

**Self Study Report for the**  
**Accreditation**  
**of**  
**B.V.Sc.& A.H./M.V.Sc./Ph.D.**  
**Programmes and**  
**College of Veterinary Sciences**  
**and Animal Husbandry**  
**(2013-14 to 2017-18)**



**Narendra Deva University of Agriculture and Technology**

**Kumarganj, Ayodhya– 224229**

**SELF STUDY REPORT  
(2013-14 to 2017-18)**



**COLLEGE OF VETERINARY SCIENCE  
AND ANIMAL HUSBANDRY**



**NARENDRA DEVA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY  
KUMARGANJ, AYODHYA-224 229**

**Self-Study Report for the Accreditation**  
**of**  
**B.V.Sc. & A.H., M.V.Sc., Ph.D. Programmes and College of Veterinary**  
**Science and Animal Husbandry**

**Contents**

| <b>S. No.</b> | <b>Particulars</b>                                  |
|---------------|---|
|               | <b>B.V.Sc. &amp; A.H. Programme</b>                 |
| 1.            | Veterinary Anatomy and Histology                    |
| 2.            | Veterinary Physiology and Biochemistry              |
| 3.            | Veterinary Pharmacology and Toxicology              |
| 4.            | Veterinary Parasitology                             |
| 5.            | Veterinary Microbiology                             |
| 6.            | Veterinary Pathology                                |
| 7.            | Veterinary Public Health and Epidemiology           |
| 8.            | Animal Nutrition                                    |
| 9.            | Animal Genetics and Breeding                        |
| 10.           | Livestock Production and Management                 |
| 11.           | Livestock Products Technology                       |
| 12.           | Veterinary Gynaecology and Obstetrics               |
| 13.           | Veterinary Surgery and Radiology                    |
| 14.           | Veterinary Medicine                                 |
| 15.           | Veterinary and Animal Husbandry Extension Education |
| 16.           | Veterinary Clinical Complex (VCC)                   |
| 17.           | Livestock Farm Complex (LFC)                        |
|               | <b>M.V.Sc. Programme</b>                            |
| 1.            | Veterinary Physiology and Biochemistry              |
| 2.            | Veterinary Pharmacology and Toxicology              |
| 3.            | Veterinary Parasitology                             |
| 4.            | Veterinary Microbiology                             |

|     |   |
|-----|---|
| 5.  | Veterinary Pathology                                |
| 6.  | Veterinary Public Health and Epidemiology           |
| 7.  | Animal Nutrition                                    |
| 8.  | Animal Genetics and Breeding                        |
| 9.  | Livestock Production and Management                 |
| 10. | Veterinary Gynaecology and Obstetrics               |
| 11. | Veterinary Surgery and Radiology                    |
| 12. | Veterinary Medicine                                 |
| 13. | Veterinary and Animal Husbandry Extension Education |
|     | <b>Ph.D. Programme</b>                              |
| 1.  | Veterinary Pharmacology and Toxicology              |
| 2.  | Animal Nutrition                                    |

**Self Study Report for the**  
**Accreditation**  
**of**  
**B.V.Sc. & A.H. Programme**

**College of Veterinary Sciences and Animal**  
**Husbandry, Narendra Deva University of**  
**Agriculture and Technology,**  
**Kumarganj, Ayodhya-224 229**

**(2013-14 to 2017-18)**

# Self-Study Report for the Accreditation of B. V.Sc. & A. H., College of Veterinary Science & A. H., NDUAT

## 6.4 Self Study report for the programme

Name of the Programme: B. V. Sc. & A. H.

### 6.4.1. Brief History of the Degree Programme:

The Undergraduate programme (B.V.Sc. & A.H.) was started in the Year 1999.

### Objectives and Accomplishments:

1. Impart education in the field of Veterinary Science and Animal Husbandry through running the Bachelor of Veterinary Science and Animal Husbandry (B.V.Sc. and A.H.).
2. Teach and train the students in the field of Veterinary Science and Animal Husbandry in order to make them resourceful in the treatment of animals, management of livestock and poultry industry for better production.
3. Provide basic knowledge required for conducting the experiments to generate suitable technologies for the benefit of livestock and poultry based industries.
4. Train them as competent extension personnel to disseminate various production technologies to the beneficiaries of Animal Husbandry industry.
5. Provide facilities to faculty members for research and extension in the field of Veterinary Science and Animal Husbandry.
6. Provide the necessary exposure to the students of recent developments in the field of Veterinary Science in various agro-climatic zones at State and National levels through State and All India educational tours and visits.

The basic structure and course content of the undergraduate teaching is followed as per the guidelines of Veterinary Council of India (VCI).

### Programme offered with duration

|    | Programme  | Duration   |
|----|--|--|
| UG | Bachelor of Veterinary Science and Animal Husbandry (B.V.Sc. and A.H.) | 5 Years (10 Semester).<br>From session 2017 -2018, the duration is 5 years and 6 months(11 semester) |

#### 6.4.2. Faculty Strength:

| S. No. | Sanctioned faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|---------------------|------------------|-----------------|---|
| 1.     | Professor           | 5                | 12              | 17  |
| 2.     | Associate Professor | 8                | 15              | 23  |
| 3.     | Assistant Professor | 34               | 13              | 47  |
|        | Total               | 47               | 40              | 87  |

\* All the vacant posts as per VCI regulation are duly sanctioned by U.P. Govt. and recruitment process of all the vacant posts are in process.

#### 6.4.2.1. Faculty Profile (Department Wise):

| S. No. | Name of the Department                              | Professor | Associate Professor | Assistant Professor |
|--------|---|-----------|---------------------|---------------------|
| 1.     | Veterinary Anatomy and Histology                    | -         | -                   | 2                   |
| 2.     | Veterinary Physiology and Biochemistry              | -         | -                   | 4                   |
| 3.     | Animal Genetics and Breeding                        | 1         | -                   | 2                   |
| 4.     | Livestock Production and Management                 | 1         | -                   | 1                   |
| 5.     | Veterinary and Animal Husbandry Extension Education | -         | -                   | 2                   |
| 6.     | Veterinary Parasitology                             | -         | -                   | 2                   |
| 7.     | Veterinary Microbiology                             | 1         | -                   | 2                   |
| 8.     | Animal Nutrition                                    | -         | 1                   | 2                   |
| 9.     | Veterinary Pathology                                | -         | 1                   | 1                   |
| 10.    | Veterinary Pharmacology and Toxicology              | -         | 1 (on lien)         | 1                   |
| 11.    | Veterinary Public Health and Epidemiology           | 1         | 1                   | -                   |
| 12.    | Livestock Products Technology                       | -         | -                   | 2                   |
| 13.    | Veterinary Surgery and Radiology                    | 1         | 1                   | 1                   |
| 14.    | Veterinary Gynaecology and Obstetrics               | -         | 1                   | 3                   |
| 15.    | Veterinary Clinical Complex (VCC)                   | -         | 1                   | 2                   |

|     |                              |    |    |    |
|-----|------------------------------|----|----|----|
| 16. | Veterinary Medicine          | -  | -  | 3  |
| 17. | Livestock Farm Complex (LFC) | -  | 1  | 4  |
|     | <b>Total</b>                 | 05 | 08 | 34 |

#### 6.4.3. Technical and Supporting Staff:

| Name of Post                   | Post Sanctioned | Staff in-place | Post Vacant |
|--------------------------------|-----------------|----------------|-------------|
| Technical and supporting staff | 143             | 93             | 50          |

#### 6.4.4. Classrooms and Laboratories:

##### Details of Lecture rooms & Laboratories:

| S. No. | Degree Programme:                                   | No. of Lecture Room | No. of Laboratory |
|--------|---|---------------------|-------------------|
| 1.     | <b>B. V. Sc. &amp; A. H.</b>                        | 5                   | --                |
|        | Veterinary Anatomy and Histology                    | --                  | 5                 |
|        | Veterinary Physiology and Biochemistry              | --                  | 3                 |
|        | Veterinary Pharmacology and Toxicology              | --                  | 1                 |
|        | Veterinary Parasitology                             | --                  | 2                 |
|        | Veterinary Microbiology                             | --                  | 6                 |
|        | Veterinary Pathology                                | --                  | 4                 |
|        | Veterinary Public Health and Epidemiology           | --                  | 3                 |
|        | Animal Nutrition                                    | --                  | 2                 |
|        | Animal Genetics and Breeding                        | --                  | 2                 |
|        | Livestock Production and Management                 | --                  | 1                 |
|        | Livestock Products Technology                       | --                  | 3                 |
|        | Veterinary Gynaecology and Obstetrics               | --                  | 3                 |
|        | Veterinary Surgery and Radiology                    | --                  | 3                 |
|        | Veterinary Medicine                                 | --                  | 3                 |
|        | Veterinary and Animal Husbandry Extension Education | --                  | 4                 |



|  |                                   |          |           |
|--|-----------------------------------|----------|-----------|
|  | Veterinary Clinical Complex (VCC) | 1        | 4         |
|  | Livestock Farm Complex (LFC)      | --       | 2         |
|  | <b>Total</b>                      | <b>6</b> | <b>51</b> |

**List of major equipments:**

| S. No. | Name of department                     | Name of equipment                           | No. of equipment |
|--------|--|---|------------------|
| 1.     | Veterinary Anatomy and Histology       | Drilling machine for skeleton               | 01               |
|        |  | Electric bone saw                           | 01               |
|        |  | Histoembedder                               | 01               |
|        |  | Binocular microscopes                       | 05               |
|        |  | pH meter                                    | 10               |
|        |  | Hot air oven                                | 01               |
|        |  | Semiautomatic or Automatic rotary microtome | 01               |
|        |  | Cadaver injector                            | 01               |
|        |  | Mounting sets                               | 01               |
|        |  | Tissue floatation bath                      | 01               |
| 2.     | Veterinary Physiology and Biochemistry | PCR   | 01               |
|        |  | ELISA                                       | 01               |
|        |  | Electrocardiograph                          | 01               |
|        |  | Hemocytometer                               | 20               |
|        |  | Hot air oven                                | 01               |
|        |  | Electronic monopan balance                  | 02               |
|        |  | Water bath                                  | 01               |
|        |  | Centrifuge machine                          | 02               |
|        |  | Spectrophotometer                           | 01               |
|        |  | Deep Freezer                                | 01               |
| 3.     | Animal Genetics and Breeding           | Computers                                   | 10               |
|        |  | Hot air oven 450x600 x 450 mm               | 01               |
|        |  | Water bath                                  | 01               |
|        |  | Slide Projector                             | 01               |
|        |  | Centrifuge machine                          | 01               |
|        |  | Triple beam balance 111 gm and 3 kg         | 01               |
|        |  |   |                  |

|              |   |   |    |
|--------------|---|---|----|
|              |   |   |    |
| 4.           | Livestock Production and Management                 | Shearing and clipping equipment                           | 03 |
|              |   | Tattooing set tags etc                                    | 03 |
|              |   | Vernier's Calipers  | 04 |
|              |   | Screw Gauge   | 06 |
|              |   | Branding set  | 03 |
|              |   | Castrator (for different species)                         | 01 |
|              |   | Gerber's centrifuge                                       | 01 |
|              |   | Housing and dairy models, photographs of different breeds | 17 |
| 5.           | Veterinary and Animal Husbandry Extension Education | Projection screens  | 02 |
|              |   | Epidiascope   | 01 |
|              |   | Overhead Projector  | 01 |
|              |   | Slide Projector   | 01 |
|              |   | Amplifiers  | 02 |
|              |   | Stage mikes   | 11 |
|              |   | Horns   | 04 |
|              |   | Television (coloured)                                     | 01 |
|              |   | Video Camera  | 01 |
| Camera 35 mm | 01  |   |    |
| 6.           | Veterinary Parasitology                             | Microscopes including trinocular                          | 20 |
|              |   | Autoclave   | 01 |
|              |   | BOD Incubator   | 01 |
|              |   | Bacteriological Incubator                                 | 01 |
|              |   | Hot air oven  | 01 |
|              |   | Laminar flow  | 01 |
|              |   | Deep freeze ( -20 ° C)                                    | 01 |
|              |   | Cooling centrifuge  | 01 |
|              |   | Spectrophotometer   | 01 |
|              |   | Vertical slab gel electrophoresis assembly                | 01 |
| 7.           | Veterinary Microbiology                             | Autoclave Horizontal                                      | 01 |
|              |   | Autoclave   | 01 |
|              |   | Student microscope  | 21 |
|              |   | Ultra-violet microscope with U.V assembly                 | 01 |
|              |   | Incubator   | 02 |
|              |   | Biological Oxygen demand (B.O.D.) Incubator               | 01 |
|              |   | Immunoelectrophoresis unit                                | 02 |
|              |   | High speed Centrifuge                                     | 01 |
|              |   | Refrigerated centrifuge                                   | 01 |
|              |   | Inoculation cabin   | 01 |
| 8            | Animal Nutrition                                    | Protein Analyzer  | 01 |
|              |   | Hot air oven  | 02 |
|              |   | Electronic monopan balance                                | 02 |
|              |   | Muffle furnace  | 02 |
|              |   | Suction Pump  | 01 |
|              |   | Digestion set   | 02 |

|     |   |   |    |
|-----|---|---|----|
|     |   | Soxhlet apparatus set   | 02 |
|     |   | Centrifuge machine  | 01 |
|     |   | Spectrophotometer   | 01 |
|     |   | Fibre estimation apparatus                                      | 01 |
| 9.  | Veterinary Pathology                      | Cryostat Microtome  | 01 |
|     |   | Rotary microtome, AO Spencer type with thin sectioning facility | 03 |
|     |   | Paraffin floatation bath ( 55-65 <sup>0</sup> C)                | 01 |
|     |   | Paraffin bath/oven  | 01 |
|     |   | Refrigerator  | 01 |
|     |   | Monocular and Binocular microscopes                             | 28 |
|     |   | Deep Freeze   | 01 |
|     |   | Paraffin floatation bath (temp. Control 55-65 <sup>0</sup> C)   | 01 |
|     |   | Autopsy table for small animals                                 | 01 |
|     |   | Digital Camera with PC for Microscopy                           | 01 |
| 10. | Veterinary Pharmacology and Toxicology    | Vacuum pump   | 02 |
|     |   | U.V.Spectrophotometer   | 01 |
|     |   | Biosafety Cabinet   | 01 |
|     |   | Micro/Macro digestion chamber/units for sample digestion        | 01 |
|     |   | Vacuum Evaporator (Rotatory type)                               | 01 |
|     |   | Sonicator (UltraSonic)  | 01 |
|     |   | Rotatory Shaker   | 01 |
|     |   | Water Deionizer   | 01 |
|     |   | Atomic absorption spectrophotometer                             | 01 |
|     |   | GCMS  | 01 |
| 11. | Veterinary Public Health and Epidemiology | Autoclave   | 04 |
|     |   | Hot air oven  | 03 |
|     |   | Bacteriological incubator                                       | 03 |
|     |   | Centrifuge  | 04 |
|     |   | Spectrophotometer   | 01 |
|     |   | Microscope  | 09 |
|     |   | BOD incubator   | 02 |
|     |   | Laminar flow  | 01 |
|     |   | Vertex Shaker   | 01 |
|     |   | Magnetic stirrer  | 01 |
| 12. | Livestock Products Technology             | Hot air oven  | 01 |
|     |   | Deepfreeze  | 01 |
|     |   | Electronic Monopan balance                                      | 01 |
|     |   | Meat Slicer   | 01 |
|     |   | Lactometer  | 05 |
|     |   | Butchering sets (Knives etc.)                                   | 01 |
|     |   | Feather plucking machine  | 01 |
|     |   | Bleeding Cone   | 01 |

|                                  |                                   |                              |                                       |
|----------------------------------|-----------------------------------|------------------------------|---------------------------------------|
|                                  |                                   | Scalding Tank                | 01                                    |
|                                  |                                   | Spectrophotometer            | 01                                    |
| 13.                              | Veterinary Surgery and Radiology  | General surgical instruments | 03                                    |
|                                  |                                   | Electro-cautery unit         | 01                                    |
|                                  |                                   | Diathermy unit               | 01                                    |
|                                  |                                   | Autoclave                    | 03                                    |
|                                  |                                   | Hot air oven                 | 01                                    |
|                                  |                                   | Bone saw                     | 01                                    |
|                                  |                                   | Laryngoscope                 | 02                                    |
|                                  |                                   | Dog nail cutter              | 01                                    |
|                                  |                                   | Binocular microscope         | 02                                    |
|                                  |                                   | Trinocular microscope        | 01                                    |
|                                  |                                   | Nerve muscle stimulator      | 01                                    |
|                                  |                                   | 14.                          | Veterinary Gynaecology and Obstetrics |
| Computer assisted semen analyzer | 01                                |                              |                                       |
| Flowcytometer                    | 01                                |                              |                                       |
| Ultra Sonography Machine         | 01                                |                              |                                       |
| Phase contrast microscope        | 01                                |                              |                                       |
| Biofreezer                       | 01                                |                              |                                       |
| Cold cabinet                     | 01                                |                              |                                       |
| CO2 Incubator                    | 01                                |                              |                                       |
| Deep freeze                      | 02                                |                              |                                       |
| Steriozoom microscope            | 01                                |                              |                                       |
| 15.                              | Veterinary Clinical Complex (VCC) | Teat and udder instruments   | 02                                    |
|                                  |                                   | Biochemical Auto analyzer    | 01                                    |
|                                  |                                   | Incubator (Normal +BOD)      | 02                                    |
|                                  |                                   | Laminar Flow                 | 01                                    |
|                                  |                                   | Binocular Microscope         | 02                                    |
|                                  |                                   | Haemoglobinometer            | 01                                    |
|                                  |                                   | Haemocytometers              | 02                                    |
|                                  |                                   | Centrifuge (ordinary)        | 01                                    |
|                                  |                                   | Electro surgery unit         | 01                                    |
|                                  |                                   | X-ray film viewers           | 01                                    |
| 16.                              | Veterinary Medicine               | Autoclave                    | 01                                    |
|                                  |                                   | Balance                      | 04                                    |
|                                  |                                   | pH meter                     | 02                                    |
|                                  |                                   | Oven                         | 01                                    |

|     |                              |                             |    |
|-----|------------------------------|-----------------------------|----|
|     |                              | Microscope                  | 19 |
|     |                              | Binocular microscope        | 01 |
|     |                              | Haemometer                  | 16 |
|     |                              | Haemocytometer              | 05 |
|     |                              | Spectrometer                | 01 |
|     |                              | Serological water bath      | 01 |
| 17. | Livestock Farm Complex (LFC) | Tractor                     | 02 |
|     |                              | Rotovator                   | 01 |
|     |                              | Chaff cutter                | 02 |
|     |                              | Mixer grinder               | 02 |
|     |                              | Weighing machine            | 03 |
|     |                              | Debeaking machine           | 01 |
|     |                              | Incubator                   | 01 |
|     |                              | Castrator                   | 02 |
|     |                              | Automatic vaccinator        | 01 |
|     |                              | Artificial insemination gun | 03 |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

We follow three different basic steps viz., seeing/observing, doing and writing for practical learning of students in the guidance of teachers.

