MED.E.A. UNIVERSITY
for Mediterranean, Europe and Africa

CALL FOR APPLICATIONS

ARTICLE 1 – ESTABLISHMENT OF THE MASTER

MED.E.A. University – University for Mediterranean, Europe and Africa hereby announces the Call for Applications for admission to the Master of Science in Surgery – Implant Dentistry for the Academic Year 2026/2027. The programme is designed for dental professionals seeking advanced education in implant dentistry through a combination of academic instruction, clinical training and international experience. The Master adopts a blended learning approach consisting of live online teaching, supervised practical sessions and research activities, enabling participants to develop advanced competencies in contemporary implant dentistry.

ARTICLE 2 – AIMS OF THE PROGRAMME

The Master has been designed to provide advanced postgraduate education in oral implantology, regenerative surgery and implant-supported prosthetic rehabilitation. The programme aims to: provide comprehensive scientific and clinical knowledge in implant dentistry; develop competence in evidence-based diagnosis and treatment planning; train clinicians in advanced implant surgical procedures; develop skills in digital implantology and guided surgery; enhance competence in bone and soft tissue regeneration; strengthen critical thinking through research methodology and scientific writing; promote international collaboration and multidisciplinary clinical practice.

ARTICLE 3 – LEARNING OUTCOMES

Upon successful completion of the Master, graduates will be able to: diagnose implant cases using contemporary clinical protocols; formulate comprehensive treatment plans; perform implant placement using conventional and digital workflows; execute immediate implant placement and immediate loading where clinically indicated; perform hard and soft tissue augmentation procedures; manage sinus augmentation techniques; restore single, partial and full-arch implant rehabilitations; recognise and manage implant complications; Med.e.a University for Mediterranean, Europe and Africa Operated by Pegaso International Ltd. 2, Independence Square, Valletta, VLT1520, Malta Co. Reg. No. C71423 – VAT No. MT23119227 critically evaluate scientific literature; complete, present and defend an original research dissertation

MASTER OF SCIENCE (MS) IN DENTAL IMPLANTOLOGY

- **Academic Weight:** 90 ECTS Credits (2,250 Total Workload Hours)
- **Program Duration:** 14 Months
- **Instructional Format:** Blended Learning (High-Density Online Micro-Learning + Live Clinical Mentoring + In-Person Residential Residencies)

- **Target Audience:** Practicing dental clinicians and oral surgeons looking to master advanced evidence-based surgical and prosthetic implant workflows.

PROGRAM OVERVIEW

The **Master of Science (MS) in Dental Implantology** is an intensive 14-month postgraduate program designed to transition practicing dentists into high-tier implant specialists. Perfectly aligned with the European university standards of the **Bologna Process**, the 90 ECTS curriculum follows a strict, evidence-based roadmap. It bridges the gap between biological tissue mechanics, open-architecture digital engineering, advanced ridge reconstruction, and alternative anchorage workflows for extreme skeletal atrophies.
The structural architecture of the program balances academic depth with clinical flexibility by delivering interactive high-density theory online, regular small-group web sessions with expert tutors, and two extensive, hands-on residential surgery blocks in Chennai (India) and Rome (Italy).

1. **Online Interactive Learning (52 ECTS / 1,300 Hours):** 13 comprehensive, monthly instructional blocks. Each module provides 160 minutes of theory split into 20-minute micro-lessons, 40 minutes of forensic case reviews, 20 minutes of dynamic literature appraisal, and a mandatory 120-minute live, small-group project development session with an assigned Clinical Tutor.
2. **Contact Session I - Chennai Residency (4 ECTS / 100 Hours):** A 5-day intensive surgical block. Includes 40 hours of direct in-person animal jaw labs and human live-feed surgery audits, preceded by 40 hours of focused pre-course anatomical reading, and followed by 20 hours of post-course clinical summary and tutor feedback.
3. **Contact Session II - Rome Residency (4 ECTS / 100 Hours):** The final 5-day clinical block. Features 40 hours of masterclasses on extreme atrophy, 3D printing labs, and the oral board examinations, preceded by 40 hours of intensive board exam prep, and followed by 20 hours of terminal portfolio audit and publishing mentoring.
4. **Clinical Logbook & Case Documentation (15 ECTS / 375 Hours):** Independent, supervised clinical field application where the student documents a minimum of 10 fully tracked implant surgeries within their private practice.
5. **Master's Thesis & Research Project (15 ECTS / 375 Hours):** A mandatory, original scientific manuscript (Systematic Review, Case Series, or Controlled Trial) following strict scientific formatting, monitored across four distinct academic milestones.

