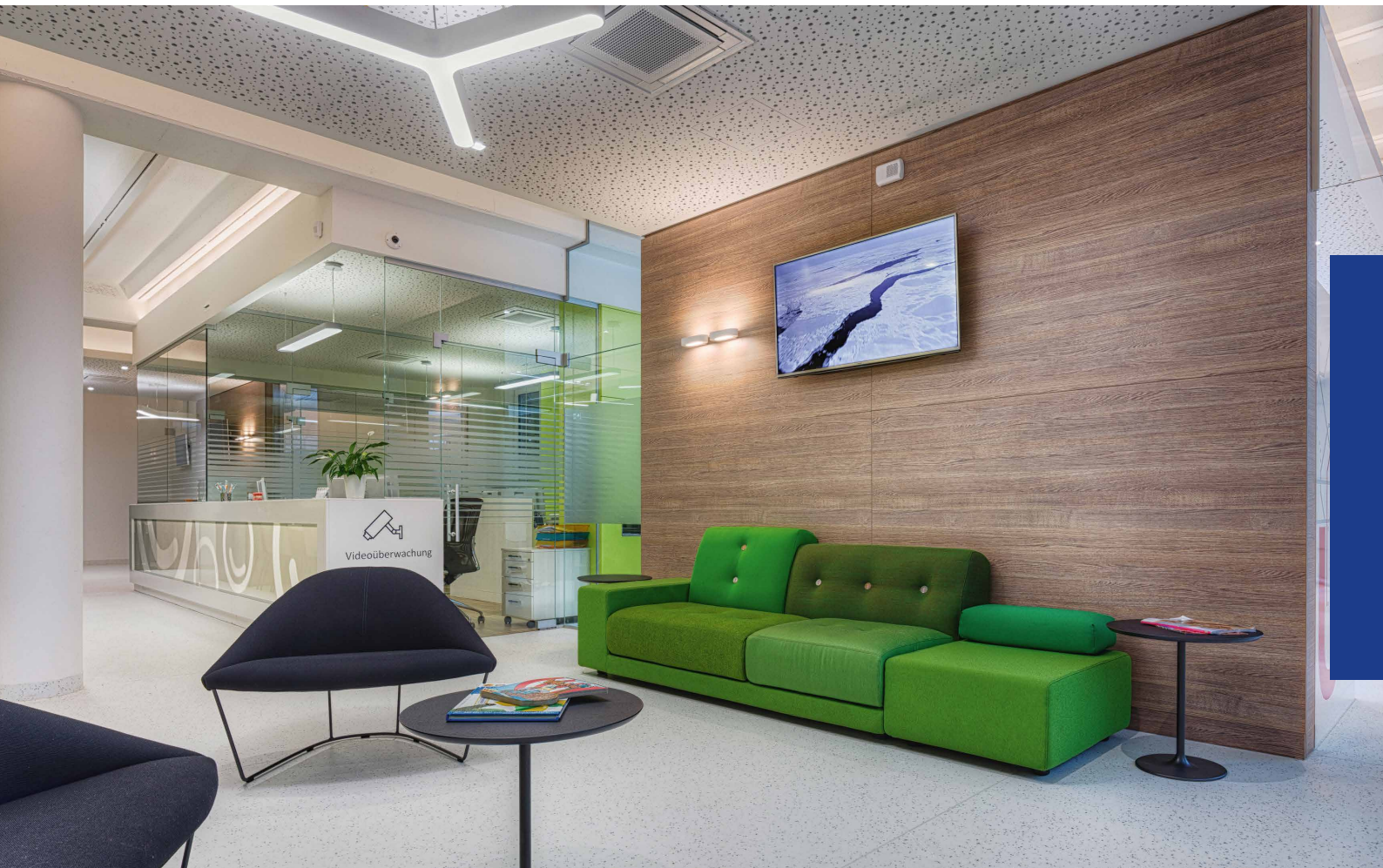


MODERN DIGITAL ORTHODONTICS QUALITY AND EFFICIENCY

2 YEARS ORTHODONTICS PROGRAM

DR. GUIDO SAMPERMANS

Vienna 2023 - 2025





DR. GUIDO **SAMPERMANS**

Dr. Guido Sampermans graduated in 1980 as a general dentist from the University of Leuven, Belgium. In 1986 he started his private orthodontic office in Belgium and in 1997 in Heinsberg, Germany. From 2003 to 2010 he led an orthodontic office in Maastricht, the Netherlands. In 2010 he opened a brand new orthodontic office in Echt, the Netherlands and in 2015 in Vienna. These offices and study centers are considered to be state of the art orthodontic offices, including progressive concepts about service and efficiency using the latest digital developments.

Dr. Sampermans is an affiliate member of the Angle Society in Southern California (USA) and has taught orthodontic treatment philosophy and orthodontic practice management both inside and outside of Europe for 15 years. He also offers micro-seminars in his office on self-ligating brackets, indirect bonding, computer related 3D technology, and modern practice management. Since 2003, he has been a speaker at 40 international orthodontic congresses. He has worked with active self-ligating bracket systems since 2003, finishing over 6000 cases with this system.

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**EXCELLENT
AND EFFICIENT
CLINICAL
ORTHODONTICS
FROM CLINICIAN
TO CLINICIAN**



This course program consists of **10 modules**, each **2 days**, spread over two years giving an overview of **contemporary high quality and efficient orthodontics**.

The course focuses on the orthodontic treatment with straight-wire. Over the **past 30 years** due to new concepts and material developments this technic has **improved and became the most used in the world**. Dr. Guido Sampermans has more than **25 years of experience** with this technic and runs a state of the art office in Vienna where all the sessions of this 2 year course will take place.