**Seeing/Observing:** Students observe the method of doing various things by their teachers e.g., various operations and other clinical procedures. For passive learning various flow charts, banners and posters are displayed. The power point presentations on various topics are also delivered to students.

**Doing:** The UG students are involved in performing various activities in the laboratories/farms as well in hospitals. They are involved in recording of various clinical parameters, administration of medicines, minor surgical/obstetrical procedures and analysis of samples in the laboratory. They are provided training of artificial insemination, pregnancy diagnosis and various other clinical procedures.

**Writing:** The UG students are also involved in filling of various records like OPD registers and treatment cards. Beside these they also fill their practical manuals prepared as per VCI curriculum along with learning by doing process. Practical conducted with the help of flow chart and practical manuals prepared as per VCI curriculum along with learning by doing process in the guidance of teachers. Various activities in the laboratories of different departments are performed as follows-

- Collection of blood samples from Livestock Farm Complex and Veterinary Clinical Complex.
- Students are supported by adequate skeletons of different animal species, diagrams, specimens, slides, PPT, etc. to understand the subject in a simple and efficient manner.
- Hematological examination in the lab.
- Urine examination in the lab.
- Semen examination.
- Recording of data from meteorology observatory.
- Assignments allotted to group of students.
- Estimation of biochemical parameters.
- Demonstration of organs for the infestation of the parasites and for the presence of lesions caused by the parasites.
- Demonstration of procedures for the collection of samples from animals for the detection of the parasites.
- Demonstration of the procedures for the processing of clinical samples for parasitic detection.
- Identification of the parasites/cysts/eggs by morphological examination.
- Preservation of the parasites specimen.
- In line with VCI directions, the staff members of the department introduce the students with different techniques of collection of samples from field and farm and isolation and identification of bacteria and diagnosis of diseases.
- Hands on training are given to the students about the techniques of post-mortem examination and writing of post-mortem report in large and small animals as well as birds.
- Expertization is provided to the UG and PG students for the Preparation and Interpretation of histopathological slides.
- Practical classes are conducted with the help of flowcharts, practical manuals, gross specimens and histopathological slides.
- The samples of milk, meat and water are collected for their quality assessment.
- Collection of feed samples from field.
- Analysis of feed samples in the lab.
- Assignments allotted to group of students.
- Research conducted by students.
- Formulation of balanced ration for dairy animals.
- Exposure visit to feed factory/farms.
- Collection and analysis of production and reproduction data of livestock species.
- Cytogenetic experiment with the help of visuals aid.
- Assignments allotted to group of students.
- Demonstration of cattle judging on dairy farm. In line with the VCI directions, the staff member of the Department introduces the student with different processing of

Livestock Products (Milk, Meat, Egg and Wool). The Students are supported by adequate diagrams, slides, PPT, etc., to understand the subject in a simple and efficient manner.

- The students are also provided the learning materials like practical manuals, Class notes and e-books which are very useful to improve the knowledge of students
- The practical hands for the undergraduate students are enhanced by the practical hands on training to under graduate and post graduate students in the area of milk and meat processing.
- Practicals are conducted as per the courses outlined by the Veterinary Council of India (VCI). Practical manuals are provided to the students and practicals are well explained and demonstrated.
- For radiology practical, radiographs of normal and abnormal organs are maintained in the department. These radiographs are shown to the students during practical classes.
- Collection of data at field level about the farmer's problems.
- Preparation of different literature like leaflet, posters, charts, flash cards.
- Assignments allotted to group of students
- To conducts the different awareness programmes by students to farmers
- Dentition and age determination in livestock at farm
- Demonstration of disbudding and castration in animals
- Live demonstration of various fodder crops
- Hands on training on deticking, spraying, shearing, deworming to students

#### 6.4.6. Supervision of students in PG/PhD programmes: Not Applicable

#### 6.4.7. Feedback of stakeholders: Yes

Dean, DSW, Teachers, HODs and Hostel Wardens frequently take feedback from the students and act accordingly to excel the teaching as well as practical work so that students can complete their degree within time frame with sound knowledge and efficiency in practical work in the field of Veterinary Science and Animal Husbandry.

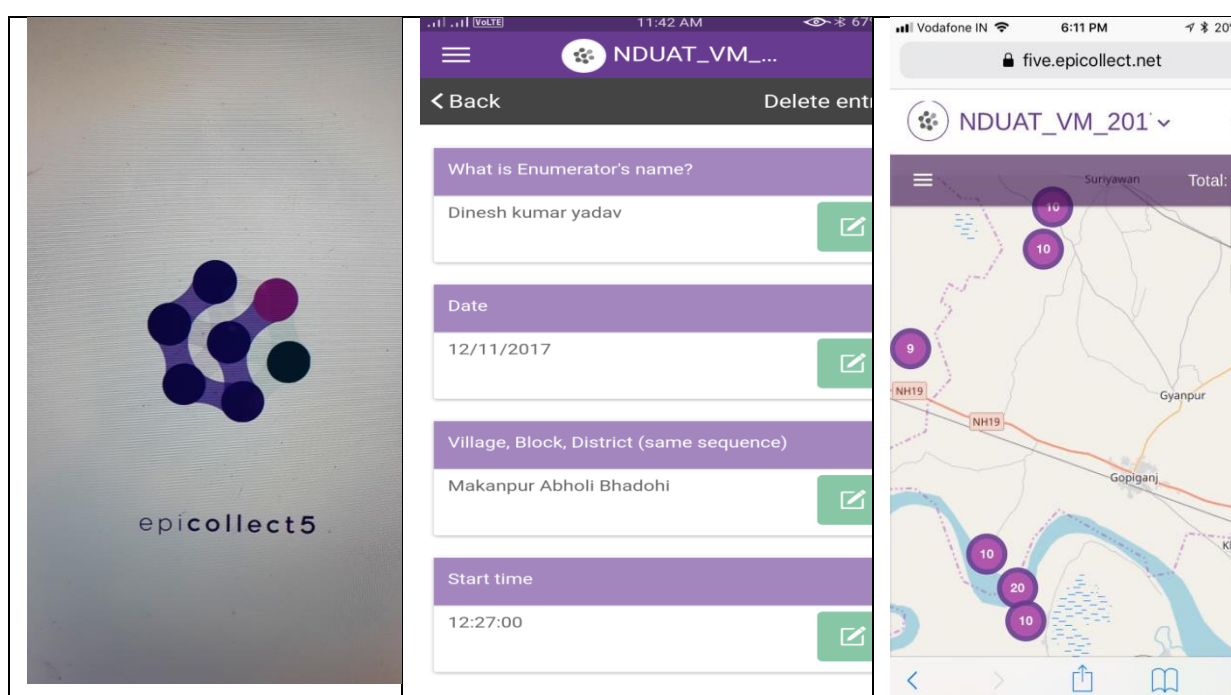
#### 6.4.8. Student Intake and attrition in the programme:

| Name of Degree Programme | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |           |                   | Attrition (%) |            |           |    |                   |
|--------------------------|--|---------|---------|-----------|-------------------|---------------|------------|-----------|----|-------------------|
|                          | Y 1  | Y2      | Y 3     | Y4        | Y5 (Current Year) | Y1            | Y2         | Y 3       | Y4 | Y5 (Current Year) |
| B.V.Sc. & A.H.           | Nil (Nil)  | 38 (60) | 57 (60) | Nil (Nil) | 50 (60)           | -             | 22 (36.67) | 03 (5.00) | -  | 10 (16.67)        |

\*Data in parenthesis is the sanction strength of students in different years.

#### 6.4.9. ICT Application in Curricula Delivery:

Students are given lectures by power point presentations with all recent updates and required photographs and videos. The pictures of cases are also received from owners and veterinarians and shared with students discussing best possible treatment modalities. Students are also directed to go through the blogs/websites created by faculty at their own convenience of time. They are also encouraged to interact with teacher on the blogs for clarification of any doubt. A user friendly GPS enabled android app “Epicollect 5” is being used by the post graduate students to collect data from animal owners of eastern Uttar Pradesh.



#### 6.4.12.

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal



**Self Study Report for the**  
**Accreditation**  
**of**  
**M.V.Sc. Programmes**



**2019**

**College of Veterinary Science and Animal  
Husbandry, Narendra Deva University of Agriculture and  
Technology Kumarganj, Ayodhya- 224 229**

## **Self-Study Report for the Accreditation of M.V.Sc., College of Veterinary Science & A. H., NDUAT**

The College of Veterinary Science & A. H. has 13 M.V.Sc. programmes operational at present. Their details are as under:

|     | <b>M.V.Sc.Programme</b>                             |
|-----|---|
| 1.  | Veterinary Physiology and Biochemistry              |
| 2.  | Veterinary Pharmacology and Toxicology              |
| 3.  | Veterinary Parasitology                             |
| 4.  | Veterinary Microbiology                             |
| 5.  | Veterinary Pathology                                |
| 6.  | Veterinary Public Health and Epidemiology           |
| 7.  | Animal Nutrition                                    |
| 8.  | Animal Genetics and Breeding                        |
| 9.  | Livestock Production and Management                 |
| 10. | Veterinary Gynaecology and Obstetrics               |
| 11. | Veterinary Surgery and Radiology                    |
| 12. | Veterinary Medicine                                 |
| 13. | Veterinary and Animal Husbandry Extension Education |

**M.V.Sc.**

**Veterinary Physiology and  
Biochemistry**

#### 6.4.1. Brief History of the Degree Programme:

The department came in its present shape as Department of Veterinary Physiology & Biochemistry in July 2014 as per the mandate of new VCI guidelines. The department is offering M.V.Sc. in Veterinary Biochemistry & Veterinary Physiology separately from 2004.

#### Objective:

1. To provide quality education to the students of M.V.Sc. in the subjects of Veterinary Biochemistry and Veterinary Physiology.
2. To undertake research on recent area based needs of livestock owners.
3. To provide consultancy for diagnosis of clinical cases by hematobiochemical analysis.

#### Accomplishments:

1. Two M.V.Sc. students in veterinary biochemistry have passed.
2. Department is engaged in teaching of Veterinary Biochemistry and Veterinary Physiology courses to M.V.Sc. students of other departments.
3. Department handled one project as lead scientist and assisting in five projects.
4. Department has developed a well-furnished Biotechnology laboratory.

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | -                | 01              | 01  |
| 2.    | Associate Professor | -                | 02              | 02  |
| 3.    | Assistant Professor | 04               | -               | 03  |

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post   | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|-------------------|----------------|-----------------|---|
| 1.     | Lab. Technician   | 02             | 00              | 02  |
| 2.     | Stenographer      | 00             | 01              | 01  |
| 3.     | Asstt. Accountant | 00             | 01              | 01  |
| 4.     | Lab. Assistant    | 01             | 01              | 02  |
| 5.     | Junior Assistant  | 01             | 01              | 02  |
| 6.     | Animal Attendant  | 01             | 01              | 02  |

|    |         |    |    |    |
|----|---------|----|----|----|
| 7. | Sweeper | 02 | 00 | 02 |
|----|---------|----|----|----|

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular      | Number |
|-------|-----------------|--------|
| 1.    | PG Lab.         | 2      |
| 2.    | PG Seminar Room | 1      |

##### b) Lists of major equipments:

| S. No | Name of equipment          | Number |
|-------|----------------------------|--------|
| 1.    | PCR                        | 01     |
| 2.    | ELISA                      | 01     |
| 3.    | Electrocardiograph         | 01     |
| 4.    | Hemocytometer              | 20     |
| 5.    | Hot air oven               | 01     |
| 6.    | Electronic monopan balance | 02     |
| 7.    | Water bath                 | 01     |
| 8.    | Centrifuge machine         | 02     |
| 9.    | Spectrophotometer          | 01     |
| 10.   | Deep Freezer               | 01     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Hematological examination in the lab.
- Urine examination in the lab.
- Recording of data from meteorology observatory.
- Estimation of biochemical parameters.

#### 6.4.6. Supervision of students in PG programmes:

| S. No. | Name of the students | Id. No.      | Advisor          | Admission year | Pass out year | Left year |
|--------|----------------------|--------------|------------------|----------------|---------------|-----------|
| 1.     | Dr. Shiv Kumar Yadav | V-4211/08/13 | Dr. S. K. Maurya | 2013           | 2015          | -         |
| 2.     | Dr. Brijendra        | V-           | Dr. S. K. Maurya | 2014           | 2016          | -         |

|            |            |  |  |  |
|------------|------------|--|--|--|
| Mani Yadav | 4628/09/14 |  |  |  |
|------------|------------|--|--|--|

#### 6.4.7. Feedback of stakeholders: Yes

- Feedback from students is being taken at the end of every session. A proforma has been developed by the department for this purpose.

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme                       | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |            |          |          |                   |
|--|--|---------|---------|---------|-------------------|---------------|------------|----------|----------|-------------------|
|  | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2         | Y 3      | Y4       | Y5 (Current Year) |
| M.V.Sc. (Veterinary Physiology & Biochemistry) | 01 (06)  | 01 (06) | 00 (03) | 00 (06) | 00 (06)           | 05 (83.33)    | 05 (83.33) | 03 (100) | 06 (100) | 06 (100)          |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.4.9. ICT Application in Curricula Delivery:

- Developed power point slides to teach the postgraduate students.
- Demonstrate different experiments to students by You Tube video.
- A website [www.veterinarybiochemistry.blogspot.in](http://www.veterinarybiochemistry.blogspot.in) has been developed.

#### 6.4.12.

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**M.V.Sc.**

**Veterinary Pharmacology  
and Toxicology**

#### 6.4.1. Brief History of the Degree Programme:

The postgraduate programme in the department was started in year 2004.

#### Objectives:

1. To produce the good quality students and scientists who are capable enough to contribute animal health, research related to Pharmacology and nation building.
2. To screen the herbs in nearby area of the university for their pharmacological effects.

#### Accomplishments:

1. Trained 4 M.V.Sc. and 1 Ph. D students.
2. Established a laboratory for estimation of pesticides and different toxic metals in all biological samples, water and soil.
3. The department produced the first Ph.D. student of the college.

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Post     | Faculty in Place | Vacant Position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1     | Professor           | 00               | 01              | 01  |
| 2     | Associate Professor | 01               | 00              | 01  |
| 3     | Assistant Professor | 01               | 01              | 02  |

\* One Professor is on lien.

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|-----------------|----------------|-----------------|---|
| 1.     | Lab Technician  | 00             | 01              | 01  |
| 2.     | Accounts Clerk  | 00             | 01              | 01  |
| 3.     | Lab. Assistant  | 01             | 00              | 01  |



|    |                  |    |    |    |
|----|------------------|----|----|----|
| 4. | Steno            | 00 | 01 | 01 |
| 5. | Junior Clerk     | 01 | 00 | 01 |
| 6. | Animal Attendant | 01 | 00 | 01 |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | PG Lab.    | 1      |

##### b) Lists of major equipments:

| S. No | Name of equipment  | Number |
|-------|--|--------|
| 1.    | Vacuum pump  | 02     |
| 2.    | U.V.Spectrophotometer                                    | 01     |
| 3.    | Biosafety Cabinet  | 01     |
| 4.    | Micro/Macro digestion chamber/units for sample digestion | 01     |
| 5.    | Vacuum Evaporator (Rotatory Type)                        | 01     |
| 6.    | Sonicator(UltraSonic)                                    | 01     |
| 7.    | Rotatory Shaker  | 01     |
| 8.    | Water Deionizer  | 01     |
| 9.    | Atomic absorption spectrophotometer (AAS)                | 01     |
| 10.   | GCMS   | 01     |



**GCMS with Head Space (Funded by RKVY)**



**Atomic Absorption Spectrophotometer(AAS) (Funded by RKVY)**

**c) Theory and Practical Batches:**

| <b>S. No.</b> | <b>Courses</b> | <b>Theory Batch</b> | <b>Practical Batch</b> |
|---------------|----------------|---------------------|------------------------|
| 1.            | Postgraduate   | 01                  | 01                     |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Most of practicals are conducted in the department by the students in presence of expert teachers.
- Some experiments are demonstrated on computers with the help of software.