MONTH 1: Foundations of Implant Biology & Premium Macro-Geometry (4 ECTS)

- **Faculty:** LANDI (Italy)
- **Description:** Covers the baseline interfaces of digital postgraduate learning alongside the physics of premium macro-geometries. Students evaluate fully tapered active thread

pitches vs. parallel arrays, deep conics, and bone loading strain vectors. Topics analyze the molecular cascades of cortical vs. cancellous bone healing, angiogenesis timelines, and the biological curved transition between primary mechanical grip and secondary osteointegration.

MONTH 2: Advanced 3D Diagnostics, Data Merging & Risk Mitigation (4 ECTS)

- **Faculty:** International Diagnostics Team (India)
- **Description:** Advanced radiology, CBCT troubleshooting, metal artifact reduction, and precise anatomical tracking of the inferior alveolar nerve loop. Focuses on clinical risk stratification for medically compromised patients (diabetic protocols, antiresorptive MRONJ margins, anticoagulant adjustments), cross-polarized dental photography layouts, bulletproof informed consents, and legal multi-language documentation rules.

MONTH 3: Open-Source Digital Planning & Photogrammetry Workflow (4 ECTS)

- **Faculty:** Digital Dentistry Team (India)
- **Description:** Computational matching physics between volumetric patient datasets (DICOM) and surface intraoral scans (STL/OBJ). Teaches open-source custom surgical template design, sleeveless guide drill calculation, horizontal anchor pin physics, AI density mapping, crown-down positioning algorithms, and the comparative capture speed of instant photogrammetry arrays for multi-implant passivity.

MONTH 4: Atraumatic Tissue Physics & Power-Driven Osteotomies (4 ECTS)

- **Faculty:** Microsurgical Faculty (India)
- **Description:** Surgical field economics and assistant triangulation. Focuses on papilla-sparing incisions, split-thickness flap geometry, tension-free periosteal releasing cuts, and multi-rooted tooth sectioning mechanics. Compares the bone healing physics of rotante drills against piezoelectric ultrasonic bone cutting and kinetic osteotome ridge expansion via the Magnetic Mallet.

MONTH 5: [Contact Session I – Chennai Residency Block (4 ECTS)]

- *See full residency description below.*

MONTH 6: Aesthetic Implantology & Immediate Digital Temporization (4 ECTS)

- **Faculty:** LANDI (Italy)
- **Description:** Strict diagnostic criteria for Type-1 immediate post-extraction placement. Focuses on palatal wall bone engagement parameters, jumping distance gap management, dual-zone grafting workflows using xenografts and L-PRF, and custom sub-gengival

provisional design (critical vs. sub-critical emergence contouring). Includes immediate chairside PMMA temporary conversion and static/dynamic occlusal clearance rules.

MONTH 7: Advanced Pneumatization: Predictable Sinus Elevation (4 ECTS)

- **Faculty:** Sinus Surgical Faculty (India)
- **Description:** Pathological screening of the maxillary sinus complex, mucosal thickening, and ostium clearance evaluation. Covers transcrestal hydraulic sinus floor elevation using Densah rotary arrays and liquid systems, alongside lateral window access designs using piezosurgery. Addresses intraoperative rescue tracks for large membrane tears, vascular management of alveolar-antral artery hemorrhages, and graft maturation timelines.

