



# National University of Medical Sciences

## NUMSS

### Academic Calendar 2015-2016

Online On-Demand Health related Degree Programs  
Bachelor Degrees, Master Degrees And  
Doctral Degrees



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# About NUMSS

National University of Medical Sciences (NUMSS), the largest & most affordable osteopathic university in the world, offers 32 online on-demand study at home distance education degree programs (BSc, MSc, MA, MBA, PhD, DO), to students worldwide, nine degrees in osteopathy, three in sports, one in pedorthics, one in business administration, seven in rehabilitation, three in radiology, four in occupational medicine, one in botanical medicine & the rest in physical medicine.

In-Campus classroom attendance is not required however we do offer optional practical campus based classes in Madrid (Spain) and Toronto (Canada) for interested students.

NUMSS is designed to offer an excellent affordable education and to graduate successful health professionals. We are an accredited university with professional faculty and staff who are experts in their fields...

## Academic Programs

National University of Medical Sciences plans to offer many health related degree programs. However currently it offers the following three online on-demand degree programs (there is an optional week long practical training each semester). All lectures are in English. However we are working on producing Spanish translations soon.

### 1. Bachelor Degrees:

- Bachelor of Science in osteopathy - BSc
- Bachelor of Science in Massage Therapy Program – BSc (MT)

### 2. Master Degrees:

- Master of Arts in History of Osteopathy – MA (HO)
- Master of Business Administration Program - MBA
- Master of Science in Aquatic Rehabilitation – MSc (AR)
- Master of Science in Athletic Therapy – MSc (AT)
- Master of Science in Botanical Medicine – MSc (BM)

- Master of Science in Clinical Ergonomics – MSc (CE)
- Master of Science Clinical Neurology – MSc (CN)
- Master of Science in Clinical Occupational Rehabilitation – MSc (COR)
- Master of Science in Cardiac Rehabilitation – MSc (CR)
- Master of Science in Chiropractic Science & Rehabilitation – MSc (CSSR)
- Master of Science in Functional Assessment & Disability Evaluation – MSc (FA)
- Master of Science in Geriatric Osteopathy – MSc (GER)
- Master of Science in Nutritional Medicine – MSc (NM)
- Master of Science in Neurological Rehabilitation – MSc (NR)
- Master of Science in Osteopathy – MSc (O)
- Master of Science in Osteopathic Clinical Sciences – MSc (OCS)
- Master of Science in Occupational Medicine – MSc (OM)
- Master of Science in Orthopaedic Rehabilitation – MSc (OR)
- Master of Science in Orthopaedics – MSc (ORTHO)
- Master of Science in Pediatric Osteopathy – MSc (PED)
- Master of Science in Pulmonary Rehabilitation – MSc (PR)
- Master of Science in Osteopathic Radiology – MSc (RAD)
- Master of Science in Rheumatology – MSc (RHU)
- Master of Science in Sports Medicine – MSc (SM)
- Master of Science in Sports Nutrition – MSc (SN)
- Master of Science in Skeletal Radiology – MSc (SR)

### 3. Doctor of Osteopathy - DO

- Doctor of Osteopathy (DO)
- Doctor of Physical Therapy (DPT)
- Doctor of Philosophy in Advanced Diagnostic Radiology – PhD (ADR)
- Doctor of Philosophy in Osteopathic Clinical Rehabilitation – PhD (OCR)
- Doctor of Philosophy in Physical Medicine & Rehabilitation – PhD (PMR)

## Osteopathy:

National University of Medical Sciences (NUMSS) offers a four years full time online on-demand program in osteopathy leading to a doctor of osteopathy (DO) degree and a 3 years full time online on-demand bachelor of science (BSc) in osteopathy. Students will study at home, without the need to attend classes on campus.



There is a week-long optional practical training classes held in Madrid and Toronto for students who wish to practice their techniques under supervision of an osteopath. What sets the osteopathy program of NUMSS apart is that we place heavy emphasis on the clinical side of osteopathy. We aim to graduate students that are highly competent in osteopathic medicine. We aim to graduate the most successful osteopaths. As such we prepare our students for the real world by teaching them subjects that have practical applications in the real world.

Subjects such as disability evaluation, functional abilities evaluation, decompression therapy, orthotic casting, support hose fitting, orthopaedic bracing, work and auto accident rehabilitation, joint specific exercises, acute pain management & clinical ergonomics amongst others. NUMSS students have options to complete their premedical requisites concurrently while attending the doctor of osteopathy program. They will graduate with dual degrees in osteopathy (B.Sc., DO).

Students also have the option to taking the Master of Business Administration (Health Care) program concurrently while taking the osteopathy program to graduate with three degrees (B.Sc., MBA, DO).

Taking the combined degree programs saves students times and money however they are considerably harder to complete. Osteopathy is one of the most comprehensive types of health care available in the world. Its essence lies in examining and treating the whole person, not just presenting symptoms.

The practice of osteopathy includes using the most current scientific knowledge to promote health and prevention and to diagnose and treat patients with disease. Osteopaths use their hands as tools to diagnose and treat patients.

The philosophy of osteopathy originated from the teachings of Dr. Andrew Taylor Still over 138 years ago and is based on the beliefs that, given the optimum conditions, the human body has the amazing ability to heal, that the structure of the human body is directly related to the function, and that the health of the individual is related to the body, mind, and spirit.

As a NUMSS student, you are strongly taught to gain insight into your patient's health care needs by looking beyond the symptoms of disease in the person in front of you and discovering the cause that impact him or her.

From the first day of school, we emphasize the interpersonal context in which osteopathy will be practiced. We plan our curriculum to emphasize thinking like a doctor from day one. The primary patient care skills are complemented by our integrated approach to biomedical knowledge that introduces both basic and clinical sciences in your first two years.

By learning these subjects in tandem, rather than one followed by the other, the abstraction of science becomes tangible by its application in practice.

The Scope of Practice of Athletic Therapists is very similar to physiotherapists and include the prevention, immediate care, and reconditioning of musculoskeletal injuries. Prevention includes musculoskeletal and postural evaluation, equipment selection, fitting and repair, warm-up, conditioning programs, prophylactic or supportive taping, and adapting to the activity environment and facilities. The provision of on field immediate care of athletic injuries by Athletic Therapists include: injury assessment, basic emergency life support, recognition and management of acute traumatic neurological dysfunction, provision of first aid, preparation for entrance into appropriate health care delivery systems, or, where appropriate, utilization of techniques facilitating a safe return to participation.



Athletic Therapists assess injuries and conditions, uses contemporary rehabilitative techniques, therapeutic modalities, soft tissue mobilization, physical reconditioning, and supportive strapping procedures to promote an environment conducive to optimal healing in preparing the individual for safe reintegration into an active lifestyle.

The Athletic Therapists, in cooperation with all performance enhancement personnel, and members of the health care delivery team, are integral parts of a total service to maximize the performance and welfare of the individuals. Concomitant with the execution of this role, the Athletic Therapists nurture an attitude of positive health.

The Master of Science in Athletic Therapy offered by the National Business Administration:

University of Medical Sciences is two semesters long (1 year full time), online on-demand and can be enrolled in February and September of each year. Tuition is 3000 Euro. Advanced credit is not available and the minimum prerequisite is having a bachelor's degree.

## Business Administration:

MBA stands for Master of Business Administration, and is a post graduate degree in business communication & management. It is also one of the most sought after degrees in the world because of its value to people in business and administration. An MBA degree can benefit those in positions in business and management, especially those in executive and managerial positions.

An MBA Program offers a range of benefits for the successful applicant, including:

### .Business Knowledge:

The MBA program gives students valuable knowledge about business and all its related aspects. You learn about business strategies and concepts. The training teaches you how to use these skills in practical life and in day to day business operations.

### .Leadership Abilities:

An MBA degree involves rigorous training, assignments, reports, and projects, all of which give you the necessary abilities to handle real-life business situations. This helps to set you apart from those who do not have such expertise and can make you a leader in your chosen field.

The MBA program of National University of Medical Sciences is geared specifically to healthcare practitioners who own a clinic, such as osteopaths, chiropractors, physiotherapists, naturopaths, massage therapists, dentists, optometrists, podiatrists & psychologists.



This MBA program is unique and innovative. There is nothing like it anywhere else. While most MBA programs prepare the students for the world of big business & big corporations, this MBA is designed for health practitioners who own a clinic.

This program is also ideal for non-health practitioners who manage health care clinics or wish to obtain a management position inside a privately held clinic.

The program is one year full time (2 semesters) and it is offered online & on-demand, meaning you can complete the program at home without attending classes on campus.

Tuition is €1,500 per semester (total tuition is €3,000), making this one of the most affordable MBA programs available to students anywhere.

An MBA degree from most business schools in USA, Canada, & Europe could cost up to €75,000. This is by no means a small amount and is indeed one of the largest investments that students are likely to make in their lives. National University of Medical Sciences offers an alternative. Students no longer need to spend up to €75,000 to obtain an MBA. At a cost of €3,000 the MBA program of NUMSS is the best investment students can make to guarantee their success financially.

## Undergraduate Admissions for BSc

You require a high school (grade 12) or equivalent diploma to enter the Bachelor of Science in Osteopathy degree program offered by NUMSS.

## Bachelor of Science in Osteopathy (BSc) Program

Thank you for your interest in the online on-demand Bachelor of Science in Osteopathy (BSc) degree program of National University of Medical Sciences (NUMSS). Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All osteopathy classes are online & in



English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the BSc in osteopathy program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice osteopathic techniques under supervision of an osteopath have the choice of attending an optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the program and students can graduate without attending the lab. Attendance is not mandatory.

# Curriculums for the Bachelor of Science Degree in Osteopathy (BSc)

There are 3 different curriculums for the BSc program:

1. Curriculum for category 1 students without previous health education (3 years)
2. Curriculum for category 2 students with previous health education (1 year)
3. Curriculum for category 3 students who have a doctoral degree (6 months)

## Curriculum for category one students (3 years – 3360 hours total - 560 hours per semester)

| 1st Year<br>(1st semester)  | 1st Year<br>(2nd semester)  | 2nd Year<br>(3rd semester)  | 2nd Year<br>(4th semester)  | 3rd Year<br>(5th semester)  | 3rd Year<br>(6th semester)  |
|---|---|---|---|---|---|
| HP101 Human Physiology  | CB102 Clinical Biomechanics   | MM201 Medical Microbiology  | DS202 Diagnosis & Symptomology  | NE301 Neurology   | OP302 Osteopathy Principles, Practice, Ethics & Jurisprudence                           |
| HA101 Human Anatomy   | NA102 Neuro Anatomy   | PA201 Pathology   | OR202 Orthopaedics  | SN301 Sports Nutrition & Weight Loss Management   | OT302 Osteopathy Techniques IV  |
| OM101 Osteopathic Theory, Philosophy & Methods  | CN102 Clinical Nutrition  | IM201 Immunology  | ND202 Neuro-Diagnosis   | OT301 Osteopathy Techniques IV  | OS302 Osteopathy Skills VI  |
| OS101 Osteopathy Skills I   | OT102 Osteopathy Techniques I   | OT201 Osteopathic Techniques II   | OS202 Osteopathy Skills IV  | OS301 Osteopathy Skills V   | SM302 Sports Medicine   |
| CR101 Cardiopulmonary resuscitation (CPR)   | OS102 Osteopathy Skills II  | OS201 Osteopathic Skills III  | OT202 Osteopathy Techniques III   | OM301 Osteopathy Clinic Management  | TH302 Research Project & Thesis   |
| Optional class: PL101 Practical lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL102 Practical lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL201 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL202 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL301 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL302 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) |

Curriculum for category 2 students with previous health education (1 year – 1568 hours total – 784 hours per semester)

| 1st Year(1st semester)                                  | 1st Year(2nd semester)       |
|---|------------------------------|
| Osteopathic Theory, Philosophy & Methods                | Osteopathy Skills            |
| Osteopathy Skills                                       | Osteopathy Techniques        |
| Osteopathy Techniques                                   | Diagnosis & symptomology     |
| Clinical Nutrition                                      | Neuro-diagnosis              |
| Osteopathy Principles, Practice, Ethics & Jurisprudence | Osteopathy Techniques        |
| Orthopaedics  | Osteopathy Clinic Management |
| Neurology   | Research project & Thesis    |

Curriculum for category 3 students who have a doctoral degree (6 months – 784 hours total) 6 months (1 semester)

| 6 Months (1 Semester)   |
|---|
| Osteopathic Theory, Philosophy & Methods  |
| Osteopathy Skills   |
| Clinical Nutrition  |
| Osteopathy Techniques   |
| Osteopathy Clinic Management  |
| Osteopathy Principles, Practice, Ethics & Jurisprudence                           |
| Research project & Thesis   |
| Optional class: Practical lab (techniques review, 1 week FT, in Madrid & Toronto) |

# Bachelor of Science in Massage Therapy Program – BSc (MT)

Thank you for your interest in the 100% online on-demand Bachelor of Science in Massage Therapy degree program of the National University of Medical Sciences (NUMSS). Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All massage therapy lectures are online & in English. The classes are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the BSc (MT) program and students from every corner of the world are eligible to apply and study at the comfort of their homes.

