Certificat d'université : compétence en "Applications des Lasers en médecine dentaire"

Additional information (https://my.ulg.ac.be/MyULg/PP_xt/IFC/fr/catalogueifc.do?as_action=consult&id=62)
INFORMATION
Professor Samir NAMOUR
c/o Mrs Patricia HENIN
Institute of Dentistry - BRULL
Quai Godefroid Kurth 45 4020 LIEGE
Phone number : +32-4-270.31.04, Fax number : +32-4-270.31.10
E-mail address : S.Namour@ulg.ac.be
PRESENTATION
Objective :
n partnership with European universities (France, Germany, Italy, Spain) offering teaching which enables useful knowledge to be updated for practitioners using lasers or those wishing to becomes practitioners using lasers.
Reasons :
The development of new odontology laser technologies requires theoretical and practical knowledge which is covered only briefly in the undergraduate context. This gap in teaching, which we hope is temporary, leaves practitioners wishing to use this technology at the mercy of commercial training providers with a financial interest in the area.
This obliges universities to offer refresher courses for practitioners who use lasers or who wish to use lasers.
The Masters teaching will be cover the basic knowledge required for correct clinical practice.
Our teaching programme is currently followed by seven European universities: Nice, Aachen, Rome, Parma, Barcelona, Timisoara, and Liège. Teaching is providing within the framework of a European Masters in 'Oral Laser Applications' (EMDOLA).
On 6-7 May 2007, the European Commission recognised this inter-university European Masters (EMDOLA: European Master Degree in Oral Laser Applications) by awarding it a bronze medal for the new 'European education and life long learning' programme.
Teaching college :
Director : Pr. S. NAMMOUR
Teachers :
-University of Liege : Prs. E. ROMPEN, S. NAMOUR,
-UFR Nice (France) : Pr. J.P. ROCCA, Pr. P. Mahler,
-UFR Lyon (France) : Pr. T. SELLI (Lyon 1),
-Pr. N. GUKNECHT (University of Aachen, Germany),
-Pr. Antoni España et Dr Josep Arnabat (University of Barcelona, Spain),
-Pr. M. LUOMANEN (University of Helsinky, Finland),
-Pr. L. POWELL (University of Salt Lake City, USA),
-Pr. H.S. Loh (University of Singapore, Singapore),
-Pr. T. PENHEIRO (University of Bahia, Brazil),
-Pr. A. BRUGNERA J. (University of Sao Paolo, Brazil),
-Pr. Carlos De Paula Eduardo (University of Sao Paolo, Brazil),
-Pr. J.E. Kamenova (University of Sophia, Bulgaria),
-Pr. A. Sculean (University of Bern, Suisse)
-Pr. U. Romeo, Dr R. Kornblit (University of Rome, Italy)
-Pr. P Vescovi, Pr C Fornaini, Dr GF Semez; Dr E. Merigo (University of Parma, Italy)
-Pr. R J. G. De Moor, Dr K I. M. Delmé (Ghent University, Belgium)
-Pr. P Thiry, Dr A. Peremans, L. Lamard (Université de Namur, Belgique)
-Prof Caterine Behets (UCL : Université Catholique de Louvain),
-Maître N. Soldatos, Dr Th. Papadopoulos (medical expertise)
-Dr Gérard Navaro (Paris)
-Dr Gaston Ciais (Nice)
-D. Heysselaer, Marc Tielemans, J. Berrebi, B. Bahrami (ULg).
Scientific partners: D. HEYSSELAER, M. TIELEMANS.
SPECIAL CONDITIONS OF ACCESS / STUDENTS CONCERNED
This course is aimed at holders of the Belgian second cycle degree in Dental Sciences (Masters), holders of the Belgian degree of Complementary Masters in Stomatology, or an equivalent foreign degree. Interested individuals should contact the head of the course to discuss their application (curriculum vitae, analysis of responses to the pre-set motivation questionnaire, basic knowledge of the English language).
DURATION OF THE TRAINING
-Teaching plan:
Duration: Two years (splitting may be authorised by the jury)
According to European standards, this entire course is considered as the equivalent to 120 ECTS (60 ECTS / year) spread over two academic years.
Structured into modules :
First year :

