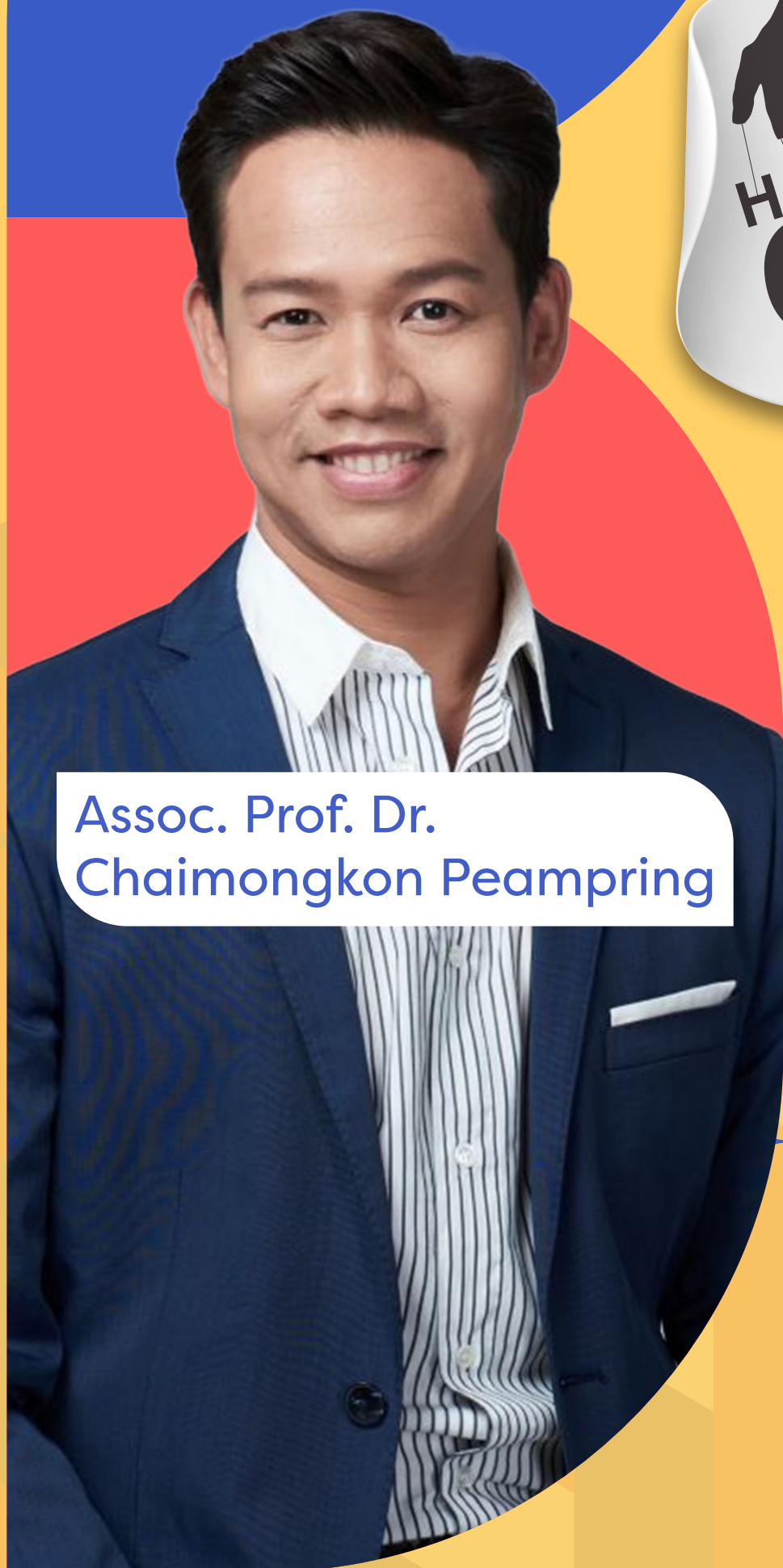




SCAN | DESIGN | PRINT



Assoc. Prof. Dr.
Chaimongkon Peampring

24 - 26 September 2026

PRACTICAL DIGITAL COMPLETE DENTURES

Master the 3D Printing Workflow
from Scan to Delivery

COURSE LEARNING OBJECTIVES

By the end of this course, participants will be able to:

1. Understanding different impression protocol or data acquisition for digital CD.
2. Differentiate between subtractive (milling) and additive (3D printing) manufacturing for complete dentures.
3. Execute accurate intraoral scanning protocols for edentulous arches and existing prostheses.
4. Navigate CAD software to design a practical base-and-tooth bonded denture.
5. Calibrate 3D printers and select appropriate biocompatible resins for longterm clinical use.
6. Perform post-processing techniques, including washing, curing, and characterization (staining) for high-level esthetics.