## Undergraduate Admissions

This program is available only to massage therapists.

## Dual Degrees

The Bachelor of Science in Massage Therapy degree program can be taken as a dual degree program with the Doctor of Osteopathy (DO), Master of Business Management in Health Care (MBA), Master of science in Athletic Therapy (MSc (AT)), and the Master of Science in Pedorthics (MSc (P)).

## Curriculums for the Bachelor of Science Degree in Massage Therapy – BSc (MT) (1 year – 1568 hours total – 784 hours per semester)

| 1st Year(1st semester)          | 1st Year(2nd semester)                                |
|---------------------------------|---|
| CB 301 Clinical Biomechanics    | MT302 Advanced Manual Techniques                      |
| ND 301 Neuro-diagnosis          | PM 302 Physiotherapy Modalities                       |
| DS 302 Diagnosis & symptomology | SM 301 Sports Medicine                                |
| CN 301 Clinical Nutrition       | CR 302 Cardiopulmonary Resuscitation (CPR)            |
| PA 301 Pathology                | RX 302 Radiology & Diagnostic Imaging                 |
| OR 301 Orthopaedics             | CM 302 Massage Therapy Clinical & Business Management |
| NE 301 Neurology                | TH 302 Research project & Thesis                      |

# Master of Arts in History of Osteopathy – MA (HO) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand History of Osteopathy degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All History of Osteopathy classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MA (HO) program and students from every corner of the world are eligible to apply and study at the comfort of their homes.

## Why Study History of Osteopathy?

The graduate training students receive in this program introduces them to current scholarship in the history of osteopathy and prepares them to do research in the field. The MA in History of Osteopathy is appropriate for those who wish to use history to enrich careers in osteopathic health care, public health, museum work, library, teaching, or journalism.

## Why Choose to Study History of Osteopathy at NUMSS?

Because National University of Medical Sciences offers the only online on-demand affordable MA program in History of Osteopathy. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MA in History of Osteopathy without spending a large sum on the costs associated with daily travel. NUMSS MA (HO) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites

The prerequisite to enter the Master of Arts (MA) in History of Osteopathy is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MA program cannot be taken as a dual degree program. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Arts in History of Osteopathy (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                    | Semester Two                                      |
|---|---|
| FH501 Fundamentals of Osteopathic History       | HO502 History of Osteopathy – Americas            |
| RB501 Review of Dr Andrew Taylor Still Books    | HE502 History of Osteopathy – Europe              |
| LC501 Life Chronology of Dr Andrew Taylor Still | HC502 History of Osteopathy – Oceania & Caribbean |
| OO501 Origin of Osteopathy                      | HA502 History of Osteopathy – Africa              |
| HY501 History of Osteopathy – the Early Years   | TH502 Thesis & Research Project                   |

# Master of Business Administration Program

Thank you for your interest in the Master of Business Administration in Health Care (MBA) program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions. All MBA classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MBA program and students from every corner of the world are eligible to apply and study at the comfort of their homes.

## Why Choose MBA?

- Do you want more new patients?
- Do you want more subsequent visits?
- Do you want to increase your income?
- Do you want to stand out from your competitors?
- Do you want to manage your practice efficiently?
- Do you want to be the master of your business?
- Do you want to become successful?

If yes, then our MBA degree is for you.  
To be successful you must be good at business. There is no other way.



The Master of Business Administration (MBA) in Health Care offered by National University of Medical Sciences is a highly specialized program designed specifically for health professionals such as osteopaths, chiropractors, physiotherapists, massage therapists, medical doctors & dentists who desire to achieve success.

This MBA in Health Care is designed to prepare ethical and socially responsible health professionals to assume management and leadership positions in the changing health service system. Health practitioners learn a variety of marketing, management, financial and accounting subjects geared specifically toward delivery of health care in businesses operating as osteopathy, chiropractic, physiotherapy, massage therapy, medical or dental offices. This program is ideal for osteopaths, chiropractors, medical doctors, massage therapists, podiatrists, dentists, optometrists, naturopaths, occupational therapists, physiotherapists & managers of clinics & health spas. It enables these health practitioners to manage their private practices efficiently, become more organized, increase the number of new patients they

## Why Choose to Study MBA at NUMSS?

This is a unique MBA program like no other in the world. It is designed specifically for health practitioners. You learn firsthand from experts in business including Dr. Shahin Pourgolpresident of the National University of Medical sciences; unique, revolutionary, innovative, practical, and creative marketing techniques that can be easily implemented in your practice to assure your clinic become a success story.

## Undergraduate Admissions for MBA Program

The prerequisite to enter the MBA program is having a bachelor's degree. The bachelor's degree could be in any field including science, art, business, & engineering. If you do not possess a bachelor's degree you may enrol in the Bachelor of Science in osteopathy degree offered by National University of Medical Sciences. The MBA program can be taken concurrently with the Bachelor of Science in Osteopathy and or the Doctor of Osteopathy degree programs. Health professionals such as chiropractors, physicians, physiotherapists & dentists (category 3 students) may enrol in the dual or three degree programs and complete them all in 2 semesters (1 year).

## Curriculum for the Master of Business Administration in Health Care (1 year FT, 1120 hours total – 560 hours per semester)

| Semester one   | Semester Two   |
|--|--|
| FE101 Accounting, Finance and Economics for Health Practitioners | SM102 Standard Marketing Systems (Inside Marketing, Neighbourhood Marketing, Direct Mail Marketing, & Network Marketing) |
| FM101 Financial Management, Tax Strategies, Asset Protection     | AM102 Advanced Marketing Systems (Target Marketing, Ethnic Marketing, Cross Marketing, & Online Marketing)               |
| PA101 Creating and Measuring Patient Value                       | RS102 Building a Referral System   |
| MS101 Developing Managerial Skills Sets                          | AM102 Advertising, Mass Media, Social Media, & Public Relations  |
| EP101 Empowering Patient Potential                               | TH102 Thesis & Research Project  |

# Master of Science in Aquatic Rehabilitation – MSc (AR) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand aquatic rehabilitation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All aquatic rehabilitation classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (AR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (AR) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why study Aquatic Rehabilitation?

Aquatic Rehabilitation is a method of treatment that focuses on exercises performed in a warm pool environment. Aquatic Rehabilitation uses water's naturally therapeutic properties of buoyancy, resistance, and warmth to enhance the treatment experience. It differs significantly from pool exercise classes, as it offers one-on-one care from a health practitioner such as an osteopath, chiropractor, naturopath, athletic therapist or physical therapist with specialization in aquatic rehabilitation, also in the water, guiding the patient through the therapeutic exercises. Aquatic Rehabilitation is appropriate for patients of almost any age, and is beneficial for a wide variety of conditions and injuries. This type of therapy is especially helpful for people who have difficulty with weight bearing activities, as the water's buoyancy assists in supporting the weight and decreases stress placed on the joints. Aquatic Rehabilitation can either be used independently or in conjunction with traditional, land-based manual or physical therapy. Since not all people respond well to traditional physical rehabilitation or treatment, many people find that aquatic therapy is less stressful and preferable to traditional methods.

## Why Choose to Study Aquatic Rehabilitational NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Aquatic Rehabilitation. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Aquatic Rehabilitation without spending a large sum on the costs associated with daily travel. NUMSS MSc (AR) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (AR)

The prerequisite to enter the Master of Science (MSc) in Aquatic Rehabilitation is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc (AR) program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Aquatic Rehabilitation (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                       | Semester Two                                       |
|--|--|
| AP501 Aquatic Rehabilitation Principles & Skills   | PA502 Physical Assessment                          |
| AT501 Applied Techniques in Aquatic Rehabilitation | AM502 Aquatic Therapy Facility Set Up & Management |
| GA501 Geriatric Aquatic Therapy                    | PT502 Pediatric Aquatic Therapy                    |
| ES501 Exercise Science                             | AR502 Aquatic Rehabilitation II                    |
| AR501 Aquatic Rehabilitation I                     | TH502 Thesis & Research Project                    |

# Master of Science in Athletic Therapy – MSc (AT) Program

Thank you for your interest in the online on-demand Athletic Therapy degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All athletic therapy classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (AT) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (AT) program and students can graduate without attending the lab.



## Why Choose Athletic Therapy?

What many people think of as Sports Medicine is actually Athletic Therapy. The Athletic Therapists works with physicians and other medical personnel, employers, patients, parents, guardians, and athletic personnel in the development and coordination of efficient and responsive health care delivery systems. Athletic Therapists are integral members of the health care team in secondary schools, colleges and universities, professional sports teams, sports medicine clinics, MVA rehabilitation clinics, WSIB clinics, assessment centers, gyms, health clubs, corporate /industrial, and other health care settings. Athletic Therapists may also open their own health clinics or health clubs. There is no unemployment in this health profession as everyone finds employment or opens his/her own clinic. The average annual income depends on jurisdiction but generally ranges from \$41,000 to \$78,000. The demand for Athletic Therapists are increasing at an exponential rate.

## Why Choose to Study Athletic Therapy at NUMSS?

Because National University of Medical Sciences offers the only online on-demand affordable Master of Science in Athletic Therapy program. This program is ideal for the working professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can become Athletic Therapists without spending a large sum on the costs associated with daily travel. NUMSS athletic therapy program tuition is kept low (3000 Euro) to make the program affordable to all students.

## Undergraduate Admissions

The prerequisite to enter the Master of Science in Athletic Therapy program is having a bachelor's degree. If you do not possess a bachelor's degree you may enrol in the Bachelor of Science in osteopathy degree offered by National University of Medical Sciences. The MSc (AT) program can be taken concurrently with the Bachelor of Science in Osteopathy – BSc (O) or the other programs offered by NUMSS.

## Curriculum for the Master of Science in Athletic Therapy (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                     | Semester Two                                      |
|--|---|
| AT101 Athletic Therapy Skills & Principles       | SN102 Sports Nutrition for Health & Wellness      |
| SE101 Physical Assessment of Spine & Extremities | SM102 Physiotherapy Modalities in Sports Medicine |
| TE101 Therapeutic Exercises                      | MT102 Manual Therapy of Sports Injuries           |
| HP101 Physical Activity and Health Promotion     | PR102 Physical Rehabilitation of Sport Injuries   |
| FA101 Fitness Assessment & Training              | TP102 Taping techniques and Prophylactic Support  |
| SI101 Sports Injuries of the Spine & Extremities | TH102 Thesis & Research Project                   |

# Master of Science in Botanical Medicine – MSc (BM) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand botanical medicine degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All botanical medicine classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (BM) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (BM) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Botanical Medicine at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Botanical Medicine. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Botanical Medicine without spending a large sum on the costs associated with daily travel. NUMSS MSc (BM) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Botanical Medicine?

Health care professionals such as osteopaths, chiropractors, physical therapists, physicians, athletic therapists, massage therapists & naturopaths regularly use botanical medicine to help their patients. World Health Organization estimates that over 67% of the world population use botanical medicine as the primary choice of treatment. Botanical medicine refers to using a plant's seeds, berries, roots, leaves, bark, or flowers for medicinal purposes. Botanical Medicine is one of the oldest medical systems in the world dating back to the beginning of history and now it is becoming more mainstream as improvements in analysis and quality control along with advances in clinical research show the value of botanical medicine in the treating and preventing disease. Currently in North America even physicians prescribe on average 8 botanical products per day. Currently 30 % of all medications still contain active constituents derived from plants.

