



Course Syllabus - MBBCh

1. Course title: Medical Informatics		Course Code: MI1113
2. Credit/contact hours:	20 hours	
3. Number of weeks	15	
4. Level/year at which this course is offered:	Year 1 Sem1	
5. Pre-requisites for this course (if any): non		
6. Co-requisites for this course (if any): non		

Course Synopsis

This course introduces students to healthcare informatics.

Course Learning Outcomes

CLOs		Aligned-PLOs
1		
K1	Define data, information and informatics	A3
K2	Describe the process of information management	A3
K3	Describe the major hardware components of a computer system; know how to select high quality information	A3
K4	Demonstrate understanding of information systems concepts, components, and principles	C2
K5	Identify the roles of information systems played in health care organizations;	C4
K6	Recognize time management principles	C2
K7	Analyze the importance of the different applications of health information technology; and communications systems (PACS) play in enhancing the operation and efficiency of medical imaging departments	C2
K8	Explain the importance and contents of the electronic health record (HER)	C4
K9	Review the standards in coding and exchanging medical data	A3
K10	Relate data, information and knowledge (DIK) hierarchy and explain its concepts and relevance to health care and health IT	C4

Course Delivery Plan

No	List of Topics	Contact Hours
1	Data, Information, & Informatics	3
2	Time management	5
3	Quality of Information	3
4	Computer-assisted communication	3
5	HIS & EMR	6
Total		20

Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
K1	Define data, information, and informatics	Lecture	MCQ
K2	Describe the process of information management	Lecture	MCQ
K3	Describe the major hardware components of a computer system; know how to select high quality information	Lecture, Discussion forum	MCQ, Discussion forum
K4	Demonstrate understanding of information systems concepts, components, and principles	Lecture, Discussion forum	MCQ, Discussion forum
K5	Identify the roles of information systems played in health care organizations;	Lecture	MCQ
K6	Recognize time management principles	Lecture, CAL	
K7	Analyze the importance of the different applications of health information technology; and communications systems (PACS) play in enhancing the operation and efficiency of medical imaging departments	Lecture, Discussion forum, Assignment	MCQ, Discussion forum, Assignment

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
K8	Explain the importance and contents of the electronic health record (HER	Lecture, Assignment	MCQs & Assignment
K9	Review the standards in coding and exchanging medical data	Lecture, Assignment	MCQs & Assignment
K10	Relate data, information and knowledge (DIK) hierarchy and explain its concepts and relevance to health care and health IT	Lecture, Assignment	MCQs & Assignment

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Year assessment	Throughout semester	30
2	Final Exam (MCQ)	12	70

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<p>1- Pamela K Oachs, PK Amy Watters, A .2016. Health Information Management Concepts, Principles, and Practice, 5th Edition, AHIMA</p> <p>2- Lorenzi, N ; Riley, R .(2010) Managing Technological Change Organizational Aspects of Health Informatics , SpringerLink</p> <p>3- Marx, EW; Padmanabhan P .(2020). Healthcare Digital Transformation How Consumerism, Technology and Pandemic are Accelerating the Future</p>
Essential References Materials	<ul style="list-style-type: none"> Lecture notes uploaded on LMS
Electronic Materials	<ul style="list-style-type: none"> Access Medicine
Other Learning Materials	<p>LMS course content</p> <p>LMS quizzes</p> <p>LMS Assignments</p> <p>LMS discussion</p>

	MS Office tools Internet search engines Demonstration videos
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2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classroom
Technology Resources (AV, data show, Smart Board, software, etc.)	Smart Board MS Office tools Internet search engines Demonstration videos
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

Instructor:

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