

Assurance Letter for Research Participation

Benchmarking IMIA Recommendations for the Health Informatics Undergraduate Program in Saudi Arabia: A Mixed Methodology

Dear Participant,

We are conducting a research study to benchmark the recommendations of the International Medical Informatics Association (IMIA) for health informatics undergraduate programs in Saudi Arabia. Your participation is vital to the success of this study as it will help us assess the competencies of professionals like yourself who are involved in health informatics education and practice.

Your insights and experiences will contribute to improving health informatics programs and align them with international standards.

Please rest assured that your participation is voluntary and confidential. Any data you provide through this survey will be handled according to strict research ethics. Your responses will be anonymized, and no identifying information will be linked to your answers. The data will be used solely for the purposes of this research and stored securely. Only the research team will have access to the data, and all records will be kept confidential in compliance with ethical guidelines.

Your contribution to this study is invaluable, and we greatly appreciate your time and effort. Should you have any questions or concerns about the study, feel free to contact us. Please take a moment to complete this survey, which should take approximately 10-15 minutes.

Thank you for your participation.

Sincerely,

Dr. Haitham Alzghaibi

Associate Professor

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Section 1: Demographics

1. Gender

- Male
- Female

2. Occupation

- Academic
- Healthcare professional
- IT professional
- Researcher

3. Level of Education

- Bachelor's degree
- Master's degree
- Doctorate (PhD)

[illegible]

Percentage of Management science in internship										
Percentage of Social and behavioral sciences in internship										
Percentage of Specialization in internship										

- **This is the guide line for all core competences with their contents**

Table 3
BMHI Knowledge Domains and Corresponding Topics.

1 BHMI CORE PRINCIPLES	2 HEALTH SCIENCES AND SERVICES
Clinical decision support Data governance Education support through informatics methods and tools Evaluation and assessment of information systems Health informatics standards and interoperability Health record structure, design, and analysis principles History of BMHI Information literacy Information processing in healthcare Literature retrieval and analysis Nomenclatures, vocabularies, terminologies, ontologies, and taxonomies Regional networking and shared care Research methods and paradigms Telemedicine and telehealth	Biomedicine Care delivery models Clinical decision making Determinants of health Epidemiology Evidence informed practice Health policies and regulatory frameworks Health promotion Health sector roles Health terminology Healthcare service organization structure and function Human anatomy and physiology Participatory health Patient empowerment Patient safety Person-centred care Public health
3 COMPUTER, DATA, AND INFORMATION SCIENCE	4 SOCIAL AND BEHAVIORAL SCIENCES
Artificial intelligence Blockchain technology Cloud and edge computing Data and information analysis Data and information attributes Data and information visualization Design and development principles Information science theories Information structure and design Internet of Things Network architectures and topologies Robotics System design System lifecycle System security Wireless technology, sensor-based systems	Digital literacy and the digital divide Ethics, Security and Privacy Health literacy Indigenous data sovereignty principles Medical law Problem solving Sociotechnical aspects Stakeholder education Stakeholder engagement User experience
5 MANAGEMENT SCIENCE	6 BMHI SPECIALIZATION
Business alignment Change management Health economics Information culture Leadership Interdisciplinary team management Process reengineering Project management Quality management Resource management Risk management System governance Value management and benefits realization	Biomedical imaging and signal processing Biomedical modelling and simulation Chemoinformatics Clinical bioinformatics and computational biology Clinical research informatics Global health informatics Nanoinformatics Participatory health informatics Personal health informatics Public health informatics Translational bioinformatics