



NOVA MEDICAL
SCHOOL

MASTER'S



ABOUT US

With more than 45 years of existence, NOVA Medical School is one of the 9 organisational units of the NOVA University Lisbon, dedicated to teaching and research in medical sciences and nutrition.

In order to achieve its mission for a better health future, NOVA Medical School is based on three strategic pillars: Teaching, Research and Community.





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At NOVA Medical School we face the continuous challenge of keeping our curricula up to date, investing in technology, artificial intelligence, new tools and on a new campus. We respond with high-quality training that is always up-to-date and innovative. It is our duty as a Medical School to provide students with the tools to stay in cutting edge from the first to the last day of their careers.

In addition to excellent training, scientific research is one of the fundamental pillars of our institution. NOVA Medical School is not limited to transmit knowledge; It is also a cradle of innovation, discovery and knowledge generation.

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HELENA CANHÃO
Director of NOVA Medical School

BIOMEDICAL RESEARCH (NBR)

PRESENTATION

Master's in Biomedical Research (NBR) allows to develop a solid knowledge, combined with analytical and problem-solving skills in the biomedical area, in an environment fully international learning experience. NBR is a student-centered program where students can discuss their interests and receive personalised advice and feedback.

This master's degree has four areas of specialization - Neurosciences; Ageing and Chronic Diseases; Oncobiology and Regenerative Medicine - which are determined by the scientific area of the research thesis.

OBJECTIVES

The course provides the core competences and knowledge to identify scientifically relevant problems in the areas of biomedicine and health sciences and to translate these problems into experimentally demonstrable hypotheses.

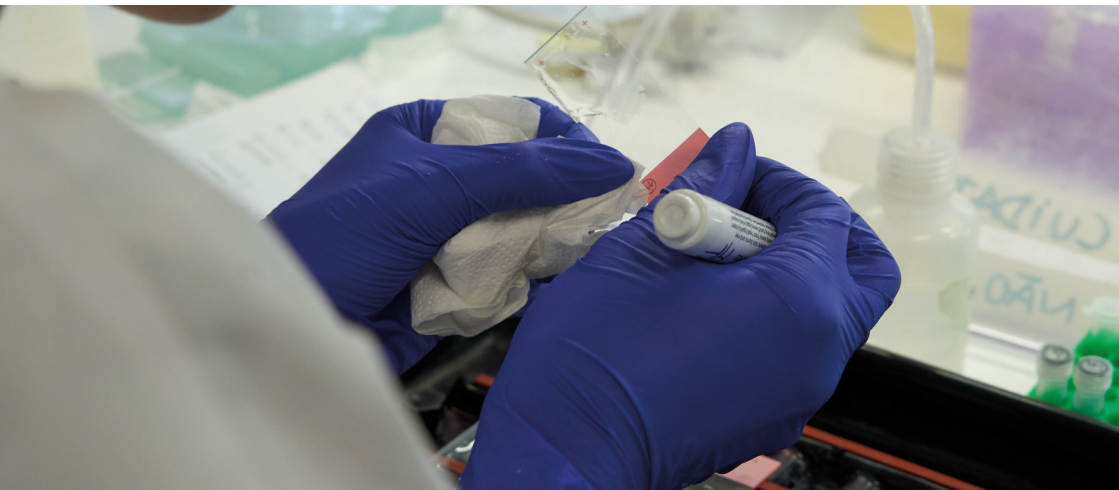
Students should also be able to clearly identify their relevance to the advancement of knowledge and/or technologies.

COMPETENCES TO BE ACQUIRED

- Preparing students for research activity.
- Assessment, presentation, discussion and communication of the results of scientific work.
- The course provides a solid basis for pursuit of a third cycle leading to the award of a doctoral degree.
- Contribute in a relevant way to an improving health care and qualification of human resources.

TARGET STUDENTS

Graduates with various backgrounds, namely Biology, Cell and Molecular Biochemistry, Physics, Chemistry, Nutrition, Biomedical Engineering, Medicine, Psychology or other related to Biomedicine.