One of the important aspects of this course is the **diagnosis and treatment planning** of orthodontic patients. Many **cases will be discussed** during this course. Participants can bring own cases to be discussed and planned during the course. Another important pillar of this course is the use of all **new digital technologies** available at the moment: digital photography, import and export of the photographs into the imaging program OnyxCeph, import and digital measurement of 3D models, segmentation of 3D models for set-ups and production of 3D trays for indirect bonding and aligners. 3D Printing demonstrations in the own orthodontic lab. In every session practical digital exercises will be done with the imaging program OnyxCeph. **By the end of this course every participant will become an expert in digital orthodontics, giving the possibility of implementing this knowledge directly in to their offices.**

The course is very **practical**, with direct and indirect bracket placement **exercises** on typodonts and **life demonstrations** on patients of Dr. Sampermans. **Wire bending exercises, insertion of mini screws and 3D printing demonstrations**. Using many patient files from the office, all treatment planning and clinical treatment steps will be explained in detail. Problems and mistakes during the treatment will be shown and alternative solutions will be discussed.



U5 Dornbach

| | | |
|-----------|-----------------------------|---|
| Module 01 | 13-14 October 2023 | Key elements of a quality digital orthodontic office |
| Module 02 | 8-9 December 2023 | Diagnosis and treatment planning I |
| Module 03 | 9-10 February 2024 | Diagnosis and treatment planning II |
| Module 04 | 19-20 April 2024 | Diagnosis and treatment planning III |
| Module 05 | 31 May -1 June 2024 | The Straight-wire technique I |
| Module 06 | 13-14 September 2024 | The Straight-wire technique II |
| Module 07 | 15-16 November 2024 | Ex-, non-Ex treatment mechanics |
| Module 08 | 17-18 January 2025 | Class II, Class III treatment mechanics |
| Module 09 | 14-15 March 2025 | Cross-bite, open-bite, deep-bite and impacted teeth treatment mechanics |
| Module 10 | 9-10 May 2025 | Finishing, retention, interdisciplinary orthodontics |

PLACE: Orthodontic Office
and Study center Zahn
und Kiefer, Vienna

LANGUAGE: English

INCLUDED:

- Catering during the course breaks
- Course materials (bands, brackets, wires, coils...) for practical exercises
- Imaging Software program Onyxceph for 2 years
- Course manual in English.