#### 6.4.6. Supervision of students in PG programmes:

| S. No. | Name of the students  | Id. No.      | Advisor          | Admission year | Pass out year | Left year |
|--------|-----------------------|--------------|------------------|----------------|---------------|-----------|
| 1      | Dr. Ravindra Pratap   | V-3534/06/13 | Dr. Rachna Verma | 2013           | 2015          | -         |
| 2      | Dr. Mohd. Saif        | V-8320/14    | Dr. Rachna Verma | 2014           | 2016          | -         |
| 3      | Dr. Jai Prakash Yadav | V-8998/15    | Dr. Rachna Verma | 2015           | 2017          | -         |

#### 6.4.7. Feedback of stakeholders: NIL

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme                         | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |            |            |          |                   |
|--|--|---------|---------|---------|-------------------|---------------|------------|------------|----------|-------------------|
|  | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2         | Y 3        | Y4       | Y5 (Current Year) |
| M.V.Sc. (Veterinary Pharmacology and Toxicology) | 01 (06)  | 01 (06) | 01 (06) | 00 (06) | 00 (06)           | 05 (83.33)    | 05 (83.33) | 05 (83.33) | 06 (100) | 06 (100)          |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.4.9. ICT Application in Curricula Delivery:

The latest upgradation of the subject is linked through the whats app group. The practical demonstrations is viewed with the help of different interactive tools as CD-Rome, You Tube, Videos, Power Point Presentation, e-journals, Websites related to the subject and Delivery of specific lectures with the aid of power point presentation. Display of videos through projectors. The different techniques are discussed and implemented with the different meat technology experts through the preformed scientist groups.

#### 6.4.12.

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**M.V.Sc.**

**Veterinary Parasitology**

#### 6.4.1. Brief History of the degree programme

Postgraduate programme in the department was started in 2012.

#### Objective:

1. To impart postgraduate teaching.
2. To acquaint the students regarding the advancement in the epidemiology, diagnosis, treatment and control of different parasitic diseases.
3. To impart knowledge regarding parasitic management to the farmers and field veterinarians.

#### Accomplishments:

1. Studied and revealed problems of anthelmintic resistance prevailing in the gastrointestinal nematodes of small ruminants.
2. Evaluated some botanicals for their anthelmintic efficacy. Polyherbal mixer of *Embeliaribes* and *Vernoniaanthelmintica* was found to have considerable efficacy.
3. Carried out the parasitic profiles in the bovines of Ayodhya district.

#### 6.4.2. Faculty strength:

| S. No. | Sanctioned Faculty  | Faculty in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|---------------------|------------------|-----------------|---|
| 1.     | Professor           | -                | 1               | 1   |
| 2.     | Associate Professor | -                | 1               | 1   |
| 3.     | Assistant Professor | 2                | -               | 2   |

\*One Assistant Professor is pursuing Ph. D. degree programme.

#### 6.4.3. Technical and supporting staff:

| S. No. | Sanctioned post        | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|------------------------|----------------|-----------------|---|
| 1.     | Lab. Technician        | 1              | 0               | 1   |
| 2.     | Lab. Assistant         | 1              | 0               | 1   |
| 3.     | Assistant Accountant   | 1              | 0               | 1   |
| 4.     | Stenographer           | 0              | 1               | 1   |
| 5.     | Typist cum Storekeeper | 0              | 1               | 1   |
| 6.     | Animal Attendant       | 0              | 1               | 1   |
| 7.     | Sweeper                | 1              | 0               | 1   |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | PG Lab.    | 3      |

##### b) Lists of major equipments:

| S. No | Name of equipment                          | Number |
|-------|--|--------|
| 1.    | Microscopes including trinocular           | 20     |
| 2.    | Autoclave                                  | 01     |
| 3.    | BOD Incubator                              | 01     |
| 4.    | Bacteriological Incubator                  | 01     |
| 5.    | Hot air oven                               | 01     |
| 6.    | Laminar flow                               | 01     |
| 7.    | Deep freeze (-20 ° C)                      | 01     |
| 8.    | Cooling centrifuge                         | 01     |
| 9.    | Spectrophotometer                          | 01     |
| 10.   | Vertical slab gel electrophoresis assembly | 01     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Demonstration of procedures for the collection of samples from animals for the detection of the parasites.
- Demonstration of the procedures for the processing of clinical samples for parasitic detection.
- Identification of the parasites/cysts/eggs by morphological examination.
- Preservation of the parasites specimen.



**Analysis of the sample collected from the Clinics of the college for the Detection of the Parasitic Infestation**

**6.4.6. Supervision of students in PG programmes:**

| S. No. | Name of the students | Id. No.      | Advisor       | Admission year | Pass out year | Left year |
|--------|----------------------|--------------|---------------|----------------|---------------|-----------|
| 1.     | Dr. Dharm Veer Singh | V-4183/08/13 | Dr. V. K. Pal | 2013           | 2015          | -         |
| 2.     | Dr. Vipin Kumar      | V-3885/07/13 | Dr. V. K. Pal | 2013           | 2015          | -         |

**6.4.7. Feedback of stakeholders: Students feedback**

**6.4.8. Student Intake and Attrition in the Programme:**

| Name of Degree Programme          | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |        |                   | Attrition (%) |          |          |    |                   |
|-----------------------------------|--|---------|---------|--------|-------------------|---------------|----------|----------|----|-------------------|
|                                   | Y 1  | Y2      | Y 3     | Y4     | Y5 (Current Year) | Y 1           | Y2       | Y 3      | Y4 | Y5 (Current Year) |
| M.V.Sc. (Veterinary Parasitology) | 02 (06)  | 00 (06) | 00 (06) | - (00) | - (00)            | 04 (66.67)    | 06 (100) | 06 (100) | -  | -                 |

\*Data in parenthesis is the sanction strength of students in different years

#### **6.4.9. ICT Application in Curricula Delivery:**

- Use of power point presentation for lecture deliverance.
- Use of internet as supporting aid for the delivering theory lectures or practical.
- Discussion regarding parasitic diseases on parasitologist association whatsapp group.

#### **6.4.12.**

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal



**M.V.Sc.**

**Veterinary Microbiology**

#### 6.4.1. Brief History of the Degree Programme:

The postgraduate programme was started in year 2004.

#### Objective:

1. Teaching Veterinary Microbiology to undergraduate and post Graduate students.
2. To provide knowledge of all basic techniques require for handling of infectious disease.
3. To provide correct diagnosis of diseases for prevention and control of diseases.

#### Accomplishments:

1. Farm animals (Pigs, Buffaloes, Goats, and Sheep) appear to be the important reservoirs of MRSA.
2. Multi drug resistant strains were common in *S.aureus* isolates from farm animals.
3. The companion animal viz., horses and dogs harbour the MRSA which may be a source of infection for human beings.
4. Multiple Drug Resistant strains of *S. aureus* are common.

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 01               | 00              | 01  |
| 2.    | Associate Professor | 00               | 01              | 01  |
| 3.    | Assistant Professor | 02               | 00              | 02  |

\*

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post           | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|---------------------------|----------------|-----------------|---|
| 1.     | Store Keeper/Typist Clerk | 01             | 00              | 01  |
| 2.     | Lab. Technician           | 01             | 00              | 01  |
| 3.     | Steno                     | 00             | 01              | 01  |
| 4.     | Accounts Clerk            | 00             | 01              | 01  |
| 5.     | Lab. Assistant            | 01             | 00              | 01  |

|    |                  |    |    |    |
|----|------------------|----|----|----|
| 6. | Animal Attendant | 01 | 00 | 01 |
| 7. | Sweeper          | 01 | 00 | 01 |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular                     | Number |
|-------|--------------------------------|--------|
| 1.    | Bacteriology and Mycology Lab. | 01     |
| 2.    | Virology Lab.                  | 01     |
| 3.    | Veterinary Immunology Lab.     | 01     |
| 4.    | Molecular biology Lab.         | 01     |
| 5.    | Clinical diagnostic Lab.       | 01     |

##### b) Lists of major equipments:

| S. No | Name of equipment                           | Number |
|-------|---|--------|
| 1.    | Autoclave Horizontal                        | 01     |
| 2.    | Autoclave                                   | 01     |
| 3.    | Microscope                                  | 21     |
| 4.    | Ultra-violet microscope with U.V assembly   | 01     |
| 5.    | Incubator                                   | 02     |
| 6.    | Biological Oxygen demand (B.O.D.) Incubator | 01     |
| 7.    | Immunoelectrophoresis unit                  | 02     |
| 8.    | High speed Centrifuge                       | 01     |
| 9.    | Refrigerated centrifuge                     | 01     |
| 10.   | Inoculation cabin                           | 01     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Practical classes and hands on training are conducted regularly in departmental laboratory, Veterinary Clinical Complex (VCC) and Livestock Farm Complex (LFC).
- The staff members of the department introduce the students with different techniques of collection of samples from field and farm, isolation and identification of bacteria and diagnosis of diseases.
- Practicals are conducted with the help of flowchart and practical manuals along with learning by doing process in the guidance of teachers.

#### 6.4.6. Supervision of students in PG programmes:

| S. No. | Name of the students      | Id. No.      | Advisor         | Admission year | Pass out year | Left year |
|--------|---------------------------|--------------|-----------------|----------------|---------------|-----------|
| 1.     | Dr. Ankita Singh          | V-4176/08/13 | Dr. R. K. Joshi | 2013           | 2015          | -         |
| 2.     | Dr. Prerit Kumar Singh    | V-8322/14    | Dr. R. K. Joshi | 2014           | 2016          | -         |
| 3.     | Dr. ShivendraPratap Singh | V-5124/10/15 | Dr. R. K. Joshi | 2015           | 2017          | -         |

#### 6.4.7. Feedback of stakeholders: Yes

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme          | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |            |            |          |                   |
|-----------------------------------|--|---------|---------|---------|-------------------|---------------|------------|------------|----------|-------------------|
|                                   | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2         | Y 3        | Y4       | Y5 (Current Year) |
| M.V.Sc. (Veterinary Microbiology) | 01 (06)  | 01 (06) | 01 (06) | 00 (06) | 00 (06)           | 05 (83.33)    | 05 (83.33) | 05 (83.33) | 06 (100) | 06 (100)          |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.4.9. ICT Application in Curricula Delivery:

- Students are given lectures by power point presentations (PPT) with all recent updates and required photographs and videos.
- Latest techniques for the diagnosis of microbial diseases are discussed with the students for more accurate diagnosis.

#### 6.4.12.

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**M.V.Sc.**

**Veterinary Pathology**

#### 6.4.1. Brief History of the Degree Programme:

Postgraduate programme in the department was started in 2012.

#### Objective:

1. To produce competent Veterinary Pathologists for accurate disease diagnosis.
2. To make accurate disease diagnosis of the cases brought to the Veterinary Clinical Complex (VCC) by clinical pathology of different samples and histopathology of morbid materials.
3. To know the exact cause of death by conducting post-mortem examination.

#### Accomplishments:

1. Colibacillosis in the birds in the surrounding areas (Ayodhya and Sultanpur districts) has been controlled by diagnosis, treatment and awareness programme.
2. Diagnosed theileriasis as cause of mortality in the dairy animals under Kamdhenu Project of Govt. of Uttar Pradesh.
3. Controlled the mortality of spotted deer in Kanpur zoo by appropriate diagnosis and treatment.
4. Chick mortality in the surrounding areas of the university has been controlled by proper diagnosis viz., post-mortem examination, cultural examination and clinical pathology.

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 00               | 01              | 01  |
| 2.    | Associate Professor | 01               | 00              | 01  |
| 3.    | Assistant Professor | 01               | 01              | 02  |

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|-----------------|----------------|-----------------|---|
| 1.     | Lab. Technician | 01             | 00              | 01  |
| 2.     | Steno           | 00             | 01              | 01  |

|    |                   |    |    |    |
|----|-------------------|----|----|----|
| 3. | Asstt. Accountant | 01 | 00 | 01 |
| 4. | Lab. Assistant    | 01 | 00 | 01 |
| 5. | Junior Assistant  | 01 | 00 | 01 |
| 6. | Animal Attendant  | 01 | 00 | 01 |
| 7. | Sweeper           | 01 | 00 | 01 |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | PG Lab.    | 02     |

##### b) Lists of major equipments:

| S. No | Name of equipment   | Number |
|-------|---|--------|
| 1.    | Cryostat Microtome  | 01     |
| 2.    | Rotary microtome, AO Spencer type with thin sectioning facility | 03     |
| 3.    | Paraffin floatation bath ( 55-65 <sup>0</sup> C)                | 01     |
| 4.    | Paraffin bath/oven  | 01     |
| 5.    | Refrigerator  | 01     |
| 6.    | Monocular and Binocular microscopes                             | 28     |
| 7.    | Deep Freeze   | 01     |
| 8.    | Paraffin floatation bath (temp. Control 55-65 <sup>0</sup> C)   | 01     |
| 9.    | Autopsy table for small animals                                 | 01     |
| 10.   | Digital Camera with PC for Microscopy                           | 01     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Hands on training are given to the students about the techniques of P.M. examination and writing of P.M. report in large and small animals as well as birds.
- P.G. students are being trained by the department for clinical examination of blood, urine, skin scrapping and lymph node smears.

- Expertization is provided to the PG students for the preparation and interpretation of histopathological slides.
- Practical classes are conducted with the help of flow charts, practical manuals, gross specimens and histopathological slides.



**Demonstration of hydatid cyst in liver of pig. Post-mortem examination of bird.**

#### **6.4.6. Supervision of students in PG programmes:**

| <b>S. No.</b> | <b>Name of the students</b> | <b>Id. No.</b> | <b>Advisor</b> | <b>Admission year</b> | <b>Pass out year</b> | <b>Left year</b> |
|---------------|-----------------------------|----------------|----------------|-----------------------|----------------------|------------------|
| 1.            | Dr. Amit Kumar Verma        | V-7668/13      | Dr. D. Niyogi  | 2013                  | 2015                 | -                |
| 2.            | Dr. Babu Lal Yadav          | V-7669/13      | Dr. D. Niyogi  | 2013                  | 2015                 | -                |
| 3.            | Dr. Gaurav Kumar Singh      | V-8321/14      | Dr. D. Niyogi  | 2014                  | 2016                 | -                |
| 4.            | Dr. Ajay Kumar Vaish        | V-3840/07/14   | Dr. D. Niyogi  | 2014                  | 2016                 | -                |
| 5.            | Dr. Bharat Singh Yadav      | V-4180/08/14   | Dr. D. Niyogi  | 2014                  | 2016                 | -                |
| 6.            | Dr. Rahul Yadav             | V-4645/08/15   | Dr. D. Niyogi  | 2015                  | 2017                 | -                |
| 7.            | Dr. Awadhesh Kumar Yadav    | V-5695/11/16   | Dr. D. Niyogi  | 2016                  | 2018                 | -                |
| 8.            | Dr. Shivendra Mani Yadav    | V-5733/11/16   | Dr. D. Niyogi  | 2016                  | 2018                 | -                |
| 9.            | Dr. Abhishek Mishra         | V-5678/11/17   | Dr. D. Niyogi  | 2017                  | -                    | -                |
| 10.           | Dr. Rakesh Kumar Gupta      | V-5722/11/17   | Dr. D. Niyogi  | 2017                  | -                    | -                |



**6.4.7. Feedback of stakeholders: Yes**

**6.4.8. Student Intake and Attrition in the Programme:**

| Name of Degree Programme       | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |         |            |            |                   |
|--------------------------------|--|---------|---------|---------|-------------------|---------------|---------|------------|------------|-------------------|
|                                | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2      | Y 3        | Y4         | Y5 (Current Year) |
| M.V.Sc. (Veterinary Pathology) | 02 (06)  | 03 (06) | 01 (06) | 02 (06) | 02 (06)           | 04 (66.67)    | 03 (50) | 05 (83.33) | 04 (66.67) | 04 (66.67)        |

\*Data in parenthesis is the sanction strength of students in different years

**6.4.9. ICT Application in Curricula Delivery:**

- Students are given lectures by power point presentations (PPT) with all recent updates and required gross and microscopic photographs and videos.
- The diagnostic tools used for disease diagnosis like clinical examination of blood, faeces, urine, skin scraping and synovial fluid are demonstrated regularly to the students with the help of LCD projector and computer.
- Post mortem examination and histopathological examination for gross and microscopic lesions are conducted and demonstrated regularly.
- Biopsy samples and morbid materials are collected and processed followed by their demonstration with the help of microscopic assembly and LCD projector leading to accurate diagnosis of diseases.

**6.4.12.**

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**M.V.Sc.**

**Veterinary Public Health  
and Epidemiology**

#### 6.4.1. Brief History of the Degree Programme:

The postgraduate programme was started in 2009.

#### Objectives:

1. Postgraduate student education.
2. Prevention, control and eradication of zoonotic diseases
3. Protection of foods of animal origin through hygiene
4. Preservation of environment.
5. Training of farmers and livestock owners about source of infection, mode of transmission, prevention of zoonotic diseases and general precautions for prevention and control of zoonotic diseases.

