<p style="text-align:center"><strong style="color:green">In the Name of God</p>

<p style="text-align:center">Islamic Republic of Iran
Ministry of Health and Medical Education
Deputy for Education</p>

<p style="text-align:center"><strong style="color:red"># Medical Library and Information Science
Degree: Doctor of Philosophy (PhD)</p>

Total Course Credits

- Core: 23
- Non-core (Electives): 4
- Dissertation (PhD): 20

Program Description

Medical Library & Information Science is a multidisciplinary field. PhD graduates learn more about how to employ new technologies to effectively facilitate medical information acquisition, organization, retrieval, dissemination and translation. They can contribute in promoting knowledge, evaluating scientific output and making necessary policies towards scientific productivity.

PhD graduates of Medical Library & Information Science will have a significant contribution in theoretical and practical advancement of this field. The graduates can use new technologies to promote the information services; they will have a significant contribution in information and knowledge needs assessment, selection, organization and dissemination. They also can advance the frontiers of knowledge by preparing research literature as well as innovations and render consultative services in research teams.

The program aims to train and graduate qualified professionals with thorough knowledge of theory and practice in Medical Library and Information Science. The main mission of this course is to train knowledgeable, skillful and competent graduates in Medical Library & Information Science. Evidence-based medicine increases the role of competent graduates in Medical Library and Information Science. Administrating libraries, especially designing and administrating digital libraries, is at the stake of designing proper information retrieval systems that can be performed under the supervision of PhD graduates. They can also contribute by offering courses at BSc, MSc and PhD levels and teaching workshops to enhance the knowledge, skill and search proficiency of researchers and to promote information literacy and health information literacy of their target population. The graduates can additionally make significant contributions by tracking the country's scientific output to compare its scientific status with other countries in the region and worldwide.

Admission Requirements

- A master's degree in Medical Library and Information Science, Library and Information Science, Scientometrics, Medical Informatics, Health Technology Information, Medical Records, Medical Records Education, Health Services Management, or Health Economics is required. Applicants should obtain their degree from valid universities, in Iran or abroad, which have been approved by the Ministry of Health, Treatment and Medical Education or the Ministry of Science, Research and Technology.
- The applicants should additionally take part in an Entrance Exam held by the Ministry of Health, Treatment and Medical Education. The subjects of the Exam are indicated in the box below.

Important note: The above-mentioned conditions are not applicable to students studying abroad, in a different country. Also, these general conditions do not necessarily exclude the specific conditions considered by each particular university or scientific institute.

Subjects included in the Entrance Exam

Subjects	Weight
Library Science	4
Information Science and Systems	3
Information Management	2
Management Theories	1
Total	10

Expected Competencies at the End of the Program
General Competencies*

Specific Competencies and Skills
At the end of the program learners will be competent in the following skills:
- Getting familiar with new technologies, such as the web 2.0, and artificial intelligence, with their role in the Library and Information Science
- Acquiring advanced information skills
- Cooperating in policy making in innovation, research, technology and knowledge production and translation at national, regional and international level
- Collaborating in research projects especially in performing systematic reviews

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)
- Formative (Quizzes and Midterm Exam)
- Summative (Final Exam)
- Methods of assessment: oral, written, observation, log book, test results, reports, projects, research and papers

Ethical Considerations*
*Note: The related document(s) can be found at http://hcmep.behdasht.gov.ir/

Tables of the Courses

Table 1.Compensatory Courses

Code of the Course	Title of the Course	Credits			Hours			Prerequisite or Concurrent Courses
		Theoretical	Practical	Total	Theoretical	Practical	Total	
01	Information Technology in Health Information System	2	-	2	34	-	34	-
02	Health Economics*	2	-	2	34		34	-
03	Indexing and Abstracting	1	1	2	17	34	51	-
04	Health Resources (Information) Organization	1	2	3	17	68	85	-
05	Information Storage and Retrieval	2	1	3	34	34	68	-
Total		12						

The students should pass some or all the compensatory credits, based on the decision made by the related departments and approved by the Post-graduate Council of the university.

 *passing these courses is obligatory for all students who have not taken them before.

Table 2.Core Courses

Code of the Course	Title of the Course	Credits			Hours			Prerequisite or Concurrent Courses
		Theoretical	Practical	Total	Theoretical	Practical	Total	
06	Information Needs and Behavior	2	-	2	34	-	34	-
07	Library and Information Centers Planning and Evaluation (Emphasis on Libraries and Medical Information Centers)	2	-	2	34	-	34	-
08	Information Retrieval Systems	2	-	2	34	-	34	01, 05
09	Database Management (Medical Library and Information Science)	2	-	2	34	-	34	-
10	Comparative Library and Information Science	2	-	2	34	-	34	-
11	Research Seminar in Medical Library and Information Science	2	-	2	34	-	34	-
12	Health Information Management	2	-	2	34	-	34	-
13	Communication Sciences	2	-	2	34	-	34	-
14	Information Economics	2	-	2	34	-	34	02
15	Medical Literature	2	-	2	34	-	34	-
16	Internship	-	3	3	-	153	153	-
17	Thesis	-	20	-	-	-	-	-
Total		43						

Table 3.Non- Core Courses (Electives)

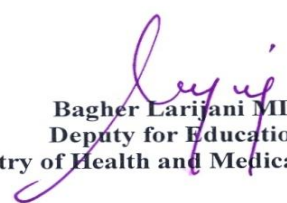| Code of the Course	Title of the Course	Credits			Hours			Prerequisite or Concurrent Courses
		Theoretical	Practical	Total	Theoretical	Practical	Total	
18	Health Services Organization, Management & Planning	2	-	2	34	-	34	-
19	Health Information Science Systems	2	-	2	34	-	34	-
20	Statistics in Library and Information Science	2	-	2	34	-	34	-
21	Educational Planning Management	1.5	0.5	2	26	17	43	-
	Total	8						

Students should select and pass 4 credits (2 courses) from the Non-Core courses, depending on the topic of her/his dissertation, the supervisor's suggestions and the department's approval.

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