## Admission Prerequisites for MSc (BM)

The prerequisite to enter the Master of Science (MSc) in Botanical Medicine is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Botanical Medicine (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one  | Semester Two   |
|---|--|
| BM501 Fundamentals of Botanical Medicine                  | BP502 Practical Botanical Pharmacy                         |
| MB501 Botanical Management of Musculoskeletal Disorders I | BC502 Botanical Medicine Clinical Skills I                 |
| PP501 Botany & Plant Identification                       | AP502 Applied Phytotherapeutics                            |
| BC501 Botanical Medicine Clinical Skills I                | MB502 Botanical Management of Musculoskeletal Disorders II |
| MM501 Botanical Medicine Materia Medica                   | TH502 Thesis & Research project                            |

# Master of Science in Clinical Ergonomics – MSc (CE) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand rheumatology degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All rheumatology classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (RHU) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (RHU) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Clinical Ergonomics at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Clinical Ergonomics. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Clinical Ergonomics without spending a large sum on the costs associated with daily travel. NUMSS MSc (CE) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Clinical Ergonomics?

Clinical ergonomists apply scientific principles that affect the use of human energy, with a goal of minimizing hazards and maximizing the efficiency of work systems. The field of Clinical Ergonomics combines the perspectives of health science and engineering, providing students with interdisciplinary knowledge and practical skills. The main goals of the program are for health practitioners to have a thorough understanding of the physical environment at the workplace that contributes to musculoskeletal injuries and illnesses, as well as knowledge of the engineering and administrative methods of controlling these risk factors. The highly interdisciplinary nature of this MSc Program prepares health practitioners such as osteopaths, chiropractors, naturopaths, physicians, physiatrists, occupational therapists & physiotherapists for the variety of interactions they will encounter in their daily practice.

## Admission Prerequisites for MSc (CE)

The prerequisite to enter the Master of Science (MSc) in Clinical Ergonomics is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc (CE) program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Clinical Ergonomics (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                              | Semester Two                                    |
|---|---|
| FC501 Fundamentals of Clinical Ergonomics | EA502 Ergonomic Assessment                      |
| WE501 Workstation Ergonomics              | TA502 Task Analysis & Occupational Biomechanics |
| CE501 Clinical Ergonomics I               | CE502 Clinical Ergonomics II                    |
| OH501 Occupational Health                 | WD502 Work Related Disorders                    |
| PA501 Physical Assessment                 | TH502 Thesis & Research Project                 |

# Master of Science Clinical Neurology – MSc (CN) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand clinical neurology degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All Clinical Neurology classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (CN) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (CN) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Clinical Neurology?

This master's degree program will enable students to apply the fundamentals of neuroanatomy and physiology to better understand the clinical features of patients with neurological disease. An integrated approach links recent research advances to cutting edge management in the clinic. With an ageing population, neurological diseases represent an increasing economic burden to society and a cause of much suffering to patients.

The MSC in Clinical Neurology program offered by NUMSS provides specialised training in the clinical and scientific basis of a wide range of neurological disorders. The programme will equip students with a deep understanding of disorders of the nervous system and provides an excellent basis for a clinical or research career in the field as neurologists.

Health practitioners such as osteopaths, chiropractors & physical therapists who specialize in clinical neurology to become neurologists focus on improving and/or restoring the areas of the nervous system which have become dysfunctional through trauma, diet, stress, posture, etc. These neurologists diagnose and treat a variety of neurological disorders including vertigo, lags in child development, ADD, ADHD, dyslexia, peripheral neuropathies, Dystonia, Parkinson's and autism. They also provide rehabilitation for stroke patients as well as treatment for back and neck pain, severe headaches and TMJ.

## Why Choose to Study Clinical Neurology at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Clinical Neurology. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Clinical Neurology without spending a large sum on the costs associated with daily travel. NUMSS MSc (CN) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (CN)

The prerequisite to enter the Master of Science (MSc) in Clinical Neurology is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Clinical Neurology (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one  | Semester Two   |
|---|--|
| CN501 Clinical Neurology Principles & skills          | NP501 Neurological Pathology II                        |
| NM501 Clinical Management of Neurological Disorders I | NA502 Neurological Assessment II                       |
| ND501 Neurological Diagnosis I                        | ND502 Neurological Diagnosis II                        |
| NP501 Neurological Pathology I                        | NM502 Clinical Management of Neurological Disorders II |
| NA501 Neurological Assessment I                       | TH502 Thesis & Research Project                        |

# Master of Science in Clinical Occupational Rehabilitation – MSc (COR) Pro-

Thank you for your interest in the one year full time (2 semesters) online on-demand clinical occupational rehabilitation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All clinical occupational rehabilitation classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (COR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (COR) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Clinical Occupational Rehabilitation

Clinical occupational rehabilitation helps people who have been injured or have suffered an illness to get back, both physically and mentally, in working shape. These rehab programs are designed to increase the patient's maximum independent functions.

Health practitioners such as osteopaths, physiotherapists, & chiropractors who specialize in clinical occupational rehabilitation develop plans of action for the injured worker by assessing his or her needs, and evaluating what the areas in which he or she requires help. Other specialists can also be enlisted to aid in such a program, including nutritionists, physicians and psychologists. Sometimes a rehabilitation team must consider whether the worker will return to his or her job or, if that is not a possibility, the team may help a patient regain function in order to seek a new job.

There are many types of people who may seek clinical occupational rehabilitation. Some may need help with work related injuries, such as broken bones, back problems and other strains. Others may suffer from cognitive limitations as a result of a brain injury or heart attack, or from neurodegenerative disorders, like multiple sclerosis. People who may also require occupational therapy include those with mental health issues, learning and development disabilities or post-traumatic stress disorders. All of these problems require their own specific recovery plans.

## Why Choose to Study Clinical Occupational Rehabilitation at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Clinical Occupational Rehabilitation. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Clinical Occupational Rehabilitation without spending a large sum on the costs associated with daily travel. NUMSS MSc (COR) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (COR)

The prerequisite to enter the Master of Science (MSc) in Clinical Occupational Rehabilitation is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Clinical Occupational Rehabilitation (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one   | Semester Two                                  |
|--|---|
| FO501 Fundamentals of Clinical Occupational Rehabilitation | CO502 Clinical Occupational Rehabilitation II |
| ES501 Exercise Science                                     | OH502 Occupational Health                     |
| WR501 Work Reconditioning                                  | WD502 Work Related Disorders                  |
| WH501 Work Hardening                                       | FA502 Functional Abilities Evaluation         |
| CO501 Clinical Occupational Rehabilitation I               | TH502 Thesis & Research project               |

# Master of Science in Cardiac Rehabilitation – MSc (CR) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand cardiac rehabilitation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All cardiac rehabilitation classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (CR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (CR) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Cardiac Rehabilitation?

A cardiac rehabilitation program is a rehab program designed to help heart patients recover quickly and improve their overall physical health. Patients generally are referred to a cardiac rehabilitation program after heart surgery, a heart attack, or a diagnosis of heart disease.

The main goals of cardiac rehabilitation are to allow patients to resume a normal, active, and productive life within the limits of their disease, and to reduce the risk of another heart problem or the worsening of a heart condition.

Specifically, cardiac rehabilitation programs aim to reduce the risk of heart attacks, to alleviate angina (chest pain), and to prevent the progression of heart disease. These goals are achieved by supervised exercise training, nutritional counseling, stress management, aggressive management of risk factors and careful monitoring of heart health.

## Why Choose to Study Cardiac Rehabilitation at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Cardiac Rehabilitation. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Cardiac Rehabilitation without spending a large sum on the costs associated with daily travel. NUMSS MSc (CR) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (CR)

The prerequisite to enter the Master of Science (MSc) in Cardiac Rehabilitation is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc (CR) program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Cardiac Rehabilitation (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                 | Semester Two                             |
|--|--|
| FC501 Fundamentals of Cardiac Rehabilitation | CA502 Cardiovascular Assessment          |
| CH501 Cardiovascular Health                  | CR502 Cardiac Rehabilitation II          |
| CR501 Cardiac Rehabilitation I               | CD502 Cardiovascular Disease & Diagnosis |
| ES501 Exercise Science                       | PH502 Pharmacology                       |
| CN501 Clinical Nutrition                     | TH502 Thesis & Research Project          |

# Master of Science in Chiropractic Sports Science & Rehabilitation – MSc (CSSR) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand chiropractic sports science & Rehabilitation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All chiropractic sports sciences classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (CSSR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes.

## Why Study Chiropractic Sports Science & Rehabilitation?

Chiropractic sports specialists have specialized training in a field of health that deals with sport or exercise-related injuries. Their primary focus is on the diagnosis, treatment and prevention of injuries that occur during sports and other physical activity.

## Why Choose to Study Chiropractic Sports Science & Rehabilitation at NUMSS?

Because NUMSS offers the first and only Master of Science program in Chiropractic Sports Science & Rehabilitation. This program is ideal for the working chiropractor as they will have the flexibility to study at the time they wish without the need to travel anywhere. Chiropractors from anywhere in the world can earn an MSc in Chiropractic Sports Science & Rehabilitation without spending a large sum on the costs associated with daily travel. NUMSS MSc (CSSR) program tuition is kept low (3000 Euro for the full one year program) to make the program affordable to all chiropractors.

## Admission Prerequisites

This program is open only to chiropractors. The prerequisite to enter the Master of Science (MSc) in Chiropractic Sports Science & rehabilitation is having a degree in chiropractic such as a bachelor of science in chiropractic, or a Doctor of Chiropractic (DC). This MSc program can be taken as a dual degree program with the other degrees offered by NUMSS, including the Bachelor of Science in Osteopathy, Doctor of Osteopathy, Master of Science in Pedorthics and MBA in Health Care.

## Curriculum for the Master of Science in Chiropractic Sports Science & Rehabilitation (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                       | Semester Two   |
|------------------------------------|--|
| DI501 Diagnostic Imaging           | TE502 Therapeutic Exercises                          |
| DS501 Diagnosis of Sports Injuries | CR502 Chiropractic Rehabilitation of Sports Injuries |
| FA501 Fitness Assessment           | TP502 Taping techniques & prophylactic support       |
| SN501 Sports Nutrition             | CM502 Chiropractic Management of Sports Injuries     |
| SI501 Sports Injuries Assessment   | TH502 Thesis & Research Project                      |

# Master of Science in Functional Assessment & Disability Evaluation – MSc (FA)

Thank you for your interest in the one year full time (2 semesters) online on-demand functional assessment & disability evaluation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All functional assessment & disability evaluation classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (FA) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (FA) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Functional Assessment & Disability Evaluation?

Functional assessment measures a person's level of function and ability to perform functional or work related tasks on a safe and dependable basis over a defined period of time. Data is collected during the assessment and analyzed in order to establish the worker's current level of function in regards to their ability to perform a variety of job tasks. The assessment includes: an examination of pertinent clinical pathology, identification of client behaviors that impact physical performance, objective musculoskeletal, neuromuscular and biomechanical testing, functional testing, and an assessment of effort. Through the analysis and interpretation of the data, a workday projection can usually be made.

## Why Choose to Study Functional Assessment & Disability Evaluation at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Functional Assessment & Disability Evaluation. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Functional Assessment & Disability Evaluation without spending a large sum on the costs associated with daily travel. NUMSS MSc (FA) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (FA)

The prerequisite to enter the Master of Science (MSc) in Functional Assessment & Disability Evaluation is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Functional Assessment & Disability Evaluation (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one  | Semester Two                      |
|---|-----------------------------------|
| FE501 Fundamentals of Functional Assessment & Disability Evaluation | OA502 Orthopaedic Assessment      |
| FA501 Functional Assessment   | NA502 Neurological Assessment     |
| OA501 Occupational Assessment                                       | DE502 Disability Evaluation       |
| AA501 Assessment of Activities of Daily Living                      | IR502 Permanent Impairment Rating |
| Physical Assessment   | TH502 Thesis & Research Project   |

# Master of Science in Geriatric Osteopathy – MSc (GER) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand geriatric osteopathy degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All geriatric osteopathy classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (GER) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (GER) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Geriatric Osteopathy?

Geriatric Osteopathy is a unique approach to primary healthcare focused on the needs of older adults. Geriatric Osteopathy is concerned with the clinical, preventative, & remedial aspects of physical illness in old age. The challenges of frailty, complex co-morbidity, different patterns of disease presentation, slower response to treatment and requirements for support call for special osteopathic skills.

Presentations of physical illness in old age are often non-specific: Osteopathic geriatricians focus on such areas as Orthopaedic Geriatrics, Falls, physical pain, arthritis & immobility.

At its core, Geriatric Osteopathy requires comprehensive assessment of ill and disabled old people. This involves close interdisciplinary working with nurses, therapists, pharmacists, dieticians, social workers and many other health professionals. Osteopathy geriatricians work closely with family physicians, Psychiatrists and many other clinical specialists to ensure that the elderly receive the highest possible levels of care. Osteopathic geriatricians work to maintain and promote the independence and well being of the elderly individual.

