

## SCHEDULE FOR 120 DAYS BASIC TRAINING OF A.I. WORKERS AT ULDB TRAINING CENTER

| DAY | 10:30 a.m.-11:15 a.m.   | 11:30 a.m.-12:15 p.m.   | 12:15 p.m.-01:00 p.m. | 01:00 p.m-02:30 p.m. | 02:30 p.m-03:15 p.m.  | 03:30 p.m.-04:15 p.m.                                 |
|-----|---|---|-----------------------|----------------------|---|---|
| 1   | Registration and Introduction   |   | Activities of ULDB    | LUNCH                | Importance of Training Program  | Terminology used in animals breeding programme        |
| 2   | Different breeds of cows and buffaloes and their production and reproduction parameters   |   |                       | LUNCH                | Benefits of Crossbreeding Programme & Different methods of breeding                       |   |
| 3   | Cattle and Buffalo Breeding Scenario in India   | The existing State's Breeding Policy and its enforcement  |                       | LUNCH                | Introduction of A.I. & its importance   | Natural Service (NS) V/s AI, Advantages/ Limitations. |
| 4   | External and internal body part of Dairy Animals and their function   |   |                       | LUNCH                | Male Reproductive Organs & their functions  |   |
| 5   | Semen Production in bulls   | Collection, Processing & Preservation Of Bovine Semen   |                       | LUNCH                | Female Reproductive Organs  |   |
| 6   | Functions of Female Reproductive Organs   |   |                       | LUNCH                | Oestrus cycle, Internal & External Symptoms at different stages of Oestrus Cycle          |   |
| 7   | SUNDAY  |   |                       |                      |   |   |
| 8   | Correct Time of Insemination  | Determinants of first AI in Heifers & Methods of heat detection in Cattle and Buffaloes   |                       | LUNCH                | Audio Visual on Animal Reproduction and AI  |   |
| 9   | Study Visit   |   |                       | LUNCH                | Normal Reproductive Cycle in cattle and buffaloes   |   |
| 10  | Puberty, Maturity, Breeding, Fertilization, Implantation, Gestation and Calving of Cattle and Buffaloes   |   |                       | LUNCH                | Ideal Calving interval, Services period, dry period and Inter Calving period              |   |
| 11  | AI Equipment and accessories & their Care   | Collecting History, Process of insemination,  |                       | LUNCH                | Standard Operating Procedure (SOP)  |   |
| 12  | Liquid Nitrogen Handling: Structure of LN container,  | Handling & Care of LN container, Different models of LN containers  |                       | LUNCH                | Importance of maintaining cold chain and LN refilling schedule & LN Conservation Measures |   |
| 13  | Handling, Restraining & control of animals  | Sign of Healthy & Ill Animals   |                       | LUNCH                | Identification of different female reproductive organs on morbid Genitalia                |   |
| 14  | SUNDAY  |   |                       |                      |   |   |
| 15  | Proper LN level in container & its Checking & Evaporation rates and refilling interval of commonly used containers in the field under normal working conditions | Importance of Proper method of Semen withdrawal from container, Proper thawing, Proper preparation of AI gun, Proper site of semen deposition |                       | LUNCH                | Mid Terms Evaluation of Trainees  |   |
| 16  | Procedure for Palpation of female Genitalia   | Reproductive Disease of Bulls transmitted through semen   |                       | LUNCH                | Care of animal during and after insemination  |   |
| 17  | Sterilization of AI equipment their handling and maintenance  | Transportation and handling of Deep Frozen Semen  |                       | LUNCH                | Revision of Pregnancy Diagnosis   |   |