#### Accomplishments:

1. Trained the PG students (2 M. V. Sc. students)
2. Established prevalence of ESBL producing *E. coli*, *Klebsiella* and other enterobacteria in food and environment.
3. Molecularly characterized the Methicillin Resistant *Staphylococcus aureus* from farm animals and domestic birds.
4. Published 3 books.
5. Organized celebration programme on “World Rabies Day” on 28<sup>th</sup> September, 2015 and 2016.
6. Demonstration of detection of adulteration in milk in Kisan Mela held on 5<sup>th</sup> and 6<sup>th</sup> April 2018, in the University campus.



Paintings competition on “World Rabies Day” on 28 September, 2015.



**Demonstrated the detection of adulteration in milk in Kisan Mela held on 5<sup>th</sup> and 6<sup>th</sup> April 2018, in the University campus.**

**6.4.2. Faculty Strength:**

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 1                | 0               | 1   |
| 2.    | Associate Professor | 1                | 0               | 1   |
| 3.    | Assistant Professor | 0                | 1               | 1   |

**6.4.3. Technical and Supporting staff:**

| S. No. | Sanctioned Post  | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/ other regulatory bodies |
|--------|------------------|----------------|-----------------|--|
| 1.     | Lab. Technician  | 1              | 0               | 1  |
| 2.     | Lab. Assistant   | 1              | 0               | 1  |
| 3.     | Senior Clerk     | 0              | 1               | 1  |
| 4.     | Senior Steno     | 1              | 0               | 1  |
| 5.     | Animal Attendant | 1              | 0               | 1  |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | PG Lab.    | 3      |

\* Lab. facilities are common for UG and PG.

##### b) Lists of major equipments:

| S. No | Name of equipment         | Number |
|-------|---------------------------|--------|
| 1.    | Autoclave                 | 4      |
| 2.    | Hot air oven              | 3      |
| 3.    | Bacteriological incubator | 3      |
| 4.    | Centrifuge                | 4      |
| 5.    | Spectrophotometer         | 1      |
| 6.    | Microscope                | 9      |
| 7.    | BOD incubator             | 2      |
| 8.    | Laminar flow              | 1      |
| 9.    | Vertex Shaker             | 1      |
| 10.   | Magnetic stirrer          | 1      |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Practicals are conducted as per the courses outlined by the ICAR. Practicals are well explained and demonstrated in the laboratories.
- For practical approach the samples of milk, meat and water are collected for their quality assessment.

#### 6.4.6. Supervision of students in PG programmes:

| S. No. | Name of the students | Id. No.      | Advisor          | Admission year | Pass out year | Left year |
|--------|----------------------|--------------|------------------|----------------|---------------|-----------|
| 1.     | Dr. Rajeev Prajapati | V-3532/06/13 | Dr. Namita Joshi | 2013           | 2015          | -         |
| 2.     | Dr. Akanksha Yadav   | V-4618/09/14 | Dr. Namita Joshi | 2014           | 2016          | -         |

#### 6.4.7. Feedback of stakeholders:

- Feedbacks from the students are taken regularly in the lecture hall and practical classes.

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme                          | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |            |          |          |                   |
|---|--|---------|---------|---------|-------------------|---------------|------------|----------|----------|-------------------|
|   | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y1            | Y2         | Y 3      | Y4       | Y5 (Current Year) |
| M.V.Sc. (Veterinary Public Health & Epidemiology) | 01 (06)  | 01 (06) | 00 (06) | 00 (06) | 00 (06)           | 05 (83.33)    | 05 (83.33) | 06 (100) | 06 (100) | 06 (100)          |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.4.9. ICT Application in Curricula Delivery:

- Delivery of specific lectures with the aid of power point presentation.
- Display of videos of through projectors.

#### 6.4.12.

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**M.V.Sc.**

**Animal Nutrition**

#### **6.4.1. Brief History of the Degree Programme:**

Postgraduate programme in the department was started in 2004.

#### **Objective:**

- Research on the field oriented problems and the future needs of the livestock and poultry feed industry.
- To advise farmers to feed balanced and quality ration to livestock and poultry to economize dairy and poultry farming.
- Farmers training for feeding and nutritional management of livestock and poultry to meet their requirements and for better livelihood.

#### **Accomplishments:**

- Provided quality teaching to M.V.Sc. students.
- Students cleared national level ICAR-NET examination and all the Post graduate students of the department got employment.
- A national level ANA-workshop-cum-symposium organized by the department.
- Developed a phytobiotic mixture as an alternative of antibiotic growth promoter is in process.
- Analyzed the feed samples of zoo, dairy farms, farmers and feed industries.
- Received best paper oral and poster presentation awards in national conferences.



**A national level ANA-workshop-cum-symposium on “*Nutritional Challenges and Strategies for Sustainable Animal Production and health in Eastern Plain zone*” organized by the department in 2016.**





**IX BIENNIAL CONFERENCE OF  
ANIMAL NUTRITION ASSOCIATION**

**Best Paper (Oral) Award**

The research paper entitled Effect of Ashwagandha as alternative for an Antibiotic on the performance of broiler chickens authored by V. K. Singh, V. K. Dwivedi, D. Tewari, S. Gautam, V. B. Singh & SK. Chakraborty has been adjudged as the **Best Paper (Oral)** in the Technical Session Nutrition, Livelihood & Environment at the IX Biennial Animal Nutrition Association Conference held at College of Veterinary Science, Assam Agricultural University, Guwahati during January 22-24, 2015.

  
BN Saikia  
Organizing Secretary

  
Narayan Dutta  
General Secretary

  
AK Verma  
President




**IX BIENNIAL CONFERENCE OF  
ANIMAL NUTRITION ASSOCIATION**

**Best Paper (Poster) Award**

The research paper entitled Effect of supplementation of different levels of poly-herbal mixture on the performance & haematology in broiler chicken authored by M. Khan, V. K. Singh, S. Gautam, D. Tewari, V. B. Singh & D. Dwivedi has been adjudged as the **Best Paper (Poster)** in the Technical Session Nutrition, Livelihood & Environment at the IX Biennial Animal Nutrition Association Conference held at College of Veterinary Science, Assam Agricultural University, Guwahati during January 22-24, 2015.

  
BN Saikia  
Organizing Secretary

  
Narayan Dutta  
General Secretary

  
AK Verma  
President

**6.4.2. Faculty Strength:**

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 00               | 01              | 01  |
| 2.    | Associate Professor | 01               | 00              | 01  |
| 3.    | Assistant Professor | 02               | 00              | 01  |

\* One Assistant Professor is pursuing Ph.D. degree programme.

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post   | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|-------------------|----------------|-----------------|---|
| 1.     | Lab. Technician   | 01             | 00              | 01  |
| 2.     | Stenographer      | 00             | 01              | 01  |
| 3.     | Asstt. Accountant | 01             | 00              | 01  |
| 4.     | Lab. Assistant    | 01             | 00              | 01  |
| 5.     | Junior Assistant  | 00             | 01              | 01  |
| 6.     | Animal Attendant  | 01             | 00              | 01  |
| 7.     | Sweeper           | 00             | 01              | 01  |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | PG Lab.    | 01     |

##### b) Lists of major equipments:

| S. No | Name of equipment          | Number |
|-------|----------------------------|--------|
| 1.    | Protein Analyzer           | 01     |
| 2.    | Hot air oven               | 02     |
| 3.    | Electronic monopan balance | 02     |
| 4.    | Muffle furnace             | 02     |
| 5.    | Suction pump               | 01     |
| 6.    | Digestion set              | 02     |
| 7.    | Soxhlet apparatus set      | 02     |
| 8.    | Centrifuge machine         | 01     |
| 9.    | Spectrophotometer          | 01     |
| 10.   | Fibre estimation apparatus | 01     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Collection of feed samples from field
- Analysis of samples in the lab
- Assignments allotted to group of students
- Research conducted by students
- Formulation of balanced ration for dairy farm
- Exposure visit to feed factory/farms



#### 6.4.6. Supervision of students in PG programmes:

| S. No. | Name of the students       | Id. No.      | Advisor               | Admission year | Pass out year | Left year |
|--------|----------------------------|--------------|-----------------------|----------------|---------------|-----------|
| 1      | Dr. Dheeraj Dwivedi        | V-3849/07/13 | Dr. Vijay Kumar Singh | 2013           | 2015          | -         |
| 2      | Dr. Virendra Bahadur Singh | V-4217/08/13 | Dr. Vijay Kumar Singh | 2013           | 2015          | -         |
| 3      | Dr. Sonu Kumar Chakara     | V-3738/07/14 | Dr. Vijay Kumar Singh | 2014           | 2016          | -         |
| 4      | Dr. Vikas Vikram Singh     | V-4662/09/14 | Dr. Vijay Kumar Singh | 2014           | 2016          | -         |
| 5      | Dr. Prateek Singh          | V-5719/11/16 | Dr. Vijay Kumar Singh | 2016           | 2018          | -         |
| 6      | Dr. Amit Tiwari            | V-5690/11/17 | Dr. Vijay Kumar Singh | 2017           | -             | -         |
|        |                            |              |                       |                |               |           |

|   |                           |              |                       |      |   |   |
|---|---------------------------|--------------|-----------------------|------|---|---|
| 7 | Dr. Alka Yadav            | V-9084/15/17 | Dr. Vijay Kumar Singh | 2017 | - | - |
| 8 | Dr. DileepKumar Chaudhary | V-5698/11/17 | Dr. Vijay Kumar Singh | 2017 | - | - |

#### 6.4.7. Feedback of stakeholders: Yes

- Feedback from students through proforma.
- Interaction with parents, farmers and feed industry persons
- Questionnaire from farmers



**Scientists-Farmers interaction (Farmers Feedback Mechanism)**

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme   | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |            |          |            |                   |
|----------------------------|--|---------|---------|---------|-------------------|---------------|------------|----------|------------|-------------------|
|                            | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2         | Y 3      | Y4         | Y5 (Current Year) |
| M.V.Sc. (Animal Nutrition) | 02 (06)  | 02 (06) | 00 (06) | 01 (06) | 03 (06)           | 04 (66.67)    | 04 (66.67) | 06 (100) | 05 (83.33) | 03 (50)           |

\*Data in parenthesis is the sanction strength of students in different years

#### **6.4.9. ICT Application in Curricula Delivery:**

- Developed power point slides to teach the postgraduate students.
- Guide the postgraduate students to collect the research materials and advanced study materials online.

#### **6.4.12.**

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**M.V.Sc.**

**Animal Genetics and  
Breeding**

#### 6.4.1. Brief History of the Degree Programme:

The postgraduate programme was started in the year 2004.

#### Objective:

- To impart M.V.Sc. students education as per V.C.I./ I.C.A.R. norms
- To address research on the problems associated with future needs of the livestock and poultry industries
- To emphasizes on genetic improvement and conservation of Indigenous livestock genetic resources
- To advise farmers to maintain genetically improved livestock to get optimum production from them
- To provide training to the farmers for better livestock and poultry production to meet their requirements and for better livelihood.

#### Accomplishments:

- Provided quality teaching to M.V.Sc. Students.
- Developed the concept of e-learning for P.G. students
- All the M.V.Sc. students of the department are employed.
- Demonstrated the carrier oriented professional lectures for P.G. students
- Phenotypic characterization of Jaunpuri Goat breed
- Conserved and propagated the germplasm of Murrah buffaloes through PT programme of Network Project on Murrah buffaloes.
- **Research Projects:**

| S.N o. | Name of project   | Funding agency | Duration | Budget (in Lakh) | Investigators           |
|--------|---|----------------|----------|------------------|-------------------------|
| 1.     | Conservation, propagation and genetic improvement of Sahiwal cattle in eastern UP | RKVY           | 2013-19  | 288.76           | Dr. V.K. Singh (Co. PI) |
| 2.     | Strengthen of Veterinary Clinical Complex   | RKVY           | 2018-19  | 496.00           | Dr. V.K. Singh (PI)     |
| 3.     | Frozen semen Bank for Indigenous Livestock  | RKVY           | 2018-20  | 181.00           | Dr. V.K. Singh (Co. PI) |

- **Awards:**

| S.No. | Name of Award                | Name of the Scientist | Awarding Organization   | Year |
|-------|------------------------------|-----------------------|---|------|
| 1.    | Young Scientist Award        | Dr. Jaswant Singh     | Society for Scientific Development in Agriculture and Technology (SSDAT), Meerut (U.P.) | 2016 |
| 2.    | Excellence in Teaching Award | Dr. Jaswant Singh     | JMD Educational Society, Etah, U.P.   | 2016 |
| 3.    | Young Teacher Award          | Dr. Manoj Verma       | Society for Agriculture Innovation and Development (SAID) Ranchi, (Jharkhand)           | 2017 |
| 4.    | Remarkable Research Work     | Dr. Jaswant Singh     | International Conference on Food and Agriculture, Endling conferences                   | 2017 |
| 5.    | Young Teacher Award          | Dr. Jaswant Singh     | Science & Tech. Society for integrated rural improvement                                | 2017 |
| 6.    | Excellence in Teaching Award | Dr. Jaswant Singh     | Society for Agriculture Innovation and Development (SAID) Ranchi, (Jharkhand)           | 2018 |

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 01               | -               | 01  |
| 2.    | Associate Professor | -                | 01              | 01  |
| 3.    | Assistant Professor | 02               | -               | 01  |

\* One Assistant Professor is pursuing Ph.D. degree programme.

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post          | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|--------------------------|----------------|-----------------|---|
| 1.     | Lab. Technician          | 01             | 00              | 01  |
| 2.     | Accounts Clerk           | 01             | 00              | 01  |
| 3.     | Lab. Assistant           | 01             | 00              | 01  |
| 4.     | Typist/Store Keeper      | 00             | 01              | 01  |
| 5.     | Animal Attendant/Sweeper | 00             | 01              | 01  |



#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | PG Lab.    | 01     |

##### b) Lists of major equipments:

| S. No | Name of equipment                   | Number |
|-------|-------------------------------------|--------|
| 1.    | Computers                           | 10     |
| 2.    | Hot air oven 450x600 x 450 mm       | 01     |
| 3.    | Water bath                          | 01     |
| 4.    | Slide Projector                     | 01     |
| 5.    | Centrifuge machine                  | 01     |
| 6.    | Triple beam Balance 111 gm and 3 kg | 01     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

Practicals are conducted with the help of data available on Livestock Farm Complex (L.F.C.) on different livestock species to estimate different genetic parameters as well as with the help of practical manuals prepared as per VCI curriculum along with learning by doing process in the guidance of teachers. Various activities perform in labs are as follows-

- Collection and analysis of production and reproduction data
- Cytogenetic experiment with the help of visuals aid
- Assignments allotted to group of students
- Demonstration of cattle judging on dairy farm

#### 6.4.6. Supervision of students in PG programmes:

| S. No. | Name of the students | Id. No. | Advisor | Admission year | Pass out year | Left year |
|--------|----------------------|---------|---------|----------------|---------------|-----------|
| 1.     | -                    | -       | -       | -              | -             | -         |
| 2.     | -                    | -       | -       | -              | -             | -         |

#### 6.4.7. Feedback of stakeholders: Yes

- University organized KisanMela, linkage between KVKs people, progressive farmers and faculty.
- College at own level started to organize faculty- parents- students interaction, farmers-industry-faculty orientation.

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme             | Actual student admitted in last five years (From session 2013-14 to 2017-18) |            |            |            |                   | Attrition (%) |             |             |             |                   |
|--------------------------------------|--|------------|------------|------------|-------------------|---------------|-------------|-------------|-------------|-------------------|
|                                      | Y 1  | Y2         | Y 3        | Y4         | Y5 (Current Year) | Y 1           | Y2          | Y 3         | Y4          | Y5 (Current Year) |
| M.V.Sc. (Animal Genetics & Breeding) | 00<br>(06)   | 00<br>(06) | 00<br>(06) | 00<br>(06) | 00<br>(06)        | 06<br>(100)   | 06<br>(100) | 06<br>(100) | 06<br>(100) | 06<br>(100)       |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.4.9. ICT Application in Curricula Delivery:

- Developed power point slides to teach the undergraduate and postgraduate students.
- Guide the post graduate students to collect the research materials and advanced study materials online.
- Refer the undergraduate students to use the learning material developed by ICAR.
- Developed the concept of e-learning among U.G. and P.G. students in department computer lab.

#### 6.4.12.

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**M.V.Sc.**

**Livestock Production and  
Management**

#### 6.4.1. Brief History of the Degree Programme:

The M.V.Sc. programme in the department was started in 2007.

#### Objective:

- To impart quality teaching and hands on practical in different subject of postgraduate courses.
- To create the infrastructural facilities including the required number of livestock for PG research.
- To improve the genetic potential of various species of livestock and poultry.
- To improve the modern managemental practices develop to the farmers and live stock entrepreneurs.
- To act as two way channel between University and the farmers to identify the field based livestock and poultry problems and also to pass on the remedial measures.
- To supply improved breeding stock to the farmers.
- To motivate and encourage the farmers for establishing livestock and poultry based self employment.
- To aware the farmers about various species of fodder crops and agronomical practices.
- To address research on the problems associated with future needs of the livestock and poultry industries
- To emphasizes on genetic improvement and conservation of Indigenous livestock genetic resources
- Farmers training for better livestock and poultry production to meet their requirements and for better livelihood.

#### Accomplishments:

- Provided quality teaching to PG. students.
- Students cleared national level ICAR-NET examination.
- Developed integrated model to enhance the farmer's income.
- Motivated the farmers to visit the livestock farm to gain knowledge about various aspects of livestock farming.