Assoc. Prof. Dr.
Chaimongkon Peampring

Assoc. Prof. Dr. Chaimongkon Peampring is a distinguished prosthodontist with extensive academic training and leadership experience in restorative dentistry. He obtained his Doctor of Dental Surgery (DDS) from Prince of Songkla University, Thailand, and pursued advanced specialization at Boston University, USA, where he completed both a Certificate of Advanced Graduate Study (CAGS) and a Doctor of Sciences in Dentistry (DScD) in Prosthodontics. He is also a Diplomate of the Thai Board of Prosthodontics under the Royal College of Dental Surgeons of Thailand.

Currently, Dr. Peampring serves as the Department Chair of Prosthetic Dentistry at Prince of Songkla University and as the Scientific Chair for the Private Dentist Association of Thailand. With a strong focus on education, research, and clinical excellence, he continues to play a key role in advancing prosthodontics both in academia and professional practice.



LECTURE OUTLINE



I. Fundamental of Complete Denture

Anatomical landmark, denture boundary, pressure VS non-pressure impression technique.

II. The Digital Shift: Why 3D Print?

Comparison of clinical outcomes: 3D printed vs. conventional heat-cured dentures.

Material science: Understanding MMA-free resins and their mechanical properties.

The "Copy Denture" vs. "New Denture" workflow.

III. Data Acquisition & Clinical Steps

- Intraoral scanning techniques for the edentulous ridge (The "Mucostatic" Challenge).

Capturing Maxillo-Mandibular Relationship (MMR) using conventional and modified wax rim.

IV. Design & Manufacturing

- Introduction to CAD software (3Shape).
- Nesting and slicing: Orientation strategies to minimize support marks on critical surfaces.
- Post-processing: The critical role of nitrogen-saturated curing for biocompatibility.
- Denture characterization, staining

WORKSHOP ASSIGNMENTS

Task 1 The Digital Impression (Hands-On)

Activity: Participants will use an intraoral scanner on edentulous models and bite registration

Goal: Achieve a "green" scan (full coverage) of the hamular notches and retromolar pads within a 5-minute window.

Task 2 CAD Design Simulation

Activity: Using a provided dataset, participants will:

- Define the denture base periphery.
- Perform a virtual "Trial Placement" (Tooth Arrangement).
- Adjust the occlusion for various schemes.

Task 3 Printing & Post-Processing

Activity: Live demonstration of nesting software.

Goal: Participants will practice removing supports from a pre-printed denture base and perform "wet-bonding" of the teeth to the base using a light-cure resin.

Task 4 Esthetic Characterization

Activity: Applying gingival staining kits to the 3D-printed base.

Goal: Create realistic gingival architecture and transition zones.

TENTATIVE

Day 1

24th September 2026

- 9.00-11.00** Recap denture principle: Anatomical landmark, Impression technique, Denture occlusion (Lecture)
- 11.00-12.30** Digital denture concept (Lecture)
- 12.30-13.30** Lunch
- 13.30-15.00** Live demonstration digital scan on real case scenario
- 15.00-17.00** Hands-on digital scan of edentulous ridge

Day 2

25th September 2026

- 9.00-11.00** Live demonstration of denture design
- 11.00-12.30** Live demonstration of denture fabrication
- 12.30-13.30** Lunch
- 13.30-14.30** Live demonstration of denture finishing
- 14.30-16.00** Post insertion complication

Day 3

26th September 2026

- 9.00-10.00** Live demonstration denture insertion
- 10.00-12.00** Denture characterization and hands-on denture staining
- 12.00-12.30** Certification

COURSE FEE

EARLY BIRD

UNTIL 30TH JUNE

RM **2850**

NORMAL PRICE

RM **3600**

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