### **Health Economics**

### **MSc in Health Economics**

Master's degree programs in Health Economics focus on the analysis of production, consumption, and policymaking in health. In developed countries, especially in English speaking countries, the term 'Health Economics' refers to this concept. In other words, Health Economics is concerned with the teaching and application of economic tools and concepts in different areas of health. It examines the health market, its development, the key players, available resources, limitations, and the needs and priorities of public health. Analysis of these factors is carried out by applying economic approaches such as optimizing resource use, maximizing profits, minimizing costs, and ensuring efficiency, equity, and quality. In summary, Health Economics studies the markets of production and consumption of health goods and services in the broadest sense, considering the scarcity of resources.

**Vision**:

Within a 10-year perspective, the aim of the Health Economics field is to educate graduates who will be capable of effectively participating in the health system and contributing to economic decision-making and policy-making. As a consequence of this involvement, health services are expected to be more efficient and cost-effective, and economic indicators for the health system will improve, contributing ultimately to the improvement of public health. Further, the quantitative and qualitative development of education and research in the area of Health Economics is another vision for this field in the next five years.

**Mission:**

The mission of this field is to educate human resources who are knowledgeable about current topics related to Health Economics, capable and committed to the optimal use of resources in the realm of health services. These individuals are expected to offer their knowledge and skills in the areas of implementation, education, and research for the benefit of the community.

**Goals:**

* To educate and train dedicated and proficient personnel in Health Economics, thereby equipping the health system with highly capable human resources prepared for assuming key responsibilities within the national health framework.
* To deliver education of superior quality aimed at enhancing the cognitive and executive capabilities of our graduates, preparing them for advanced roles in the field.
* To foster the development of comprehensive knowledge, skills, and both technical and interpersonal competencies in Health Economics, ensuring well-rounded professional growth.
* To expand technical knowledge through research, adapt international experiences to local contexts, and facilitate hands-on learning via internships in the health system.
* To enhance the educational and academic proficiency of our graduates, preparing them for both scholarly pursuits and practical applications in Health Economics.
* To cultivate a strong sense of professional ethics among those managing financial and economic aspects in the health system, promoting integrity and ethical leadership in the field.

**Prerequisite Courses**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course code** | **Course** | **Credits**  | **Hours**  | **Prerequires**  |
| 01 | Microeconomics and Macroeconomics | 3 | 51 | - |
| 02 | Basic Econometrics | 2 | 34 | - |
| 03 | Principles of Health Economics | 2 | 34 | - |
| 04 | Fundamental Research Methods in Health System | 3 | 68 | - |
| 05 | World Health Systems | 2 | 34 | - |
| 06 | Specialized English for Health Economics | 3 | 68 | - |
| 07 | Medical Information Systems | 1 | 26 | - |
| Total | 16 |

**Core Courses**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course code** | **Course** | **Credits** | **Hours** | **Prerequires** |
| 08 | Advanced Micro & Macro Economics | 3 | 51 | 01 |
| 09 | Health Econometrics | 3 | 68 | 02 |
| 10 | Advanced Health Economics | 3 | 51 | 03 |
| 11 | Epidemiology | 2 | 34 | - |
| 12 | Health and Hospital Financial Management | 3 | 68 | - |
| 13 | Economic Evaluation in Health Care | 2 | 34 | 10, 03 |
| 14 | Financing and Strategic Purchasing in Health Economics | 2 | 34 | - |
| 15 | Pharmaceutical Policy and Management | 2 | 34 | 03 |
| 16 | Seminar | 1 | 34 | - |
| 17 | Internships | 2 | 102 | - |
| 18 | Thesis | 4 | - | - |
| Total | 27 |

**Non-core Courses**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Course code | Course | Credits | Hours | Prerequires |
| 19 | Health Policy Analysis | 2 | 34 | 03 |
| 20 | Introduction to Tariff Setting in Health Care Services | 2 | 34 | - |
| 21 | Global Health Economics | 3 | 51 | 05, 03 |
| 22 | Systematic Review and Meta-Analysis Studies | 2 | 34 | 04 |
| 23 | Health Care Delivery System | 3 | 51 | 05 |
| 24 | Biostatistics | 3 | 68 | - |
| Total | 15 |

**Suggested Titles for Required Educational Workshops**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Code | Workshop Name | Hours  | Voluntary/Compulsory | Workshop Presentation Time |
| 1 | Introduction to STATA Software | 8 | Compulsory | Prior to Thesis Defense  |
| 2 | Designing Decision Analysis Models using Excel, Tree Age  | 8 | Compulsory | Prior to Thesis Defense  |
| 3 | Teaching Methods | 8 | Compulsory | Prior to Thesis Defense  |
| 4 | Entrepreneurship in Health Systems | 8 | Compulsory | Prior to Thesis Defense  |