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 1                | 0               | 1   |
| 2.    | Associate Professor | 0                | 2               | 2   |
| 3.    | Assistant Professor | 1                | 2               | 3   |

**6.4.3. Technical and Supporting staff:**

| <b>S. No.</b> | <b>Sanctioned Post</b> | <b>Staff in place</b> | <b>Vacant position</b> | <b>Staff recommended by the ICAR/UGC/VCI/other regulatory bodies</b> |
|---------------|------------------------|-----------------------|------------------------|--|
| 1.            | Steno                  | 00                    | 01                     | 01   |
| 2.            | Poultry Supervisor     | 00                    | 01                     | 01   |
| 3.            | Dairy Supervisor       | 00                    | 01                     | 01   |
| 4.            | Hatchery Technician    | 00                    | 01                     | 01   |
| 5.            | Senior Assistant       | 00                    | 01                     | 01   |
| 6.            | Generator Operator     | 00                    | 01                     | 01   |
| 7.            | Lab. Technician        | 01                    | 00                     | 1  |
| 8.            | Assistant Accountant   | 00                    | 01                     | 01   |
| 9.            | Junior Assistant       | 01                    | 00                     | 01   |
| 10.           | Lab. Assistant         | 01                    | 00                     | 01   |
| 11.           | Milk Recorder          | 01                    | 00                     | 01   |
| 12.           | Animal Attendant       | 05                    | 01                     | 06   |
| 13.           | Watchman               | 00                    | 01                     | 03   |
| 14.           | Animal Attendant       | 09                    | 00                     | 01   |
| 15.           | Tractor Driver         | 01                    | 00                     | 01   |
| 16.           | Tubal Operator         | 00                    | 01                     | 01   |
| 17.           | Sweeper/Attendant      | 00                    | 01                     | 01   |
| 18.           | Sweeper                | 01                    | 00                     | 01   |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | PG Lab.    | 2      |

##### b) Lists of major equipments:

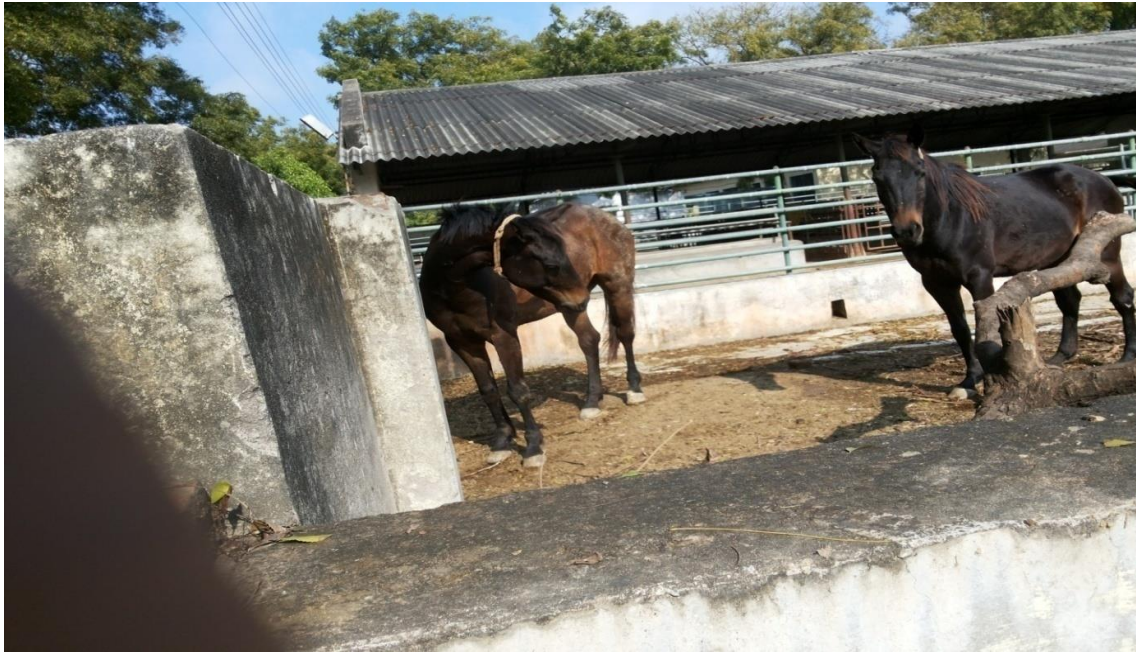
| S. No | Name of equipment   | Number |
|-------|---|--------|
| 1.    | Shearing and clipping equipment                                     | 03     |
| 2.    | Tattooing set tags etc  | 03     |
| 3.    | Vernier's Calipers  | 04     |
| 4.    | Screw Gauge   | 06     |
| 5.    | Branding set  | 03     |
| 6.    | Castrator (for different species)                                   | 01     |
| 7.    | Gerber's centrifuge   | 01     |
| 8.    | Housing models, dairy models, photographs of different breeds, etc. | 17     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Practicals are conducted at LFC with live animals of different species and also with the help of flowchart as per the curriculum along with learning by doing process in the guidance of teachers.
- Different species and breeds for the practical exposure are maintained at the department.



**Kathiawari horse**



**Large White Yorkshire Swine**





**Flock of Red Cornish Birds**

**6.4.6. Supervision of students in PG programmes:**

| <b>S. No.</b> | <b>Name of the students</b>    | <b>Id. No.</b> | <b>Advisor</b>     | <b>Admission year</b> | <b>Pass out year</b> | <b>Left year</b> |
|---------------|--------------------------------|----------------|--------------------|-----------------------|----------------------|------------------|
| 1.            | Dr. Archana Sachan             | V-7667/13      | Dr. P. S. Pramanik | 2013                  | 2015                 | -                |
| 2.            | Dr. Shiv Swaroop               | V-3877/07/13   | Dr. P. S. Pramanik | 2013                  | 2015                 | -                |
| 3.            | Dr. Ravindra Kumar Chakravarti | V-3871/07/13   | Dr. P. S. Pramanik | 2013                  | 2015                 | -                |
| 4.            | Dr. Gaurav Panday              | V-5098/10/15   | Dr. P. S. Pramanik | 2015                  | 2017                 | -                |
| 5.            | Dr. Birendra Singh             | V-9093/15/17   | Dr. P. S. Pramanik | 2017                  | -                    | -                |
| 6.            | Dr. Prabhart Gautam            | V-5715/11/17   | Dr. P. S. Pramanik | 2017                  | -                    | -                |
| 7.            | Dr. Satish Kumar               | V-5727/11/17   | Dr. P. S. Pramanik | 2017                  | -                    | -                |
| 8.            | Dr. Vishwa Nath Gupta          | V-5743/11/17   | Dr. P. S. Pramanik | 2017                  | -                    | -                |

**6.4.7. Feedback of stakeholders: Yes**



#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme                    | Actual student admitted in last five years (From session 2013-14 to 2017-18) |            |            |            |                   | Attrition (%) |             |               |             |                   |
|---|--|------------|------------|------------|-------------------|---------------|-------------|---------------|-------------|-------------------|
|   | Y 1  | Y2         | Y 3        | Y4         | Y5 (Current Year) | Y 1           | Y2          | Y 3           | Y4          | Y5 (Current Year) |
| M.V.Sc. (Livestock Production & Management) | 03<br>(06)   | 00<br>(06) | 01<br>(06) | 00<br>(06) | 04<br>(06)        | 03<br>(50)    | 06<br>(100) | 05<br>(83.33) | 06<br>(100) | 02<br>(33.33)     |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.4.9. ICT Application in Curricula Delivery:

- Refer the postgraduate students to use the learning material developed by ICAR.
- Developed power point slides to teach the postgraduate students.

#### 6.4.12.

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**M.V.Sc.**

**Veterinary Gynaecology and  
Obstetrics**

#### 6.4.1. Brief History of the Degree Programme:

The P.G. degree programme was started in the year 2012.

#### Objective:

- Strengthening of PG teaching. Research in field of animal reproduction and guide the students to compete ARS/NET and other competitive examination.
- Application Assisted Reproductive Technologies to augment fertility in eastern part of U.P.
- Explore newer and cheaper herbal therapeutics to combat infertility problem in domestic animals.
- Development, standardization of new semen diluter and their application in day by day practice.
- Production of sexed semen of indigenous livestock.

#### Accomplishments:

1. Developed suitable dilutor for preservation of buffalo bull semen in 2013.
2. Produce sex sorted buffalo bull spermatozoa in 2013
3. Selection of bull/ calf on the basis of Ultra Sound based evaluation in 2014
4. Developed technique for storage of epididymal spermatozoa in 2016.

#### • Research Projects:

| S.No | Name of project   | Funding agency | Duration | Budget (in Lakh) | Investigators  |
|------|---|----------------|----------|------------------|--|
| 1    | Conservation, propagation and genetic improvement of Sahiwal cattle in eastern UP | RKVY           | 2013-19  | 288.76           | Dr.SushantSrivastava -PI<br>Dr.Rabindra Kumar- Co-PI<br>Dr. Rajesh Kumar Co-PI   |
| 2    | Establishment of residual analysis laboratory                                     | RKVY           | 2013-17  | 125.37           | Dr.SushantSrivastava(Co. PI)   |
| 3    | Strengthen of Veterinary Clinical Complex   | RKVY           | 2018-19  | 181.00           | Dr.SushantSrivastava (Co. PI)<br>Dr.Rabindra Kumar(Assoc.Scientist)<br>Dr. Rajesh Kumar (Assoc.Scientist)<br>Dr.Bhupendra Singh(Assoc.Scientist) |
| 4    | Frozen semen Bank for Indigenous Livestock  | RKVY           | 2018-20  | 496.00           | Dr.SushantSrivastava –PI<br>Dr.Rabindra Kumar- Co-PI<br>Dr. Rajesh Kumar Co-PI   |

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 00               | 01              | 01  |
| 2.    | Associate Professor | 01               | 00              | 01  |
| 3.    | Assistant Professor | 03               | 00              | 03  |

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post                           | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|---|----------------|-----------------|---|
| 1.     | Lab. Technician/ Vet. Stockman/Compounder | 01             | 01              | 02  |
| 2.     | Lab. Assistant                            | 01             | 01              | 02  |
| 3.     | Animal Attendant                          | 03             | 00              | 03  |
| 4.     | Sweeper/Attendant                         | 00             | 01              | 01  |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | PG Lab.    | 03     |

##### b) Lists of major equipments:

| S. No | Name of equipment                | Number |
|-------|----------------------------------|--------|
| 1.    | Binocular Microscope             | 04     |
| 2.    | Computer Assisted Semen Analyzer | 01     |
| 3.    | Flowcytometer                    | 01     |
| 4.    | Ultra Sonography Machine         | 01     |
| 5.    | Phase contrast microscope        | 01     |
| 6.    | Biofreezer                       | 01     |
| 7.    | Cold cabinet                     | 01     |
| 8.    | CO2 Incubator                    | 01     |
| 9.    | Deep freezer                     | 02     |
| 10.   | Steriozoom microscope            | 01     |

## Equipments In the department



**Phase contrast, Straw Printing machine, Straw filling, Biofreezer**



**BD FACS Flowcytometer**



**Phase Contrast Microscope**

**c) Theory and Practical Batches:**

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

**6.4.5. Conduct of Practical and Hands-on-Training:**

- Most of practical are conducted in the department, VCC and Frozen semen laboratory by the students in presence of expert teachers.
- Some experiments are demonstrated on computers with the help of software.



#### 6.4.6. Supervision of students in PG programmes:

| S. No. | Name of the students       | Id. No.      | Advisor               | Admission year | Pass out year | Left year |
|--------|----------------------------|--------------|-----------------------|----------------|---------------|-----------|
| 1      | Dr. Sunil Kumar Verma      | V-4213/08/13 | Dr. SushantSrivastava | 2013           | 2015          | -         |
| 2      | Dr. Arun Kumar Chaudhary   | V-4179/08/13 | Dr. SushantSrivastava | 2013           | 2015          | -         |
| 3      | Dr. Shailendra Kumar Verma | V-4209/08/13 | Dr. SushantSrivastava | 2013           | 2015          | -         |
| 4      | Dr. Mukesh Kumar           | V-4194/08/13 | Dr. SushantSrivastava | 2013           | 2015          | -         |
| 5      | Dr. Manoj Kumar Verma      | V-4191/08/13 | Dr. SushantSrivastava | 2013           | 2015          | -         |
| 6      | Dr. JitendraKumar          | V-8318/08/14 | Dr. SushantSrivastava | 2014           | 2016          | -         |
| 7      | Dr. Anand Kumar            | V-4174/08/14 | Dr. SushantSrivastava | 2014           | 2016          | -         |
| 8      | Dr. VikashChaudhary        | V-8319/14    | Dr. SushantSrivastava | 2014           | 2016          | -         |
| 9      | Dr. Saurabh                | V-420/08/14  | Dr. SushantSrivastava | 2014           | 2016          | -         |
| 10     | Dr. Vijay Gautam           | V-9599/16    | Dr. SushantSrivastava | 2016           | 2018          | -         |
| 11     | Dr. Narendra Singh         | V-10098/17   | Dr. SushantSrivastava | 2017           | -             | -         |
| 12     | Dr. Shamsad Ali            | V9079/15/17  | Dr. SushantSrivastava | 2017           | -             | -         |

#### 6.4.7. Feedback of stakeholders: Yes

- Farmer interaction and recording of information regarding animal husbandry practices.

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme                      | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |            |          |            |                   |
|---|--|---------|---------|---------|-------------------|---------------|------------|----------|------------|-------------------|
|   | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2         | Y 3      | Y4         | Y5 (Current Year) |
| M.V.Sc. (Veterinary Gynaecology & Obstetrics) | 05 (06)  | 04 (06) | 00 (06) | 01 (06) | 02 (06)           | 01 (16.67)    | 02 (33.33) | 06 (100) | 05 (83.33) | 04 (66.67)        |

\*Data in parenthesis is the sanction strength of students in different years

#### **6.4.9. ICT Application in Curricula Delivery:**

- What's app group. Sharing the article and technical article through what's app among student and department of veterinary gynaecology and obstetrics.

#### **6.4.12.**

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal



**M.V.Sc.**

**Veterinary Surgery and  
Radiology**

#### 6.4.1. Brief History of the Degree Programme:

The M. V. Sc. Degree programme was started in the year 2004.

#### Objective:

1. The main objective of the department is teaching, research and extension.
2. PG teaching with best possible teaching materials like power point presentations, models, display of charts in the gallery and lab of department etc.
3. To develop surgical skill in the M.V.Sc. students.
4. To develop herbal wound healers for the management of different types of wounds and biomaterials for reconstruction of large wounds and hernia in animals.
5. To provide surgical treatment to the sick animals at Veterinary Clinical Complex (VCC), Livestock Farm Complex (LFC) and at farmer's door step.

#### Accomplishments:

1. The department developed different biomaterials for wound healing and reconstruction of hernia. Three patents have been applied.
2. Performed surgical operation in domestic and wild animals.
3. One student got Ph.D. admission in IVRI and presently working as Assistant Professor, Department of VSR, C.V.Sc. & A.H., SVPUAT, Meerut (UP).
4. One PG student got the position of Assistant Commandant in SSB.

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 01               | 00              | 01  |
| 2.    | Associate Professor | 01               | 00              | 01  |
| 3.    | Assistant Professor | 01               | 02              | 03  |

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|-----------------|----------------|-----------------|---|
| 1.     | Radiographer    | 00             | 01              | 01  |
| 2.     | Lab. Technician | 01             | 00              | 01  |
| 3.     | Accounts Clerk  | 00             | 01              | 01  |
| 4.     | Lab. Assistant  | 00             | 01              | 01  |

|    |                     |    |    |    |
|----|---------------------|----|----|----|
| 5. | Junior Clerk/Typist | 01 | 00 | 01 |
| 6. | Watchman/<br>Animal | 01 | 00 | 01 |
| 7. | Animal Attendant    | 02 | 00 | 02 |
| 8. | Sweeper             | 01 | 00 | 01 |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular       | Number |
|-------|------------------|--------|
| 1.    | Biomaterial Lab. | 01     |
| 2.    | Library          | 01     |

##### b) Lists of major equipments:

| S. No | Name of equipment            | Number |
|-------|------------------------------|--------|
| 1.    | General surgical instruments | 03     |
| 2.    | Electro-cautery unit         | 01     |
| 3.    | Diathermy unit               | 01     |
| 4.    | Autoclave                    | 03     |
| 5.    | Hot air oven                 | 01     |
| 6.    | Bone saw                     | 01     |
| 7.    | Laryngoscope                 | 02     |
| 8.    | Dog nail cutter              | 01     |
| 9.    | Binocular microscope         | 02     |
| 10.   | Nerve muscle stimulator      | 01     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Students are getting desired practical and hands-on-training as per the curriculum. Practical for different regimen of anesthesia and different type of surgery are conducted regularly on clinical cases at VCC.
- For radiology practical, radiographs of normal and abnormal organs are maintained in the department. These radiographs are shown to the students during practical classes.



