



KINGDOM OF SAUDI ARABIA
 IMAM MOHAMMAD IBN SAUD ISLAMIC UNIVERSITY
 COLLEGE OF COMPUTER AND INFORMATION SCIENCES
 INFORMATION SYSTEMS DEPARTMENT
 BACHELOR IN INFORMATION SYSTEMS

المملكة العربية السعودية
 جامعة الإمام محمد بن سعود الإسلامية
 كلية علوم الحاسب والمعلومات
 قسم نظم المعلومات
 بكالوريوس نظم المعلومات

SYLLABUS

IS1354: Health Information Systems

CREDIT HOURS	3 credit hours (2 hrs Lecture + 2 hrs Lab)
---------------------	---

PREREQUISITE	IS1235
---------------------	---------------

Instructor:
Contact information and office hours
Office No: To be announced (TBA)
Office Hours: TBA
E-mail: _____@imamu.edu.sa

COURSE DESCRIPTION
<p>Enable students to understand HIS.</p> <p>Deal with problems to which HIS is applied.</p> <p>Students learn how to deal with health data in terms of storage, privacy...etc.</p> <p>Explore the latest technologies and the emerging trends in HIS.</p>

COURSE LEARNING OUTCOMES (CLOs)		Aligned SOs
1	Knowledge and Understanding	
1.1	Describe the HIS field along with the fundamental types of HIS data, including medical billing and EHR.	1(I)
1.2	Recognize the different HISs available and the importance of HIS privacy and security.	1(P)
1.3	Explore the latest research and emerging technologies in HIS.	1(A)
1.4		
1.5		
2	Skills :	



2.1	Explore and retrieve HIS data with a commercially available HIS software tools	2(P)
2.2	Describe and analyze medical data	2(P)
2.3	Compare and contrast health care systems and available vendors	2(P)
2.4		
2.5		
3	Values:	
3.1	Function effectively on teams to accomplish a common goal.	5(P)
3.2	Present a topic in a compelling manner.	3(P)
3.3		
3.4		
3.5		

TEACHING Strategies
Lectures
Self-Learning

N o	List of Topics	Contact Hours	Self- Learning
1	Introduction to health information systems (Chapter 1)	6	
2	Health information systems –Self learning (External Source)	3	2
3	Healthcare data and analytics (Chapter 2, Chapter 7)	6	
4	Analyzing health data (LAB) Statistical analysis tool	6	2
5	Electronic health record (Chapter 4)	3	
6	Medical Billing external source (To include medical billing)	3	
7	Electronic health record and medical billing (LAB) Discuss a commercial available tool for medical billing or Electronic health record	6	2
8	Telemedicine (Chapter 17)	3	
9	Public health informatics (Chapter 19)	3	
10	Privacy and security for health information systems –Self learning (Chapter 10)	3	
11	Health information ethics (Chapter 11)	3	2
12	Project discussion	3	
Total		48	8

TEXT BOOK



- Hersh, William R., and Robert E. Hoyt. Health Informatics: Practical Guide Seventh Edition. Lulu. com, 2018.

REFERENCES

Course Assessment Methods			
No	Assessment Method	Due Week	% of Total Assessment
1	Quiz	4	10
2	Assignment	9	10
3	Midterm	7	20
4	Project / Lab Exam	11	20
5	Final Exam	13	40