



SWISS Masters Course in Laser Dentistry & Photomedicine

Hosted in India by



AALT
Asian Academy of Laser Therapy



PROGRAM OVERVIEW

This SWISS MASTERS Course is an International Hybrid Learning Program designed to cater to the needs of Dentists / Interns / Dental Postgraduate Students without losing on their practice/study time. This Comprehensive program is module based comprising 13 modules of Hybrid learning - 10 Online (Self Paced) and 3 Onsite (Physical) Modules at India and Switzerland (Optional). The Program follows a structured format and the curriculum is as per International norms set by Asian Academy of Laser Therapy (Affiliated to Central Christian University, Affiliation ID : EPP277)

SCOPE

This meticulously crafted Masters Course shall encompass all aspects of contemporary Head & Neck Laser sciences including

- **Laser Medicine** (Photobiomodulation and Photodynamic Therapy)
- **Laser Surgery** (Photothermal Applications with Diode Lasers)
- **Sports Dentistry and Laser Applications**
- **Oral Oncology** (Cancer Detection & PMOD Reversal with Photomedicine)
- **Head & Neck Neurology** (From Simple Dental Pain to Advanced Head & Neck Pain Syndromes)

SPECIAL FEATURES

Apart from the aforementioned scientific skill enhancements, each participant shall be trained on various aspects of Laser Marketing and Practice Management with patented concepts like

LASER HEALING TRIANGLE, LASER ENTREPRENEURSHIP & INNOVATIONS with 360° Career Moulding Matrix.

Each participant will receive 1-on-1 guidance to start Exclusive Laser Practice under the mentorship of **Dr. Tilman Fritsch**

(Director of SBMC Academy Switzerland),

Prof. Dr. Chandrashekar Yavagal, Director of Laser Dentistry and Photomedicine (India) & **Prof Anja Fuechtenbusch**,

President COLL Germany.

ABOUT MENTORS



Prof. Dr. Tilman Fritsch

(Director - NAM Institute Salzburg & SBMC Academy Switzerland)

President, Austrian Society for Sports Dentistry,
Senior Faculty - COLLL



Prof. Chandrashekar Yavagal

(Director of Laser Dentistry and Photomedicine, India.

President - COLLL Asia)

MDS (Gold Medalist in Pediatric Dentistry), DOrth (OWI, Barcelona),
PhD, Post Doc (Laser Biophotonics & PDT)



Prof. Anja Fuechtenbusch

(President COLLL Germany)

Senior Specialist - Photobiology, Laser Photomedicine and
Auricular Therapy.

CEO Fuechtenbusch Publishing and Education.

Board Member and Head of COLLL, Germany

STRUCTURE OF THE PROGRAM

ADVANCED HYBRID LEARNING (SMART INTEGRATION OF ONLINE DIDACTICS and ONSITE PATIENT TRAINING)

Online e-Learning sessions

10 Online modules (self paced / e-learning) sessions. Each e-Learning module consists of elaborate theory followed by weekly assessments which have to be completed before attending the subsequent modules.

Physical / Contact modules

3 Onsite (physical) modules have to be compulsorily completed by each participant. At the end of it, each participant is expected to submit and defend 10 completed clinical cases in an ORAL Exam as per the prescribed format. Candidates are also required to publish a Paper / Poster at 2 conferences of International Repute Or submit a Short-Term Project / Mini Dissertation / Systematic Review with Meta Analysis under the supervision of an SBMC / AALT certified faculty.

BATCHES

2 Batches per year with maximum 6 candidate

CERTIFICATIONS

Upon completion each participant shall receive a **Swiss MASTERS COURSE COMPLETION CERTIFICATE** as well as a **CERTIFICATE OF ADVANCED PROFICIENCY IN LASER DENTISTRY & LASER SAFETY OFFICER'S TRAINING (LSO)** from Asian Academy of Laser Therapy - Affiliated to Central Christian University (Affiliation ID: EPP277)

COURSE FEES



Detailed Course Structure

- 10 Online Modules
- 3 Physical Onsite Modules
- Basic 'Hands-On' Module - 2 days
- Advanced 'Hands-On' Module - 3 days
- International Module - 4 (+ 1) days.

