

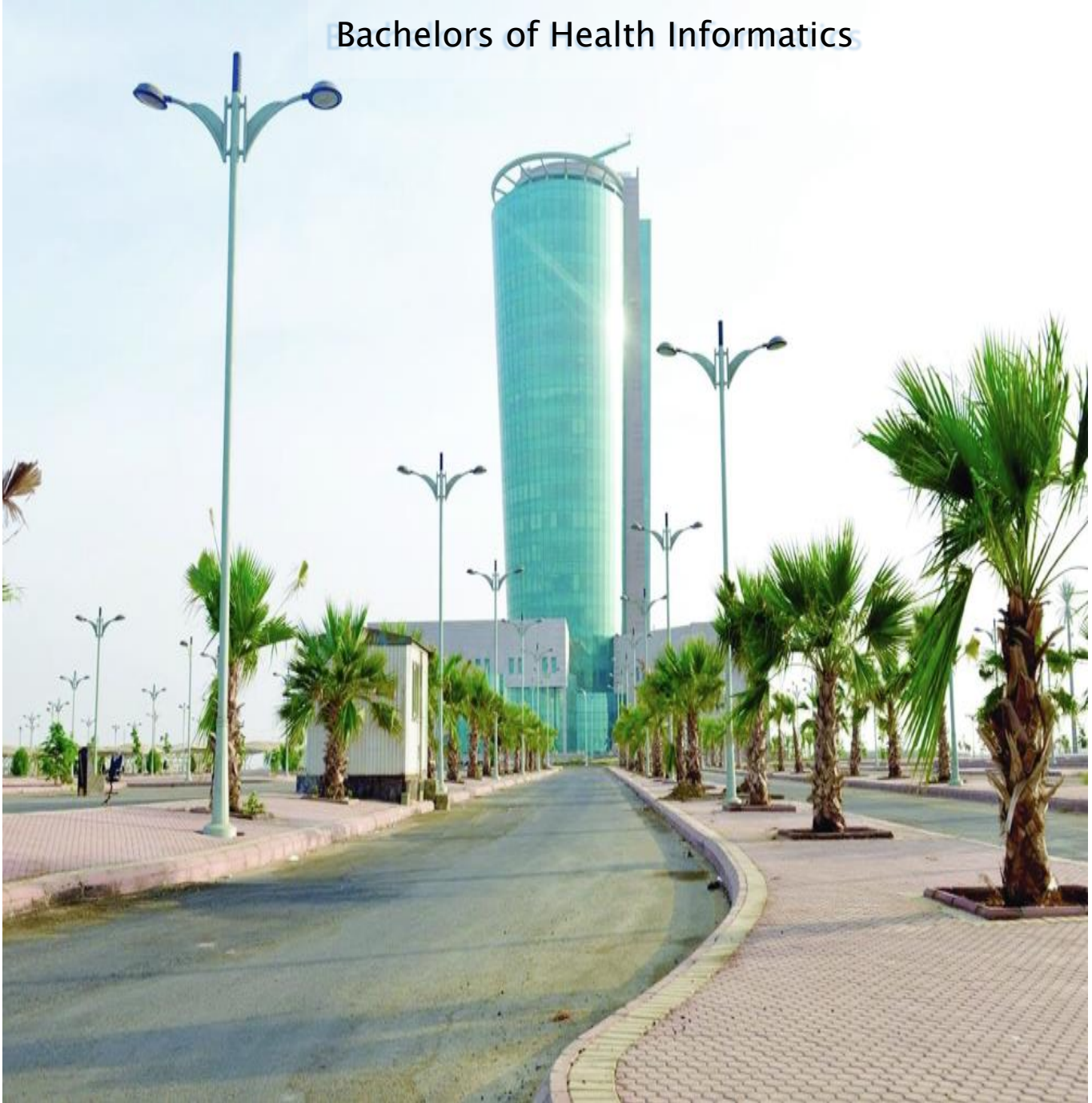
# STUDENT PROGRAM HANDBOOK



كلية الصحة العامة وطب المناطق الحارة  
Faculty of Public Health & Tropical Medicine

جامعة جازان  
JAZAN UNIVERSITY

Bachelors of Health Informatics



قسم المعلوماتية الصحية

Department of Health Informatics

# YOUR PROGRAM HANDBOOK

This handbook sets out a range of program information and, where applicable, points to a number of other important documents to help support you through your studies at the University.

The purpose of this handbook is to provide information about your program of study.

It is designed to support you throughout your studies and it is important to familiarise yourself with all the contents of this handbook.

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# PROGRAM OVERVIEW

## Mission

To graduate professionals in health informatics equipped with skills needed for the development of healthcare sector in Saudi Arabia.