## Why Choose to Study Geriatric Osteopathy at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Geriatric Osteopathy. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Geriatric Osteopathy without spending a large sum on the costs associated with daily travel. NUMSS MSc (GER) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (GER)

The prerequisite to enter the Master of Science (MSc) in Geriatric Osteopathy is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Geriatric Osteopathy (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                               | Semester Two                          |
|--|---------------------------------------|
| FG501 Fundamentals of Geriatric Osteopathy | OM502 Osteopathic Clinical Management |
| GR501 Geriatric Rehabilitation             | GN502 Geriatric Nutrition             |
| GN501 Geriatric Neurology                  | AO502 Advanced Osteopathic Skills     |
| GO501 Geriatric Orthopaedics               | EC502 Osteopathic Emergency Care      |
| GD501 Geriatric Diagnostic Radiology       | TH502 Thesis & Research Project       |

# Master of Science in Nutritional Medicine – MSc (NM) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand nutritional medicine degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All Nutritional Medicine classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (NM) program and students from every corner of the world are eligible to apply and study at the comfort of their homes.

## Why Study Nutritional Medicine?

This program is the first university-level, evidence-based Masters degree course in this subject outside United Kingdom and is appropriate for health practitioners interested in the role of nutrition in disease prophylaxis and management.

Nutritional medicine is a new field in medicine that includes clinical nutrition but is wider in scope, covering aspects of nutrition via the role it plays in illness, wellbeing, lifecycle and ageing. The program is delivered by leading experts at the cutting edge of nutritional research and practice, providing evidence-based teaching with an applied approach. No equivalent program exists elsewhere outside the UK at present.

Students will gain a deep understanding of the complex relationships between nutrition and diseases. They will learn to take a critical and scholarly approach to theory, practice, literature and research findings, resulting in a greater understanding of the range and potential of the nutritional management of disease.

This program prepares graduates to practice in a wide range of clinical, consulting and industry settings. The program emphasizes an integrative approach to healthcare.

## Why Choose to Study Nutritional Medicine at NUMSS?

Because National University of Medical Sciences offers the only online on-demand affordable MSc program in Nutritional Medicine. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Nutritional Medicine without spending a large sum on the costs associated with daily travel. NUMSS MSc (NM) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (NM)

The prerequisite to enter the Master of Science (MSc) in Nutritional Medicine is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Nutritional Medicine (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                      | Semester Two  |
|---|---|
| NM501 Fundamentals of Nutritional Medicine        | SN502 Supplementation & Whole Food Nutrition              |
| PN501 Preventive Nutrition                        | NM502 Nutritional Clinical Management                     |
| ND501 Nutritional Diagnosis & Symptomology        | WM502 Weight Management                                   |
| NP501 Nutritional Pathology                       | MM502 Nutritional management of musculoskeletal Disorders |
| DT501 Detoxification & Biotransformation Pathways | TH502 Thesis & research project                           |

# Master of Science in Neurological Rehabilitation – MSc (NR) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand neurological rehabilitation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All neurological rehabilitation classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (NR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (NR) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Neurological Rehabilitation?

Neurological rehabilitation is a rehab program designed for people with diseases, trauma, or disorders of the nervous system. Neurological rehabilitation can often improve function, reduce symptoms, and improve the well-being of the patient. Injuries, infections, degenerative diseases, structural defects, tumors, and disorders in the circulatory system can impair the nervous system. Some of the conditions that may benefit from neurological rehabilitation may include, but are not limited to, the following:

Vascular disorders, such as ischemic strokes (caused by blood clots), hemorrhagic strokes (caused by bleeding in the brain), subdural hematoma, and transient ischemic attacks (TIAs), Infections, such as meningitis, encephalitis, polio, and brain abscesses, Trauma, such as brain and spinal cord injury, Structural or neuromuscular disorders, such as Bell's palsy, cervical spondylosis, carpal tunnel syndrome, brain or spinal cord tumors, peripheral neuropathy, muscular dystrophy, myasthenia gravis, and Guillain-Barré syndrome, Functional disorders, such as headache, seizure disorder, dizziness, and neuralgia, & Degenerative disorders, such as Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis (ALS), Alzheimer's disease, and Huntington's chorea.

## Why Choose to Study Neurological Rehabilitation at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Neurological Rehabilitation. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Neurological Rehabilitation without spending a large sum on the costs associated with daily travel. NUMSS MSc (NR) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (NR)

The prerequisite to enter the Master of Science (MSc) in Neurological Rehabilitation is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc (NR) program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Neurological Rehabilitation (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                       | Semester Two   |
|--|--|
| FN501 Fundamentals of Neurological Rehabilitation  | CD502 Cerebrovascular Disease and Disorders of Consciousness |
| RN501 Rehabilitation of Neurological Disorders I   | PN502 Neuroinflammation (CNS) and diseases of the PNS        |
| NN501 Applied Neuroanatomy & Clinical Neuroscience | RN502 Rehabilitation of Neurological Disorders II            |
| ES501 Exercise Science                             | NC502 Neuromuscular Conditioning                             |
| NE501 Neurodiagnosis                               | TH502 Thesis & Research Project                              |

# Master of Science in Osteopathy – MSc (O) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand osteopathy degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All osteopathy classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (O) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (O) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Osteopathy at NUMSS?

Because National University of Medical Sciences offers the only online on-demand & affordable MSc program in Osteopathy. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Osteopathy without spending a large sum on the costs associated with daily travel. NUMSS MSc (O) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Osteopathy?

The master of science in osteopathy program offers students a deep understanding of osteopathic principles, skills and techniques. Osteopathy is one of the most complete health care systems in the world. It is a distinctive form of medical practice. The practice of osteopathy utilizes all available modern manual medicine techniques to assess injury and diseases of muscles, bones, joints and nerves. It also offers the added benefit of hands-on diagnosis and treatment through a system of therapy known as osteopathic manipulative medicine (OMM). Osteopaths understand how all the body's systems are interconnected and how each one affects the others. They focus special attention on the musculoskeletal system, which reflects and influences the condition of all other body systems.

## Admission Prerequisites for MSc (O)

The prerequisite to enter the Master of Science (MSc) in Osteopathy is having a bachelor of science in osteopathy. This MSc program cannot be taken as a dual degree program with the BSc in Osteopathy, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Osteopathy (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                        | Semester Two                            |
|-------------------------------------|---|
| OD501 Osteopathic Diagnosis         | SO501 Sports Osteopathy                 |
| OS501 Osteopathic Science           | RD502 Radiological Analysis & Diagnosis |
| AO501 Advanced Osteopathic Skills I | OM502 Osteopathic Clinical Management   |
| OA501 Osteopathic Assessment        | AO502 Advanced Osteopathic Skills II    |
| OR501 Osteopathic Rehabilitation    | TH502 Thesis & Research Project         |

# Master of Science in Osteopathic Clinical Sciences – MSc (OCS) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand osteopathic clinical sciences degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All Osteopathic Clinical Sciences classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (OCS) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (OCS) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Osteopathic Clinical Sciences at NUMSS?

Because National University of Medical Sciences offers the only online on-demand affordable MSc program in Osteopathic Clinical Sciences. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Osteopathic Clinical Sciences without spending a large sum on the costs associated with daily travel. NUMSS MSc (OCS) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Osteopathic Clinical Sciences?

The goal of the MSc in Osteopathic Clinical Sciences program is to produce osteopathic scientists who have acquired advanced clinical knowledge from careful observation and deduction; learned to test these deductions by experimentation and questioning; and applied these skills and knowledge to the practice and teaching of osteopathy.

This program emphasizes academics, teaching, research, publication, and advanced clinical training and experience in the field of osteopathy. The program develops osteopathic clinical consultants, researchers, and scholars capable of participating in a multidisciplinary environment.

## Admission Prerequisites for MSc (OCS)

The prerequisite to enter the Master of Science (MSc) in Osteopathic Clinical Sciences is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Osteopathic Clinical Sciences (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one  | Semester Two  |
|---|---|
| OC501 Searching, critically appraising and using the Health Care literature | PF502 Regional Plain Film Analysis and Advanced Imaging                   |
| RM501 Research methodology and Biostatistics                                | IB502 Injury Biomechanics-Mechanisms of injury, repair and rehabilitation |
| TM501 Teaching methodology and learning theory                              | AP502 Advanced pathology of neuromusculoskeletal system                   |
| OM501 Advanced issues in pain and osteopathic management                    | OS502 Advanced Osteopathic Skills   |
| OJ501 Advanced osteopathic Jurisprudence                                    | TH502 Thesis & Research Project   |

# Master of Science in Occupational Medicine – MSc (OM) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand occupational medicine degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All occupational medicine classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (OM) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (OM) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Occupational Medicine at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Occupational Medicine. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Occupational Medicine without spending a large sum on the costs associated with daily travel. NUMSS MSc (OM) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Occupational Medicine?

Occupational Medicine focuses on the prevention, evaluation, treatment and resolution of health conditions caused by the workplace environment. Specialists in occupational medicine are thoroughly trained to assess the origin of worker injury and illness, taking past history, work conditions and other factors into consideration so that injuries and illnesses are properly classified and treated appropriately to ensure workers' safe return to work.

Specialists in occupational medicine are experts in managing and monitoring the health of employees and improving their well-being through health promotion and education, workplace hazard analysis and ensuring workplace compliance with laws and safety standards.

Occupational Medicine specialists receive formal training in public health, preventive medicine, population medicine, epidemiology, toxicology and research, with emphasis on employee health and conditions caused by workplace exposures.

## Admission Prerequisites for MSc (OM)

The prerequisite to enter the Master of Science (MSc) in Occupational Medicine is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Occupational Medicine (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                              | Semester Two                                       |
|---|--|
| OM501 Principles of Occupational Medicine | RA502 Health Risk Assessment                       |
| EH501 Environmental Health                | WF502 Work Fitness & Disability Integration        |
| TX501 Toxicology                          | HR502 Hazard Recognition, Evaluation & Control     |
| CE501 Clinical Ergonomics                 | WI502 Clinical Management of Work Related Injuries |
| EA501 Exposure Assessment & Control       | TH502 Thesis & Research Project                    |

# Master of Science in Orthopaedic Rehabilitation – MSc (OR) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand orthopaedic rehabilitation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All orthopedic rehabilitation classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (OR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (OR) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Orthopaedic Rehabilitation?

Orthopedic rehabilitation is a form of manual therapy that treats a large variety of conditions that affect the musculoskeletal system. Treatment is administered through one-on-one care between a health practitioner such as an osteopath, chiropractor, physiotherapist, naturopath, & athletic therapist who specialized in orthopaedics to become an orthopaedist, and patient, to better fit the patient's specific needs. These orthopedists are trained to treat the entire body, and the length & type of therapy needed depends greatly on the severity of the patient's injuries.

Injuries such as neck and back pain, or shoulder tendinitis, can be treated with orthopedic rehabilitation, along with carpal tunnel syndrome, knee and ankle sprains and hip pains. Orthopedic rehabilitation is often needed post surgery to aid in the healing process for patients who have had a spinal fusion, total hip or knee replacement, and ankle reconstructions. Other conditions that may require surgery in conjunction with orthopedic rehabilitation are complete shoulder replacements, laminectomies, rotator cuff repairs, and meniscectomies.

An orthopedist will evaluate the patient during the first initial office visit to determine the patient's range of motion, his posture, and how much he or she can function when moving. The orthopaedist will discuss the levels of pain the patient may be experiencing, along with how much strength is present around the injured area. After the evaluation, the orthopedist will develop a personal treatment plan based on the patient's specific needs, and the patient will then go through orthopedic rehabilitation.

## Why Choose to Study Orthopaedic Rehabilitation at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Orthopaedic Rehabilitation. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Orthopaedic Rehabilitation without spending a large sum on the costs associated with daily travel. NUMSS MSc (OR) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (OR)

The prerequisite to enter the Master of Science (MSc) in Orthopaedic Rehabilitation is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc (OR) program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

# Master of Science in Orthopaedics – MSc (ORTHO) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand orthopaedics degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All Orthopedics classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (ORTHO) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (ORTHO) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Orthopaedics?

