

Mastership Status in Laser Dentistry

LASER THERAPY IN DENTISTRY – AACHEN – GERMANY – START 03 June 2018
One-Year Certification Course, Mastership Certificate
awarded by RWTH Aachen University, Germany

This Certification Course is a one-year clinical specialisation course in laser dentistry, in which the dentist participates beside his daily work in a dental clinic. The program will span a period of 1 year, in which 3 modules will be held, including the realisation of 5 clinical cases. Beside the time of presence at the teaching facilities an internet-based e-learning environment supports the participants in their home-work between the modules.



- The certificate „Mastership Status Laser Therapy in Dentistry“ is a Diploma, awarded by the university of excellence, RWTH Aachen University, Aachen – Germany
- The certificate recognizes the graduate as a specialist in laser therapy in dentistry
- The course director, Prof. Dr. Norbert Gutknecht is the world opinion leader in laser dentistry, Director of the department of operative dentistry at RWTH Aachen University, and executive director of the WFLD, the World Federation of Laser Dentistry
- After successful graduation you can upgrade to the Master of Science course „Lasers in Dentistry“ at RWTH Aachen University by getting special fee reductions!

Modules Content:

- **Module I Lasers Physics and Safety (LSO) and Laser Construction of Diode lasers, Diode Lasers 4 days***
- **Module II Erbium Lasers 4 days***
- **Module III Combined wavelengths Therapy Concepts, Oral and Written Exam** 4 days***

*Days are presence days. The participants will be connected between the modules to the AALZ e-learning homework network and integrated into hands-on training programs
**The exam includes the presentation of 5 clinical cases and a written multiple choice test

The course will have a total amount of 390 hours workload and 96 presence hours

Education points will be credited!

- **Course Fees: 6000 Euro**
- **Registration Fees 600 Euro (non refundable)**
- **4 installments of 1250 Euro**
- **Start: 03 June 2018**

- **Module 1: 03-06 June 2018**
- **Venue: AALZ - RWTH Aachen Campus - Aachen**
- **Module 2: 26-29 November 2018**
- **Venue: AALZ - RWTH Aachen Campus - Aachen**
- **Module 3: 20-22 May 2019**
- **Venue: RWTH Aachen University, Aachen - Germany**

- **AALZ Application Office:**
- **Mr. Leon Vanweersch**
- **Phone: +49 (241) 47571313**
- **Email: vanweersch@aalz.de**

- **All Biolase Distributors in Europe, Middle East, Africa**
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- **AALZ will do your hotel reservations for best prizes**



COURSE CONTENT

MODULE I

LASER PHYSICS AND LASER SAFETY OFFICER COURSE

Laser Safety Officer Seminar
Physics of Lasers, History of Lasers, Laser Wavelengths, Photons, Laser-Tissue Interactions, Absorption and Emission of Photons, Biophysics, Absorption and Absorptions Spectra, Laws and Regulations, Transformation of Laws and Regulations in the Dental Office

Multiple Choice Test

LASER CONSTRUCTION AND HANDLING, LASER CLINICAL INDICATIONS OVERVIEW

Laser Construction
- Laser Function
- Operation Manuals and Guidelines
Laser Clinical Indications Overview



DIODE LASERS

Biophysical background: Ablation mechanisms, transmission, absorption in the tissues, temperature and tissue reactions--> EBD Literature

Hands-on Training, Skill Training and Live Patient Demonstrations

CLINICAL INDICATIONS

Endodontics:

- Root Canal Treatment

Periodontology:

- Non-surgical Treatment

- Thoroughing

Soft Tissue Therapy:

- Frenectomy

- Gingivectomy, Gingivoplasty, Gingival Hyperplasia

- Incisions (Abscess drainage)

- Exposure of Retained Teeth

Hard Tissue Therapy:

- Hypersensitive Teeth

Oral Mucosa Diseases



MODULE II

ERBIUM LASERS

Biophysical background:
Absorption and transmission in soft tissues;



Ablation mechanism, temperature and pulp reaction, preparation speed, cavity sterilisation, sense of pain during cavity preparation--> EBD Literature
Hands-on Training, Skill Training and Live Patient Demonstrations

CLINICAL INDICATIONS

Periodontology:
- Non-surgical and Surgical Treatment

Soft Tissue Therapy:
- Frenectomy
- Gingivectomy, Gingivoplasty, Gingival Hyperplasia
- Incision/Excision
- Pericoronitis

Implantology:
- Implant Exposure
- Peri-implantitis Treatment



Cavity Preparation:
- Minimal Invasive Caries Removal:
- Fissure Sealing
- Cavity Preparation Methods for Composite Fillings and Ceramic Inlays
- Veneer Preparation
- Creation of Micro Retentive Sealings

- Removal of Old Fillings (Possibilities)

Endodontics:
- Cleaning and Disinfection of the Root Canal

Hard Tissue Surgery:
- Apicoectomy
- Sinus Lift
- Depigmentation of the Gingiva
- Bone Surgery: Bone Exostosis, Crown Lengthening,
- Osteotomy

MODULE III

COMBINED DIODE AND ERBIUM WAVELENGTHS THERAPY CONCEPT

Clinical Indications and Presentations

WRITTEN MULTIPLE CHOICE EXAM

PRESENTATION OF 5 CLINICAL CASES

OFFICIAL DELIVERY OF THE CERTIFICATES

GALA DINNER





Application Form EUROPE 2018

Mastership Status in Laser Dentistry

One-Year Certification Course, awarded by
RWTH Aachen University, Germany

Start: 03 JUNE 2018

Last Name _____

First Name _____

Title/Degree _____

Address _____

City _____

State/PO _____

Postal Code _____

Country _____

Office Phone _____

Home Phone _____

Fax Number _____

Email _____

Signature _____

Date of Signature _____

Aachen Dental Laser Center – AALZ GmbH
RWTH Aachen Campus, Campus Melaten
ZBMT Building - Center for Biomedical Technology
Pauwelsstrasse 17
52074 Aachen
GERMANY

AALZ Application Office:
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ALL BIOLASE DISTRIBUTORS

**This application form is
for the course number**

EUROPE 2018

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Please complete this form, scan the form and
mail it to: vanweersch@aalz.de or apitzsch@aalz.de