

Sr no.	Name of course	Duration (Days)	Course Fees + (18%GST applicable)
Short Courses			
1	Basic course in Semenology	2	
2	Course in andrology and IVF laboratory set up	2	
3	Basic course in infertility management in ART	2	
4	Course in sperm preparation techniques in ART (IUI, IVF, ICSI)	2	
Advance courses			
1	Basic course in advanced andrology techniques	5	
2	Course in Infertility and clinical management (Stimulation protocols and follicular monitoring)and Introduction to ART lab	5	
3	Advance course in Intra Cytoplasmic Sperm Injection(ICSI) procedure	5	
4	Advance course in In-vitro Fertilization (IVF) procedures	5	
5	Certificate course in ART	7	
6	Course in basic ART techniques	5	
7	Advanced course in TESA,PESA & MESA	2	
8	Certificate course in Cryopreservation techniques in ART	3	
9	Hands on course in Assisted reproduction (IVF & ICSI)	15	

Eligibility

These courses are available to Post Graduates in Medicines, Post Graduates in life Sciences.

1. M.S. / M.D. (Republic of India and MCI accredited) – Gynaecology, Anatomy, Physiology, Pathology, Microbiology.
2. Post Graduates in Biochemistry, Microbiology, Zoology, Botany, Biotechnology, etc.
3. Possession of Foreign Qualification (M.D. in Gynaecology, Post Graduates in Basic Sciences) which enables the student to practice in any form of medical practice in his country/ departments as per Association of Indian University Rules.

Mode of Payment:

Candidate can pay the fee through cheque or NEFT after sending the confirmation mail for the particular course he/she is interested to pursue.

Candidates are also required to send the scanned copies of original documents before joining the course.

Short courses

1. Basic course in Semenology

Objectives

This course aims at providing basic knowledge in Semenology.

Course Duration

2 Days

Course Structure (Hands on and Lectures)

1. Laboratory set up
2. Equipments
3. Semen analysis(WHO criteria)
4. Media Handling
5. Semen collection , delivery and method of collection
6. Macroscopic examination of semen
7. Microscopic examination for count and motility
8. Sperm preparation techniques
9. Advanced tests like hypo osmotic swelling test, Morphology and vital staining & Fructose estimation,Cryopreservation of sperm.
10. CASA(Computer assisted semen analysis)

2. Course in andrology and IVF laboratory set up

Objectives

To provide a guidance for setting up ART labs for beginners

Course Duration

2 Days

Course Structure(Hands on and Lectures)

1. Set up of lab
2. Tour to IVF and andrology laboratory
3. Introduction to all lab equipments
4. Quality assurance, Quality control, Quality management(QA, QC, QM)
5. Record Keeping solution
6. Equipment maintenance
7. Calibration of Equipments
8. Lab maintenance protocol
9. How to establish and equip an IVF lab
10. QA and AC for IVF lab
11. Introduction and maintenance of all instruments in IVF lab
12. QA and QC practices
13. Precision of IVF procedure
14. Designing of IVF lab and its techniques
15. Quality improvement
16. location in the clinic
17. Trouble shooting and its solution

3. Basic course in infertility management in ART (Clinicians)

Objectives

A comprehensive course which involves basic endocrinology sciences, stimulation protocols for IUI, detailed use of stimulation drugs, and semen processing. The trainees will be given hands on training on follicular scans, IUI and patient counselling. This is targeted at clinicians who would want to venture into reproductive medicine.

Course Duration

2 Days

Course Structure(Hands on and Lectures)

Interactive sessions on

1. Patient evaluation in OPD section
2. Patient history
3. Medications
4. Lifestyle management and diet protocols
5. Physiology of Ovulation patients
6. Investigating male and female
7. Folliculogenesis
8. Physiology of Menses
9. Ultrasound
10. Hormonal control of human
11. Elderly Patients
12. Natural Cycle
13. Miscarriage
14. Various stimulation protocols
15. Ectopic Pregnancies
16. Ovarian Hyper stimulation syndrome(OHSS)
17. Multiple Gestation Infertility and its management
18. Complication of stimulation
19. Heterotrophic Pregnancies
20. Monitoring of patients
21. Oocyte Donation Programmed Reproductive function and causes of subfertility
22. Surrogacy

4. Course in sperm preparation techniques in ART (IUI, IVF, ICSI)

Objectives

This course aims at providing basic knowledge in **sperm preparation techniques in ART**. Guided hands on will aid the candidate to understand and confidently perform all the techniques.