NOT INCLUDED

- Travel costs
- Hotel costs
- Pliers for practical exercises
- Laptop

13-14 OCTOBER 2023

KEY ELEMENTS OF A QUALITY DIGITAL ORTHODONTIC OFFICE

INTRODUCTION TO THE IMAGING PROGRAM ONYXCEPH

Being successful is much more than being clinical excellent.

- Cutting edge office design
- Digital technologies to improve quality and efficiency
- Teambuilding
- Leadership
- Patient satisfaction

Practical exercises on the laptop: introduction to OnyxCeph:

- import of photographs, X-Rays and 2D and 3D images,
- digital editing of those images,
- making galleries and presentations,
- exporting pictures by containers and reports,

This software program will be used in each module deepening the knowledge with each session. OnyxCeph will be the communication tool between Dr. Sampermans and participating doctors. After each session course participants will receive digital home-works. They may also do a digital preparation of own cases to present during the course.

DIAGNOSIS AND TREATMENT PLANNING I

MAKING HIGH QUALITY RECORDS

- Defining the treatment goals.
 - Stability in orthodontics: illusions and reality.
 - The requirements to make high quality starting and progress records.
 - The clinical examination of an orthodontic patient.
 - Making models: plaster and 3D.
 - Centric bite registration.
- Digital photography:**
- Making excellent extra- and intraoral photographs,
 - import and edit these pictures.
- X-Rays:**
- panoramic
 - lateral cephalograms,
 - 3D tomograms.
- PRACTICAL EXERCISES:**
- clinical examinations
 - centric bite
 - intra- and extra-oral pictures
 - exercises in imaging program

DIAGNOSIS AND TREATMENT PLANNING II RECORD MEASUREMENTS AND EVALUATION

Cephalometrics:

- the clinical importance of measurements and analysis.

Panoramic x-Ray:

- dental age prediction,
- eruption problems,
- wisdom teeth.

High quality starting records.

Homework evaluation

Case Reports

PRACTICAL EXERCISES:

- digital cephalometric evaluation,
- digital 3D model measurements (Bolton, crowding, E-space, Leeway space).

Model analysis:

- 3D model measurements.

Growth prediction:

- hand wrist and cervical vertebral maturation method.

DIAGNOSIS AND TREATMENT PLANNING III

MAKING THE TREATMENT PLAN

Mixed dentition:

- serial extractions
- keeping space
- making space

Extraction vs non-extraction:

- extraction options
 - dental VTO
- the position of the lower incisors

Treatment timing

- early two phase treatment
 - one phase treatment

Homework evaluation

Case reports

PRACTICAL EXERCISES:

- dental VTO
- digital 3D VTO.

STRAIGHT WIRE TECHNIQUE I

History and development of the straight wire technique

Bands and brackets:

- prescriptions
- conventional or self-ligating
- .018 or .022 slot system

Bracket placement:

- direct bonding
- indirect bonding

Bite stops:

- materials
- position
- methods

Initial wires

Homework evaluation

Case Reports

PRACTICAL EXERCISES:

- band and bracket placement on typodonts
- bite blocks/turbos exercises
- indirect bracket placement on the laptop
- fabrication of transfer trays in the office lab

STRAIGHT WIRE TECHNIQUE II

Wire form and wire sequences:

- extraction vs Non-Extraction
 - wire coordination

Wire bending exercises

- toe-in and toe-out,
- step back and gable bend
 - step out and step in
 - sweeps and artistic

The value of inclination and angulation prescriptions

Sliding mechanics vs closing loops mechanics

Bending:

- first order
- second order
- third order

Homework evaluation

Case reports

PRACTICAL EXERCISES:

Frontal and lateral Torque changing bends

Bending Loops

Life demonstration of indirect bonding on patients.