DETAILED CURRICULUM

10 ONLINE MODULES

Module 1

Basic Introduction to Lasers & Photobiomodulation (PBM)

1. Basic terms and Introduction
2. History of Photobiomodulation
3. Characteristics of Light as a Drug. (LASER MEDICINE)
4. Cellular & molecular mechanisms of photobiomodulation in detail

Non - Head & Neck applications of Photobiomodulation

1. Arthritis/Orthopedics
2. Sports Medicine
3. Diabetic Wounds
4. Laser-assisted Physiotherapy
5. Post-surgery pain management

Module 2

Photobiomodulation therapy for Oral Lesions

1. Oral Lichen Planus
2. Oral Candidiasis
3. Burning Mouth Syndrome
4. Major and Minor Aphthous Ulcers
5. Herpes infection
6. Management of Oral mucositis Post-radiotherapy and Chemotherapy
7. Oral submucous fibrosis - with the NEW 'Laser Synergy' Protocol



DETAILED CURRICULUM

10 ONLINE MODULES

Module 3

Advanced Photodynamic therapy (PDT) & Clinical Applications

1. History and origin of Photodynamic therapy.
2. Mechanism of action of Photodynamic therapy.
3. Applications of Photodynamic therapy in Endodontics and its role in management of endodontic failed cases.
4. Applications of PDT in Periodontics and its role in management of Advanced Periodontal diseases.
5. Applications of Photodynamic therapy in Implantology and its role in the management of peri implantitis.
6. Applications of Photodynamic therapy in oral potentially malignant disorders and oral infections.

Module 4

Craniofacial Pain, TMD Management & Advanced Dosimetry

How to Start an Exclusive LASER PAIN CLINIC ?

1. Introduction
2. Classification
3. PBM mechanisms
4. Laser Dose Calculation for Pain management
5. Clinical Applications of PBM in management of Craniofacial pain
 1. Temporomandibular joint disorders
 2. Myofascial pain dysfunction syndrome
 3. Trigeminal neuralgia
 4. Musculoskeletal pain
 5. Cervical pain
 6. Headaches/ Migraines/ SUNCT
 7. Post-operative pain management (e.g. post extraction)

DETAILED CURRICULUM

10 ONLINE MODULES

Module 5

Laser Physics / Tissue Interactions / Safety / LSO Module

1. Basics of Laser Physics
2. Laser Tissue Interactions
3. Applied Clinical aspects on the Knowledge of Laser Physics
4. Emission modes & Safety Considerations

Module 6

DIODE LASER SURGERY - PEDIATRIC TONGUE TIE /TOTS

1. Introduction to Diode Lasers
2. 'HOT' Tip Phenomena in Diodes
3. Science behind Diode Tip Initiation
4. Collateral Damage and Role of Coolants to Mitigate the same
5. Diode Laser Surgery for
 - A. Frenectomy / Frenotomy / Tongue Tie (TOTS)
 - B. Operculectomy
 - C. Crown lengthening / Ortho Crown Exposure
 - D. Laser Biopsy
 - E. Implant exposures etc

Module 7

LASERS IN PERIODONTICS & IMPLANTOLOGY

1. Lasers in Periodontics & Implantology
2. Understanding the Basis of 'LANAP' like procedures
3. 'Perio-Protect' System
4. 'Novo-Green' / 'Perio-Green' Applications
5. Implications of Non-Invasive, Flapless, Suture-less 'Laser Perio in Diabetics'
6. Prevention & Management of Peri-Implantitis by Advanced methods like Laser PDT

DETAILED CURRICULUM

10 ONLINE MODULES

Module 8

LASERS IN ENDODONTICS

1. Role of Lasers in Endodontics
2. Diode Lasers based PTT concept for Canal sterilization
3. PDT based 3D Canal Disinfection
4. Erbium based PIPS mechanism
5. HOW TO MAKE YOUR SINGLE VISIT RCT COMPLETELY PAINLESS & PREDICTABLE

Module 9

LASER TEETH WHITENING

1. Laser Gingival Depigmentation "PINK" Aesthetics
2. Laser Teeth Whitening - "White" Aesthetics
3. Mechanism, comparison with conventional Teeth Whitening methods.
4. Recent advancements in "Low Power" Laser Teeth Whitening using NON -PEROXIDE, RADICAL - FREE Aesthetic Whitening Systems with ZERO SENSITIVITY