MONTH 8: Next-Gen Prosthetic Interfaces & IOS Scan Mechanics (4 ECTS)

- **Faculty:** Prosthodontic Digital Team (India)
- **Description:** Engineering dynamics of the implant-abutment connection, focusing on friction-fit conics and platform switching mechanics to stop micro-gap bacterial pumping. Examines intraoral scanner optical capture physics, triangulation tessellation, and stitching error avoidance. Outlines standardized paths for edentulous arch scanning, virtual bite registration, and digital articulator calibration.

MONTH 9: Full-Arch Biomechanics & CAD/CAM Material Selection (4 ECTS)

- **Faculty:** SCUTELLÀ (Italy)
- **Description:** Structural passivity across full-arch frameworks. Focuses on Multi-Unit Abutment (MUA) parallel correction vectors, strain-gauge analysis, and implant-protected occlusion design. Teaches posterior cantilever calculation based on the antero-posterior (A-P) spread, digital verification jig workflows, and structural criteria for choosing monolithic multi-layer zirconia vs. resilient polymers (PEEK/PEKK) or titanium-composite hybrids.

MONTH 10: Extreme Atrophy: Anchorage Beyond the Alveolar Ridge (4 ECTS)

- **Faculty:** Advanced Skeletal Faculty (India)
- **Description:** Surgical management of skeletal classes with severe horizontal and vertical ridge loss. Covers deep cortical anchorage vectors using tilted implants, pterygomaxillary plate surgical trajectories avoiding the internal carotid artery, zygomatic extramaxillary tracks (Stella technique / Quad-Zygoma), and CAD design workflows for custom Direct-Metal Laser Sintered (DMLS) titanium subperiosteal frames.

MONTH 11: Peri-Implant Pathology Decontamination & Rescue (4 ECTS)

- **Faculty:** PHILIPP SAHRMAN (Switzerland)
- **Description:** Microscopic analysis of the peri-implant trans-mucosal biological width. Tracks dysbiosis shifts inside the sulcus caused by excess subgingival cement margins or

plaque retentive prosthetic contours. Covers diagnostic staging, laser decontamination physics (Er:YAG/CO2), mechanical air-polishing using erythritol, spazzole in chitosano, and clear clinical pathways dividing surgical resective implantoplasty from guided bone regeneration.

MONTH 12: Clinical Complication Management & Salvage Protocols (4 ECTS)

- **Faculty:** LANDI (Italy)
- **Description:** Medical and structural rescue tracks for emergency failures. Covers inferior alveolar nerve injury pharmacology, macrovascular floor-of-the-mouth hemorrhage management, early integration loss, and acute flap dehiscence with exposed barriers. Teaches mechanical retrieval protocols for broken abutment screws, fractured implant bodies, reverse torque systems, trephine sizing, and the legal-ethical framework of rework cost accounting.

MONTH 13: Advanced Clinical Execution & Full-Arch Workflows (4 ECTS)

- **Faculty:** SCUTELLÀ (Italy)
- **Description:** Terminal execution pipelines for open-architecture digital dentistry. Advanced multi-unit sequencing for non-parallel cross-arch anchors, intermediate provisional-to-final conversion mechanics, and vertical dimension of occlusion (VDO) changes. Teaches the design of custom nightguards and structural cross-checks to clinically confirm absolute prosthetic passivity.

MONTH 14: [Contact Session II – Rome Residency Block (4 ECTS)]

- *See full residency description below.*

IN-PERSON RESIDENCY CHENNAI AND ROME MODULES CATALOG

IN CHENNAI RESIDENCY BLOCK: Advanced Hard & Soft Tissue Reconstruction (4 ECTS)

- **Structure:** 40 Hours In-Person Surgical Labs + 40 Hours Pre-Course Preparatory Study + 20 Hours Post-Course Review.
- **Pre-Course Work:** Comprehensive manual review of PRF centrifugation, GBR tunnel designs, and greater palatine artery surgical anatomy.
- **In-Person Curriculum:** Phlebotomy lab setups to process solid L-PRF and liquid sticky bone. Surgical ridge augmentation drills on animal jaw models using non-resorbable d-PTFE membranes and titanium fixation tacks. Microsurgical harvesting labs for autologous tissue (Free Gingival Grafts and Subepithelial Connective Tissue Grafts). Structural assembly workshops for All-on-4/6 components. Includes live-feed operating room surgical audits and flap complication debriefs.