## Vision

To be recognised as the leading foundation of health informatics education in Saudi Arabia through our high standardised academic programs, scientific research, and community services.

## Program Goals

1. To utilize the latest curriculum with teaching and learning methods, those are compatible with the needs of students and the labor market.
2. To prepare students with knowledge, skills and competencies necessary to deal with current and modern technology used in the healthcare system, to evaluate, develop and implement future plans across various healthcare institutions.
3. To train the students to perform tasks such as collecting, storing, analyzing and retrieving data, taking into consideration the professional, legal, ethical and administrative aspects of healthcare institutions, thus be an active member of a multidisciplinary team.
4. To disseminate the knowledge of the specialty through the provision of educational platforms, conducting research and providing periodic training programs.
5. To engage and interact with the community so as to attain a mutual benefit for the staff, students, healthcare facilities and other government institutions.

## Importance of Program

In the era of digitization, it is necessary to train and equip the healthcare professionals with the knowledge, skills and expertise of managing information in a secure and systematic form using technological approach. Health Informatics is one of the unique emerging disciplines that combine computer sciences, management sciences and Information and communication technology.

The program of HI prepares highly qualified students for information management and provides technical leadership including managing innovative projects in primary healthcare centers, hospitals and other allied healthcare organizations. These professionals perform a variety of health records related duties such as, managing patient's information by collecting, storing, analyzing and retrieving data to meet the professional, legal, ethical, and administrative requirements of the system.

In addition, the health informatics professionals are involved in designing and maintaining information management systems and excel in technical and decision making roles in various healthcare institutions. They could also be involved in project management duties in various businesses and commercialized entities catering to the routinely functional needs of health facilities. Computer software and information technologies enable health care organizations to automate the work of decision making for improved quality of care, cost control, and for successful care management.

## Program Learning Outcomes

- Illustrate the procedures, policies and functions relating to management of patient data, data warehouse and data mining in health care facility.
- Summarize the technical requirements necessary for an effective comprehensive patient data management system, translation of medical terms, clinical coding, billing and reimbursement.
- Prioritize safeguard measures for the proper use and dissemination of health data to maintain patient privacy and health record confidentiality.
- Develop a project plan for Implementation, utilization, functionality and maintenance for effective information exchange at hospital.

- Perform accurately procedures of patient registration and data mining then integrate the patient diagnosis with hospital data management systems and categorize them for ICD codes assignment.
- Analyze the technical issues related to project implementation, networking, integration, security, statistical reporting and quality management.
- Devise an ethical based systematic approach of data management with utmost importance to privacy, confidentiality and security of health information of the patients.
- Demonstrate an ability of leadership and decision making by leading the group projects, be a team player and effectively communicate with the clients
- Demonstrate competency for use of technical devices for effective data management.

### Program Duration

- Total duration is 4 years
- After finishing the four years, the students will have to work as an intern in different healthcare sectors (ministry, hospitals, primary healthcare centers, vendors and private dispensaries) for a period 48 weeks.

### Credit Hours

- Total 129 credit hours

### Potential Job Opportunities

- Health Informatics Specialist
- Data Analyst
- Clinical Informatics Analyst
- Health Information Management Manager
- Health Information Technician
- Chief Medical Information Officer
- Health Record Manager/Electronic Health Record Keeper
- Healthcare IT project Manager
- Health Informatics Consultant
- Program Analyst
- Coding Specialist
- Insurance Claim Analyst
- Patient Information Coordinator

# STUDY PLAN

Level 1						
Code	Course Title	Hours				Pre-requisites
		T	P	Act.	Credit	
101 ISLM	Islamic Culture 1	2	0	2	2	---
102 ARB	Arabic Writing	2	0	2	2	---
181 ENG-8	English Language for Health Specialties	24	0	24	8	---
Total		28	0	28	12	

Level 2						
Code	Course Title	Hours				Pre-requisites
		T	P	Act.	Credit	
105 PHYS	Physics for Health Specialties	3	2	5	4	181 ENG-8
105 BIO	Biology for Health Specialties	3	2	5	4	181 ENG-8
105 CHEM	Chemistry for Health Specialties	3	2	5	4	181 ENG-8
182 ENG	English Language for Academic Purpose *	6	0	6	3	181 ENG-8
Total		15	6	21	15	

\* 182 ENG is a pre-requisite for all courses in levels 3-8 except 102 ISLM.