Orthopedics (aka orthopedics) Is a branch of medicine that includes the continued acquisition of knowledge relative to both normal functions and diseases of the human body as they relate to the bones, joints, capsules, discs, muscles, ligaments, tendons, their complete neurological components, referred organ systems and contiguous tissues; and the development and perfection of skills relative to health maintenance when such exists and when not, the investigation, historical review, physical detection, correlative diagnosis development and complete management of any disorder within the bounds defined herein; and the delivery of the combined knowledge and skill on a primary basis to patients who both need and desire this service to the eventual outcome of remission, whenever resolution is not readily achievable.

Health practitioners such as osteopaths, chiropractors & physiotherapists who specialize in Orthopedics to become orthopedists (aka orthopaedists) treats musculoskeletal injuries in a non-surgical, drug free manner and provides non-surgical, drugless treatment options, such as: manual manipulative procedures, massage, ultrasound, electric muscle stimulation, interferential, infrared, therapeutic exercise programs, rehabilitation and more. These are used for the relief of joint, nerve and muscle pain in necks, backs, shoulders, knees, elbows, wrists or other joints.

## Why Choose to Study Orthopedics at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Orthopedics. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Orthopaedics without spending a large sum on the costs associated with daily travel. NUMSS MSc (ORTHO) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (ORTHO)

The prerequisite to enter the Master of Science (MSc) in Orthopaedics is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc (ORTHO) program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Orthopaedics (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one   | Semester Two  |
|--|---|
| OM501 Orthopaedic Medicine Principles & skills       | OP502 Orthopaedic Pathology II                        |
| OP 501 Orthopedic Pathology I                        | OA502 Orthopaedic Assessment II                       |
| CO501 Clinical Management of Orthopaedic Disorders I | OD502 Orthopaedic Diagnosis II                        |
| OD501 Orthopaedic Diagnosis I                        | CO502 Clinical Management of Orthopaedic Disorders II |
| OA501 Orthopaedic Assessment I                       | TH502 Thesis & Research Project                       |

# Master of Science in Pediatric Osteopathy – MSc (PED) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand pediatric osteopathy degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All paediatric osteopathy classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (PED) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (PED) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Paediatric Osteopathy at NUMSS?

Because National University of Medical Sciences offers the only online on-demand & affordable MSc program in Paediatric Osteopathy. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Pediatric Osteopathy without spending a large sum on the costs associated with daily travel. NUMSS MSc (PED) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Paediatric Osteopathy?

Pediatrics (aka Paediatrics) Osteopathy is a specialized branch of osteopathic health care dealing with the health care of infants, children, and adolescents from birth up to the age of 18. An osteopathic paediatrician (aka pediatrician) is a child's health practitioner who provides not only osteopathic care for children who are acutely or chronically ill but also preventive health services for healthy children. Osteopathic pediatricians manage physical well-being of the children under their care at every stage of development, in both sickness and health.

## Admission Prerequisites for MSc (PED)

The prerequisite to enter the Master of Science (MSc) in Pediatric Osteopathy is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Pediatric Osteopathy (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                               | Semester Two                          |
|--|---------------------------------------|
| FP501 Fundamentals of Pediatric Osteopathy | PR502 Pediatric Rheumatology          |
| AO501 Advanced Osteopathic Skills          | PN502 Pediatric Nutrition             |
| DA501 Developmental Anatomy                | PD502 Pediatric Diagnostic Radiology  |
| PO501 Pediatric Orthopaedics               | OM502 Osteopathic Clinical Management |
| PN501 Pediatric Neurology                  | TH502 Thesis & Research Project       |

# Master of Science in Pulmonary Rehabilitation – MSc (PR) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand pulmonary rehabilitation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All pulmonary rehabilitation classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (PR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (PR) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Pulmonary Rehabilitation at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Pulmonary Rehabilitation. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Pulmonary Rehabilitation without spending a large sum on the costs associated with daily travel. NUMSS MSc (PR) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Pulmonary Rehabilitation?

Pulmonary Rehabilitation is a form of rehabilitation provided to patients with chronic respiratory diseases who are symptomatic and often have decreased daily life activities. Integrated into the individualized treatment of the patient, pulmonary rehabilitation is designed to reduce symptoms, optimize functional status, increase participation, and reduce health care costs through stabilizing or reversing systemic manifestations of the disease. Pulmonary rehabilitation programs involve patient assessment, exercise training, education, nutritional intervention, and psychosocial support. In a broader sense, pulmonary rehabilitation includes a spectrum of intervention strategies integrated into the lifelong management of patients with chronic respiratory disease and involves a dynamic, active collaboration among the patient, family, and health care providers.

## Admission Prerequisites for MSc (PR)

The prerequisite to enter the Master of Science (MSc) in Pulmonary Rehabilitation is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Pulmonary Rehabilitation (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                   | Semester Two                         |
|--|--------------------------------------|
| FP501 Fundamentals of Pulmonary Rehabilitation | PD502 Pulmonary Diseases & Diagnosis |
| PR501 Pulmonary Rehabilitation I               | TR502 Thoracic Diagnostic Radiology  |
| ES501 Exercise Science                         | PR502 Pulmonary Rehabilitation II    |
| CH501 Cardiopulmonary Health                   | PH502 Pharmacology                   |
| PA501 Physical assessment                      | TH502 Thesis & Research Project      |

# Master of Science in Osteopathic Radiology – MSc (RAD) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand osteopathic radiology degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All osteopathic radiology classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (RAD) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (RAD) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Osteopathic Radiology at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Osteopathic Radiology. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Osteopathic Radiology without spending a large sum on the costs associated with daily travel. NUMSS MSc (RAD) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Osteopathic Radiology?

The osteopathic radiology MSc program is similar to NUMSS MSc program in Skeletal Radiology. However while the Skeletal Radiology MSc program focuses on bone x-rays and the skeletal system, the Osteopathic Radiology programs covers soft tissue and internal organs and chest x-rays as well. Upon graduation; osteopathic radiologists can read any x-ray films presented and would be able to generate a written report upon request.

## Admission Prerequisites for MSc (RAD)

The prerequisite to enter the Master of Science (MSc) in Osteopathic Radiology is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Osteopathic Radiology (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                | Semester Two                                |
|---|---|
| FO501 Fundamentals of Osteopathic Radiology | OP502 Orthopaedic Pathology II              |
| DP501 Diagnostic Imaging Physics            | DT502 Diagnostic Imaging Technology         |
| RD501 Radiological Analysis & Diagnosis I   | CA502 Diagnostic Imaging of Chest & Abdomen |
| OP501 Orthopaedic Pathology I               | RD502 Radiological Analysis & Diagnosis II  |
| NA501 Diagnostic Imaging Normal Anatomy I   | TH502 Thesis & Research Project             |

# Master of Science in Rheumatology – MSc (RHU) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand rheumatology degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All rheumatology classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (RHU) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (RHU) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Rheumatology at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Rheumatology. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Rheumatology without spending a large sum on the costs associated with daily travel. NUMSS MSc (RHU) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Rheumatology?

Rheumatology refers to a branch of medicine specializing in the study of pathologies in the muscles, tendons and joints. Health practitioners such as osteopaths, chiropractors & physical therapists who specialize in rheumatology deal mainly with clinical problems involving joints, soft tissues, certain autoimmune diseases, and the allied conditions of connective tissues. Essentially, these rheumatologists treat diseases & disorders that affect the musculoskeletal system.

## Admission Prerequisites for MSc (RHU)

The prerequisite to enter the Master of Science (MSc) in Rheumatology is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Rheumatology (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                      | Semester Two                                       |
|---|--|
| RP501 Rheumatology Principles & skills            | RD502 Rheumatology Diagnosis II                    |
| RD501 Rheumatology Diagnosis I                    | RA502 Rheumatology Assessment II                   |
| RM501 Clinical Management of Rheumatic Diseases I | PR502 Pathology of Rheumatic Diseases II           |
| PR501 Pathology of Rheumatic Diseases I           | RM502 Clinical Management of Rheumatic Diseases II |
| RA501 Rheumatology Assessment I                   | TH502 Thesis & Research Project                    |

# Master of Science in Sports Medicine – MSc (SM) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand sports medicine degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All Sports Medicine classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (SM) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the MSc (SM) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Choose to Study Sports Medicine at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Sports Medicine. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Sports Medicine without spending a large sum on the costs associated with daily travel. NUMSS MSc (SM) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Why Study Sports Medicine?

Sports medicine specialists have specialized training in a field of medicine that deals with sport or exercise-related injuries. Their primary focus is on the diagnosis, treatment and prevention of injuries that occur during sports and other physical activity.

## Admission Prerequisites for MSc (SM)

The prerequisite to enter the Master of Science (MSc) in Sports Medicine is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Sports Medicine (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                                   | Semester Two                                    |
|--|---|
| SM501 Sports Medicine Principles & skills      | PS502 Pathology of Sports Injuries II           |
| DS501 Diagnosis of Sports Injuries I           | SA502 Sports Injuries Assessment II             |
| SI501 Clinical Management of Sports Injuries I | DS502 Diagnosis of Sports Injuries II           |
| PS501 Pathology of Sports Injuries I           | SI502 Clinical Management of Sports Injuries II |
| SA501 Sports Injuries Assessment I             | TH502 Thesis & Research Project                 |

# Master of Science in Sports Nutrition – MSc (SN) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand sports nutrition degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All sports nutrition classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (SN) program and students from every corner of the world are eligible to apply and study at the comfort of their homes.

## Why Study Sports Nutrition?

NUMSS master's degree program in sports nutrition combines the fields of health and nutrition with fitness. Students learn ways to prevent injuries and provide treatment through nutrition programs. Master's degree graduates can land careers that focus on athletic performance and prevention of chronic diseases. Sports nutrition master's degree program teaches students how to measure metabolism, develop menus and create nutritional programs in order to prevent or accommodate injuries. Students also learn to customize specific training needs to improve physical performance in athletics. Weight loss and weight gain topics are discussed in detail.

Nutritional medicine is a new field in medicine that includes clinical nutrition but is wider in scope, covering aspects of nutrition via the role it plays in illness, wellbeing, lifecycle and ageing. The program is delivered by leading experts at the cutting edge of nutritional research and practice, providing evidence-based teaching with an applied approach. No equivalent program exists elsewhere outside the UK at present.

Students will gain a deep understanding of the complex relationships between nutrition and diseases. They will learn to take a critical and scholarly approach to theory, practice, literature and research findings, resulting in a greater understanding of the range and potential of the nutritional management of disease.

This program prepares graduates to practice in a wide range of clinical, consulting and industry settings. The program emphasizes an integrative approach to healthcare.

## Why Choose to Study Sports Nutrition at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Sports Nutrition. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Sports Nutrition without spending a large sum on the costs associated with daily travel. NUMSS MSc (SN) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (SN)

The prerequisite to enter the Master of Science (MSc) in Sports Nutrition is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc (SN) program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Sports Nutrition (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one                           | Semester Two                           |
|--|--|
| SN501 Fundamentals of Sports Nutrition | SD502 Sports Specific Diets            |
| NF501 Nutrition, Fitness & wellness    | ER502 Post Exercise Recovery           |
| WM501 Weight Management                | MG502 Muscle Gain Strategies           |
| NE501 Nutrition & Ergogenic Aids       | CS502 Nutrition for Competitive Sports |
| SS501 Nutritional Sport Supplements    | TH502 Thesis & Research project        |

# Master of Science in Skeletal Radiology – MSc (SR) Program

Thank you for your interest in the one year full time (2 semesters) online on-demand skeletal radiology degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All Skeletal Radiology classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the MSc (SR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes.

## Why Study Skeletal Radiology?

This MSc program in Skeletal Radiology prepares students to read x-rays of the skeletal systems, mainly to diagnose and detect orthopaedic conditions such as fractures and arthritis. Skeletal radiologists are health practitioners such as osteopaths, chiropractors & physiotherapists who specialize in the branch of medical science that uses radiation and radioactivity in the diagnosis of bone and joint disease.

## Why Choose to Study Skeletal Radiology at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand MSc program in Skeletal Radiology. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a MSc in Skeletal Radiology without spending a large sum on the costs associated with daily travel. NUMSS MSc (SR) program tuition is kept low (3000 Euro for 1 year) to make the program affordable to all students.

