settings - o The electronic medical records (EMR) and the electronic health records(HER). - o Next generation nursing systems - o Health data storage and exchange - o Telemedicine - o Clinical imaging - o Automated staffing and workload systems - o Quality assurance o Social, ethical and legal Issues	4
11.	Informatics in Health Care Research o Data collection ♣ 1. Qualitative: data bases ♣ 2. Quantitative: lotus, spreadsheets o Data analysis--qualitative and quantitative o Data Presentation o Social, ethical and legal Issues o Trends and directions for the future	4
12.	Complications and challenges of health informatics	2
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Continuous assessment	All through	30%
2.	Mid exam: theory	8 th	20%
3.	Final exam: theory	16 th	50%
4.	Total		100%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).



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 - HealthSciences 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

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, exhibition rooms, simulation rooms, etc.)	○ Classrooms ○ simulation rooms ○ laboratories ○ Clinical setting (Hospital)
Technology equipment (projector, smart board, software)	○ Data show projector ○ Blackboard ○ smart board ○ Laptop computer ○ Computer based simulator
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students Course coordinatorProgram Leaders	Direct /indirect
Effectiveness of Students assessment	Students Course coordinatorProgram Leaders	Direct /indirect



Assessment Areas/Issues	Assessor	Assessment Methods
	Examination revision committee	
Quality of learning resources	Course coordinator Peer reviewer Examination revision committee	Direct /indirect
The extent to which CLOs have been achieved	Program Leader Course coordinator	Direct /indirect
Other		

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	