1 ST YEAR	ECTS
Core Skills in Research	5
Advanced Research Methods	5
Cellular Regulation	10
Research Seminars	5
Dissertation Project	5
Laboratory Rotation 1	5
Laboratory Rotation 2	5
Laboratory Rotation 3	5
Option 1	5
Option 2	5
Option 3	5

OPTIONAL	ECTS
Carcinogenesis – underlying molecular and cellular changes	5
From function to dysfunction in neuronal circuits and behavior	5
Development and stem cells	5
Ageing and age-related diseases: from molecular mechanisms to therapies	5
Regenerative Medicine Strategies	5
Mechanisms of differentiation, development and neural function	5
Precision and Translation Medicine	5
Clinical and Translational Oncology	5

2 ND YEAR	ECTS
Dissertation	60

COORDINATION

Paulo Carvalho Pereira, NMS
Rita de Oliveira Teodoro, NMS
Cláudia Guimas Almeida, NMS

NUMBER OF VACANCIES

20

LANGUAGE

English

ECTS

120

DURATION

2 Years | 4 Semesters

SCHEDULE

Daytime | classes from Monday to Friday

FEES

National Student
2500 €/year
International student
3500 €/year



HUMAN NUTRITION AND METABOLISM (NHM)

PRESENTATION

This Master's programme will develop competences and applied knowledge in the field of Nutrition and Metabolism, using tools to evaluate the effectiveness of their actions through scientific evidence.

This Master's programme is centred on strategies that promote healthy lifestyles, from a Lifestyle Medicine perspective.

OBJECTIVES

This Master's degree combines nutrition and human food with metabolism and aims to train highly qualified professionals to analyse systematic and integrated main health problems related to inadequate lifestyles, especially dietary food.

COMPETENCES TO BE ACQUIRED

- Diagnosis in the area of Nutrition and Lifestyles;
- Identify causes and consequences associated with inadequate eating habits;
- Recognise the molecular mechanisms involved;
- Anticipate metabolic malformation as a consequence of exposure to factors during life in utero;
- Understand the concept of longevity in its fullness.

TARGET STUDENTS

Nutritionists; Doctors; Pharmacists; Nurses; Biochemists; and other graduates, on the advice of the Coordinator.



1ST YEAR

CURRICULAR UNITS	ECTS
Fundamentals of Molecular Nutrition, Biochemistry and Physiology	5.5
Integration of Metabolism and Nutrition	5.5
Research Methodologies in Nutrition	4
Critical Reading of Scientific Literature in the Nutritional Sciences	5.5
Nutrition in the Life Cycle	5.5
Nutritional Diagnosis and Interpretation of Clinical Analyses	5.5
Nutrition in Physiopathology	8
"Omics" and Personalised Nutrition	5.5
Endocrine disruptors and dietary contaminants	5.5
Nutrition and Metabolism Seminars	4
Dissertation Project	5.5

2ND YEAR

CURRICULAR UNITS	ECTS
Dissertation	60

COORDINATION

Conceição Calhau, NMS
Diana Teixeira, NMS

NUMBER OF VACANCIES

35

LANGUAGE

Classes taught in Portuguese.
Teaching materials in English.

ECTS

120

DURATION

2 years | 4 semesters

SCHEDULE

Daytime | Fridays and Saturdays,
09:00 am | 6:00 pm

FEES

National Student
2500 €/year
International student:
3500 €/year



EPIDEMIOLOGY, BIOSTATISTICS AND HEALTH RESEARCH (EPIBIS)

PRESENTATION*

Our Master's in Epidemiology, Biostatistics and Health Research (EPIBIS) trains experts in identifying questions relevant, choose the best methodological approach and implement projects research, with solid foundations in epidemiology, statistics, qualitative methods, project management and scientific communication.

OBJECTIVES

- To empower participants to ask research questions with population impact;
- Provide participants with knowledge of basic, advanced and applied epidemiology to various specialities and diseases;
- Provide knowledge of basic and advanced statistics for application in health studies;
- Reinforce the love for studying and knowledge, with the ultimate aim of improving patient care;
- To provide knowledge on bioethics and good clinical practice;
- To develop critical capacity in relation to research results published and available;
- Improve the writing and submission of protocols and scientific articles, optimising project management and team management;
- Adapt and optimise the communication of results to various audiences (scientific, media, general population).

