

## MSc in Applied Digital Dentistry & Guided Therapies

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| <b>Program Title</b>           | MSc in Applied Digital Dentistry & Guided Therapies  |
| <b>Institution</b>             | US MetaArees International University – College of Health and Medical Services   |
| <b>Program Orientation</b>     | Academic Master's / Professional Master's  |
| <b>Stacked Structure</b>       | PG Certificate 12 Cr → PG Diploma 24 Cr → Master's 30 Cr   |
| <b>Mode of Study</b>           | Online learning combining synchronous and asynchronous engagement  |
| <b>Applied Support</b>         | Virtual simulation for CBCT-based planning, surgical guide rehearsal, CAD/CAM try-ins, occlusal articulation, and advanced technologies such as VR/haptics where appropriate |
| <b>Language of Instruction</b> | English  |
| <b>Target Backgrounds</b>      | Dentists and dental professionals with relevant clinical or technical interest in digital dentistry and guided therapies   |

### Program Overview

The MSc in Applied Digital Dentistry & Guided Therapies is an advanced postgraduate program that prepares learners to understand, plan, and improve contemporary digital dental workflows. It connects digital acquisition, planning, CAD/CAM design, guided therapies, quality assurance, and service-ready documentation within one coherent academic structure.

### Why is this program modern?

Digital dentistry is evolving rapidly across imaging, guided planning, additive and subtractive manufacturing, and data-driven clinical coordination. This program responds to those shifts by preparing graduates for modern practice environments that increasingly demand digital literacy, auditable workflows, and guided therapeutic planning supported by safe and structured systems.





## What Makes This Program Distinctive

This program is distinctive because it does not treat digital dentistry as isolated software training. Instead, it integrates digital planning, guided therapies, workflow governance, and quality improvement within a single, academically coherent master's structure. It is also strengthened by its stacked design, flexible online format, and simulation-supported learning experience.

## Career and Market Relevance

Graduates may strengthen their readiness for advanced roles connected to digital dental workflows, CAD/CAM-supported planning, guided therapies, quality and documentation systems, education, and service development. The program also aligns with growing market demand for professionals who can work confidently across digital acquisition, planning, quality assurance, and multidisciplinary communication.

## Award Structure and Credit Hours

The program follows a flexible stacked-award structure that allows staged academic progression through recognized postgraduate milestones.

- Postgraduate Certificate: 12 credit hours
- Postgraduate Diploma: 24 credit hours in total
- Master's Degree: 30 credit hours in total
- Final pathways: Academic Master's (Thesis) or Professional Master's (Capstone)

## The Value of the Stacked Pathway

The stacked model allows students to progress step by step through academically connected qualifications. This gives learners recognized milestone awards, supports flexibility for working professionals, and creates a clear progression route toward the full master's degree without reducing the value of each completed stage.

## Learning Model and Educational Experience

The program is delivered through an advanced online model that combines asynchronous learning with structured synchronous academic engagement. Students benefit from guided self-paced study, digital learning materials, regular faculty feedback, and live or recorded academic support where appropriate.



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## Simulation and Advanced Educational Technologies

The learning experience is supported by advanced educational technologies such as virtual simulation, CBCT-based planning rehearsal, CAD/CAM try-ins, occlusal QA activities, guided therapy planning drills, and, where appropriate, immersive tools including VR or haptics. These approaches strengthen applied readiness and support safe, modern digital-dentistry learning.

## Program Orientation

The program can be presented with both academic and professional orientation, allowing students to complete either an academic route based on a thesis or a professional route based on an applied capstone, in line with the approved program structure and university policies.

## What Students Learn

Students develop advanced understanding in digital dental workflows, imaging and data governance, CAD/CAM design logic, guided therapy planning, quality dashboards, implementation planning, and applied research methods, together with a practical appreciation of documentation, safety, and service improvement.

## What Graduates Gain

- Advanced understanding of contemporary digital dentistry and guided-therapy workflows.
- Stronger ability to justify design, planning, and manufacturing choices using structured reasoning.
- Practical experience with simulation-supported, quality-oriented digital learning tasks.
- Improved readiness for service development, implementation, education, and multidisciplinary digital practice.
- Preparation for further academic progression and professionally oriented postgraduate development.

## Who Can Apply

This program is intended for applicants whose prior academic background provides an appropriate foundation for advanced study in the field. Priority is typically given to applicants from dentistry or closely related oral-health and digital-dental backgrounds, while selected interdisciplinary or technical backgrounds may also be considered based on academic fit.

- Dentistry
- Dental technology





- Oral health sciences
- Relevant dental laboratory or prosthetic backgrounds
- Selected biomedical, health, or technical backgrounds subject to academic review

## Admission Suitability

Because this is an advanced postgraduate program, admission suitability is evaluated not only on the basis of holding a bachelor's degree, but also on the relevance of the applicant's previous academic preparation, disciplinary fit, and readiness for the level and orientation of study. Some applicants may therefore require additional academic review before final admission decisions are made.



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