Module 10

STEP BY STEP GUIDANCE ON HOW TO START A LASER PRACTICE

Multi Wavelength Strategies on How to Start a Laser Practice Spanning all the Dental Specialities including Pedodontics, Orthodontics, Oral Oncology & Head & Neck Neurology

- How to select the right Laser?
- How to start a Laser practice / Laser consultations?
- How to calculate your return on Laser Investment?
- Laser Practice Management
- Path to Financial Freedom with a career as Laser Specialist

3 PHYSICAL / ONSITE MODULES

Full day training in each module with TSD format
- TELL, SHOW and DO

A typical day would consist of Morning Didactic Lectures on Advanced topics followed by 'Hands On' Exercises / Live Patients (Subject to availability) & Case Presentation by candidates.

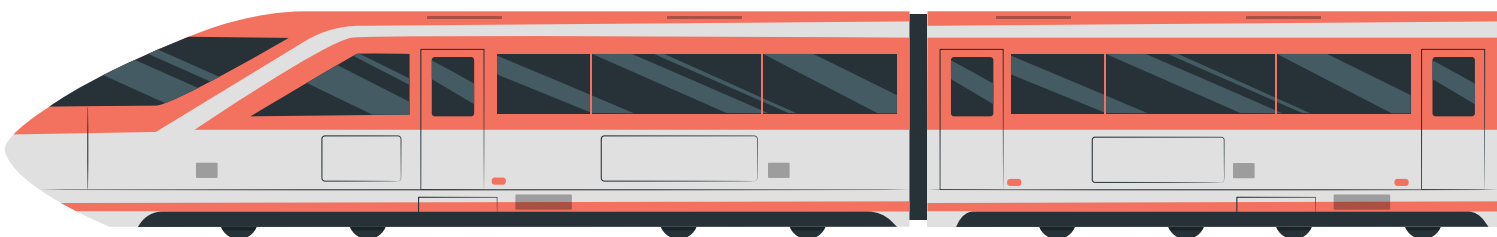
PART 1 (Basic Laser Module)

- a. DIFFERENT TERMINOLOGY (Ex. Irradiance, Radiant Exposure, Fluence etc,)
- b. LASER DOSE CALCULATIONS
- c. RELATIONSHIP OF LASER EMISSION TO 'ORDINARY' LIGHT
- d. EMISSION MODES & LASER TISSUE INTERACTIONS
- e. 10 LIVE SURGERIES / LASER Rx's

PART 2 A (Laser Oncology)

ORAL LASER ONCOLOGY

- a. ADVANCED APPLICATIONS viz, BLUE DIODE FLUORESCENCE / CANCER SCREENING
- b. USE OF ARTIFICIAL INTELLIGENCE - FOR SCREENING & FOR DNA PLOIDY
- c. MULTIWAVELENGTH STRATEGIES FOR REVERSAL OF PRECANCEROUS LESIONS
- d. NON-CONTACT / ADVANCED LASER SURGERY (Er-YAG) FOR EXCISION
- e. LASER AURICULAR MEDICINE FOR TOBACCO DE-ADDICTION



PART 2 B (Laser Neurology)

LASER NEUROLOGY & PAIN MEDICINE

- a. RECENT DEVELOPMENTS IN LASER NEUROLOGY & HEAD & NECK PAIN MEDICINE
- b. TRANS CRANIAL & INTRANASAL PHOTOBIO-MODULATION
- c. BRAIN WAVE MODULATION AND NEURO-BEHAVIORAL SCIENCE
- d. DEPRESSION / INSOMNIA / COGNITIVE DECLINE / PARKINSON'S DISEASE ALZHEIMER'S & BORDERLINE SCHIZOPHRENIA
- e. NON HEAD & NECK LASER PAIN MANAGEMENT
 - Laser Physio & Sports Medicine

PART 3 (International Module)

- a. ORAL MICROBIOME & LASERS
- b. TOXICOLOGY AND LASERS
- c. SPORTS DENTISTRY & LASERS
- d. ADVANCED AURICULAR MEDICINE
- e. LASER FIELD THERAPY (LFT)



Final Case Submissions and Oral Exam



ARE YOU READY FOR THE QUANTUM LEAP?



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