

e-PAHEL

Promoting **A**ctions on **H**ealth, **E**nvironment and **L**ivelihood

Artificial Insemination Training Institute in Bovine

PARA-VET TRAINING



Modules and Curriculum

e-PAHEL offers two kinds of training programmes - one at Basic level and another at Advance level. Both of the programmes have two components - Classroom education and In-house practical training. Many innovative techniques are used to engage students such as PowerPoint presentations, charts, models, specimens, etc. In addition, there will also be visits to postmortem houses, demonstration on livestock and practical application of acquired skills under the guidance of qualified instructors/trainers at different cattle development centers of the organization.

Basic Training in Artificial Insemination (AI)

This programme consists of a few topics. The topics are: General livestock management; reproduction; insemination and liquid nitrogen. All of these topics have certain sub topics which are mentioned below:

- 1) General livestock management
 - a) Introduction
 - b) Breed
 - c) Feed and fodder resources
 - d) Nutrition and feed supplements
 - e) Cattle anatomy
 - f) Cattle physiology
 - g) First aid
 - h) Disease prevention
 - i) Disease control
- 2) Reproduction
 - a) Female reproductive organs and their functions
 - b) Puberty, Maturity, Breeding , Fertilization
 - c) Implantation, Gestation, Calving
 - d) Normal Reproductive Cycle Method of heat detection in cattle
 - e) Pregnancy diagnosis
 - f) Method of calculating conception rates
 - g) Factors affecting conception rates
 - h) Common reproductive disorders
 - i) Repeat breeding
 - j) Causes of abortion
 - k) Measures to obtain maximum fertility
- 3) Insemination
 - a) Correct time of insemination
 - b) Determination of first AI in heifers
 - c) Collection history
 - d) Standard operation producer
 - e) Care of animal during insemination
 - f) Proper method of semen deposition
 - g) Care of animal after insemination
 - h) AI equipment and accessories care-taking
- 4) Liquid Nitrogen
 - a) Handling of Liquid Nitrogen
 - b) Structure of LN container
 - c) Handling and taking care of LN container
 - d) Precautions to be kept in mind while handling LN
 - e) Models of LN containers
 - f) Importance of maintain cold chain
 - g) Importance of LN refilling schedule

Duration: The duration of the course is 120 days which includes 45 days in-house theory classes and remaining 75 days for practical field training in different cattle development centers.

Medium of instruction: Hindi

Evaluation: Regular tests will be conducted to track the learning curve of the students.

Requirements: Candidates applying for the training programme should meet following requirements

- 1) Should have passed standard 12th education
- 2) Minimum age should be 18

Advance Training in Artificial Insemination (AI) for Para-vet

This programme has been developed and designed specifically for the para-vet who have the basic exposure and skills in Artificial Insemination and would like to take their learning to the next level.

The students will learn the following topics:

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| 1) Management of reproduction | 2) Anatomy and physiology of female and male genitalia |
| 3) Health and hygiene of uterine health and semen quality | 4) Oestrus inductive agents and supplements |
| 5) Sub-estrus | 6) Oestrus cycle management |
| 7) Repeat breeding | 8) Best practices during AI |
| 9) Correct pregnancy diagnosis | 10) Embryonic death |
| 11) Mummified foetus | 12) Abortion |
| 13) Management during pregnancy | 14) Post-partum management of cow |
| 15) Mastitis management | 16) Prevention and control of diseases |
| 17) Precaution during Artificial Insemination | |

Duration: 10 days

Evaluation: Regular tests will be conducted to track the learning curve of the students.

Requirements:

- 1) Minimum age of 20 years;
- 2) Should have completed the Artificial Insemination (AI) Basic Course;
- 3) Should have a work experience of a year for AI Technician.



Objective

Around 70% of rural household in India own livestock. Though the livestock is an important source of employment in rural India, it is yet to be optimised to its potential. This is due to lack of awareness with current trends and practices in the field of animal husbandry and livestock management. In order to help educated rural youths with necessary awareness and required skills so that they can set up their own enterprises, e-PAHEL has come out with the training programmes in Animal Husbandry. These programmes are designed to develop understanding on issues related to livestock management, build skills in quality livestock production, prevention and control of the animal diseases, etc. In addition, these programmes endeavour to facilitate development of local networks with a hub for the marketing of productive animals and also inculcate the entrepreneurial skills in livestock management and trading.

Resource professionals

The organization has tied up with experienced veterinarians, experts and domain subject specialists for these training programmes.

Advisory board

- 1) Dr A K Jain, B.V.Sc. and A.H. (Retd. Consultant, JK TRUST, CSR Raymond Ltd. and BAIF)
- 2) Dr Sunil Kumar, B.V.Sc.; A.H. and M.V.Sc. (Retd. Joint Director, A.H. Dept. U.P. Govt., Lucknow)
- 3) Dr Gopal Krishna, B.V.Sc. and A.H. (Livestock Consultant)

Partner Organisations

e-PAHEL has actively partnered with National Bank for Agriculture and Rural Development (NABARD), Animal Husbandry, Prayagraj in many of its initiatives.

These training programmes are supported by Triplyam Gaushala, (UPLDB- District Livestock Development Resource Centre) Shivgarh, Soraon, Prayagraj.

Venue

92 B South Malaka, Near Rambag, Prayagraj, Uttar Pradesh - 211002

About us

e-PAHEL (a registered NGO) is an initiative to Promote Actions on Health, Environment and Livelihood utilizing the advantages and potentials of latest technologies. Founded in year 2003 by a group of professionals from various disciplines such as Environmental Sciences, Medical Sciences, Veterinary Sciences and Social Sciences, the organization endeavours to create the means of sustainable livelihood that are in sync with health and environment benefits, and are not in conflict with. The organisation focuses on activities and projects for the empowerment of poor, especially from rural community.

Contact Office

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