Level 3						
Code	Course Title	Hours				Pre-requisites
		T	P	Act.	Credit	
102 ISLM	Islamic Culture 2	2	0	2	2	---
211 PHS	Introduction to Public Health	3	0	3	3	---
211 HID	Learning Skills for Health Specialties	1	2	3	2	---
212 Physio-2	Human Physiology	2	0	2	2	105 BIO
220 ANAT	Introduction to Human Anatomy	2	2	4	3	---
221 ENV	Principles of Environmental & Occupational Health	2	0	2	2	105 PHYS, 105 CHEM
243 PHCL	Introduction to Ethics in the Health Professions	2	0	2	2	---
Total		14	4	18	16	

Level 4						
Code	Course Title	Hours				Pre-requisites
		T	P	Act.	Credit	
212 HSM	Healthcare Systems and Policies	2	0	2	2	---
213 PHS	Microbiology and Parasitology for Public Health	2	2	4	3	220 ANAT, 212 Physio-2
214 PHS	First Aid and Physical Assessment	1	2	3	2	220 ANAT, 212 Physio-2
215 PHS	Medical Terminology	2	0	2	2	---
221 HEP	Introduction to Health Education & Promotion	2	0	2	2	---
221 HID	Introduction of Health Informatics	2	0	2	2	---
222 EPI	Principles of Epidemiology	2	0	2	2	211 PHS
222 STA	Fundamentals of Biostatistics	1	2	3	2	---
Total		14	6	20	17	

Level 5						
Code	Course Title	Hours				Pre-requisites
		T	P	Act.	Credit	
316 EPI	Disease Process	3	0	3	3	---
322 HID	Applications in Health Informatics	3	0	3	3	221 HID
323 HID	Health Records	3	0	3	3	---
323 STA	Applied Biostatistics	2	2	4	3	222 STA
331 HID	Fundamentals of Information Systems in Healthcare	2	0	2	2	---
332 HID	Introduction to Database	1	4	5	3	---
Total		14	6	20	17	



Level 6						
Code	Course Title	Hours				Pre-requisites
		T	P	Act.	Credit	
313 HSM	Organizational Behavior in Health Care	2	0	2	2	---
324 HID	Sociology of Health and Illness	2	0	2	2	---
325 HID	Health Data Classification & Coding Systems	2	4	6	4	215 PHS
333 HID	Programming 1	1	4	5	3	---
334 HID	Database Management Systems	1	4	5	3	332 HID
352 GPH	Research Methodology	2	2	4	3	323 STA, 222 EPI
Total		10	14	24	17	

Level 7						
Code	Course Title	Hours				Pre-requisites
		T	P	Act.	Credit	
413 HSM	Health Economics	2	0	2	2	---
415 HSM	Healthcare Quality & Patient Safety	2	0	2	2	---
424 STA	Hospital Statistics	1	2	3	2	323 STA
427 HID	Project Management in Health Informatics	1	4	5	3	---
435 HID	Programming 2	1	4	5	3	333 HID
436 HID	Health Systems Analysis and Design	1	4	5	3	331 HID
451 HID	Health Research Design	0	6	6	3	352 GPH
Total		8	20	28	18	

Level 8						
Code	Course Title	Hours				Pre-requisites
		T	P	Act.	Credit	
414 HSM	Health Service Management	2	0	2	2	---
426 HID	Legal & Ethical Aspects of Health Informatics	2	0	2	2	---
428 HID	Trends in Health Informatics	2	0	2	2	---
429 HID	Data Management and Visualization	1	2	3	2	325 HID
437 HID	Human Computer Interaction	3	0	3	3	---
459 HID	Graduation Project	0	8	8	4	451 HID
Elective Course	From Elective List*	2	0	2	2	---
Total		12	10	22	17	

Elective Courses List - Level 8						
Code	Course Title	Hours				Pre-requisites
		T	P	Act.	Credit	
417 HSM	Financial Accounting in Healthcare	2	0	2	2	---
434 HID	Mobile Computing in Healthcare	2	0	2	2	---
438 HID	Network and Cybersecurity	1	2	3	2	---
439 HID	Geographic Information Systems for Public Health	1	2	3	2	---

# STAFF AND CONTACT DETAILS

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# CALENDAR AND TIMETABLE

The academic calendar is available to view at any time on the university website.

Through your online portal you'll be able to see exactly where and when each of your lectures, practical and other course-related activities for the forthcoming term are due to take place.

If you have any issues with your timetable, please report them to the your academic advisor or program coordinator.

# ASSESSMENT

You'll be assessed throughout the semester through quizzes, academic essay assignments, presentations and class participation. Mid-term exam will be conducted during the seventh or eighth week and final exam at the end of semester.

Students are required to submit the assignments and course work in the given time and give utmost importance to the avoidance of plagiarism.

# ACADEMIC ADVISING

Every student will be assigned an academic advisor who will support the student's educational and career success. Advisors will provide you guidance on academic policies and regulations; assist you with your study plan and other resources available on-campus that offer academic and personal support. Academic advisor is the first point of contact for the student and it is important for the student to remain in constant communication with his/her Academic Advisor.

Department Head: Dr. Fahad Khan Azeez

