Student should successfully complete 16 Credits courses to fulfill Diploma in Implantology

**Fall**

**IMOS 601-Oral Surgery and Implantology I**
(2Cr: 1Lec, 3Prac)

History and types of Dental Implants; Biologic Basis of Bone response to implants and the theory of Osseointegration; Applied Anatomy for Dental Implants; Implant Material; Clinical Examination; Diagnostic casts and surgical templates; Cone Beam Computed Tomography; Root Form Surgery; One stage non-loading technique; Temporization and the use of temporary implants; Contemporary Concepts in implant Dentistry: Anti-rotational configuration, Switching Platform, Short Implants.

**IMPE 601-Periodontology and Implantology I**
(2Cr: 1Lec, 3Prac)

Medical evaluation of the dental implant patient; Radiological evaluation of the dental implant patient; Peri-implant tissues in comparison to periodontal tissues; Per-implant microbiology; Diabetes, body weight, cardiovascular diseases and dental implants; Aging, osteoporosis and dental implants; Applied pharmacology for dental implants; Incision designs, Armamentarium and sutures; Surface treatment of dental implants; Soft tissue enhancement around dental implants; Uncovering Procedures and Roll technique for implant esthetics; Biocompatibility in implant dentistry - Bimetallism and corrosion; Computer assisted implant surgery.

**IMPR 601-Prosthodontics and Implantology I**
(2Cr: 1Lec, 3Prac)

Rationale for Dental implants; Prosthetic options in implant dentistry; Implant design; Pre-implant case study; Abutment Selection: prefabricated, customized, metal, ceramic/zirconia, CAD-CAM, cemented or screw-retained, angled or straight; Impressions in implant dentistry. Laboratory procedures; Screw mechanics; Try-in and fixation of components and final restoration; Implant Systems: Overview – Prosthetic components and techniques

**IMPL 695-Seminars in Dental Implantology I**
(2Cr: 2Lec, 0Prac)

Presenting individual cases will allow the students to share the challenges they have to face, and share their mistakes, in the end sharing those experiences will prevent others from making the same mistakes. This course is a discussion moderated by the Implantology unit staff. During this symposium the postdoctoral students will present the cases they are treating in the clinic, where an interdepartmental discussion will lead to a finalized treatment plan. A discussion of new and advanced techniques will be presented to the students in order to tie in what they learned in the didactic course to what they need to apply clinically. Some of the topics that can be discussed are implant placement in the esthetic zone, guided bone regeneration, site development as well restorative options.
Spring

**IMOS 602-Oral Surgery and Implantology II**  
(2Cr: 1Lec, 3Prac)

Immediate loading protocols; Implant Uses in Orthodontics; the use of temporary anchoring Devices; Bone graft materials; Bone graft techniques; Tooth extraction, socket graft and bone regeneration; Pre-maxillary surgery, implant insertion, nasal floor elevation and incisive foramen implants; Maxillary sinus anatomy and pathology; Maxillary sinus graft surgery; Mandibular donor grafts; symphysis and ramus; BRONJ; Piezosurgery use in implant dentistry; Laser use in implant dentistry; Surgical complications.

**IMPE 602-Periodontology and Implantology II**  
(2Cr: 1Lec, 3Prac)

Optimal implant positioning and soft tissue considerations; Inter-implant papilla; Biologic basis and wound healing for soft tissue grafts; Mucogingival procedures around dental implants; Sub-epithelial connective tissue grafts; Membrane types and uses; Dealing with the narrow ridge: expansion procedures; Dealing with the narrow ridge: ridge split procedures; Flap design and management considerations for maxillary implant surgery; Complications in periodontal implant surgeries; Peri-implantitis and its management; Maintenance of dental implants.

**IMPR 602-Prosthodontics and Implantology II**  
(2Cr: 1Lec, 3Prac)

Treatment planning: Distribution of implants, sequence of treatment, temporary prosthesis, revaluation of plan after implant placement, surgeon-restorative dentist relation; Biomechanical considerations with dental implants. Differences between implant and tooth; Esthetic considerations in implant rehabilitations; Implant Prosthesis: Single Tooth Replacement, Partially edentulous restoration, Full edentulous restoration, Removable: Implant overdenture, Fixed Upper and/or lower; Occlusion in implant dentistry: in mixed prosthetic support, full implant-supported prosthesis, implant overdenture. TMD considerations; Prosthetic Complications.

**IMPL 696-Seminars in Dental Implantology II**  
(2Cr: 2Lec, 0Prac)

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