

Course in  
**Reproductive Endocrinology and IVF  
Technology**

**Step 1: Basics to diagnosis and management of conditions causing infertility**

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**Day-1**

<b>Time</b>	<b>Topic</b>	<b>Faculty</b>
<b>8:30 – 09:00</b>	Registration	
<b>9:00 – 09:30</b>	Pathogenesis & various endocrine problems (PCOS, Hyperprolactinemia, Thyroid disorders)	Dr. Pratap Kumar
<b>09:30 – 10:30</b>	Understanding gamete & embryo biology: <i>relevance to infertility</i>	Dr. Satish Adiga
<b>10:30 – 11:00</b>	Tea & Coffee	
<b>11:00 – 12:00</b>	Anovulation: <i>Classification, diagnosis including polycystic ovarian syndrome</i>	Dr. Pratap Kumar
<b>12:00 – 13:00</b>	Effect of female factors on oocyte quality	Dr. Satish Adiga
<b>13:00 – 14:00</b>	Lunch Break	
<b>14:00 – 15:00</b>	Adipose tissue dysfunction & Polycystic Ovarian Syndrome (PCOS)	Dr. Pratap Kumar
<b>15:00 – 16:00</b>	Basic and advanced tools in laboratory diagnosis of male infertility	Dr. Satish Adiga
<b>16:00 – 17:00</b>	Thyroid disorders & Infertility	Dr. Pratap Kumar

## Day-2

Time	Topic	Faculty
09:00 – 10:00	Role of Anti Mullerian Hormone (AMH) in Infertility	Dr. Pratap Kumar
10:00 – 11:00	Sperm preparation techniques in andrology laboratory and tips to improve IUI success	Dr. Satish Adiga
11:00 – 11:30	Tea & Coffee	
11:30 – 12:30	Ovulation induction: selection, methodology & programming of monitoring in PCOS & non PCOS for IUI	Dr. Pratap Kumar
12:30 – 13:00	Role of Metformin & Insulin sensitizers in PCOS	Dr. Pratap Kumar
13:00 – 14:00	Lunch Break	
14:00 – 15:00	Setting up of andrology laboratory	Dr. Satish Adiga
15:00 – 15:30	Follicular waves & inter cycle FSH	Dr. Pratap Kumar
15:30 – 16:30	Risk management in andrology laboratory	Dr. Satish Adiga
16:30 – 17:00	Other pathologies in PCOS	Dr. Pratap Kumar
17:00 – 17:15	Distribution of Certificates	

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Technology**

**Step 2: Advanced course on Assisted Conception and Assisted Reproductive  
Technology (ART)**

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**Day-3**

<b>Time</b>	<b>Topic</b>	<b>Faculty</b>
<b>8:30 – 9:00</b>	Registration	
<b>9:00 – 9:30</b>	Introduction to ART	Dr. Pratap Kumar
<b>9:30 – 10:30</b>	Clinical understanding of individualized controlled ovarian stimulation for ART	Dr. Pratap Kumar
<b>10:30 – 11:00</b>	Tea & Coffee	
<b>11:00 – 12:00</b>	How to setup an ART laboratory: <i>key issues in designing the facility, equipment &amp; maintenance</i>	Dr. Satish Adiga
<b>12:00 – 12:30</b>	Oocyte retrieval techniques	Dr. Pratap Kumar
<b>12:30 – 13:00</b>	Oocyte assessment, grading, fertilization	Dr. Satish Adiga
<b>13:00 – 14:00</b>	Lunch Break	
<b>14:00 – 15:00</b>	Conventional IVF, Embryo culture, grading & selection for transfer	Dr. Satish Adiga
<b>15:00 – 15:30</b>	Embryo transfer	Dr. Pratap Kumar
<b>15:30 – 16:00</b>	Luteal phase support	Dr. Pratap Kumar

**Step 2: Advanced course on Assisted Conception and Assisted Reproductive Technology (ART)**

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**Day-4**

<b>Time</b>	<b>Topic</b>	<b>Faculty</b>
<b>9:00 – 10:00</b>	Understanding ovarian hyperstimulation syndrome to prevent complications	Dr. Pratap Kumar
<b>10:00 – 11:00</b>	Oocyte & embryo cryopreservation	Dr. Satish Adiga
<b>11:00 – 11:30</b>	Tea & Coffee	
<b>11:30 – 12:30</b>	Luteinizing Hormone (LH) & clinical significance	Dr. Pratap Kumar
<b>12:30 – 13:00</b>	Micro manipulation – including embryo biopsy & laser assisted hatching	Dr. Satish Adiga
<b>13:00 – 14:00</b>	Lunch Break	
<b>14:00 – 15:00</b>	Poor responders – Prediction & management	Dr. Pratap Kumar
<b>15:00 – 16:00</b>	Trouble shooting – Clinical & laboratory Case discussion	Dr. Pratap Kumar / Dr Satish Adiga
<b>16:00 – 16:15</b>	Distribution of Certificates	