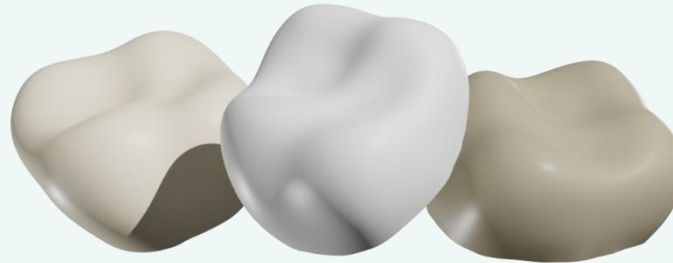


Ultra-Thin personalized PEEK crowns

for caries, MIH-hypomineralized, dentinogenesis imperfecta, and other sensitive cases in teeth

Intermediate Course

2h – online + Hands-on



Dental crowns are fundamental for structural teeth protection, chewing function, face biomechanical function, aesthetics, caries management, sensitivity protection, teeth with structural imperfections and other anomalies' protection and restoration, and... much more.

Filipe Samuel Silva

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Ultra-Thin personalized PEEK crowns - for caries, MIH-Hypomineralized, dentinogenesis imperfecta, and other sensitive cases

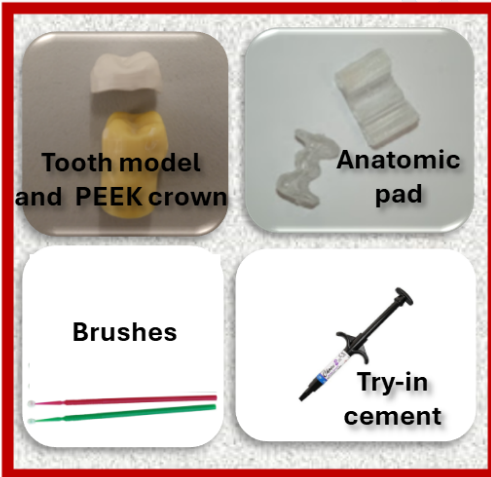
Materials for analysis and hand's-on: PEEK. **Types:** Customized; 2 h course, crowns protocol placement (virtual demonstration and in-situ placement): Price: 150 €/attendant - minimum 20 attendants (includes Small kit/attendant)(see details below). Kit's are sent previously by regular mail.

	Subject	Content	Theoretical contents	Materials and tests/equipments	Applications
40 min	PEEK crowns vs SS crowns	Theoretical and test results on videos and clinical cases	Test results and videos of: <ol style="list-style-type: none"> 1. Mechanical resistance, Thickness, Perforation (tensile/compression), Wear, Fatigue/Durability, Flexibility, Adhesion, Crown placement, Geometrical fitting, Occlusion with simultaneous several crown's placement; 2. Caries clinical cases crowns placement, MIH clinical cases; 3. Anterior teeth with MicroZr™ crowns clinical cases; 4. Posterior teeth with MicroPk™ crowns clinical cases; 	PowerPoint presentation	Crowns for children. Caries clinical cases crowns placement MIH clinical cases Posterior teeth (MicroPk™ crowns clinical cases) Anterior teeth (MicroZr™ crowns clinical cases)
10 min	The digital flow	Theoretical	Intra-oral scanners – relevant aspects; Important parameters; other aspects to consider on children digital tooth scanning		Crowns for children
20 min		<i>Hands-on</i>		Scanning test on mandible model with intra-oral scanner- online demonstration	Mandible for crowns stl file preparation
30 min	MicroPk™ pediatric protocol	Theoretical	Main suggested applications; The digital protocol and important protocol steps; The Crowns placement protocol; Errors to avoid.		Crowns for children
20 min		<i>Hands-on</i>		Application of crowns on tooth models following the protocol – online demonstration and in-situ local application	

Small Kit

PEEK Personalized Crowns – From ultra-thin to other material choices, Properties and Applications

SMALL Kit and Materials for hands-on virtual training course



Materials included in the personal kit:

1. **Anatomic pads for uniform pressure application on crowns;**
2. **Brushes for cement application**
3. **Tooth model and respective PEEK crown;**
4. **Try-in cement.**



Universidade do Minho
Escola de Engenharia



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Ranked among the 2% of most influential scientists in the world in biomedical materials and processes (Elsevier, Stanford University, USA)(2021, 2022, 2023, 2024)



Published more than 390 research papers indexed to ISI; 130 in dental field; H index: 45; Citations: > 8250; PI of more than 20 research projects (>10M€); > 25 PhD students (7 dental doctors); 5 World patents; R&D with Research Centers, Universities, Dental Clinics, Companies, from EUA, Brasil, Portugal, Netherlands, Finland, Germany, Belgium, Switzerland, Romania, Turkey, Italy, France, Estonia, Austria, Australia, India, ...; CEO of Extreme Materials-Dental Solutions (www.extremater.com);

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