- **Post-Course Work:** Technical reporting of custom suturing vectors and clinical implementation feedback loops with the tutor.

IT ROME RESIDENCY BLOCK: Digital Full-Arch Prosthodontics & Academic Board Exam (4 ECTS)

- **Structure:** 40 Hours In-Person Masterclasses & Board Exams + 40 Hours Pre-Course Prep + 20 Hours Post-Course Closing Mentorship.
- **Pre-Course Work:** Volumetric scan path mastery, Misch progressive loading data synthesis, and IMRaD slide deck refinement.
- **In-Person Curriculum:** Live-patient optical capture setups, photogrammetry tracking steps, and instant 3D printing of full-arch verification bars. Computerized Digital Smile Design (DSD) labs incorporating facial scan data and phonetic tooth setups. Advanced masterclasses covering extreme atrophy trajectories (zygomatic, pterygoid, and custom subperiosteal frames). Concludes with the official public Master's Thesis Presentation and academic faculty board cross-examination (Viva Voce), followed by the Graduation Ceremony.
- **Post-Course Work:** Final manuscript optimization based on board inputs and 1-on-1 career development profiling.

MANDATORY GRADUATION REQUIREMENTS

To graduate and receive the **Master of Science (MS) in Dental Implantology** degree, students must successfully complete:

- **10 Documented Private Cases:** Submitted through the digital portal containing complete pre-op/post-op CBCT files, 1:1 cross-polarized photography sequences, and reflective diagnostic logs confirming a minimum 1-year functional loading follow-up.
- **Original Research Thesis:** An 8,000 to 10,000-word scientific document (PRISMA systematic review, patient case series, or clinical trial) validated by an automated Turnitin plagiarism check under 15% similarity, defended successfully in person before the International Academic Board in Rome.

To finalize your administrative documentation, please let me know:

- Would you like me to generate the official **Grading Rubric Criteria Matrix** used by the academic board to evaluate the Month 14 Oral Defense in Rome?
- Do you need a **Course Enrollment & Registration Policy Section** specifying the necessary dental licensure and clinical equipment requirements for applicants?
- Should I use the Python environment to compile this complete catalog into a **clean, downloadable Markdown or raw text archive** file?

FINAL ASSESSMENT

To obtain the Master qualification, students must successfully complete:

- all educational activities;
- the clinical portfolio;
- the required assessments;
- the final dissertation;
- the oral defence before the Examination Board.

AWARD OF THE QUALIFICATION

Upon successful completion of all academic requirements, participants shall be awarded the: Master of Science in Surgery – Implant Dentistry issued by MED.E.A. University – University for Mediterranean, Europe and Africa with the award of 90 ECTS credits.

WITHDRAWAL

Students may exercise the right of withdrawal in accordance with the University's regulations and applicable legislation. Withdrawal after the commencement of teaching activities does not exempt students from the obligation to pay the outstanding tuition fees, except where otherwise provided by law or University regulations.

DATA PROTECTION

Personal data shall be processed in accordance with Regulation (EU) 2016/679 (GDPR) and the University's Privacy Policy.

FINAL PROVISIONS

The University reserves the right to amend this Call for Applications where necessary for academic, organisational or regulatory reasons. Any matter not expressly regulated herein shall be governed by the University's Academic Regulations and all applicable institutional policies.

Email: admissions@unimedea.eu

Fees and Financial Structure
to the Memorandum of Understanding between MedEA and Implantree Global Foundation (IGF)

Program title: **Master of Surgery in Implant Dentistry - A.Y. 26-27**

Tuition fee: **€ 9,700 plus € 50** (stamp duty)

Payable in three installments:

1st Installment: €2,425 + €50 stamp duty
2nd Installment: €2,425
3rd Installment: €2,425
4th Installment: €2,425
Thesis Fee: €500