### **Health Economics**

### **PhD in Health Economics**

Health economics is an interdisciplinary science that merges the fields of health and economics. It examines the aggregation, allocation, and consumption of scarce resources allocated to the health sector and performs related economic evaluations. This field studies financial structures and cost functions and generally focuses on the optimal allocation and efficiency of available resources. It also emphasizes the engagement of individuals, families, local communities, and national and international levels at all stages, with complete observance of equality and access to health services as a principal component in maintaining and promoting human health.

**Vision:**

During the next decade, we expect that specialized PhD programs in Health Economics, focusing on up-to-date knowledge and problem-oriented approaches, will become a top priority for international students, aiming to satisfy the needs of the scientific community. The PhD program aims to provide an entrepreneurial and change-leadership platform and establish itself as an academic and expert resource that is trusted by policymakers, healthcare providers, and business leaders to navigate the economic challenges faced by governments and organizations.

**Mission:**

The mission of the Institute is to cultivate committed human resources in the field of Health Economics. We aim to develop professionals who are well-informed about contemporary scientific issues, and who exhibit creativity and entrepreneurship. Additionally, these individuals will be sensitive to both individual health and societal well-being. We expect these professionals to provide expertise in economic planning and management to policymakers, institutions, and organizations associated with the health system.

**Goals**:

* To educate and develop human resources proficient in research and analysis in the field of Health Economics, skilled in economic management and entrepreneurship within the health system.
* To enhance the knowledge of policymakers, managers, and experts involved in policy-making and executive bodies.
* To contribute to the economic health of public and private institutions through the production of scientific evidence.
* To develop entrepreneurial skills and facilitate wealth creation among graduates and employees within the health system.

**Prerequisite Courses**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course code** | **Course** | **Credits** | **Hours** | **Prerequires** |
| 01 | Medical Information Systems | 1 | 26 | - |
| 02 | Microeconomics | 2 | 34 | - |
| 03 | Applied Econometrics | 3 | 68 | - |
| 04 | Healthcare Systems | 2 | 34 | - |
| 05 | Applied Biostatistics | 3 | 77 | - |
| 06 | Macroeconomics | 2 | 34 | - |
| 07 | Applied Mathematics in Economics | 3 | 51 | - |
| 08 | Health Economics | 2 | 34 | - |
| 09 | Systematic Review and Meta-Analysis | 2 | 34 | - |

**Core Courses**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course code** | **Course** | **Credits** | **Hours** | **Prerequires** |
| 10 | Advanced Health Economics | 3 | 51 | 08 |
| 11 | Health Econometrics | 3 | 68 | 03 |
| 12 | Financing and Budgeting in Health System | 2 | 34 | - |
| 13 | Health Technology Assessment | 2 | 34 | 09 |
| 14 | Internship | 2 | 128 | - |
| 15 | Microeconomics in Health | 3 | 51 | 02 |
| 16 | Health Policy and Planning | 2 | 34 |  |
| 17 | Advanced Research Methods in Health System | 3 | 68 | 05 |
| 18 | Analysis of Major Problems in Health System - Seminar | 2 | 51 | - |
| 19 | Dissertation | 18 | - | - |
| Total | | 40 | | |

**Non-Core Courses**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course code** | **Course** | **Credits** | **Hours** | **Prerequires** |
| 20 | Modeling and Simulation in Economic Evaluation of Health Care Services | 2 | 51 | - |
| 21 | Pharmacoeconomic and Hospital Economics | 2 | 34 | 08 |
| Total | | 4 | | |

**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 Method | 8 | Compulsory | Prior to Thesis Defense |
| 4 | Entrepreneurship in Health | 8 | Compulsory | Prior to Thesis Defense |