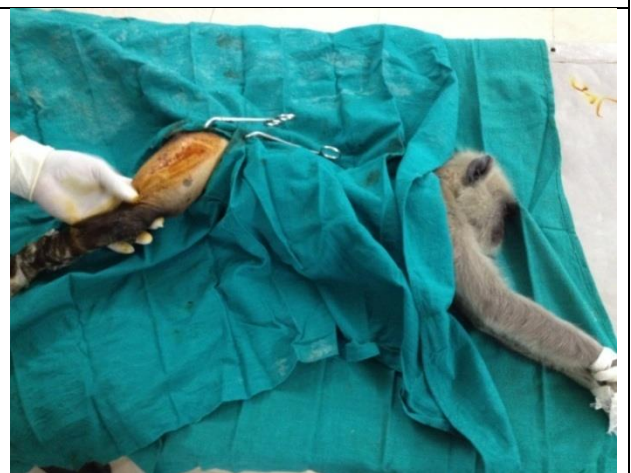
**Use of Ultrasonography for Clinical Diagnosis of Enlarged Thyroid Gland**



**Treatment of Cervico-Vaginal Prolapse in Buffalo**



**Treatment of dogs of CRPF**



**Orthopedic Surgery in a Monkey**



**Surgical Correction of Pyomatra in a Bitch**

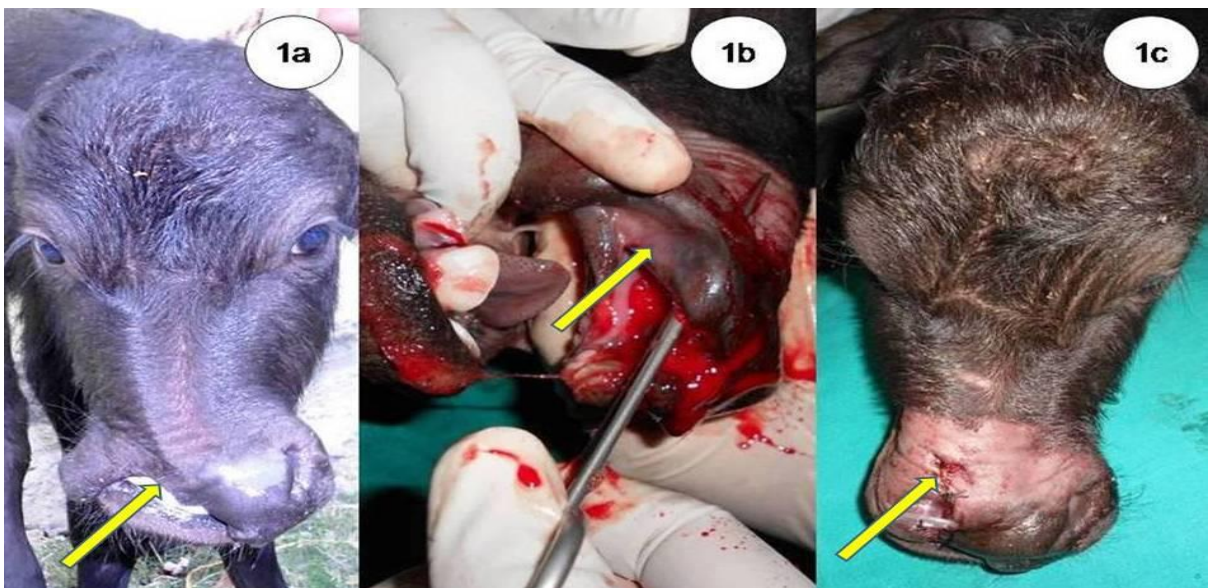


**Radiographic Diagnosis of Inguinal hernia with Gravid Uterus in a Bitch**





**Caesarian section in a marmoset (*Callithrix jacchus*)**



**New terms in Veterinary surgery  
MUFFLOSCHISIS and MUFFLORRHAPHY/ MUUFFLOPLASTY**

**6.4.6. Supervision of students in PG programmes:**

| S. No. | Name of the students   | Id. No.      | Advisor          | Admission year | Pass out year | Left year |
|--------|------------------------|--------------|------------------|----------------|---------------|-----------|
| 1      | Dr. Mahesh Kumar Verma | V-4635/09/14 | Dr. A.K. Gangwar | 2014           | 2016          | -         |
| 2      | Dr. Ashish Kumar       | V-8323/14    | Dr. SonuJaiswal  | 2014           | 2016          | -         |

|    |                             |              |                       |      |      |   |
|----|-----------------------------|--------------|-----------------------|------|------|---|
| 3  | Dr.Amit Kumar Sachan        | V-9000/15    | Dr. A.K. Gangwar      | 2015 | 2017 | - |
| 4  | Dr.Priti Patel              | V-4642/09/15 | Dr. A.K. Gangwar      | 2015 | 2017 | - |
| 5  | Dr. Vivek Verama            | V-5134/10/15 | Dr. SonuJaiswal       | 2015 | 2017 | - |
| 6  | Dr. Vishwas A               | V-9001/15    | Dr. SonuJaiswal       | 2015 | 2017 | - |
| 7  | Dr. Alok Kumar              | V-8999/15    | Dr. H. N. Singh       | 2015 | 2017 | - |
| 8  | Dr. Santosh Kumar Chaurasia | V-5726/11/16 | Dr. SonuJaiswal       | 2016 | 2018 | - |
| 9  | Dr. Shaurya Kumar           | V-5732/11/16 | Dr. A.K. Gangwar      | 2016 | 2018 | - |
| 10 | Dr. ShriPrakash Verma       | V-9597/16    | Dr. SonuJaiswal       | 2016 | 2018 | - |
| 11 | Dr. Vipin Kumar Yadav       | V-5741/11/16 | Dr. A.K. Gangwar      | 2016 | 2018 | - |
| 12 | Dr. PragyaPrakash Mishra    | V-10094/17   | Dr. H. N. Singh       | 2017 | -    | - |
| 13 | Dr. Atar Singh Yadav        | V10093/17    | Dr. A.K. Gangwar      | 2017 | -    | - |
| 14 | Dr. Ranjit Kumar            | V-10095/17   | Dr. Kh. Sangeeta Devi | 2017 | -    | - |
| 15 | Dr. Ravi PrakashGoyal       | V-100096/17  | Dr. Kh. Sangeeta Devi | 2017 | -    | - |
| 16 | Dr. Yogendra Singh          | V-10097/17   | Dr. A.K. Gangwar      | 2017 | -    | - |
| 17 | Dr. Pravez Ahmad            | V-10593/18   | -                     | 2018 | -    | - |

**6.4.7. Feedback of stakeholders:** No

**6.4.8. Student Intake and Attrition in the Programme:**

| Name of Degree Programme                 | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |            |            |            |                   |
|--|--|---------|---------|---------|-------------------|---------------|------------|------------|------------|-------------------|
|  | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2         | Y 3        | Y4         | Y5 (Current Year) |
| M.V.Sc. (Veterinary Surgery & Radiology) | 00 (06)  | 02 (06) | 05 (06) | 04 (06) | 05 (06)           | 06 (100)      | 04 (66.67) | 01 (16.67) | 02 (33.33) | 01 (16.67)        |

\*Data in parenthesis is the sanction strength of students in different years

#### **6.4.9. ICT Application in Curricula Delivery:**

- Power point presentations are used for teaching purpose.
- A whatsapp group of the members of ISVS is present in which newer techniques are shared by different scientists and faculty members of different colleges.
- Video of different surgical procedures were made for teaching purposes. Videos from youtube are also used for enhancing the practical knowledge of the students.

#### **6.4.12.**

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**M.V.Sc.**

**Veterinary Medicine**



#### 6.4.1. Brief History of the Degree Programme:

The postgraduate programme in the department was started in 2012.

#### Objective:

1. Teaching Veterinary Medicine to the postgraduate students.
2. Treatment, prevention and control diseases in animals.

#### Accomplishments:

1. Published book on “Role of Veterinarian in Safe, Sufficient and Sustainable Animal Health and Production”.
2. Organized the National symposium on “Role of Veterinarian in Safe, Sufficient and Sustainable Animal Health and Production” on World Veterinary Day, dated 30 April, 2016.
3. Organized the National Symposium on “Antibiotic Resistance and Future Prospects in Human and Animal Health” on 29<sup>th</sup> April, 2017”.
4. Organized training in collaboration with THE BROOKE INDIA on “Animal Welfare and Equine Medicine” dated 27<sup>th</sup> to 29<sup>th</sup> June, 2016.
5. Organized training in collaboration with THE BROOKE INDIA on “EQUINE HEALTH AND WELFARE”, dated 11-13 November, 2016.



**National Symposium on “Role of Veterinarian in Safe, Sufficient and Sustainable Animal Health and Production” on 30 April, 2016**



**National Symposium on “Antibiotic Resistance and Future Prospects in Human and Animal Health” 29<sup>th</sup> April, 2017**



**Training Programme on Animal Welfare and Equine Medicine (27<sup>th</sup> to 29<sup>th</sup> June, 2016)**



**Camps organized at Mautwara on 29/01/2016**



**Camps organized at Veterinary Hospital Anand Nagar Bhitari on 19/08/2017**

**6.4.2. Faculty Strength:**

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 00               | 01              | 01  |
| 2.    | Associate Professor | 00               | 02              | 01  |
| 3.    | Assistant Professor | 03               | 03              | 03  |

\* One Assistant Professor is pursuing Ph.D. degree programme

**6.4.3. Technical and Supporting staff:**

| S. No. | Sanctioned Post  | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/ other regulatory bodies |
|--------|------------------|----------------|-----------------|--|
| 1.     | Junior Assistant | 01             | 00              | 01   |
| 2.     | Lab Technician   | 01             | 01              | 02   |
| 3.     | Steno            | 00             | 01              | 01   |
| 4.     | Lab Assistant    | 02             | 00              | 02   |
| 5.     | Animal Attendant | 01             | 01              | 02   |
| 6.     | Sweeper          | 01             | 00              | 01   |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | PG Lab.    | 02     |

##### b) Lists of major equipments:

| S. No | Name of equipment      | Number |
|-------|------------------------|--------|
| 1.    | Autoclave              | 01     |
| 2.    | Balance                | 04     |
| 3.    | pH meter               | 02     |
| 4.    | Oven                   | 01     |
| 5.    | Microscope             | 19     |
| 6.    | Binocular microscope   | 01     |
| 7.    | Haemometer             | 16     |
| 8.    | Haemocytometer         | 05     |
| 9.    | Spectrometer           | 01     |
| 10.   | Serological water bath | 01     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Practical classes and hands on training are conducted regularly in department laboratory, clinics and camps organized in villages.
- Attention is given to individual student in handling animals and recording data as per scheduled practical.

#### 6.4.6. Supervision of students in PG programmes:

| S. No. | Name of the students   | Id. No.      | Advisor             | Admission year | Pass out year | Left year |
|--------|------------------------|--------------|---------------------|----------------|---------------|-----------|
| 1      | Dr. Sarad Kumar        | V-4207/08/13 | Dr. Satyavrat Singh | 2013           | 2015          | -         |
| 2      | Dr. Ashish Pandey      | V-4625/09/14 | Dr. Satyavrat Singh | 2014           | 2016          | -         |
| 3      | Dr. Pankaj Kumar Gupta | V-5107/10/15 | Dr. Satyavrat Singh | 2015           | 2017          | -         |
|        |                        |              |                     |                |               |           |

|   |                                |               |                     |      |      |   |
|---|--------------------------------|---------------|---------------------|------|------|---|
| 4 | Dr. AshwaniKumarGautam         | V- 5089/10/15 | Dr. SatyavratSingh  | 2015 | 2017 | - |
| 5 | Dr. Sandeep Yadav              | V- 5117/10/15 | Dr. Satyavrat Singh | 2015 | 2017 | - |
| 6 | Dr. Dinesh Kumar Yadav         | V- 5700/11/16 | Dr. Satyavrat Singh | 2016 | 2018 | - |
| 7 | Dr.RamJatan                    | V- 6398/12/16 | Dr. Satyavrat Singh | 2016 | 2018 | - |
| 8 | Dr.Ramnayan Yadav              | V- 9091/15/17 | Dr J. P. Singh      | 2017 | -    | - |
| 9 | Dr. Yadav SandeepkumarJanardan | V- 10592/18   | Dr J. P. Singh      | 2018 | -    | - |

#### 6.4.7. Feedback of stakeholders: Yes

- Students are given lectures by power point presentations with all recent updates and required photographs and videos.
- The pictures of cases are also received from owners and veterinarians or shared within veterinarians for best possible treatment modalities. These are discussed with the students to increase their exposure.

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme      | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |            |         |            |                   |
|-------------------------------|--|---------|---------|---------|-------------------|---------------|------------|---------|------------|-------------------|
|                               | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2         | Y 3     | Y4         | Y5 (Current Year) |
| M.V.Sc. (Veterinary Medicine) | 01 (06)  | 01 (06) | 03 (06) | 02 (03) | 01 (03)           | 05 (83.33)    | 05 (83.33) | 03 (50) | 01 (33.33) | 02 (66.67)        |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.4.9. ICT Application in Curricula Delivery:

- Students are given lectures by power point presentations with all recent updates and required photographs and videos.
- The pictures of cases are also received from owners and veterinarians or shared among veterinarians for best possible treatment modalities. These are discussed with the students to increase their exposure.

**6.4.12.**

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal



**M.V.Sc.**

**Veterinary and Animal  
Husbandry Extension  
Education**

#### 6.4.1. Brief History of the Degree Programme:

The M. V. Sc. degree programme was started in the year 2012.

#### Objective:

1. Postgraduate students education
2. Research in field level on the problems of farmers and the future needs of the livestock and poultry farming.
3. Dissemination of advances in research into field of Veterinary and Animal Husbandry through KisanMelas, Health camps and KisanGosthi.
4. Advise the farmers to adopt technologies developed by Scientists for improving livestock productivity.
5. Farmers training for better livestock and poultry production to meet their requirements and for better livelihood.
6. Department have very important role in training of veterinarians for transfer of technologies to Farmers, farm women, rural unemployed youth.

#### Accomplishments:

1. Provided quality teaching to M.V.Sc. students.
2. Students of the department cleared national level UGC-NET examination.
3. All the M.V.Sc. students of the department are employed.
4. Organized KisanMela and KisanGosthi for extension activity.

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 00               | 01              | 01  |
| 2.    | Associate Professor | 01               | 00              | 01  |
| 3.    | Assistant Professor | 01               | 01              | 01  |

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|-----------------|----------------|-----------------|---|
| 1.     | Lab. Technician | 01             | 00              | 01  |
| 2.     | Steno           | 00             | 01              | 01  |



|    |                  |    |    |    |
|----|------------------|----|----|----|
| 3. | Accounts Clerk   | 01 | 00 | 01 |
| 4. | Lab. Assistant   | 00 | 01 | 01 |
| 5. | Junior Assistant | 01 | 00 | 01 |
| 6. | Animal Attendant | 01 | 00 | 01 |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular                                 | Number |
|-------|--|--------|
| 1.    | Audio-visual technology Lab.               | 01     |
| 2.    | Photography cum Graphic Unit               | 01     |
| 3.    | Group Discussion Chamber/Mini Seminar Room | 01     |
| 4.    | Museum cum Livestock Advisory Unit         | 01     |

##### b) Lists of major equipments:

| S. No | Name of equipment     | Number |
|-------|-----------------------|--------|
| 1.    | Projection screens    | 02     |
| 2.    | Epidiascope           | 01     |
| 3.    | Overhead Projector    | 01     |
| 4.    | Slide Projector       | 01     |
| 5.    | Amplifiers            | 02     |
| 6.    | Stage mikes           | 11     |
| 7.    | Horns                 | 04     |
| 8.    | Television (coloured) | 01     |
| 9.    | Video Camera          | 01     |
| 10.   | Camera 35 mm          | 01     |

##### c) Theory and Practical Batches:

| S. No. | Courses      | Theory Batch | Practical Batch |
|--------|--------------|--------------|-----------------|
| 1.     | Postgraduate | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Practicals are conducted with the help of flow chart and practical manuals along with learning by doing process in the guidance of teachers.
- Data are collected at field level about the farmer's problems.
- Different literatures like leaflet, posters, charts and flash cards are prepared.
- Assignments are allotted to group of students.
- Different awareness programmes are conducted for the farmers.
- Exposure visit to dairy by farmers for their awareness.

#### 6.4.6. Supervision of students in PG programmes:

| S. No. | Name of the students    | Id. No.       | Advisor         | Admission year | Passout year | Left year |
|--------|-------------------------|---------------|-----------------|----------------|--------------|-----------|
| 1      | Dr. Santosh Kumar Singh | V- 8316/14    | Dr. R. K. Singh | 2014           | 2016         | -         |
| 2      | Dr. Sharad Kumar Singh  | V-8317/14     | Dr. R. K. Singh | 2014           | 2016         | -         |
| 3      | Dr. Ashoo               | V- 5064/09/15 | Dr. R. K. Singh | 2015           | 2017         | -         |
| 4      | Dr. Mustak Ahamad       | V-9595/16     | Dr. R. K. Singh | 2016           | 2018         | -         |
| 5      | Dr. Vijayendra Verma    | V-9596/16     | Dr. R. K. Singh | 2016           | 2018         | -         |
| 6      | Dr. Pradeep Kumar       | V- 5716/11/17 | Dr. R. K. Singh | 2017           | -            | -         |

#### 6.4.7. Feedback of stakeholders: Yes

- Feedback proforma through students.
- Questionnaire through farmers.
- University organized Kisan Mela, linkage between KVKs people, progressive farmers and faculty.
- College at own level start to organize faculty-parents- students interaction.