## Admission Prerequisites for MSc (SR)

The prerequisite to enter the Master of Science (MSc) in Skeletal Radiology is having a bachelor of science in osteopathy or a Doctor of Osteopathy (DO). This MSc program cannot be taken as a dual degree program with the BSc or DO, however it can be taken as a dual degree program with any other master's degree program offered by NUMSS. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Master of Science in Skeletal Radiology (1 year FT, 1280 hours total – 640 hours per semester)

| Semester one   | Semester Two   |
|--|--|
| SR501 Skeletal Radiology Principles & skills               | DT502 Diagnostic Imaging Technology                          |
| BP501 Bone Pathology I                                     | SA502 Diagnostic Imaging Normal Skeletal Anatomy II          |
| DP501 Diagnostic Imaging Physics                           | BP502 Bone Pathology II                                      |
| RA501 Radiological Analysis & Diagnosis of Bone Diseases I | RA 502 Radiological Analysis & Diagnosis of Bone Diseases II |
| SA501 Diagnostic Imaging Normal Skeletal Anatomy I         | Thesis & Research Project                                    |

# Doctor of Osteopathy (DO) Program

Thank you for your interest in the online on-demand doctor of osteopathy (DO) degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All osteopathy classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the DO program and students from every corner of the world are eligible to apply and study at



## Why Choose Osteopathy?



Osteopathy is one of the most complete health care systems in the world. It is a distinctive form of medical practice. The practice of osteopathy utilizes all available modern manual medicine techniques to assess injury and diseases of muscles, bones, joints and nerves. It also offers the added benefit of hands-on diagnosis and treatment through a system of therapy known as osteopathic manipulative medicine (OMM). Osteopaths understand how all the body's systems are interconnected and how each one affects the others. They focus special attention on the musculoskeletal system, which reflects and influences the condition of all other body systems.

## Why Choose to Study Osteopathy at NUMSS?

Because National University of Medical Sciences prepares you to be the most successful doctor of osteopathy. Our program is techniques oriented. You will become a doctor ready to practice in the real world. You will learn subjects not covered elsewhere (orthopaedic bracing, custom made orthotics, decompression therapy, clinical ergonomics, physiotherapy modalities, work & auto injuries rehab.) NUMSS offers you a chance to receive a dual degree program (MBA/DO) that would make you a superb doctor and a great businessperson. By the time you graduate you will be well versed in the business side of health care along with the clinical aspect. As such your success is guaranteed.

## Undergraduate Admissions for DO

You require a bachelor's degree as per-requisites to enter the Doctor of Osteopathy (DO) program. You have an option to take the prerequisite courses concurrently while attending the doctor of osteopathy program. The prerequisite Bachelor of Science program in Osteopathy can be taken concurrently with the DO program. Upon completing the 4 years of studies students graduate with two degrees; a Bachelor of Science in Osteopathy (BSc) & a Doctor of Osteopathy (DO). The dual degree program while being more condensed and harder to complete, offers the students a chance to become a doctor in four years instead of seven and to save on tuition.

## Doctor of Osteopathy (DO) Curriculum

There are 3 different curriculums for the DO program:

1. Curriculum for category 1 students (4 years) without previous health education
2. Curriculum for category 2 students with previous health education (2 years)
3. Curriculum for category 3 students who have a doctoral degree (1 year)

**MEMBER**



## Curriculum for category 1 regular students (4 years – 4480 hours total – 560 hours per semester)

| 1st Year<br>(1st Semester)  | 1st Year<br>(2nd Semester)  | 2nd Year<br>(3rd Semester)  | 2nd Year<br>(4th Semester)  | 3rd Year<br>(5th Semester)  | 3rd Year<br>(6th Semester)  | 4th Year<br>(7th Semester)  | 4th Year<br>(8th Semester)  |
|---|---|---|---|---|---|---|---|
| HA101 Human Anatomy   | CB102 Clinical Biomechanics   | MM201 Medical Microbiology  | DS202 Diagnosis & Symptomology  | OR301 Orthopaedics  | OP302 Osteopathy Principles, Practice, Ethics & Jurisprudence                           | AT401 Auxiliary Osteopathic Therapy (decompression therapy, foot orthotics, orthopaedic shoes, orthopaedic bracing, support hose fitting) | TH402 Research Project & Thesis   |
| HP101 Human Physiology  | NA102 Neuro Anatomy   | PA201 Pathology   | ND202 Neuro-Diagnosis   | OT301 Osteopathic Techniques IV   | NE302 Neurology   | SN401 Sports Nutrition & Weight Loss Management   | OT402 Osteopathic Techniques VII  |
| OS101 Osteopathy Skills I   | CN102 Clinical Nutrition  | IM201 Immunology  | OT202 Osteopathic Techniques III  | OS301 Osteopathic Skills V  | RM302 Rehabilitation Medicine   | RX401 Principles of Radiology & X-ray Diagnosis (rheumatology & orthopaedics)   | OS402 Osteopathic Skills VIII   |
| OM101 Osteopathic Theory, Philosophy & Methods  | OS102 Osteopathy Skills II  | OT201 Osteopathic Techniques II   | OS202 Osteopathic Skills IV   | OC301 Osteopathy Clinic Management  | OT302 Osteopathic Techniques V  | OT401 Osteopathic Techniques VI   | CE402 Clinical Ergonomics   |
| CR101 Cardiopulmonary resuscitation (CPR)   | OS102 Osteopathic techniques I  | OS201 Osteopathic Skills III  | LD202 Clinical Laboratory Diagnosis   | PT301 Physiotherapy Modalities  | OS302 Osteopathic Skills VI   | OS401 Osteopathic Skills VII  | SM402 Sports Medicine   |
| Optional class: PL101 Practical lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL102 Practical lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL201 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL202 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL301 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL302 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: PL401 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto)   | Optional class: PL402 Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) |

Curriculum for category 2 students with previous health education (2 years – 2368 hours total – 592 hours per semester)

| 1st Year(1st Semester)  | 1st Year(2nd Semester)  | 2nd Year(3rd Semester)   | 2nd Year(4th Semester)  |
|---|---|--|---|
| Osteopathy Skills   | Orthopaedics  | Osteopathic Techniques   | Osteopathic Skills  |
| Osteopathic Techniques  | Neurology   | Osteopathic Skills   | Research Project & Thesis   |
| Diagnosis & Symptomology  | Sports Nutrition & Weight Loss Management   | Auxiliary osteopathic therapy (de-compression therapy, foot orthotics, orthopaedic shoes, orthopaedic bracing, support hose fitting) | Clinical ergonomics   |
| Neuro-Diagnosis   | Osteopathy Skills   | Osteopathy Principles, Practice, Ethics & Jurisprudence  | Sports medicine   |
| Physiotherapy Modalities  | Osteopathic techniques  | Osteopathy Clinic Management   | Optional class: Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) |
| Clinical Laboratory Diagnosis   | Optional class: Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) | Principles of Radiology & X-Ray Diagnosis (Rheumatology & Orthopaedics)  |   |
| Optional class: Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) |   | Optional class: Practical Lab (techniques review, 1 week FT, in Madrid & Toronto)  |   |

## Curriculum for category 3 students with doctoral degree (1 year – 1120 hours total – 560 hours per semester)

| 1st Year(1st Semester)  | 1st Year(2nd Semester)  |
|---|---|
| Osteopathy Skills   | Osteopathy Skills   |
| Osteopathic techniques  | Clinical ergonomics   |
| Osteopathy Principles, Practice, Ethics & Jurisprudence                           | Osteopathic techniques  |
| Osteopathy Clinic Management  | Auxiliary osteopathic therapy (decompression therapy, foot orthotics, orthopaedic shoes, orthopaedic bracing, support hose fitting) |
| Principles of Radiology & X-Ray Diagnosis (Rheumatology & Orthopaedics)           | Research Project & Thesis   |
| Optional class: Practical Lab (techniques review, 1 week FT, in Madrid & Toronto) | Optional class: Practical Lab (techniques review, 1 week FT, in Madrid & Toronto)   |

## Admission

Thank you for your interest in the National University of Medical Sciences (NUMSS). Our Admissions department is eager to help you in any way we can. We invite you to phone or email NUMSS and ask us any questions you may have. We are very proud of our university and our students, and welcome all questions.

National University of Medical Sciences admits as students, women and men of good character and health who are qualified to meet its academic challenges. The University seeks to select students who have strong academic records and who demonstrate the motivational and personal characteristics suitable for a health professional. Willingness to provide service and a caring attitude are important characteristics of a future health care professional.

The National University of Medical Sciences employs a rolling admissions process. Therefore, early application could increase an applicant's probability for acceptance. Even though all our classes are held online and on-demand we have been allocated only a set number of students we can accept per jurisdiction.

Applications for admission (as well as current tuition and fees) are available online or they may be obtained by contacting the registrar's office at [admissions@numss.com](mailto:admissions@numss.com).

The application for admission must be accompanied by a non-refundable application processing fee of €192.5(Euro). It is the responsibility of the applicant to read all the information posted in this website and comply with all provisions and instructions. Our degree programs start twice per year, in the first week of September & February of each year. All classes are online & on-demand with optional in-campus practical classes.

There is one week of optional practical training per semester for most of our degree programs. The practical training is optional and there is a registration fee of € 825 (Euro) for the practical in-campus class. The practical classes are optional and attendance is not mandatory and not required for graduation. The classes are held in Madrid (Spain) & Toronto (Canada). Prior registration is a must as space is limited.

# Doctor of Physical Therapy – DPT Program

Thank you for your interest in the 100% online on-demand distance professional Doctor of Physical Therapy (DPT) degree program of National University of Medical Sciences (NUMSS). Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All DPT classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the DPT program and students from every corner of the world are eligible to apply and study at the comfort of their homes..

## Why Choose to Study DPT at NUMSS?

Because National University of Medical Sciences offers the most affordable 100% online on-demand DPT program in the world. This program is ideal for the working physiotherapists and physical therapists as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students spending a large sum on the costs associated with daily travel. NUMSS DPT program tuition is kept low (3,000 EUR per year) to make the program affordable to all students.

## Why Enroll in the DPT program?

Designed for practicing physiotherapists, the DPT program integrates physical therapy art and science, as well as professional and experiential education. It provides you with the necessary knowledge base for to become a doctor of physical therapy. Core courses within this doctoral program include differential diagnosis, diagnostic imaging, pharmacology, nutrition, and manual medicine.

## Admission Prerequisites for DPT

The prerequisite to enter the Doctor of Physical Therapy (DPT) program is having at a minimum a bachelor's degree or equivalent in physiotherapy or physical therapy. Those with a bachelor's degree in physiotherapy or physical therapy can complete the program in two years (total tuition 6,000 EUOR). Those with a master's degree or equivalent in physiotherapy or physical therapy can complete the program in 1 year (total tuition 3,000 EURO). Applicants with a PhD in physiotherapy or equivalent will receive advance credits. The DPT program can be taken as a dual degree program with a number of other programs such as the MBA in health care & the Doctor of Osteopathy (DO) program.

## Curriculum for the Doctor of Physical Therapy (DPT) Program (2 year FT, 2560 hours total – 640 hours per semester)

| 1st year (1st semester)        | 1st year (2nd semester)         | 2nd year (1st semester)         | 2nd year (2nd semester)         |
|--------------------------------|---------------------------------|---------------------------------|---------------------------------|
| CP301 Clinical Pharmacology I  | CP302 Clinical Pharmacology II  | CP401 Clinical Pharmacology III | CP402 Clinical Pharmacology IV  |
| DD301 Differential Diagnosis I | DD302 Differential Diagnosis II | D401 Differential Diagnosis III | DD402 Differential Diagnosis IV |
| PT301 Physical Therapy I       | PT302 Physical Therapy II       | PT401 Physical Therapy III      | PT402 Physical Therapy IV       |
| CN301 Clinical Nutrition       | DI302 Diagnostic Imaging        | LD401 Laboratory Diagnosis      | SM402 Sports Medicine           |
| PA301 Physical Assessment      | MP302 Musculoskeletal Pathology | MM401 Manual Medicine           | TH402 Thesis & Research project |

\*The above courses are for those with a bachelor's degree. Those with Master's or PhD receive advance credits and can finish the DPT program in a shorter time.

# Doctor of Philosophy in Advanced Diagnostic Radiology – PhD (ADR) Program

Thank you for your interest in the 2 years full time (4 semesters) online on-demand Advanced Diagnostic Radiology degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All Advanced Diagnostic Radiology classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the PhD (ADR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes.

## Why Study Advanced Diagnostic Radiology?

Are you interested in the use of radiation (x-rays), ultrasound, MRI and other imaging techniques used to diagnose illnesses? Are you already working in the field and want to move to a research position? If so, a doctoral program in advanced diagnostic radiology may be for you.