Course Duration

2 Days

Course Structure(Hands on and Lectures)

Sperm preparation techniques

1. Single layer
2. Swim up
3. Density gradient
4. Triple layer technique
5. Under oil or Swim-out technique
6. Testicular biopsy sperm separation
7. Donor Frozen Sperm separation techniques
8. Sperm selection under IMSI(Intra morphologically selected sperm injection)
9. Sperm preparation techniques for CASA(DNA fragmentation test and Morphology staining, vitality)

Advance courses

1. Basic course in advanced andrology techniques

Objective

This course aims at providing all advanced techniques in Andrology

Course Duration

5 Days

Course Structure(Hands on and Lectures)

Interactive sessions and hands on training in

1. Lab Set-up for andrology
2. Semen analysis
3. Sperm morphology assessment
4. Sperm survival test
5. Grading of Sperms
6. Sperm preparation for IUI
7. Sperm preparation for IVF
8. Standard Method &Density Gradient Method
9. Semen cryopreservation-both neat and processed samples Sperm freezing
10. Donor Sperm preparation techniques
11. CASA(Computer assisted semen analysis)
12. Sperm function tests
 - i. Morphology Staining
 - ii. Vitality staining
 - iii. Hypo-osmotic swelling test (HOS test)
 - iv. Reactive Oxygen Species (ROS)
 - v. DNA Fragmentation Test
13. Andrology lab maintenance
14. Record keeping
15. Consents of patients according to ICMR and PCPNDT guidelines

2. Course in Infertility and clinical management (Stimulation protocols and follicular monitoring) and Introduction to ART lab

Objectives

- To provide an unique opportunity to observe various treatment procedures in ART.
- It provides a good platform for beginners in ART to observe all about stimulation protocols, folliculometry& IUI , IVF and ICSI procedures

Course Duration

5 Days

Course Structure(Hands on and Lectures)

Observation and interactive sessions on

1. Patient selection
2. Stimulation protocol
3. Follicular study
4. Oocyte retrieval procedure
5. Sperm preparation techniques
6. Oocyte screening under microscope
7. IVF and ICSI Procedure
8. Embryo grading and selection
9. Embryo loading
10. Embryo transfer under sonography guided
11. Cryopreservation of embryos
12. lab maintenance
13. Record keeping
14. Consents of patients according to ICMR and PCPNDT guidelines
15. Quality assurance, Quality control, Quality management(QA, QC, QM)

3. Advance course in Intra Cytoplasmic Sperm Injection(ICSI) procedure

Objectives

To provide comprehensive hands-on training on a one-one basis in all techniques of ICSI.

Course Duration

5Days

Course Structure(Hands on and Lectures)

1. Historical aspect
2. Indication for ICSI Procedure
3. Philosophy of ICSI
4. Introduction to micromanipulator
5. Physics of micromanipulation
6. Various equipment to Perform ICSI
7. Sperm immobilization
8. Selection of sperm
9. Preparation of sperm for ICSI From ejaculates and testicular Biopsies
10. Various Medias required to Perform ICSI Dishes preparation for ICSI
11. Denuding of oocytes
12. Micropipette Handling
13. ICSI Procedure
14. Indication and contraindication of ICSI
15. Obstructive azoospermia and ICSI
16. PESA, TESA, MESA and ICSI
17. Risk of anomalies in ICSI
18. Intracytoplasmic morphologically selected sperm injection
19. Identification of abnormal sperm
20. Identification of immature sperm
21. Sperm separation from testicular Biopsy
22. Identification of spermatids, Spermatocytes and other cells
23. Assessment of Fertilization
24. Patient Counseling

4. Advance course in In-vitro Fertilization (IVF) procedures

Objectives

- To provide each trainee an opportunity to have a complete learning experience.
- Faculty will work one-on-one with trainees throughout the course, providing a total overview and continuous assessment.
- Targeted at the beginner as well as experienced embryologist, the course aims to refresh his or her skills further in the field of IVF

Course Duration

5 Days

Course Structure(Hands on and Lectures)

1. Introduction to lab
2. Lab ethics
3. Aseptic Precaution
4. Introduction to instruments
5. Handling of instruments
6. Sperm preparation techniques
7. Insemination technique
8. Identification of oocyte
9. Grading of oocyte
10. Insemination of oocyte
11. Denuding
12. Ferti-check on day 1
13. Classification of 2PN
14. Growth of embryo on day 2
15. Shifting of embryos
16. Quality of embryo on day
17. Grading of blastocyst
18. Selection of blastocyst forembryotransfer
19. Vitrification of blastocyst
20. Vitrification of cleaving embryos
21. Retrieval of vitrified embryos

5. Certificate course in ART

Objectives

- To understand the basic knowledge of assisted reproductive technology
- To be able to explain to patients and their families regarding the different aspect of assisted reproductive technology
- To enable the candidate to handle the state-of-art equipment, its proper use and care
- To have the basic skills customized for the candidate to suit their specific needs
- To know the indications, contraindication, complications of different techniques of ART
- To have enough skill for starting their own practice of assisted reproductive technology

Course Duration

7 Days

Course Structure(Hands on and Lectures)