**Visit in KisanMela stall by Visitor Farmers interacting about Integrated Farming**



**Interaction with farmers about feeding of animals using overhead projector in the practical lab**

**6.4.8. Student Intake and Attrition in the Programme:**

| Name of Degree Programme                                    | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |            |            |            |                   |
|---|--|---------|---------|---------|-------------------|---------------|------------|------------|------------|-------------------|
|   | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2         | Y 3        | Y4         | Y5 (Current Year) |
| M.V.Sc. (Veterinary & Animal Husbandry Extension Education) | 00 (06)  | 02 (06) | 01 (06) | 02 (06) | 01 (06)           | 06 (100)      | 04 (66.67) | 05 (83.33) | 04 (66.67) | 05 (83.33)        |

\*Data in parenthesis is the sanction strength of students in different years

#### **6.4.9. ICT Application in Curricula Delivery:**

- Developed power point slides to teach postgraduate students.
- Guide the postgraduate students to collect the research materials and advanced study materials online.
- Use audio-visual aids for teaching of postgraduate students.

#### **6.4.12.**

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**Self Study Report for the**  
**Accreditation**  
**of**  
**Ph.D. Programmes**



**2019**

**College of Veterinary Science and Animal Husbandry,  
Narendra Deva University of Agriculture and  
Technology Kumarganj, Ayodhya– 224229**

**Ph.D.**

**Veterinary Pharmacology  
and Toxicology**

#### 6.4.1. Brief History of the Degree Programme:

The Ph.D. degree programme in the department was started in year 2013.

#### Objective:

1. To produce the good quality students and scientists who are capable enough to contribute animal health, research related to Pharmacology and nation building.
2. To screen the herbs in nearby area of the university for their pharmacological effects.

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 00               | 01              | 01  |
| 2.    | Associate Professor | 01               | 00              | 01  |
| 3.    | Assistant Professor | 01               | 01              | 02  |

#### Faculty details

| S.No. | Name of the faculty | Post held           |
|-------|---------------------|---------------------|
| 1.    | Dr.RachnaVerma*     | Associate Professor |
| 2.    | Dr. Rishi Kant      | Assistant Professor |

\*At present the faculty is on lien.

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post  | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|------------------|----------------|-----------------|---|
| 1.     | Lab Technician   | 00             | 01              | 01  |
| 2.     | Accounts clerk   | 00             | 01              | 01  |
| 3.     | Lab. Assistant   | 01             | 00              | 01  |
| 4.     | Steno            | 00             | 01              | 01  |
| 5.     | Junior Clerk     | 01             | 00              | 01  |
| 6.     | Animal Attendant | 01             | 00              | 01  |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | Ph.D. Lab. | 01     |

##### b) Lists of major equipments:

| S. No | Name of equipment  | Number |
|-------|--|--------|
| 1.    | Vacuum pump  | 02     |
| 2.    | U.V.Spectrophotometer                                    | 01     |
| 3.    | Biosafety Cabinet  | 01     |
| 4.    | Micro/Macro digestion chamber/units for sample digestion | 01     |
| 5.    | Vacuum Evaporator (Rotatory Type)                        | 01     |
| 6.    | Sonicator(UltraSonic)                                    | 01     |
| 7.    | Rotatory Shaker  | 01     |
| 8.    | Water Deionizer  | 01     |
| 9.    | Atomic absorption spectrophotometer                      | 01     |
| 10.   | GCMS   | 01     |



**GCMS with Head Space (Funded by RKVY)**





**Atomic Absorption Spectrophotometer (AAS): (Funded by RKVY)**

**c) Workshops and other instructional units being utilized for the award of the Ph.D. Degree Programme:**

Livestock Farm Complex (LFC) and Veterinary Clinical Complex (VCC) are utilized for the award of the Ph.D. Degree Programme.

**d) Theory and Practical Batches:**

| S. No. | Courses                | Theory Batch | Practical Batch |
|--------|------------------------|--------------|-----------------|
| 1.     | Ph.D. degree programme | 01           | 01              |

**6.4.5. Conduct of Practical and Hands-on-Training:**

- Most of practicals are conducted in the department by the students in presence of expert teachers.
- Some experiments are demonstrated on computers with the help of software.

#### 6.4.6. Supervision of students in Ph.D. degree programmes:

| S. No. | Name of the students | Id. No.   | Advisor          | Admission year | Pass out year | Left year |
|--------|----------------------|-----------|------------------|----------------|---------------|-----------|
| 1.     | Dr. P. K. Atul       | V-7699/13 | Dr. Rachna Verma | 2013           | 2017          | -         |

#### 6.4.7. Feedback of stakeholders: Nil

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme                     | Actual student admitted in last five years (From session 2013-14 to 2017-18) |         |         |         |                   | Attrition (%) |          |          |          |                   |
|--|--|---------|---------|---------|-------------------|---------------|----------|----------|----------|-------------------|
|  | Y 1  | Y2      | Y 3     | Y4      | Y5 (Current Year) | Y 1           | Y2       | Y 3      | Y4       | Y5 (Current Year) |
| Ph.D. (Veterinary Pharmacology & Toxicology) | 01 (05)  | 00 (05) | 00 (01) | 00 (01) | 00 (01)           | 04 (80)       | 05 (100) | 01 (100) | 01 (100) | 01 (100)          |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.4.9. ICT Application in Curricula Delivery:

- The latest upgradation of the subject is linked through the whatsapp group. The practical demonstrations is viewed with the help of different interactive tools as CD-Rome, Youtube, Videos, Power Point Presentation, e-journals and Websites related to the subject of Livestock Products Technology.
- Delivery of specific lectures with the aid of power point presentation. Display of videos through projectors. The different techniques is discussed and implemented with the different meat technology experts through the preformed scientist groups.

#### 6.4.12.

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**Ph.D**

**Animal Nutrition**

#### 6.4.1. Brief History of the Degree Programme:

The department is offering PhD in Animal Nutrition from the session 2012-2013.

#### Objective:

1. Research on the field oriented problems and the future needs of the livestock and poultry industry.
2. To advise farmers to feed balanced and quality ration to livestock and poultry with adopting the technologies developed by scientists and to economize dairy and poultry farming.
3. Farmers training for better livestock and poultry production to meet their requirements and for better livelihood.

#### 6.4.2. Faculty Strength:

| S.No. | Sanctioned Faculty  | Faculty in place | Vacant position | Faculty recommended by the ICAR/UGC/VCI/other regulatory bodies |
|-------|---------------------|------------------|-----------------|---|
| 1.    | Professor           | 00               | 01              | 01  |
| 2.    | Associate Professor | 01               | 00              | 01  |
| 3.    | Assistant Professor | 02               | 00              | 01  |

#### Faculty details

| S.No. | Name of the faculty   | Post held           |
|-------|-----------------------|---------------------|
| 1.    | Dr. Vijay Kumar Singh | Associate Professor |
| 2.    | Dr. DharmeshTiwari*   | Assistant Professor |
| 3.    | Dr. Sachin Gautam     | Assistant Professor |

\*At present the faculty is pursuing Ph.D. degree programme.

#### 6.4.3. Technical and Supporting staff:

| S. No. | Sanctioned Post  | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|--------|------------------|----------------|-----------------|---|
| 1.     | Lab. Technician  | 01             | 00              | 01  |
| 2.     | Stenographer     | 00             | 01              | 01  |
| 3.     | Asstt Accountant | 01             | 00              | 01  |
| 4.     | Lab. Assistant   | 01             | 00              | 01  |
| 5.     | Junior Assistant | 00             | 01              | 01  |
| 6.     | Animal Attendant | 01             | 00              | 01  |
| 7.     | Sweeper          | 00             | 01              | 01  |

#### 6.4.4. Classrooms and Laboratories:

##### a) Details of Classrooms and Laboratories:

| S. No | Particular | Number |
|-------|------------|--------|
| 1.    | Ph.D. Lab. | 01     |

##### b) Lists of major equipments:

| S. No | Name of equipment          | Number |
|-------|----------------------------|--------|
| 1.    | Protein Analyzer           | 01     |
| 2.    | Hot air oven               | 02     |
| 3.    | Electronic monopan balance | 02     |
| 4.    | Muffle furnace             | 02     |
| 5.    | Suction Pump               | 01     |
| 6.    | Digestion set              | 02     |
| 7.    | Soxhlet apparatus set      | 02     |
| 8.    | Centrifuge machine         | 01     |
| 9.    | Spectrophotometer          | 01     |
| 10.   | Fibre estimation apparatus | 01     |

##### c) Workshops and other instructional units being utilized for the award of the Ph.D. Degree Programme:

Livestock Farm Complex (LFC) and Veterinary Clinical Complex (VCC) are utilized for the award of the Ph.D. Degree Programme.

##### d) Theory and Practical Batches:

| S. No. | Courses                | Theory Batch | Practical Batch |
|--------|------------------------|--------------|-----------------|
| 1.     | Ph.D. degree programme | 01           | 01              |

#### 6.4.5. Conduct of Practical and Hands-on-Training:

- Collection of feed samples from field and analysis of samples in the lab
- Research conducted by students
- Formulation of balanced ration for dairy farm

#### 6.4.6. Supervision of students in Ph.D. degree programmes:

| S. No. | Name of the students      | Id. No.         | Advisor               | Admission year | Pass out year | Left year |
|--------|---------------------------|-----------------|-----------------------|----------------|---------------|-----------|
| 1.     | Dr. VirendraBahadur Singh | V-4217/08/13/15 | Dr. Vijay Kumar Singh | 2015           | 2018          | -         |

#### 6.4.7. Feedback of stakeholders:

- Feed back proforma through students
- Interaction with parents, farmers and feed industry persons
- Questionnaire through farmers
- University organized Kisan Mela, linkage between KVKs people, Progressive farmers and faculty. College at own level start to organize faculty- parents- students interaction, farmers-industry-faculty orientation.

#### 6.4.8. Student Intake and Attrition in the Programme:

| Name of Degree Programme | Actual student admitted in last five years (From session 2013-14 to 2017-18) |            |            |            |                   | Attrition (%) |             |            |             |                   |
|--------------------------|--|------------|------------|------------|-------------------|---------------|-------------|------------|-------------|-------------------|
|                          | Y 1  | Y2         | Y 3        | Y4         | Y5 (Current Year) | Y 1           | Y2          | Y 3        | Y4          | Y5 (Current Year) |
| Ph.D. (Animal Nutrition) | 00<br>(05)   | 00<br>(05) | 01<br>(01) | 00<br>(01) | 00<br>(01)        | 05<br>(100)   | 05<br>(100) | 00<br>(00) | 01<br>(100) | 01<br>(100)       |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.4.9. ICT Application in Curricula Delivery:

- Guide the Ph.D. students to collect the research materials and advanced study materials online.

#### 6.4.12.

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Signature of Dean of the College with Date & Seal

**Self Study Report for the**  
**Accreditation**  
**of**  
**College of Veterinary Science**  
**and Animal Husbandry**



**(2013-14 to 2017-18)**

**College of Veterinary Science and Animal Husbandry,  
Narendra Deva University of Agriculture and Technology  
Kumarganj, Ayodhya– 224229**

# **Self Study Report for the Accreditation of College of Agriculture, NDUAT**

## **6.5 Self Study Report of the College**

College of Veterinary Science and Animal Husbandry was started under Narendra Deva University of Agriculture and Technology, Kumarganj, Faizabad in March, 1994. The foundation stone of the college main building was laid down in the University main campus at Narendra Nagar (Kumarganj) on March 10, 1994 by the then Governor of U.P His Excellency Shri Moti Lal Vora. The Academic Council and Board of Management of the University accepted in Toto, the implementation of Veterinary Council of India (VCI), Minimum Standards of Veterinary Education- degree course (B.V.Sc. and A.H.) Regulations, 1993, Gazetted in the Extraordinary Gazette No. 57, dated Feb. 7: 1994.

The college houses 17 departments as follows-

1. Veterinary Anatomy and Histology
2. Veterinary Physiology and Biochemistry
3. Animal Genetics and Breeding
4. Livestock Production and Management
5. Veterinary and Animal Husbandry Extension Education
6. Veterinary Parasitology
7. Veterinary Microbiology
8. Animal Nutrition
9. Veterinary Pathology
10. Veterinary Pharmacology and Toxicology
11. Veterinary Public Health and Epidemiology
12. Livestock Products Technology
13. Veterinary Surgery and Radiology
14. Veterinary Gynaecology and Obstetrics
15. Veterinary Medicine
16. Veterinary Clinical Complex (VCC)
17. Livestock Farm Complex (LFC)





#### 6.5.1.1. College Dean's Office Establishment:

|                                   |                 |
|-----------------------------------|-----------------|
| Name of the Dean                  | Dr. V. K. Singh |
| Mode of selection                 | Nominated       |
| Date of selection of present Dean | 27-10-2017      |
| Tenure                            | 3 Years         |

#### Staff Position in the Dean's Secretariat:

| S. No. | Name of Post                        | Sanctioned | Filled |
|--------|-------------------------------------|------------|--------|
| 1.     | AO                                  | 1          |        |
| 2.     | PS/Sr. Steno                        | 1          | 1      |
| 3.     | Accountant                          | 1          | 1      |
| 4.     | Asstt.Accountant                    | 2          | 1      |
| 5.     | Store Keeper                        | 1          | 1      |
| 6.     | Academic Assistant/Typist           | 2          | 1      |
| 7.     | Establishment Assistant/ Jr. Clerk/ | 2          | 1      |
| 8.     | Registry Kar. Asstt./ Driver        | 3          | 1      |
| 9.     | Computer Typist                     | 2          | 1      |
| 10.    | A.Attendant                         | 5          | 4      |
| 11.    | Messenger                           | 1          | 1      |
| 12.    | Attendant                           | 1          |        |
| 13.    | Sweeper/Attendant                   | 1          | 1      |

#### Infrastructure/facilities available in the Dean's Secretariat:

| S. No. | Establishment                   | Number of Room |
|--------|---------------------------------|----------------|
| 1.     | Dean Chamber                    | 01             |
| 2.     | Office of Steno/Typist          | 01             |
| 3.     | Account section                 | 01             |
| 4.     | Dispatch Section/ Print Section | 01             |

#### 6.5.1.2. Monitoring Mechanism for Quality Education (on-line):

The Dean is the highest Administrative Officer at the college level. He has the responsibility of executing and monitoring the various working activities of teaching, research and extension with due support of the subordinate Heads, Associate Professors, Assistant Professors and the Technical staff thereof of the respective departments.

Monitoring is carried out regularly at the college and university level. The directives received as per the Hon'ble Vice Chancellor and Directors of the university are being implemented as such at the college level.

The monitoring system is also evaluated by the team of Veterinary Council of India (VCI) comprising of the distinguished Veterinarian and often the Eminent Scholars of different central and state agencies. Semester system (As per VCI, 2009) and Annual System (As per VCI 2016) for the B.V.Sc. & A.H. and Semester System for the M.V.Sc. and Ph.D. students are followed for the imparting the education at the college level. Examination and result declaration is centrally governed by the office of Registrar at university level.

#### **6.5.1.3 CC/ Board of Studies:**

The Board of Faculty of College of Veterinary Science and Animal Husbandry whose chairman is Dean, College of Veterinary Science and Animal Husbandry serves as Board of Studies of the college for proper facilitation and conduct of academic activities of the college.

#### **Dates of conduct of meetings and major recommendations made by Board of Studies:**

| <b>S. No.</b> | <b>Date of Meeting</b> | <b>Major recommendations</b>  |
|---------------|------------------------|---|
| 1.            | 20.12.2014             | <ul style="list-style-type: none"> <li>Request to Hon'ble Vice Chancellor to sanction two non-compounded P.G. increment to newly appointed Assistant Professors of the college.</li> </ul>  |
| 2.            | 24.04.2015             | <ul style="list-style-type: none"> <li>Request to Hon'ble Vice Chancellor to forward the application to the Chief Secretary, Govt. of Uttar Pradesh to sanction Non Practicing Allowance (NPA) to all faculty of the college.</li> </ul>  |
| 3.            | 12.04.2016             | <ul style="list-style-type: none"> <li>Request to the Registrar to put up the agenda in the Academic Council regarding permission for pursuing Ph.D. after completion of three years regular service.</li> <li>Request to Hon'ble Vice Chancellor to provide the benefit of two non-compounded P.G. increments to newly appointed Assistant Professors of the college.</li> <li>Request to Director Administration &amp; Monitoring to expedite the process of fixation of AGP (7000, 8000 &amp; 10000) for the faculty.</li> </ul> |
| 4.            | 08.12.2017             | <ul style="list-style-type: none"> <li>Request to the Registrar to put up the agenda in the Academic Council regarding permission to Assistant Professors for pursuing Ph.D. degree programme.</li> </ul>   |
| 5.            | 07.03.2018             | <ul style="list-style-type: none"> <li>Request to the Registrar to put up the agenda in the Academic Council regarding Implementation of PG courses in the College as per recommendations of the Vth Dean's Committee.</li> <li>Request to Hon'ble Vice Chancellor to take initiative for sanction (from the Govt. of Uttar Pradesh) of the post of the Dean of the college.</li> </ul>   |
| 6.            | 07.05.2018             | <ul style="list-style-type: none"> <li>Request to the Registrar to put up the agenda in the Academic Council regarding implementation of new and restructured Postgraduate Curricula &amp; Syllabi as proposed by Education Division, ICAR, New Delhi, April, 2009.</li> </ul>  |

|    |            |  |
|----|------------|--|
|    |            | <ul style="list-style-type: none"> <li>Request to Hon'ble Vice Chancellor to take initiative for MoU with other Institutions in an attempt to share the laboratory facilities and expertise.</li> </ul>  |
| 7. | 28.06.2018 | <ul style="list-style-type: none"> <li>Request to the Director Administration &amp; Monitoring to take initiative for advertisement and recruitment of remaining sanctioned post of Assistant Professor and Associate Professor of the college.</li> </ul> |

#### 6.5.1.4. Anti Ragging Cell:

The Committee regarding Anti-ragging Cell in the college has been constituted Vide College Order No. 2215 dated 28.3.2018. Anti-ragging cell at university level is also in place under the purview of DSW. The Committee regarding Anti-ragging Cell in the college has been constituted as follows-

| S. No. | Name  | Position |
|--------|---|----------|
| 1.     | Dr. P. S. Pramanik, Professor, LPM          | Chairman |
| 2.     | Dr. A. K. Gangwar, Associate Professor, VSR | Member   |
| 3.     | Dr. Rishi Kant, Asstt. Prof., VPT           | Member   |
| 4.     | Dr. Amit Singh, Asstt. Prof., VPA           | Member   |
| 5.     | Dr. P. K. Maurya, Asstt. Prof., VPB         | Member   |

For past few years, no serious incidence of ragging is reported in the college. The college is strictly complying the provisions of the UGC regulations on curbing the menace of ragging in higher educational institutions, 2009.

