ACADEMIC STRUCTURE

FIELDS OF CONCENTRATIONS

VIDEO-ASSISTED AND MINIMALLY INVASIVE TECHNIQUES

SCIENTIFIC-TECHNOLOGICAL ACTION LINES

1) Video-Assisted Techniques

2) Minimally invasive techniques

CURRICULAR STRUCTURE

All subjects in the curricular structure of the course have 3 credits and a total workload of 45 hours.

- ***Compulsory Subjects***

Subjects: MANAGEMENT, INNOVATION AND ENTREPRENEURSHIP IN HEALTH
Description: History of entrepreneurship. Indicators of entrepreneurship and economic development. Phase of the entrepreneurial process. Social Entrepreneurship. *Startups.* Venture capital. Administrative instruments for the entrepreneur in the field of Health. Intrapreneurship. Finance. Patient safety. Marketing. Organizational behavior. Leadership. Decision making. *Coaching* , Health policies. Organizational change. Strategic planning.

Subjects: RESEARCH METHODOLOGY
Description: Discusses paradigmatic approaches to science. It addresses research as a way of building knowledge. It implements the research projects, considering the lines of Research that configure the Course. It develops content through search, reflection, analysis and criticism, based on action-reflection-action, in multiple teaching-learning scenarios. It covers activities of reading, debate and production of propositions, individual and in groups, favoring the indissociably between research and teaching. The scientific method in Health Sciences. Research techniques, research topics and appropriateness of approaches, operational and instrumental questions of health research, emphasizing the reflexive and critical aspects. Bases of the Brazil Platform, principles in the elaboration and theoretical-methodological foundations of the scientific research in health. The construction of the research problem. Assumptions and steps of the health research process. Differentiation of baseline references (ABNT x Vancouver). Statistical models and procedures. Planning and execution of experimental research. Conceptual and operational problems in scientific research in health and its publication.

Subjects: INTELLECTUAL PROPERTY
Description: Basic Concepts (What is a Patent? What can be patented? To which patent protection applies); Legal aspects of patent in Brazil and in the world; Process for obtaining a patent; costs related to obtaining and maintaining the patent; Remuneration to the inventor/holder of the patent; Ownership/co-ownership of patents; Time to get a patent; Difference between registering and obtaining the patent. What is intellectual property and what are its applications.

Subjects: SEMINARS ON PREPARATION AND APPROVAL OF THE SCIENTIFIC PRODUCT
Description: One of the main problems for someone starting out in clinical research is knowing where to start. We understand that all research must be motivated by a scientific curiosity, which is the main element that will generate a question. The objective of this subject is the development of a clinical research project from the question to the calculation of costs and assessment of its viability as a scientific article.

Subjects: SEMINARS ON PREPARATION AND REGISTRATION OF RESEARCH PROJECT
Description: Seminars conducted with the presence of the Guidance Counselor, aiming the regularization of the research project in the instances of the Department of linkage, research department and Brazil Platform.

- ***Elective subjects***

Subjects: Biostatistics
Description: Present the fundamental ideas and concepts of Statistics in order to enable students to analyze data and apply Statistical Tests. At the end of the course, participants will be able to present and analyze the distribution and variability of numerical data; know the need to quantify the uncertainty related to the experiments; know the main distributions of probability; make estimates and tests of simple hypotheses.

Subjects: BIOETHICS
Description: Introduction to Bioethics. The principle of autonomy and terminality of life. Bioethics. Biotechnology. Methodologies of Bioethics teaching. The code of ethics in health and practice. Human Rights and Citizenship, of the historical construction of these concepts, providing an overview of the international mechanisms for the protection of rights. Ethics in research with humans and animals. The term of free and informed commitment. Nuremberg Code and Declaration of Helsinki.

Subjects: EPIDEMIOLOGY
Number: 05
Description: Define the concept of Epidemiology, recognize different uses and applications of the epidemiological method, develop a critical attitude towards scientific information, recognize the steps of an epidemiological investigation protocol.

- ***Practical Subjects***

Subjects: SPECIALIZED PRACTICE I
Description: The course aims to transmit to physicians of the various specialties and with little practical experience in video-assisted techniques and minimally invasive updating in the theoretical-practical knowledge in the proposed specialty.

Subjects: SPECIALIZED PRACTICE II
Description: The course aims to transmit to physicians of the various specialties and with little practical experience in video-assisted techniques and minimally invasive updating in the theoretical-practical knowledge in the proposed specialty.

Subjects: SPECIALIZED PRACTICE III
Description: The course aims to transmit to physicians of the various specialties and with little practical experience in video-assisted techniques and minimally invasive updating in the theoretical-practical knowledge in the proposed specialty.

- ***Optional Subjects***

Subject: ACTIVE METHODOLOGIES OF TEACHING IN THE HEALTH FIELD
Description: Society, Education, Culture and Health: Nature of knowledge: complexity and transversally of the curriculum. Educational practice and health: discipline, medical order, subjectivity and power. Planning of educational projects aimed at the training of neuroscience professionals and the promotion of the health of populations. Production and implementation of basic didactic material for the teaching of neurology and related sciences (neuroanatomy, neurophysiology, neurological propaedeutic, pathology of the nervous system, neuroimaging and neurosurgery). Technical-scientific dissemination with multimedia production for teaching and continuing education programs. Communication, languages and images in educational practices in teaching and health. The objective of this subject is to enable the student of the master's degree program in the organization, planning and execution of educational projects in the fields of neurosciences. To this end, it will participate in practical activities in workshops to create didactic resources and undergraduate teaching activities in basic cycle and clinical cycle subjects.

Subject: INFORMATION TECHNOLOGY APPLIED IN HEALTH
Description: Leveling of knowledge in Information Technology for masters of the health field, with the purpose of enabling them in the use of computerized tools of personal productivity in teaching and research. Basics of database technologies and software applied to health information systems.

Subject: OPERATING TECHNIQUE AND EXPERIMENTAL SURGERY
Description: The subject Operating Technique and Experimental Surgery aims at transmitting the principles of surgical technique considered necessary to all medical fields, thus contributing to a general training, and simultaneously, to deepen the teaching about the main surgical techniques performed in the various organs, apparatus and systems, through theoretical and practical classes in the corpse and/or experimental animals and video-surgery simulators.