The Advanced Diagnostic Radiology program contains courses in physics, including nuclear, health, medical and radiotherapy physics. Fundamental studies also include ethics, safety and radiation measurements. This PhD program teaches you in detail about x-rays (skeletal & visceral), Magnetic Resonance Imaging (MRI), ultrasound, Computed Tomography (CT scan). As a radiology specialist you will learn how to read the diagnostic images (x-rays, MRI, CT scan, ultrasound, etc) and to write a report if necessary.

## Why Choose to Study Advanced Diagnostic Radiology at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand PhD program in Advanced Diagnostic Radiology. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a PhD in Advanced Diagnostic Radiology without spending a large sum on the costs associated with daily travel. NUMSS PhD (ADR) program tuition is kept low (6000 Euro for 2 years) to make the program affordable to all students.

## Admission Prerequisites for PhD (ADR)

The prerequisite to enter the Doctor of Philosophy (PhD) program in Advanced Diagnostic Radiology is having a master's degree in skeletal radiology or a master's degree in osteopathic radiology. This PhD program cannot be taken as a dual degree program. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Doctor of Philosophy (PhD) in Advanced Diagnostic Radiology (2 year FT, 2560 hours total – 640 hours per semester)

| 1st year (1st semester)                             | 1st year (2nd semester)              | 2nd year (1st semester)                 | 2nd year (2nd semester)             |
|---|--------------------------------------|---|-------------------------------------|
| FD601 Fundamentals of Advanced Diagnostic Radiology | RP602 Radiation Physics & Technology | DI701 Diagnostic Imaging Normal Anatomy | CT702 Computed Tomography IV        |
| CT601 Computed Tomography I                         | MR602 Magnetic Resonance Imaging II  | MR701 Magnetic Resonance Imaging III    | DU702 Diagnostic Ultrasound IV      |
| DU601 Diagnostic Ultrasound I                       | CT602 Computed Tomography II         | XR701 Advanced X-Ray Analysis III       | MR702 Magnetic Resonance Imaging IV |
| XR601 Advanced X-Ray Analysis I                     | DU602 Diagnostic Ultrasound II       | DU701 Diagnostic Ultrasound III         | XR702 Advanced X-Ray Analysis IV    |
| MR601 Magnetic Resonance Imaging I                  | XR602 Advanced X-Ray Analysis II     | CT701 Computed Tomography III           | TH702 Thesis & Research Project     |

# Doctor of Philosophy in Osteopathic Clinical Rehabilitation – PhD (OCR) Program

Thank you for your interest in the two years full time (four semesters) online on-demand Osteopathic Clinical Rehabilitation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All Osteopathic Clinical Rehabilitation classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the PhD (OCR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the PhD (OCR) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Osteopathic Clinical Rehabilitation?

This doctoral program produces osteopaths who have acquired advanced clinical knowledge from careful observation and deduction; learned to test these deductions by experimentation and questioning; and applied these skills and knowledge to the practice and teaching of European style osteopathy.

This program emphasizes academics, teaching, research, publication, and advanced clinical training and experience. The program develops osteopathic clinicians, researchers, and scholars capable of participating in a multidisciplinary environment.

Graduates are eligible to apply to the Ontario College of Osteopathic Rehabilitation Science ([www.ontarioosteopathyboard.org](http://www.ontarioosteopathyboard.org)) for Fellowship status. Upon admittance to the college, graduate are permitted to use FOCORS designation (Fellow of the Ontario College of Osteopathic Rehabilitation Sciences.)

## Why Choose to Study Osteopathic Clinical Rehabilitation at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand PhD program in Osteopathic Clinical Rehabilitation. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a PhD in Osteopathic Clinical Rehabilitation without spending a large sum on the costs associated with daily travel. NUMSS PhD program tuition is kept low (6000 Euro for 2 years) to make the program affordable to all students.

## Admission Prerequisites for PhD (OCR)

The prerequisite to enter the Doctor of Philosophy (PhD) program in Osteopathic Clinical Rehabilitation is having a master's degree in osteopathy or a master's degree in osteopathic clinical sciences. This PhD program cannot be taken as a dual degree program. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Doctor of Philosophy (PhD) in Osteopathic Clinical Rehabilitation (2 year FT, 2560 hours total – 640 hours per semester)

| 1st year (1st semester)                                   | 1st year (2nd semester)                      | 2nd year (1st semester)                       | 2nd year (2nd semester)                      |
|---|--|---|--|
| FR601 Fundamentals of Osteopathic Clinical Rehabilitation | DS602 Diagnosis & Symptomology               | OP701 Occupational Rehabilitation             | SR702 Skeletal Radiology                     |
| RS601 Osteopathic Rehabilitation Sciences                 | OA602 Osteopathic Assessment                 | OC701 Osteopathic Clinical Rehabilitation III | CR702 Cardiovascular Rehabilitation          |
| OC601 Osteopathic Clinical Rehabilitation I               | OC602 Osteopathic Clinical Rehabilitation II | PR701 Pediatric Rehabilitation                | OC702 Osteopathic Clinical Rehabilitation IV |
| NW601 Nutrition in Health & wellness                      | OR602 Orthopaedic Rehabilitation             | GR701 Geriatric Rehabilitation                | CA702 Diagnostic Imaging of Chest & Abdomen  |
| EP601 Exercise Physiology & Pathophysiology               | NR602 Neurological Rehabilitation            | PU701 Pulmonary Rehabilitation                | TH702 Thesis & Research project              |

# Doctor of Philosophy in Physical Medicine & Rehabilitation – PhD (PMR) Program

Thank you for your interest in the 2 years full time (four semesters) online on-demand Physical Medicine & Rehabilitation degree program of National University of Medical Sciences. Our Admissions department is eager to help you in any way we can. We invite you to contact NUMSS and ask us any questions you may have. All Physical Medicine classes are online & in English. The lectures are available on-demand online through internet or they may be watched on a TV screen by using a portable hard drive that could be shipped to students. Campus attendance is not required for the PhD (PMR) program and students from every corner of the world are eligible to apply and study at the comfort of their homes. However students who wish to practice practical techniques under supervision of a clinician have the choice of attending the optional week long practical techniques review at Madrid, Spain or Toronto, Canada, once per semester. The practical lab is not part of the PhD (PMR) program and students can graduate without attending the lab. Attendance is not mandatory.

## Why Study Physical Medicine & Rehabilitation?

Physical Medicine & Rehabilitation is a branch of medicine devoted to the prevention, diagnosis and treatment of neurologic, musculoskeletal, cardiovascular, pulmonary and other disorders that may produce temporary or permanent impairment and associated functional disability. Health practitioners who specialize in physical medicine & rehabilitation provide care for a broad spectrum of disorders including multiple trauma, brain injury, spinal cord disorders and injuries and stroke. They also focus on restoring function to people with problems ranging from physical mobility limitations to those with complex cognitive impairments. These health care professionals treat patients of all ages, primarily in three areas of medical care:

1. Musculoskeletal injuries and acute and chronic pain syndromes, which include the diagnosis and treatment of sports and work injuries, back and neck pain disorders and degenerative conditions such as arthritis.
2. Electrodiagnostic medicine, which involves special training in surface electromyography (SEMG).
3. Rehabilitation for severe impairments and functional limitations, which includes developmental disorders, multiple trauma, spinal cord injuries, traumatic and acquired brain injuries, cancer, stroke, amputations, multiple sclerosis and other neurological disorders.

## Why Choose to Study Physical Medicine & Rehabilitation at NUMSS?

Because National University of Medical Sciences offers the most affordable online on-demand PhD program in Physical Medicine & Rehabilitation. This program is ideal for the working health professionals as they will have the flexibility to study at the time they wish without leaving home. As there is no need to attend a classroom, they can watch the lectures at the comfort of their homes. Students from anywhere in the world can earn a PhD in Physical Medicine & Rehabilitation without spending a large sum on the costs associated with daily travel. NUMSS PhD program tuition is kept low (6000 Euro for 2 years) to make the program affordable to all students.

## Admission Prerequisites for PhD (PMR)

The prerequisite to enter the Doctor of Philosophy (PhD) program in Physical Medicine & Rehabilitation is having a master's degree in orthopaedics or a master's degree in orthopaedic rehabilitation. This PhD program cannot be taken as a dual degree program. The grade 3 students (doctors & physiotherapists) are able to complete the Bachelor of Science in Osteopathy in 6 months and the Doctor of Osteopathy in 1 year. Grade 2 students (with previous health education) can earn the BSc in osteopathy degree in 1 year and the DO degree in 2 years. Grade 1 students (with no prior health education) need to study 3 years to obtain the BSc in Osteopathy & 4 years to obtain the DO.

## Curriculum for the Doctor of Philosophy (PhD) in Physical Medicine & Rehabilitation (2 year FT, 2560 hours total – 640 hours per semester)

| 1st year (1st semester)                                  | 1st year (2nd semester)                     | 2nd year (1st semester)              | 2nd year (2nd semester)             |
|--|---|--------------------------------------|-------------------------------------|
| FM601 Fundamentals of Physical Medicine & Rehabilitation | DS602 Diagnosis & Symptomology              | PM701 Physical Medicine III          | NR702 Neurological Rehabilitation   |
| RM601 Rehabilitation Medicine                            | MP602 Musculoskeletal Pathology             | DA701 Diagnostic Radiological        | CR702 Cardiovascular Rehabilitation |
| PA601 Physical Assessment                                | PM602 Physical Medicine II                  | OR701 Orthopaedic Rehabilitation     | PM702 Physical Medicine IV          |
| MM601 Manual Medicine                                    | EP602 Exercise Physiology & Pathophysiology | OP701 Occupational Rehabilitation    | PU702 Pulmonary Rehabilitation      |
| PM601 Physical Medicine I                                | PT602 Physiological Therapeutics            | NW701 Nutrition in Health & Wellness | TH702 Thesis & Research project     |

# Program Length

National University of Medical Sciences (NUMSS) offers 30 online on-demand degree programs (BSc, MSc, MA, MBA, PhD, DO), available to students worldwide, nine degrees in osteopathy, three in sports, one in business administration, seven in rehabilitation, three in radiology, four in occupational medicine, one in botanical medicine, & the rest in physical medicine. The doctor of osteopathy (DO) program is 4 years full time for students without health background (category 1).

Category 2 students who have previous health education including manual osteopaths with a DOMP, massage therapists, kinesiologists, acupuncturists, nurses & homeopaths can complete the DO program in two years full time.

Category 3 students who have a doctoral degree including chiropractors, physiotherapists, physicians, osteopaths with a bachelor of science, osteopaths with a master of science, surgeons, dentists, pharmacists, podiatrists, optometrists, naturopaths & psychologists can complete the DO program in 1 year full time.

All Master of Sciences degrees as well as the Master of Arts and the Master of Business Administration in Health Care are 1 year long full time (2 semesters). There are no accelerated advanced programs available to any students for the master level degrees. All students (grade 1, 2 or 3) must complete the full two semesters (1 year) program. Advanced standing is not available for these programs.

The bachelor of science (BSc) program in osteopathy takes three full time to complete by students without health background (category 1).

Category 2 students who have previous health education including manual osteopaths with a DOMP, massage therapists, kinesiologists, acupuncturists, nurses & homeopaths can complete the program in one year FT.

Category 3 students who have a doctoral degree including chiropractors, physiotherapists, physicians, surgeons, dentists, pharmacists, podiatrists, optometrists, naturopaths & psychologists can complete the DO program in six months full time.

## Entrance Requirements

Applicants must meet the following requirements:

1. All students must be at least 18 years of age at the time of admission.
2. Students must have earned a high school diploma (grade 12), its foreign equivalent, or a General Educational Development diploma (GED). Students are strongly recommended to take at least one year each of high school biology, chemistry and physics; and mathematics.
3. Students must demonstrate sufficient maturity to undertake a health care profession, including the capacity to ethically and responsibly manage professional boundaries. Admission to National University of Medical Sciences is competitive as NUMSS only takes a set amount of students per year from each jurisdiction. The University expects that most, if not all, students will exceed the minimum admission requirements.
4. Students wishing to obtain the MBA program in health care at the minimum must have a bachelor's degree. Health professionals such as chiropractors, medical doctors, doctors of osteopathy, podiatrists, pharmacists, physiotherapists, optometrists, naturopaths, dentists and doctors of naturopathy are also eligible to enter this program even if they do not have a bachelor's degree. Massage therapists, chiropractors, athletic therapists, manual osteopaths with DOMP or equivalent, & acupuncturists, as well as others who do not have a bachelor's degree must enrol in the dual degree programs of BSc/MBA.

