

In the Name of God

Islamic Republic of Iran Ministry of Health and Medical Education Deputy for Education

Epidemiology Doctor of Philosophy (PhD)

Total Course Credits

- Core: 20
- Non-core 10
- Dissertation 20
- Total 50

Program Description

Epidemiology is a branch of health sciences which studies distribution and determinant factors of health-related states or events in specific populations and investigates application of these studies to fight with health hazards. The PhD students are expected to graduate with knowledge and skills in the fields of epidemiology in order to:

- develop the practical and theoretical aspects in their field
- carefully criticize studies as to scientific principles in research methods, data collection and analysis
- acquire skills to work in national health systems by relying on epidemiologic thought and knowledge, analysis and policy making ability, methods of applying research knowledge to planning and operational fields

This field is easily combined with other fields and there is an interaction between experts of this field and those of other fields. Practicing justice, law and systematic thinking; developing evidence; and decision-making based on evidence are its outstanding characteristics. The educational aim of this program is training competent individuals in education, research and health management areas. To this end, the aims of this program are as follows:

Admission Requirements

- Holding an M.S. degree in any health sciences field (like public health, nursing, midwifery ...) from an accredited university. The department encourages the graduates from schools of medicine (MD), dentistry (DD) and pharmacy (PharmD) to apply.

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:

- Stating the health related problems in a population and setting priorities

- Developing proposals for doing epidemiological studies
- Designing epidemiological studies
- Implementing epidemiological studies in fields
- Reporting epidemiological evaluations.

Educational Strategies, Methods and Techniques*

Student Assessment (Methods and Types)

- Formative
- Summative
- Comprehensive exam (PhD Comprehensive Examination)

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		
		Total	Theoretical	Practical
01	Health Information Systems*	1	0.5	0.5
02	Principles of Epidemiology	2	2	-
03	Methods of Biostatistics 1	2	2	-
04	Research Method	2	1	1
05	Preliminary Mathematical Statistics	2	2	-
06	Epidemiology of Communicable Diseases	2	2	-
07	Epidemiology 1 / Methods	2	2	-
08	Internship (community assessment)	2	-	2

Table 2: Core Credits

Code of the Course	Title of the Course	Credits			Prerequisite Courses
		Total	Theoretical	Practical	
09	Epidemiology 2 / Scientific Inference in Epidemiology	2	2	-	-
10	Epidemiology 3 / Trials	2	2	-	-
11	Epidemiology 4 / Case Control	2	2	-	-
12	Epidemiology 5 / Ecological, Descriptive, and Cohort Studies	2	2	-	-
13	Statistics 2 / Statistics in Epidemiology	3	3	-	-
14	Epidemiology 6 / Secondary Studies	2	1	1	09 & 13



15	Statistics 3 / Survival Analysis	2	2	-	-
16	Qualitative Studies	2	2	-	-
17	Seminar	1	-	1	-
18	Internship 1	1	1	-	-
19	Internship 2	1	1	-	-
20	Dissertation	20			

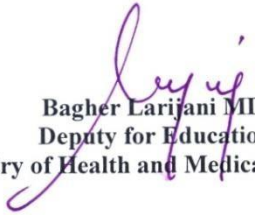
Table 3: Non-core Credits

Code of the Course	Title of the Course	Credits			Prerequisite Courses
		Total	Theoretical	Practical	
21	Prediction Models in Epidemiology	2	2	-	09 & 14
22	Molecular Epidemiology and Genetics	2	2	-	-
23	Pharmaco-epidemiology	2	2	-	-
24	Nutritional Epidemiology	2	1	1	-
25	Epidemiology of Accidents	2	2	-	-
26	Reproductive, Maternal and Child Epidemiology	2	2	-	-
27	Clinical Epidemiology	2	1	1	-
28	Nosocomial Epidemiology	2	2	-	-
29	Epidemiology of HIV / AIDS	2	2	-	-
30	Geography of Health	2	2	-	-
31	Demography	2	2	-	-
32	Social Epidemiology	2	2	-	-
33	Health Economics	2	2	-	-
34	Economic Evaluation	2	2	-	33
35	Epidemiological Knowledge Transfer	2	2	-	-
36	Research Management and Administration	2	2	-	-



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