Module 1 : Optics
Module 2 : Physics of lasers
Module 3 : Interaction laser-tissues
Module 4 : Laser Safety and Properties of lasers and their applications in dentistry
Module 5 : Lasers conservative dentistry and laser in caries prevention
Module 6 : Lasers and endodontics
Module 7 : Laser in oral surgery and periodontics and implantology
Module 8 : Low-level laser therapy and jurisprudence and practice management
Second year :
Module 9 : Master thesis
Module 10 : Clinical training

-Organisation of teaching:
Length of course: 2 years.
Date of start of course: September in the first year.
End of course: June of the second academic year.
Theory teaching.
Clinical teaching,
Practical pre-clinical work,
Clinical training,
Research thesis: Submission of theses in June of the second year. Defence in September of the second year (public defence).
Total number of hours: (120 ECTS).

-Capacity
Currently between four and twelve students.

-First year

* Theory classes: a series of seminars on three consecutive days. Structured into modules with the possibility of interuniversity exchanges.
* Pre-clinical practical work: in vitro (on extracted teeth) and on animal heads
* Biographical programming and research relating to the subject of the Masters thesis
* Continuous assessment of knowledge throughout the first year.

Second year

* Clinical training.
* Conducting and finalising research work and submission of theses.
* Thesis defence (in front of a jury).
* Conditions for awarding of the diploma: passing exams and acceptance of the thesis.

Supplementary Masters options :
Doctoral Thesis: relating to the use of laser (for students who have obtained the Masters) or in partnership with other dental and medical disciplines.
STUDY PROGRAMME

I - First Year (60 ECTS) :

Compulsory courses

MCER0061-1	*Module 1 : Optics* (english language) - COLLÉGIALITÉ	-	-	-	**3**
MCER0062-1	*Module 2 : Physics of lasers* (english language) - COLLÉGIALITÉ	-	-	-	**2**
MCER0063-1	*Module 3 : Interaction laser-tissues* (english language) - COLLÉGIALITÉ	-	-	-	**5**
MCER0064-1	*Module 4 : Laser Safety and Properties of lasers and their applications in dentistry* (english language) - COLLÉGIALITÉ	-	-	-	**3**
MCER0065-1	*Module 5 : Lasers conservative dentistry and laser in caries prevention* (english language) - COLLÉGIALITÉ	-	-	-	**15**
MCER0066-1	*Module 6 : Lasers and endodontics* (english language) - COLLÉGIALITÉ	-	-	-	**12**
MCER0067-1	*Module 7 : Laser in oral surgery and periodontics and implantology* (english language) - COLLÉGIALITÉ	-	-	-	**15**
MCER0068-1	*Module 8 : Low-level laser therapy and jurisprudence and practice management* (english language) - COLLÉGIALITÉ	-	-	-	**5**

II - Second year (60 ECTS) :

Compulsory courses

MTFE9002-1	*Module 9 : Master thesis* (english language) - COLLÉGIALITÉ	-	-	-	**35**
MSTG9010-1	*Module 10 : Clinical training* (english language) - COLLÉGIALITÉ	-	-	-	**25**

ASSESSMENT

* Theory teaching: continuous assessment in the form of short questions and answers and/or multiple choice questions. Eleven tests each graded out of 20, i.e. a total of 220 points reduced down to 20 (divided by 11 i.e. a coefficient of 1);
* Practical teaching, tutorials, clinical: continuous assessment graded out of 20 (coefficient 1);
* Final thesis: Defence of applied research thesis on a given subject (before a jury). Grade out of 40 (coefficient 2). The thesis must be defended in June in the second academic year, in the presence of a jury. The defence is public.
* Clinical module is graded out of 20 (coefficient 1).

The overall Masters grade is made up of the arithmetic sum of the four tests.
Any candidate receiving at least 50 out of 100 can be admitted.
The tests are judged by a jury made up of at least four members appointed by the CUC Director and chosen from the teaching staff. The Director may also call upon external specialists who are experts in the field.
REGISTRATION
After the list of accepted candidates has been accepted and sent by the Director of the Masters.
Where : ULg lifelong learning unit
Documents to be presented : authorization to enrol issued by the Dean (sent to accepted applicants).
Registration fees : 3,625 EUR per student per academic year.