5 – Students wishing to enrol in the Master of Art in History of Osteopathy must have earned a Bachelor of Science degree in Osteopathy or a Doctor of Osteopathy degree and be a licensed member of the International Osteopathic Association ([www.internationalosteopathicassociation.org](http://www.internationalosteopathicassociation.org)) prior to the class start date.

6 – Students wishing to enrol in a Master of Science degree program in any of the following fields (orthopedics, clinical neurology, rheumatology, sports medicine, skeletal radiology, osteopathic radiology, osteopathic clinical sciences, osteopathy, functional assessment & disability evaluation, occupational medicine, botanical medicine, clinical occupational rehabilitation, orthopaedic rehabilitation, neurological rehabilitation, pulmonary rehabilitation, aquatic rehabilitation, cardiac rehabilitation, clinical ergonomics, pediatric osteopathy, geriatric osteopathy, nutritional medicine, & sports nutrition) must have earned a Bachelor of Science degree in Osteopathy or a Doctor of Osteopathy degree and be a licensed member of the International Osteopathic Association prior to the class start date.

7 – Students wishing to enrol in the Doctor of Philosophy (PhD) degree program in Advanced Diagnostic Radiology must have successfully completed either the Master of Science program in Skeletal Radiology or the Master of Science program in Osteopathic Radiology.

8 - Students wishing to enrol in the Doctor of Philosophy (PhD) degree program in Osteopathic Rehabilitation must have successfully completed either the Master of Science program in Osteopathy or the Master of Science program in Osteopathic Clinical Sciences.

9 - Students wishing to enrol in the Doctor of Philosophy (PhD) degree program in Physical Medicine & Rehabilitation must have successfully completed either the Master of Science program in Orthopaedics or the Master of Science program in Orthopaedic Rehabilitation.

## Combined Degrees

Students have the option of taking two or three degree programs concurrently to save time and money. However the combined programs are significantly harder to complete and require more efforts and studying. All the combined degrees are offered online on-demand without the need to attend any classes on campus.

### MBA/DO dual degree

The two programs can be taken concurrently online on-demand & take 4 years full time to complete for category 1 students without health background.

Category 2 students who have previous health education including manual osteopaths with a DOMP, massage therapists, kinesiologists, acupuncturists, nurses & homeopaths can complete the dual degree program in two years full time.

Category 3 students who have a doctoral degree including chiropractors, physiotherapists, physicians, osteopaths with a bachelor of science, osteopaths with a master of science, surgeons, dentists, pharmacists, podiatrists, optometrists, naturopaths & psychologists can complete the MBA/DO program in 1 year full time.

### BSc/DO dual degree

The two programs can be taken concurrently online on-demand & take 4 years full time to complete for category 1 students without health background.

Category 2 students who have previous health education including manual osteopaths with a DOMP, massage therapists, kinesiologists, acupuncturists, nurses & homeopaths can complete the dual degree program in two years full time.

Category 3 students who have a doctoral degree including chiropractors, physiotherapists, physicians, surgeons, dentists, pharmacists, podiatrists, optometrists, naturopaths & psychologists can complete the BSc/DO program in 1 year full time.

### BSc/MBA dual degree

The two programs can be taken concurrently online on-demand & take 3 years full time to complete for category 3 students without health background.

Category 2 students who have previous health education including manual osteopaths with a DOMP, massage therapists, kinesiologists, acupuncturists, nurses & homeopaths can complete the dual degree program in one year full time.

Category 3 students who have a doctoral degree including chiropractors, physiotherapists, physicians, surgeons, dentists, pharmacists, podiatrists, optometrists, naturopaths & psychologists can complete the BSc/MBA program in six months full time.

### BSc/MBA/DO combined degree

The three programs can be taken concurrently online on-demand & take 4 years full time to complete for category 1 students without health background.

Category 2 students who have previous health education including manual osteopaths with a DOMP, massage therapists, kinesiologists, acupuncturists, nurses & homeopaths can complete the three degree program in two years full time.

Category 3 students who have a doctoral degree including chiropractors, physiotherapists, physicians, surgeons, dentists, pharmacists, podiatrists, optometrists, naturopaths & psychologists can complete the BSc/MBA/DO program in one year full time.

## Technical Qualifications

A student must possess the following abilities, with or without reasonable accommodation, for completion of any of the NUMSS degree programs (except MBA in Health Care, MA in History of Osteopathy, & the three radiology programs):

1. Ability to apply osteopathy techniques and adjunctive techniques over the full range of a client's body, including positioning clients, palpating, feeling with hands and fingers, pushing, pulling, kneading, grasping, twisting wrists, and lifting up to 10 pounds, for periods of up to 60 minutes without interruption.

2. Ability to determine depth and intensity of manual pressure and force, as applied in the performance of common manual and adjunctive procedures and techniques.



It is in the best interests of both the student and the University to assess the degree of limitation caused by disability. However, the University will make the final determination of whether or not an individual meets all qualifications for study at the University.

Persons who have been convicted of a misdemeanor of a violent criminal or sexual nature or any felony will be prohibited from professional health care practice in many jurisdictions. National University of Medical Sciences will deny admission to applicants with such convictions.

## Responsibility of Applicant

It is the responsibility of the applicant to be aware of the entrance requirements and to ensure that they are met prior to enrolment.

If National University of Medical Sciences determines at any time that requirements are not met in full, the student will not be allowed to enrol or to continue at the University.

## Application Procedure

The first step is to submit a fully-completed application for admission.

You may obtain an application from the NUMSS website or by contacting the registrar's office at [admissions@numss.com](mailto:admissions@numss.com) so one could be emailed to you. The application for admission must include:

1. A properly completed application for admission. Please type or print neatly
2. An application processing fee of €192.5 (Euro). This fee is non-refundable and must be submitted with the application for admission. If transferring through bank; please contact the registrar for our bank account information. Alternatively you may send payment with Western Union or pay by credit cards or through PayPal. You may also use e-Transfer
3. Copies of official transcripts from all secondary and post-secondary institutions attended
4. Two passport size photos that have been taken within one year of the application date ; if mailing the application. If sending the application by email, one photograph is enough.

## Tuition Deposit Policy

Applicants will be notified in writing of the Admission Committee's decision regarding their application following receipt of all application materials and committee review. Within four weeks of receiving notification of acceptance, a candidate must remit a tuition deposit of €500 (Euro) to reserve a position in the entering class.

Tuition deposit is non-refundable but is applied toward the tuition of the applicable academic program. Alternatively students may pay in full the tuition for the upcoming semester.

Students who pay the full tuition in one lump sum prior to start of school receive 10% discount towards their tuition.

Tuition is non-refundable once the user ID and password have been emailed to student or if the portable external hard drive containing the lectures have been mailed to student. However students have the ability to defer graduation and delay their studies for a period of ten years.

Students who have been accepted and paid the €500 (Euro) tuition deposit must pay the balance of their tuition for the first semester before the first day of class in September or February of each year.

## Selection Candidates

The Admissions Committee, in general, seeks to matriculate students who best suit the philosophies and goals of the University. National University of Medical Sciences attempts to select students who have strong academic records and who demonstrate the motivational and personal characteristics suitable for a career in primary health care.

Service and a caring attitude are important characteristics of a future health care practitioner. The University employs a rolling admissions process; therefore, early application could increase the applicant's probability for acceptance.

## Tuition

National University of Medical Sciences (NUMSS) aims to provide high quality yet affordable education to everyone. Instead of having a large lump sum tuition we have lowered the mandatory tuition and made the rest of the fees optional.



## Mandatory Fees (all fees are in Euro)

Application Fee: €192.5

Tuition: €1,000 per semester for each degree program

## Optional Fees

Portable External Hard Drive: €330 per semester. The hard drive contains all the lectures for each semester of a degree program. It permits you to watch the lectures on TV anywhere at any time without the need to be connected to the internet. It is highly recommended. It makes studying a lot easier and allows you to keep a copy of the lectures as a reference for future use. The fee includes shipping & handling.

Practical Week Long campus based Classes for all degrees: €825 per class (one per semester). The in-campus classes are held for one week per semester after the end of each semester in Madrid (Spain) and/or Toronto (Canada). Students get a chance to practice their techniques on other students under the supervision of a clinician. Advanced registration is required as space is limited. This class is for the DO or BSc in Osteopathy programs only.

Books: €100 to €400 per semester. To lower the costs students are encouraged to buy second hand books or to borrow them from libraries. All books recommended by NUMSS can be purchased online at [www.amazon.com](http://www.amazon.com).

Degree Certificate: €220 per degree. The fee includes the cost of shipping & handling. Degree certificates are suitable for framing.

## Other Fees

Official Transcript: €55.

Returned Cheque: €27.50 per NSF cheque.

Exam Fee: none. Exam fees are included in tuition

Exam Re-Write: €110 to re-write a failed exam



# Diversity

National University of Medical Sciences(NUMSS) promotes a positive, safe and healthy work & educational environment. NUMSS respects the dignity and worth of every person and prohibits discrimination within the institution and/or its clinics.

NUMSS offers equal opportunity to all persons without regard to race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, sexual orientation, age, marital status, family status, or disability. This policy, subject to appropriate exceptions, applies to all matters, including: admission and education of students; availability of student loans, and job opportunities; and employment and promotion of teaching and administrative staff.

## Non Discrimination

Every member of the National University of Medical Sciences community has the right to study, work and conduct his or her activities in an environment free of discrimination and harassment, and supportive of academic achievement, dignity, and self esteem. NUMSS is committed to providing and maintaining such an environment through its policies, regulations and education programs.

This policy applies to all members of the NUMSS community in their interaction with other members of the NUMSS community and supersedes the Sexual Harassment Policy & Procedures and the Equal Opportunity Policy, except where those policies are incorporated by specific reference in an agreement with a unionized group and/or dealt with by legislation. The NUMSS community includes employees, students, visitors, volunteers, and other individuals who work, visit, or study at NUMSS.



Nothing contained in this policy shall derogate from the rights, privileges or obligations of the Institution to deal with the issues in a formal manner which then obviates the necessity of dealing with the complaint through dispute resolution. NUMSS shall provide a work and learning environment free of discrimination and harassment exercised by or against an individual by reason of race, colour, ancestry, place of birth, national origin, citizenship, creed, religious or political affiliation or belief, sex, sexual orientation, physical attributes, family relationship, age (except as consistent with applicable legislation), physical or mental illness or disability, place of residence, or record of offences.

This policy shall not preclude any equity measures implemented by NUMSS or as required by law. There shall be no harassment or sexual harassment exercised by or against an individual.

## Professionalism



All students enrolled at National University of Medical Sciences are prohibited from providing treatment, advice, or acting in a clinical manner, as it relates to a health profession for which he or she is not licensed or registered, with any person unless under the supervision and direction of a clinician.

Each student enrolled at NUMSS is strictly prohibited from practicing and/or holding himself/herself out as a health care practitioner.

Students are subject to the rules, regulations and policies established from time to time by NUMSS. The student is subject to the laws, regulations and conduct set out by NUMSS and the jurisdiction they reside.

Failure to comply with this regulation may lead to disciplinary action, which may include expulsion or suspension from NUMSS, and further civil, administrative and/or criminal action being commenced against the offending student.

Consent of an individual is not justification for inappropriate conduct by a student. A student with a concern or question regarding the above policy is advised to contact the registrar to ascertain NUMSS's position with respect to any potential issue.

## Privacy Policy

Access to applicant or student information by a third party is prohibited except where signed consent from the applicant or student is provided. The signed consent will allow for access to information but cannot authorize the delegation by the applicant and/or student for decisions to be made on his or her behalf by any other party.

As an example, a student may authorize in writing that a parent receive the grades of the student or obtain the status of a student enrolled at National University of Medical Sciences. The authorization cannot be used for the parent to make decisions with respect to such matters as appeals or financial arrangements without the student being present and agreeing to the decision.

A third party who has received signed authority on behalf of an applicant and/or student may only advocate on behalf of the student in the presence of that student. This policy applies only to persons not directly involved in the application or education process.

## Disclaimer

The National University of Medical Sciences (NUMSS) assumes no liability whatsoever for direct or indirect loss or damage suffered or incurred by any student or third party as a result of matters beyond its control, including but not limited to delays, interruption, suspension or cancellation of services, courses or classes, or other academic and clinical activities where the interruption or cancellation is caused by natural disasters, fire, water, theft, strike, lockout, protest, government action, civil unrest or disobedience, financial exigency, inability to procure materials or trades, utility interruptions, or damage to NUMSS property. NUMSS reserves the right to change its institutional rules and regulations from time to time without notice.