EXTRACTION VS NON EXTRACTION MECHANICS, WIRE SEQUENCES, ANCHORAGE AND SPACE CLOSURE

Anchorage set-up :

- Headgear
- Transpalatal wires
- Lip Bumpers
- lingual arches
- micro screws

Space closure mechanics:

- tie backs
- springs
- chains
- closing loops

Distalising molars, with and without cooperation

Homework evaluation

Case Reports

PRACTICAL EXERCISES:

Headgear placement

Placement and activation of transpalatal arches

space closure:

- placement and activation of tie backs, springs, chains and loops

Wire insertion

Wire coordination

CLASS II AND CLASS III

Class II and Class III diagnosis and treatment planning

Functional Orthopedics:

- history
- twin block treatment

- construction bite fabrication for functional appliances
 - facial mask

Fixed class II Correctors

Elastics

Extraction decision in Class II and Class III cases

Facial mask therapy

Bone anchorage devices

- topjet
- mentoplate
- bollard

Homework evaluation

Case reports

PRACTICAL EXERCISES:

- intermaxillary springs
- bone anchorage devices
- 3D planning of palatal anchorage screws

14-15 MARCH 2025

CROSS BITE, OPEN BITE, DEEP BITE, IMPACTION

Etiology, diagnosis and treatment

Palatal transverse expansion:

- WALA ridge
- hybrid RPE

Habits:

- dental and skeletal effects
- Treatment options

Deep bite

- differential diagnosis
- treatment options

Open Bite

- differential diagnosis
- treatment options

Impaction

- diagnosis
- treatment options

Homework evaluation

Case reports

PRACTICAL EXERCISES:

- intrusion wire
- digital 3 D model measurements
- lever arm construction for impacted teeth

FINISHING, SMILE DESIGN AND RETENTION

Final adjustments for optimal occlusion,
overbite and interdigitation
Overcorrection: Yes or no
Interproximal enamel reduction
Retention problems: The relapse tendency

Retainer types and application
Smile design
Wisdom teeth
Homework evaluation
Case reports

PRACTICAL EXERCISES:

Finishing wire bends

FINAL EXAM:

Every course participant becomes an orthodontic case
for digital 3D treatment planning

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WHEN YOU SET
OUT TO TAKE
VIENNA, TAKE
VIENNA.

NAPOLEON BONAPARTE

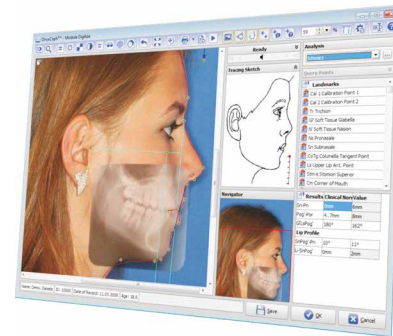
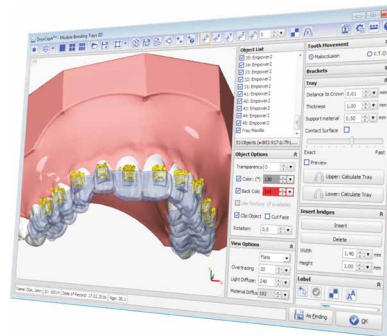
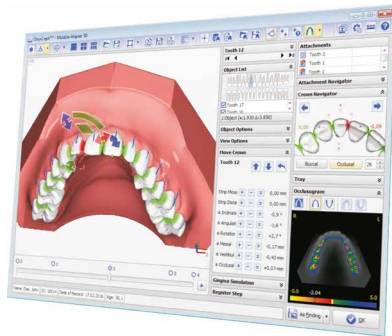
U2

Karlsplatz



SUGGESTED ACCOMMODATION

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|-------------------------------|-------------------------------------|-------------|
| Hilton (Wien Mitte) | Am Stadtpark 1, 1030 Vienna | +43171700 |
| Steigenberger Hotel Herrenhof | Herrengasse 10, 1010 Vienna | +431534040 |
| NH Hotel Atterseehaus | Mariahilfer Strasse 78, 1070 Vienna | +4315245600 |
| Motel One Westbahnhof | Europaplatz 3, 1115 Vienna | +431359350 |
| Spieß und Spieß | Hainburger Strasse 19, 1030 Vienna | +4317148505 |



COURSE COST: 12 100 EUR

MAXIMUM PARTICIPANTS: 24



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