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|----|---|---|-------|--|---------------------------------------|
| 18 | Role of AI Technician and Hygiene during AI   | Pregnancy Diagnosis of Cattle & Buffaloes   | LUNCH | Method of calculating conception rates and factors affecting conception rates  |                                       |
| 19 | Method of drying of animals on completion of 7th month pregnancy  | Common reproductive disorders/diseases  | LUNCH | Repeat breeding, causes of abortion etc.   |                                       |
| 20 | Fertility/ Infertility/ Sterility in cattle and buffalos  | Measures of obtain maximum fertility  | LUNCH | Ear Tagging, Importance of Recordkeeping, Recording Formats and submission of records into the INAPH application (Offline & Online versions) (MIS) |                                       |
| 21 | SUNDAY  |   |       |  |                                       |
| 22 | PDA/Notebook /Desktop (Training in Data Entry with Dummy Data on test Server, Different flash messages, saving the Data, Synchronization of Data with the server and using action reports in day to day work. |   | LUNCH | Revision of AI Technique   |                                       |
| 23 | Starting an AI Center   | Role of Private A.I Worker In Animal Breeding Programs in Rural Areas                             | LUNCH | Method of Non-Surgical Castration  | DO and DONT of AI                     |
| 24 | Care and Management of new born calf and heifers till it becomes pregnant at farmers perception   |   | LUNCH | Care and Management of Dry Pregnant Animals  |                                       |
| 25 | Care and Management of animals before and after Calving   |   | LUNCH | Precautions at the time of Calving and use of naval kit for disinfection of naval cord   | Procedure and advantages of Dehorning |
| 26 | Importance of Animal Housing  | General management in getting full expression of genetic capability                               | LUNCH | Importance of bio-security measures to be adopted during AI  |                                       |
| 27 | Economically important diseases and their prevention through timely vaccination   |   | LUNCH | Various available vaccines, vaccination schedules, importance of maintaining cold chain  |                                       |
| 28 | SUNDAY  |   |       |  |                                       |
| 29 | Basic aspects of nutrition  | Role of Nutrition in fertility  |       | Concept of Balance Ration, Feeding and Nutrition for Calves, Heifers & Adult Animals   |                                       |
| 30 | Importance of proper nutrition including feeding of vitamins and mineral mixtures   | Impact of Macro and Micronutrients Deficiencies on fertility status/reproductive health of animal | LUNCH | Mid Terms Evaluation of Trainees   |                                       |
| 31 | Preparation of Land for Fodder Cultivation & Fodder Production  | Organic Farming   | LUNCH | Different Method of fodder preservation  |                                       |
| 32 | Different type of fodder seed demonstration and treatment before sowing & round the year fodder cycle   | Audio-Visual  | LUNCH | Visit to Gashala   |                                       |
| 33 | Vaccination Schedule for FMD, HS, BQ, Brucellosis & Thelariosis etc.  |   | LUNCH | Hygiene Clean Milk Production  |                                       |
| 34 | Mastitis and its Prevention and control   |   | LUNCH | Importance and procedures of Animal Insurance & settlements of claims & Insurance Schemes  |                                       |
| 35 | SUNDAY  |   |       |  |                                       |
| 36 | Various Government Schemes in Animal Husbandry & Dairy Sector   |   | LUNCH | Common ecto and endo parasitic Disease and Deworming   |                                       |
| 37 | Identification of Animal, Milk Recording & Progeny Testing Programme  |   | LUNCH | Weight Recording of Calves   |                                       |
| 38 | Common Bacterial and Viral Disease  |   | LUNCH | Prevention, Control and Vaccination against different disease  |                                       |

|           |  |   |       |  |
|-----------|--|---|-------|--|
| 39        | General Disease of Animals   |   | LUNCH | Precaution during disease outbreak   |
| 40        | Pre and post parturient diseases   |   | LUNCH | Audio-Visual on animal management and reproduction                               |
| 41        | Veterinary First Aid   | Medicines used in Veterinary first Aid                                    | LUNCH | Common poisoning in animals and its first Aid                                    |
| 42        | SUNDAY   |   |       |  |
| 43        | Advantage of AI over nature services   | Extension Activities to animal husbandry (Breeding, Health and Nutrition) | LUNCH | Recording keeping and using INAPH  |
| 44        | Care of young calves till its pregnancy  | Effect/impact of good AI Technician V/s inefficient AI Technician         | LUNCH | Case study   |
| 45        | Evaluation of Theory part of the Training Programme  |   | LUNCH | Guidelines for field training  |
| 46        | Proceed to Animal Breeding fram Kalsi for practical training   |   | LUNCH | Visit to fodder bank kalsi   |
| 47        | Different Activities of Animal Breeding Fram kalsi   |   | LUNCH | Demonstration of Palpation of female Genitalia in live Animals                   |
| 48        | Palpation of female Genitalia in live animal   |   | LUNCH | Structure of LN Container different models handling & care and checking LN level |
| 49        | SUNDAY   |   |       |  |
| 50        | Palpation of female Genitalia in live animal   |   | LUNCH | AI Equipment and accessories & handling and care including sterilization         |
| 51        | Demonstration of Dehorning of young calves   |   | LUNCH | Demonstration of Ear Tagging   |
| 52        | Demonstration of proper method of withdrawal of Straw from containers, proper thawing procedure , proper preparation of Gun and Correct site of Semen deposition |   | LUNCH | Record Keeping   |
| 53        | Passing of AI Gun in live Animals  |   | LUNCH | Passing of AI Gun in live Animals  |
| 54        | Pregnancy Diagnosis at 90 days & beyond  |   | LUNCH | Passing of AI Gun in live Animals  |
| 55        | Evaluation on practical training   |   | LUNCH | Proceed for field AI Training  |
| 56 to 77  | Practical Training at First AI Center  |   |       |  |
| 78 to 98  | Practical Training at Second AI Center   |   |       |  |
| 99 to 118 | Practical Training at Third AI Center  |   |       |  |
| 119       | Return From Field AI Training to ULDB Training Center Pashulok Rishikesh   |   |       |  |
| 120       | Feed Back from Trainee AIT   | Final Evaluation of AI Trainees   | LUNCH | Certificate Distribution   |