1. Introduction to ART
2. Infertility and its clinical management
3. Introduction to Andrology
4. IVF procedure:
5. Intracytoplasmic sperm injection (ICSI)
6. Cryopreservation
7. QC, QA and Record keeping in ART

6. Course in basic clinical ART techniques

Objectives

- To understand the basic knowledge of assisted reproductive technology
- To be able to explain to patients and their families regarding the different aspect of assisted reproductive technology
- To enable the candidate to handle the state-of-art equipment, its proper use and care
- To have the basic skills customized for the candidate to suit their specific needs
- To know the indications, contraindication, complications of different techniques of ART
- To have enough skill for starting their own practice of assisted reproductive technology

Eligibility: MD Gynecologists

Course Duration

5 Days

Course Structure(Hands on and Lectures)

1. Infertility management
2. Follicular study
3. Stimulation protocols
4. Ovum pick up procedure
5. Sperm preparation techniques
6. Oocyte screening under microscope
7. IVF and ICSI Procedure
8. Embryo grading and selection
9. Embryo loading
10. Embryo transfer under sonography guided
11. Cryopreservation of embryos
12. PESA, TESA, MESA sperm aspiration techniques

7. Advanced course in TESA,PESA & MESA

Objectives

To provide an unique opportunity to observe various treatment procedures in **TESA,PESA& MESA**.

Course Duration(Criteria according to availability of patients)

2 Days

Course Structure(Observation and Lectures)

Testicular epididymal sperm aspiration (TESA) technique

Percutaneous epididymal sperm aspiration (PESA) technique

Microsurgical epididymal sperm aspiration (MESA) technique

1. Patients counseling
2. Sperm separation techniques in TESA, PESA, MESA
3. Sperm selection for ICSI and IMSI procedure by injection needle.
4. Cryopreservation techniques for aspirated sperms
5. Record keeping and consents.

8. Certificate course in Cryopreservation techniques in ART

Objectives

Embryo cryopreservation is useful for leftover embryos after a cycle of in vitro fertilisation, as patients who fail to conceive may become pregnant using such embryos without having to go through a full IVF cycle. Or, if pregnancy occurred, they could return later for another pregnancy. Spare oocytes or embryos resulting from fertility treatments may be used for oocyte donation or embryo donation to another woman or couple, and embryos may be created, frozen and stored specifically for transfer and donation by using donor eggs and sperm

Course Duration

3Days

Course Structure(Hands on and Lectures)

1. Sperm Cryopreservation technique
 - a) Slow freezing
 - b) Vitrification
2. Oocytes cryopreservation techniques
 - a) Open system
 - b) Closed system
3. Embryo cryopreservation techniques
Day 3 and day 5 (blastocysts)
4. Oocytes and Embryos Thawing Techniques
5. Record keeping of freezed embryos
6. Maintenance of cryocans
7. Ethics and consents

9. Certificate course in Assisted reproductive techniques (IVF & ICSI) (embryologist)

Objectives

This course provides comprehensive hands-on training in all fields of ART (IUI, IVF and ICSI). Targeted at the beginner as well as experienced embryologist, the course aims to refresh his or her skills further in the field of ART.

Course Duration

15 Days

Course Structure (Hands on and Lectures)

1. Introduction to lab
2. Lab ethics
3. Aseptic Precaution
4. Introduction to instruments
5. Handling of instruments
6. Sperm preparation techniques
7. Insemination technique
8. Identification of oocyte
9. Grading of oocyte
10. Insemination of oocyte
11. Denuding
12. Ferti-check on day 1
13. Classification of 2PN
14. Growth of embryo on day 2
15. Shifting of embryos
16. Quality of embryo on day
17. Grading of blastocyst
18. Selection of blastocyst for embryo transfer
19. Vitrification of blastocyst
20. Vitrification of cleaving embryos
21. Retrieval of vitrified embryos
22. Historical aspect
23. Indication for ICSI Procedure
24. Philosophy of ICSI
25. Introduction to micromanipulator
26. Physics of micromanipulation
27. Various equipment to Perform ICSI
28. Sperm immobilization
29. Selection of sperm

30. Preparation of sperm for ICSI From ejaculates and testicular Biopsies
31. Various Medias required to Perform ICSI Dishes preparation for ICSI
32. Denuding of oocytes
33. Micropipette Handling
34. ICSI Procedure
35. Indication and contraindication of ICSI
36. Obstructive azoospermia and ICSI
37. PESA, TESA, MESA and ICSI
38. Risk of anomalies in ICSI
39. Intracytoplasmic morphologically selected sperm injection
40. Identification of abnormal sperm
41. Identification of immature sperm
42. Sperm separation from testicular Biopsy
43. Identification of spermatids, Spermatocytes and other cells
44. Assessment of Fertilization
45. Patient Counseling
46. Cryopreservation Techniques