



**MOM
IVF**
A New Ray Of Hope



CHAITANYA UNIVERSITY
Himayatnagar, Hyderabad



CHAITANYA
(DEEMED TO BE UNIVERSITY)

Declared u/s 3 of UGC Act, 1956 by MHRD, Government of India

**Post-Graduation
MSc - Clinical Embryology**
(Specialization in ART)

Post-Graduation MSc - Clinical Embryology with Specialization of Assisted Reproductive Technology

This comprehensive two-year (Four Semester) Postgraduate Program, affiliated with Chaitanya University - Hyderabad, offers an in-depth academic and practical curriculum spread across four semesters. The program is designed to align with international standards, UGC regulations, the National Education Policy, and the ART Act of 2021.

Students receive extensive theoretical knowledge along with practical and clinical training in Assisted Reproductive Technology (ART). A key highlight of the program is the intensive, hands-on experience in IVF laboratory procedures, equipping students with the skills required for real-world application.

In addition to coursework, students participate in workshops, seminars, and conferences, offering valuable opportunities to interact with industry experts and expand their understanding of current advancements in ART.

Project work integrated into the curriculum provides real-time exposure to IVF lab environments. This MSc program is structured to prepare students for successful careers in clinical embryology and ART, as well as for research roles in reproductive sciences.

Graduates are also encouraged to pursue doctoral studies at the ,**Mom IVF and Research Centre** further advancing their academic and professional development



— MSc Course Outline —

The MSc program spans two years and is divided into four comprehensive semesters, each designed to provide a balanced blend of theoretical knowledge and practical training in Clinical Embryology and Assisted Reproductive Technology (ART).

In Semester 1, students are introduced to foundational subjects including Cell Biology and Physiology, Basic Human Reproductive Biology and Endocrinology, along with practical training in Andrology and Biochemistry Laboratory Techniques.

Semester 2, focuses on expanding clinical and technological understanding with modules such as Genetics and Reproductive Technology, Clinical Aspects of IVF, Assisted Reproductive Techniques, and ART Laboratory Instrumentation.

Moving into Semester 3, students delve into advanced topics including Human Genetics and Embryo Culture Systems, Infertility Counselling and Ethics, Micromanipulation Techniques, and Cryobiology Techniques, which are crucial for hands-on embryology practice.

In Semester 4, the curriculum covers Preimplantation Genetic Testing (PGT) and an Introduction to Bioinformatics, Quality Control and Risk Management in ART, as well as legal and regulatory aspects through modules on ART and Surrogacy Law. Research Methodology and Biostatistics are also included to strengthen students' research capabilities. This final semester is extended to allow sufficient time for the completion of a high-quality laboratory-based research project, giving students the opportunity to apply their skills in a real IVF lab setting.



MSc Course Outline

Academic Excellence in Reproductive Science

Builds a comprehensive foundation in reproductive biology, embryology, infertility, and ART through a blend of core theory and applied science.

Practical Mastery in ART Techniques

Offers Immersive, Hands-on Training in Advanced Lab Techniques such as ICSI, gamete Micromanipulation, and Pgt.

Real-World Exposure Through Clinical Collaboration

Provides valuable clinical insight through partnerships with top IVF clinics, ensuring realworld application of academic knowledge.

Learn from Leaders in the Field

Gain mentor-ship and instruction from globally recognized faculty and industry professionals with extensive ART expertise.

A Multidisciplinary Learning Experience

Combines knowledge from genetics, endocrinology, embryology, and more, offering a holistic perspective on reproductive science.

Research-Driven Learning Environment

Access cutting-edge laboratories and resources to conduct meaningful research and pursue higher academic goals, including PhD opportunities.



MSc Eligibility Criteria

BSC-NURSING, Bsc, MSc, BVSC, MVSC, BAMS, MBBS, MD, MS, DNB FNB & MRCOG BHMS, B-PHARMACY, D-PHARMACY, BE-BIOTECHNOLOGY, Biomedical Sciences, Molecular Biology, Microbiology, Biochemistry, Physiology, Genetics, Molecular Medicine, Chemistry, BMLT, BDS, ALL LIFE SCIENCE DEGREES



MSc Admission Process

Students with $\geq 55\%$ of marks in graduation in any branch of life science or MBBS.



— **Message from** —

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