

BLISS ACADEMY  
FOR CLINICAL EMBRYOLOGY  
TRAINING (BACET)



# Objective of Clinical Embryology

To provide accurate, accessible, and up-to-date information on clinical embryology, helping patients, students, and professionals understand the science of human reproduction, assisted reproductive technologies (ART), embryo development, and laboratory practices. The content aims to educate users on the role of clinical embryologists in fertility treatments, promote awareness of advanced reproductive techniques, and support informed decision-making in reproductive healthcare.

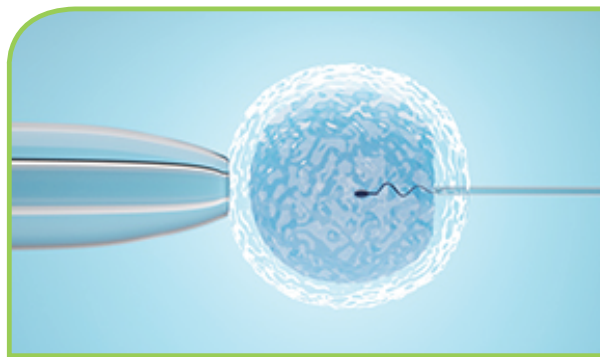


## What You Will Learn in Clinical Embryology

Gain in-depth knowledge and hands-on skills in human reproductive biology, assisted reproductive technologies (ART), IVF lab techniques, gamete and embryo handling, cryopreservation, and embryo culture. Learn to apply cutting-edge methods in fertility treatments while understanding ethical, legal, and clinical aspects of embryology practice

## Course outline

The Clinical Embryology course offers comprehensive training in human embryology and assisted reproductive technology (ART). Combining theory with hands-on lab experience, it prepares students to work independently in modern IVF labs. The program covers ethical, legal, and clinical aspects of fertility treatment, with practical training in IUI, IVF, oocyte handling, embryo assessment, cryopreservation, and IVF lab setup. Students also gain essential knowledge in embryology and andrology.



## Excellence in the Study of Reproductive Science

Provides a solid foundation in reproductive biology, embryology, infertility, and assisted reproductive technology (ART) through a balanced integration of theoretical knowledge and practical application.



## Clinical Skill Development in Assisted Reproductive Technology

Equips learners with hands-on expertise in advanced procedures like ICSI, gamete micromanipulation, and preimplantation genetic testing



## AN INTERDISCIPLINARY EDUCATIONAL EXPERIENCE

Integrates knowledge from genetics, endocrinology, embryology, and other fields to provide a comprehensive understanding of reproductive science.



## STEP INTO THE REAL WORLD WITH CLINICAL TRAINING OPPORTUNITIES

Gains valuable clinical insights through collaborations with leading IVF clinics, bridging academic knowledge with real-world practice.



## LEARN FROM PIONEERS IN THE FIELD

Receive mentorship and guidance from globally recognized faculty and industry experts with extensive expertise in ART

## Sem 1

### **DSC-1**

cell biology & molecular techniques with proteomics & metabolomics

### **DSC-2**

Human Reproductive Biology

### **SEC-1**

Andrology Lab Techniques & Cryobiology

## Sem 2

### **DSC-3**

Assisted Reproductive Technology (ART-1)

### **DSC-4**

Endocrinology & Developmental Biology'

### **SEC-2**

Genetics and Preimplantation Genetic Diagnosis (PGD)

## Sem 3

### **DSC-5**

Assisted Reproductive Technology (ART-2)

### **DSC-6**

Infertility Counselling & Ethical Regulations

### **SEC-3**

Oocyte & Embryology Lab Techniques

## Sem 4

**Internship / Dissertation**



# APPLIED SKILLS

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graph LR; A[APPLIED SKILLS] --- B[Semen Collection and Analysis]; A --- C[CASA (Computer Assisted Semen Analysis)]; A --- D[Sperm DNA fragmentation Analysis]; A --- E[Sperm Preparation Techniques]; A --- F[Testicular Sperm Extraction (TESE) Processing]; A --- G[Hands-on training in gamete handling]; A --- H[Embryo Culture and Development Monitoring]; A --- I[cryopreservation]; A --- J[Micromanipulation Skills]; A --- K[Embryo Biopsy]; A --- L[Quality Control and Laboratory Maintenance]; A --- M[clinical and ethical standards]; A --- N[Documentation & Record-Keeping]; A --- O[evaluation of embryo quality];
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Semen Collection and Analysis

CASA (Computer Assisted Semen Analysis)

Sperm DNA fragmentation Analysis

Sperm Preparation Techniques

Testicular Sperm Extraction (TESE) Processing

Hands-on training in gamete handling

Embryo Culture and Development Monitoring

cryopreservation

Micromanipulation Skills

Embryo Biopsy

Quality Control and Laboratory Maintenance

clinical and ethical standards

Documentation & Record-Keeping

evaluation of embryo quality

## Eligibility criteria

Bachelor's Degree (NCrF Credit Level 5.5 or equivalent) in any Branch of Biological Sciences, Pharmacy or Medicines (M.B.B.S. / B.A.M.S. / B.H.M.S / B.D.S.) The candidate who has passed eligibility exams in equivalent subjects other than mentioned above need to avail eligibility certificate for this programme from the Board of Equivalence (BoE) of Faculty of Science at the Sarvajanik University

Fee structure	Duration	Intake
2,10,000	2 Years (4 semester)	15 Seats

## Career opportunities

- ▶ *Clinical Embryologist & Andrologist*
- ▶ *Reproductive Biologist*
- ▶ *Educator or Trainer*
- ▶ *Sales & Technical Support Specialist*
- ▶ *Lab Managers*
- ▶ *Geneticists*
- ▶ *IVF lab Director*
- ▶ *Research Scientist*



## COURSE DIRECTOR



DR. PANKAJ CHAKLASHIYA  
(IVF SPECIALIST) - MS



DR. BHAVESH HIRAPARA  
(IVF SPECIALIST) - MD



MRS. DAXA CHAKLASHIYA  
(CHIEF EMBRYOLOGIST)



MR. DONAL DOMINIC  
(SENIOR EMBRYOLOGIST)



### SURAT

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Nr Ring Road, Opp Apple Maitreya Hospital,  
Udhna Darwaja, Surat.

**BRANCHES :** VADODARA, RAJKOT, VALSAD, BHAVNAGAR, JAMNAGAR, NANDURBAR

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