COMPETENCES TO BE ACQUIRED

- Obtaining and developing of methodological, scientific and analytical knowledge.
- Ability to collect data and analyse the dynamics and complexity of research, innovation in health services, innovation management and quality.
- Ability to critically evaluate the practical applicability of theories, concepts and research models in Health area.
- Ability to produce and manage research in health services and project management.
- Ability to develop a creative environment within a healthcare context.
- Ability to develop well-argued solutions to research problems in health services.

TARGET STUDENTS

Master's programme aimed at health professionals and people with a background or interest in the areas of health, epidemiological research and biostatistics (doctors, biomedical doctors, nurses, nutritionists, mathematicians/statisticians, managers, and others).

1 ST YEAR	ECTS
Science Communication	4
Epidemiology	5
Advanced Epidemiological	6
Statistics	5
Advanced Statistics	6
Research Ethics	4
Health Project Management	4
Qualitative Methods	4
Research Seminar	8
Seminar in Epidemiology	6
Optional Free 1	4
Optional Free 2	4

2 ND YEAR	ECTS
Project work	60

COORDINATION

Bruno Heleno, NMS
 Pedro Aguiar, ENSP
 Baltazar Nunes, ENSP

NUMBER OF VACANCIES

25

LANGUAGE

Portuguese

ECTS

120

DURATION

2 Years | 4 Semesters

SCHEDULE

After work | Tuesdays to
 Thursdays,
 04:30 pm to 10:30 pm

FEES

National Student:
 3950€/total
 (1st Year: 3000€
 2nd Year: 950€)

International student:
 6000€/total
 (1st year: 4500€
 2nd Year: 1500€)



CLINICAL RESEARCH MANAGEMENT (MEGIC)

PRESENTATION*

Master's Degree in Clinical Research Management (MEGIC) aims to train professionals specialised in the field of clinical research and management of clinical studies. The programme provides students with an in-depth understanding of the main concepts and methodologies used in clinical research, including the design, implementation, monitorization and analysis of clinical trials. In addition, this Master's programme also provides a solid foundation for those who wish to continue their studies towards a doctorate.

OBJECTIVES

To train highly qualified human resources to professionalise clinical research in healthcare units, universities, academic centres, biobanks, pharmaceutical and health technology companies, clinical research organisations and others. Training and professionalisation of the structures and teams that support clinical research make it possible to improve quality and increase the

performance and competitiveness of research teams.

COMPETENCES TO BE ACQUIRED

- Knowledge of the principles, methods and techniques used in clinical research.
- Ability to develop protocols, including the definition of objectives, methods, target population and statistical analysis.
- Competence in collecting, analysing and interpretation of clinical data.
- Ability to carry out clinical trials, following the relevant ethical and legal standards.
- Knowledge of the different phases of clinical trials and of the associated national and international regulations.

TARGET STUDENTS

Graduates in the area of Life and Sciences - Pharmaceutical Sciences, Medicine, Veterinary Medicine, Dental Medicine, Biomedical Sciences, Biology, Nursing, Microbiology, Biochemistry, Biotechnology and other related areas.



1ST YEAR

1 ST SEMESTER	ECTS
Fundamentals of Clinical Research	6
Basic Management Principles	6
Epidemiology and Methods in Clinical Research	6
Ethics in Clinical Research	6
Applied Statistics in Clinical Research	6
2 ND SEMESTER	ECTS
Option	6
Health System Organisation	6
Regulatory Affairs and Safety	6
Quality Management in Health	6
Biobanks and Biological Sample Management	6
OPTIONAL	ECTS
Free Option	6
Clinical Research in Nutrition	6
Data Collection Methodologies	6
Translational Research	6
Safety and Risk Management	6
Medical Device Development	6

2ND YEAR

3 RD AND 4 TH SEMESTER	ECTS
Data and Information Management	6
Scientific Writing and Communication	6
Dissertation/Project/Internship	48

COORDINATION

Lúcia Domingues, NMS
Teresa Herdeiro, UA

NUMBER OF VACANCIES

25

LANGUAGE

Portuguese

ECTS

120

DURATION

2 years | 4 semesters

SCHEDULE TIME

Daytime - Thursday and Friday,
9:00 am – 6:30 pm

FEES

National Student

2750 €/year

International student

5500 €/year



ONE HEALTH: HUMAN AND ANIMAL PUBLIC HEALTH

PRESENTATION*

ONE Health: Human and Animal Public Health aims to reinforce the professional and academic skills of students with diverse backgrounds, whose actions directly or indirectly impact the Public Health.

