

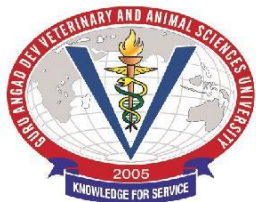
# ICAR CENTRE OF ADVANCED FACULTY TRAINING IN VETERINARY GYNAECOLOGY & REPRODUCTION

26<sup>th</sup> ADVANCED TRAINING COURSE

on

**“The cutting-edge  
technologies to enhance  
fertility in farm animals”**

**November 04 - 24, 2016**



Department of Veterinary  
Gynaecology & Obstetrics,  
College of Veterinary Science,  
Guru Angad Dev Veterinary & Animal  
Sciences University,  
Ludhiana-141004 (Punjab)

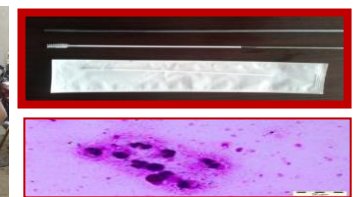
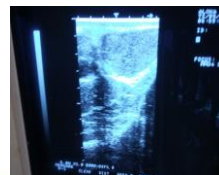
## INVITATION

I on behalf of Faculty of Department of Veterinary Gynaecology and Obstetrics, GADVASU invite the faculty members of the State Agricultural/Veterinary Universities, Veterinary Colleges and ICAR institutes for participation in 26<sup>th</sup> Advance Training Course on “*The cutting-edge technologies to enhance fertility in farm animals*”

Dr. Parkash Singh Brar  
Director, CAFT

## ABOUT THE COURSE

The augmentation of fertility is most important determinant of productive efficiency and is considered critical factor influencing the economic sustainability of livestock farmers. The use of advanced technologies for better fertility management has been proposed during past few decades. Various reproductive technologies viz, artificial insemination (AI), ultrasonography, synchronization protocols for estrus and ovulation, cryopreservation of gametes and embryo, superovulation and embryo transfer, transvaginal ultrasound-guided ovum pickup and have been a part of on-farm livestock reproductive research. Biomarkers for fertility, nuclear magnetic resonance technique, immunohistochemistry for steroid receptors, RIA/ELISA, IVF and IVEP etc. are considered most valuable laboratory techniques in animal reproduction. A progressive consolidation of production of an animal often warrants efficient use of these techniques.



## OBJECTIVES

The focus of conducting this training program is to provide updated knowledge to scientific and teaching community on application of reproductive and allied technologies for better fertility management of farm animals.

## COURSE CONTENTS

- Nuclear magnetic resonance technique and its association with reproduction
- Application of updated ovulation synchronization/FTAI protocols.
- Marker assisted selection to assess future fertility of farm animals
- Recent diagnostic and treatment strategies for endometritis in dairy animals
- Immunohistochemical assessment of steroid receptors
- Superovulation, embryo collection, embryo transfer technology in buffaloes and indigenous cows
- Thermal imaging in relation to bull fertility
- Demonstrations of electro-ejaculation, transvaginal ultrasound guided follicle/cyst aspiration, doppler ultrasound imaging in female bovines, embryo flushing, oocyte aspiration and *in vitro* maturation procedures and laboratory diagnostics for assessing reproductive pathology

## ELIGIBILITY

Applicants having Master's degree in veterinary science and working not below the rank of Assistant Professor or equivalent under State Agricultural Universities/Veterinary Universities /KVKs/ICAR Institutes are eligible to participate in this program.

## DATE & DURATION

**November 04 - 24, 2016 (21 days)**

## LAST DATE TO APPLY

**20-10-2016**

## ABOUT DEPARTMENT

The training is being organized in the Department of Veterinary Gynaecology & Obstetrics (established in 1976), College of Veterinary Science, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana. It is one of the pioneer universities in the field of veterinary science established in April 21, 2006. The department faculty is involved in; a) teaching animal reproduction to undergraduate & postgraduate students, b) carrying research to enhance reproductive efficiency of animals, and c) extending research to dairy farmers. Most of the faculty members have visited foreign countries to avail training programmes or to have higher qualifications. Department has facilities of semen freezing laboratory, *In vitro* fertilization (IVF) laboratory, RIA/ ELISA, Ultrasonography, reproductive surgery and obstetrical manoeuvring. Recognized as 'Centre of Advanced Studies' in 1995 and designated as 'Centre of Advanced Faculty Training' in 'Veterinary Gynaecology & Reproduction' in 2009 by Indian Council of Agricultural Research. The centre has conducted 25 courses

and trained >260 teachers/scientists from State Universities/ICAR institutes. Several renowned national / international scientists have visited to train faculty.

## ABOUT LUDHIANA

City is situated on the banks of Sutlej River and is known as 'Manchester of India'. It is largest city of Punjab and is considered major industrial and education hub of North India. City is known for its bicycles, hosiery and woolen industries.

## WEATHER & TRANSPORT

Climate during November will be pleasant. City is well connected by rail/ road to Delhi (320 km), Amritsar (136 km), Chandigarh (100 km) & Jammu (270 km). The distance from the Ludhiana Railway station and Bus stand to University campus is about 5 km. The University campus is about 20 km away from Ludhiana Air Port (Sahnewal). Local transport and Radio taxi (0161-4141414/3355335, dial 30 min before) can be availed to reach Scientist Home.

## ACCOMMODATION

Accommodation on twin sharing basis will be made in the GADVASU Scientist Home. The participants are requested not to bring any family member with them.

In case of bringing any accompanying person, participant has to bear the boarding and lodging expenses by himself/herself. The Centre will



bear travel expenses of trainees by the shortest route as per their entitlement for class of travel, which however is restricted to the maximum AC II by rail excluding Rajdhani express. The candidates are advised to make their travel reservations well in advance.

## ONLINE INFORMATION

The training information is also available at <http://iasri.res.in/cbp> and online application can also be made by registering on this web portal as candidate.

## COURSE DIRECTOR

**Dr Parkash Singh Brar**

**Professor cum Head**

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## COURSE COORDINATORS

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**Assistant Professor**

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