The master aims to provide training for the implementation of actions capable of facilitating collaboration between different sectors and thus promote public health.

OBJECTIVES

This Master's programme has been designed to provide the main tools for the complexity of characterisation and surveillance of diseases between humans and animals, within their ecosystems. It aims to strengthen the students' capacity for analysis, critical interpretation of information, intervention and decision-making, using, where appropriate, their own experience.

COMPETENCES TO BE ACQUIRED

- In-depth knowledge of public health including epidemiology, disease prevention and health promotion.
- Skills in analysing and interpreting epidemiological data in order to identify health patterns and trends.
- Ability to develop and implement public health policies, considering human and animal health in an integrated manner.
- Knowledge of the main human and animal diseases, as well as their causes, risk factors and impact on public health.
- Knowledge of legislation and regulations related to public covering ethical, legal and political aspects.

TARGET STUDENTS

Graduates in the field of health or related, namely medicine, veterinary, sociology, nursing biology, sanitation engineering and other related areas.

*Developed in partnership between NOVA Medical School and University of Évora.



1ST YEAR

1 ^{SR} SEMESTER	ECTS
Epidemiology I	3
Human Welfare/Animal Welfare	3
Zoonoses and Food Safety I	3
One Health "concept"	3
Surveillance Systems	6
Environmental Sustainability I	3
Analysing Health Data I	3
Human Behaviour and Health	6

2 ND SEMESTER	ECTS
Zoonoses and Food Safety II	3
Introduction to Research Methodology	3
Epidemiology II	6
Analysing Health Data II	3
Environmental Sustainability II	3
Biodiversity Conservation	3
General Principles of Health Management	3
Public Health Ethics	3
General Theory of Human Rights	3

2ND YEAR

3 RD AND 4 TH SEMESTER	ECTS
Dissertation/Project/Internship	60

COORDINATION

João Raposo, NMS
Ana Fonseca, NMS
Manuela Vilhena, UE

NUMBER OF VACANCIES

20

LANGUAGE

Portuguese and English

ECTS

120

DURATION

2 Years | 4 Semesters

HOURS

After Work | Wednesday
to Friday
Friday, 04:00pm – 08:00
pm and Saturdays, 9:00
am – 06:00 pm)

FEES

National student:
2500 €/year

International student:
2500 €/year



BIOCHEMISTRY FOR HEALTH

Development of a critical and analytical perspective of biochemical issues related to human health.

The main aim of the course is to provide a multidisciplinary academic training, providing access to areas of Research and development in various sectors of industry and services related to human health (e.g. Medical Research, Clinical Analysis Laboratories, Cosmetic and Pharmaceutical Industry, Public Health, Regulatory Bodies and commissions).



MEDICAL MICROBIOLOGY

Training specialists from a global and multidisciplinary perspective to apply the most advanced laboratory, microbiological research and quality control and certification.

Access to research and development areas in public health sectors, medical centres and hospitals, clinical and veterinary laboratories and research centres.



PHYSIOTHERAPY IN MUSCULOSKELETAL CONDITIONS

To provide students with the opportunity to deepen their knowledge as well as their clinical and professional competences in the area of musculoskeletal conditions, in order to train them for autonomous, specialized, reflective and user/people-centered practice.

It also aims to promote critical thinking and mastery of methodologies for collecting, analysing and producing in the field of Physiotherapy, both from the promotion and protection of health, as well as in the contexts applicable to the treatment and rehabilitation of musculoskeletal conditions.



NUTRITIONAL PHYTOTECHNOLOGY FOR HUMAN HEALTH

Development of a critical stance on various Nutritional Phytotechnology applied to human health. It also follows strategic and operational planning, which articulates the needs of specialised professionals and constitutes a coherent intervention in resolving structural deficits in the industrial sector linked to the production and processing of plant products with nutritional value and interest for human health.



COMPUTATIONAL BIOLOGY AND BIOINFORMATICS

Training professionals with solid competences in areas at the interface between Computer Science and Life Sciences specifically developing skills in the areas of simulation/modelling of biosystems and analysis of biological data analysis. In addition, students will also have solid training in programming, artificial intelligence methods and data science, which will enable them to apply these methodologies in different areas.





Join NOVA Medical School

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