#### 6.5.1.5. Biological Waste Disposal Facility:

Biological wastes produced in the college during various teaching and research processes are disposed of properly taking care of its proper restriction to populations. A committee to monitor proper disposal of Biomedical Animal waste has been constituted Vide College Order No. 2215 dated 28.3.2018. The Burial method of the Biological Waste disposal is being adopted. The Proposal for the Incinerator purchase is under process. A committee at the college level regarding biomedical waste disposal has been constituted as follows-

| S. No. | Name   | Position |
|--------|--|----------|
| 1.     | Dr. R. K. Joshi, Prof., Vet. Microbiology    | Chairman |
| 2.     | Dr. Chandra Shekhar, Assoc. Prof., VPE       | Member   |
| 3.     | Dr. D. Niyogi, Assoc. Prof., Vet. Pathology  | Member   |
| 4.     | Dr. Sonu Jaiswal, Assoc. Prof., Vet. Surgery | Member   |
| 5.     | Dr. S. V. Singh, Asstt. Prof., vet. Medicine | Member   |
| 6.     | Dr. K. D. Singh, Asstt. Prof., LFC           | Member   |

#### 6.5.1.6. Institutional Ethics Committee for Experiment on Animals: Yes.

The Institutional Animal Ethics Committee has been constituted Vide Order No. 1883, dated 08.12.2017. The registration Number of IAEC is 2060/GO/REBi-S/Re-L/19/CPCSEA. The detail of the committee is mentioned as follows-

| S. No. | Name  | Position         |
|--------|---|------------------|
| 1.     | Dr. V. K. Singh, Prof., AGB                 | Chairman         |
| 2.     | Dr. S. K. Maurya, Asstt. Prof. VPB          | Member Secretary |
| 3.     | Dr. SushantSrivastava, Assoc. Prof, VGO     | Member           |
| 4.     | Dr. A. K. Gangwar, Associate Professor, VSR | Member           |
| 5.     | Dr. Rishi Kant, Asstt. Prof., VPT           | Member           |

#### 6.5.1.7. Committee for Prevention of Sexual Harassment of Women at Work Places:

Committee for Prevention of Sexual Harassment of Women is functional at college level, is been constituted Vide Order No. 533, dated 23.08.2018 and measures are adopted as per the Act with the involvement of the varied faculties in the committee. In the last Five Years No case has been reported regarding the Sexual Harassment of Women in the college. The Committee regarding Anti-ragging Cell in the college has been constituted as follows-

| S. No. | Name                                       | Position |
|--------|--|----------|
| 1.     | Dr. Namita Joshi, Prof., VPE               | Chairman |
| 2.     | Dr. P. S. Pramanik, Professor, LPM         | Member   |
| 3.     | Dr. Rishi Kant, Asstt. Prof., VPT          | Member   |
| 4.     | Dr. Kh. Sangeeta, Asstt. Prof., VSR        | Member   |
| 5.     | Smt. AnjanaSrivastava, Lab. Assistant, LPT | Member   |

#### 6.5.2. Faculty:

##### 6.5.2.1. Faculty Strength:

| S. No. | Designation         | Sanctioned | Faculty In Place |
|--------|---------------------|------------|------------------|
| 1.     | Professor           | 17         | 5                |
| 2.     | Associate Professor | 23         | 8                |
| 3.     | Assistant Professor | 47         | 34               |
|        | Total               | 87         | 47               |

\*All the vacant posts as per VCI regulation are duly sanctioned by U.P. Govt. The recruitment of all the vacant posts is in process. The following faculty positions shown under are as per the Regulations of Veterinary Council of India.

**6.5.2.2. Faculty Profile (Department-wise):**

| <b>S. No.</b> | <b>Name of the Department</b>                       | <b>Professor</b> | <b>Associate Professor</b> | <b>Assistant Professor</b> |
|---------------|---|------------------|----------------------------|----------------------------|
| 1.            | Veterinary Anatomy and Histology                    | -                | -                          | 2                          |
| 2.            | Veterinary Physiology and Biochemistry              | -                | -                          | 4                          |
| 3.            | Animal Genetics and Breeding                        | 1                | -                          | 2                          |
| 4.            | Livestock Production and Management                 | 1                | -                          | 1                          |
| 5.            | Veterinary and Animal Husbandry Extension Education | -                | -                          | 2                          |
| 6.            | Veterinary Parasitology                             | -                | -                          | 2                          |
| 7.            | Veterinary Microbiology                             | 1                | -                          | 2                          |
| 8.            | Animal Nutrition                                    | -                | 1                          | 2                          |
| 9.            | Veterinary Pathology                                | -                | 1                          | 1                          |
| 10.           | Veterinary Pharmacology and Toxicology              | -                | 1 (on lien)                | 1                          |
| 11.           | Veterinary Public Health and Epidemiology           | 1                | 1                          | -                          |
| 12.           | Livestock Products Technology                       | -                | -                          | 2                          |
| 13.           | Veterinary Surgery and Radiology                    | 1                | 1                          | 1                          |
| 14.           | Veterinary Gynecology and Obstetrics                | -                | 1                          | 3                          |
| 15.           | Veterinary Clinical Complex (VCC)                   | -                | 1                          | 2                          |
| 16.           | Veterinary Medicine                                 | -                | -                          | 3                          |
| 17.           | Livestock Farm Complex ( LFC)                       | -                | 1                          | 4                          |
|               | <b>Total</b>  | <b>05</b>        | <b>08</b>                  | <b>34</b>                  |

**# The Following Credentials of the Faculty has been recently upgraded to varied levels in the respective departments after the implementation of the Career Advancement Scheme (CAS).**

### 6.5.2.3. Credentials of the Faculty:

| Name of Faculty                  | Highest Qualification | Related Work Experience in the field                | Honors and Awards | Professional licensure and certification | Excellence in teaching                    | Other demonstrated competencies and achievements that affect teaching and student learning outcome |
|----------------------------------|-----------------------|---|-------------------|--|---|--|
| 1                                | 2                     | 3   | 4                 | 5  | 6   | 7  |
| Dr. V.K. Singh, Professor        | Ph. D.                | Animal Genetics and Breeding                        | -                 | -  | Animal Genetics and Breeding              | Animal Genetics and Breeding   |
| Dr. H. N. Singh, Professor       | Ph. D.                | Veterinary Surgery and Radiology                    | -                 | -  | Veterinary Surgery and Radiology          | Veterinary Surgery and Radiology   |
| Dr. R. K. Joshi Professor        | Ph. D.                | Veterinary Microbiology                             | -                 | -  | Veterinary Microbiology                   | Veterinary Microbiology  |
| Dr. Namita Joshi Professor       | Ph. D.                | Veterinary Public Health and Epidemiology           | -                 | -  | Veterinary Public Health and Epidemiology | Veterinary Public Health and Epidemiology  |
| Dr. P. S. Parmanik Professor     | Ph. D.                | Livestock Production Management                     | -                 | -  | Livestock Production Management           | Livestock Production Management  |
| Dr. A. K. Gangwar Professor      | Ph. D.                | Veterinary Surgery and Radiology                    | -                 | -  | Veterinary Surgery and Radiology          | Veterinary Surgery and Radiology   |
| Dr. Sushant Srivastava Professor | Ph. D.                | Veterinary Gynaecology and Obstetrics               | -                 | -  | Veterinary Gynaecology and Obstetrics     | Veterinary Gynaecology and Obstetrics  |
| Dr. Subodh Kumar Professor       | Ph. D.                | Veterinary and Animal Husbandry Extension Education | -                 | -  | Animal Husbandry Extension                | Animal Husbandry Extension   |
| Dr. V. K. Singh Professor        | Ph. D.                | Animal Nutrition                                    | 02                | -  | Animal Nutrition                          | Animal Nutrition   |
| Dr. Chandra Shekhar Professor    | Ph. D.                | Veterinary Public Health and Epidemiology           | 02                | -  | Veterinary Public Health and Epidemiology | Veterinary Public Health and Epidemiology  |
| Dr. D. Niyogi Professor          | Ph. D.                | Veterinary Pathology                                | -                 | -  | Veterinary Pathology                      | Veterinary Pathology   |
| Dr. Rachna Verma Professor       | Ph. D.                | Veterinary Pharmacology and Toxicology              | -                 | -  | Veterinary Pharmacology and Toxicology    | Veterinary Pharmacology and Toxicology   |

|  |        |   |    |   |                                       |                                       |
|--|--------|---|----|---|---------------------------------------|---------------------------------------|
| Dr. SonuJaiswal<br>Associate Professor       | Ph. D. | Veterinary Surgery and Radiology                    | 02 | - | Veterinary Surgery and Radiology      | Veterinary Surgery and Radiology      |
| Dr. R. K. Singh<br>Associate Professor       | Ph. D. | Veterinary and Animal Husbandry Extension Education | -  | - | Animal Husbandry Extension            | Animal Husbandry Extension            |
| Dr. Jaswant Singh<br>Associate Professor     | Ph. D. | Animal Genetics and Breeding                        | 05 | - | Animal Genetics and Breeding          | Animal Genetics and Breeding          |
| Dr. Amit Singh<br>Associate Professor        | Ph. D. | Veterinary Parasitology                             | -  | - | Veterinary Parasitology               | Veterinary Parasitology               |
| Dr. S. P. Singh<br>Associate Professor       | Ph. D. | Nutrition   | -  | - | Nutrition                             | Nutrition                             |
| Dr. J. P. Singh<br>Assistant Professor       | Ph. D. | Veterinary Medicine                                 | -  | - | Veterinary Medicine                   | Veterinary Medicine                   |
| Dr. Bhupendra Singh<br>Assistant Professor   | Ph. D. | Veterinary Gynaecology and Obstetrics               | -  | - | Veterinary Gynaecology and Obstetrics | Veterinary Gynaecology and Obstetrics |
| Dr. S. K. Maurya<br>Assistant Professor      | Ph. D. | Veterinary Biochemistry                             | -  | - | Veterinary Biochemistry               | Veterinary Biochemistry               |
| Dr. PankajChaudhary<br>Assistant Professor   | Ph. D. | Veterinary Physiology                               | -  | - | Veterinary Physiology                 | Veterinary Physiology                 |
| Dr. S. S. Chauhan<br>Assistant Professor     | Ph. D. | Livestock Production Management                     | -  | - | Livestock Production Management       | Livestock Production Management       |
| Dr. PankajMaurya<br>Assistant Professor      | M.V.Sc | Veterinary Physiology                               | -  | - | Veterinary Physiology                 | Veterinary Physiology                 |
| Dr. Pramod Kumar<br>Assistant Professor      | M.V.Sc | Veterinary Physiology                               | -  | - | Veterinary Physiology                 | Veterinary Physiology                 |
| Dr. KrishnaNand Singh<br>Assistant Professor | M.V.Sc | Veterinary Anatomy and Histology                    | 03 | - | Veterinary Anatomy and Histology      | Veterinary Anatomy and Histology      |
| Dr. MukeshKuamr                              | M.V.Sc | Veterinary Anatomy and                              | 03 | - | Veterinary Anatomy and                | Veterinary Anatomy and                |



|   |        |   |    |   |                                       |                                       |
|---|--------|---|----|---|---------------------------------------|---------------------------------------|
| Assistant Professor                           |        | Histology   |    |   | Histology                             | Histology                             |
| Dr. Krishna Kant Tripathi Assistant Professor | M.V.Sc | Veterinary Pathology                                | -  | - | Veterinary Pathology                  | Veterinary Pathology                  |
| Dr. Ramakant Assistant Professor              | M.V.Sc | Veterinary Medicine                                 | 04 | - | Veterinary Medicine                   | Veterinary Medicine                   |
| Dr. Ruma Devi Assistant Professor             | M.V.Sc | Livestock Products Technology                       | -  | - | Livestock Products Technology         | Livestock Products Technology         |
| Dr. Shivesh Singh Sengar Assistant Professor  | M.V.Sc | Livestock Products Technology                       | -  | - | Livestock Products Technology         | Livestock Products Technology         |
| Dr. Rajpal Diwakar Assistant Professor        | M.V.Sc | Veterinary Microbiology                             | -  | - | Veterinary Microbiology               | Veterinary Microbiology               |
| Dr. Vibha Yadav Assistant Professor           | M.V.Sc | Veterinary Microbiology                             | -  | - | Veterinary Microbiology               | Veterinary Microbiology               |
| Dr. Vijendra Kumar Pal Assistant Professor    | M.V.Sc | Veterinary Parasitology                             | -  | - | Veterinary Parasitology               | Veterinary Parasitology               |
| Dr. Manoj Verma Assistant Professor           | M.V.Sc | Animal Genetics and Breeding                        | 01 | - | Animal Genetics and Breeding          | Animal Genetics and Breeding          |
| Dr. Dharmesh Tiwari Assistant Professor       | M.V.Sc | Animal Nutrition                                    | 02 | - | Animal Nutrition                      | Animal Nutrition                      |
| Dr. Sachin Gautam Assistant Professor         | M.V.Sc | Animal Nutrition                                    | 02 | - | Animal Nutrition                      | Animal Nutrition                      |
| Dr. Hukum Chand Assistant Professor           | M.V.Sc | Veterinary and Animal Husbandry Extension Education | -  | - | Animal Husbandry Extension            | Animal Husbandry Extension            |
| Dr. Rajesh Kumar Assistant Professor          | M.V.Sc | Veterinary Gynaecology and Obstetrics               | -  | - | Veterinary Gynaecology and Obstetrics | Veterinary Gynaecology and Obstetrics |
| Dr. Rabindra Kumar Assistant Professor        | M.V.Sc | Veterinary Gynaecology and Obstetrics               | -  | - | Veterinary Gynaecology and Obstetrics | Veterinary Gynaecology and Obstetrics |
| Dr. Rajesh Verma                              | M.V.Sc | Veterinary Microbiology                             | 02 | - | Veterinary Microbiology               | Veterinary Microbiology               |

|  |        |  |    |   |  |  |
|--|--------|--|----|---|--|--|
| Assistant Professor                        |        |  |    |   |  |  |
| Dr. Kh. SangeethaDevi Assistant Professor  | M.V.Sc | Veterinary Surgery and Radiology       | -  | - | Veterinary Surgery and Radiology       | Veterinary Surgery and Radiology       |
| Dr. Naveen Kumar Singh Assistant Professor | M.V.Sc | Veterinary Medicine                    | 01 | - | Veterinary Medicine                    | Veterinary Medicine                    |
| Dr. K. D. Singh Assistant Professor        | M.V.Sc | Livestock Production Management        | -  | - | Livestock Production Management        | Livestock Production Management        |
| Dr. Ajeet Kumar Assistant Professor        | M.V.Sc | Livestock Production Management        | -  | - | Livestock Production Management        | Livestock Production Management        |
| Dr. AshishSrivastava Assistant Professor   | M.V.Sc | Animal Genetics and Breeding           | -  | - | Animal Genetics and Breeding           | Animal Genetics and Breeding           |
| Dr. Rishikant Assistant Professor          | M.V.Sc | Veterinary Pharmacology and Toxicology | -  | - | Veterinary Pharmacology and Toxicology | Veterinary Pharmacology and Toxicology |
| Dr. Vishudhanand Assistant Professor       | Ph.D.  | Agronomy                               | -  | - | Agronomy                               | Agronomy                               |

#### 6.5.2.4. Technical and Supporting Staff:

The department-wise Technical and Supporting Staff is mentioned in the following table-

| S. No.  | Sanctioned Post      | Staff in place | Vacant position | Staff recommended by the ICAR/UGC/VCI/other regulatory bodies |
|---|----------------------|----------------|-----------------|---|
| <b>Veterinary Anatomy</b>                     |                      |                |                 |   |
| 1   | Lab technician       | 01             | 00              | 01  |
| 2   | Lab assistant        | 01             | 00              | 01  |
| 3   | Assistant Accountant | 01             | 00              | 01  |
| 4   | Typist/Store keeper  | 01             | 00              | 01  |
| 5   | Junior Clerk         | 01             | 00              | 01  |
| 6   | Sweeper/Attendant    | 01             | 00              | 01  |
| <b>Veterinary Physiology and Biochemistry</b> |                      |                |                 |   |
| 1.  | Lab. Technician      | 02             | 00              | 02  |
| 2.  | Stenographer         | 00             | 01              | 01  |

|   |                              |    |    |    |
|---|------------------------------|----|----|----|
| 3.  | Asstt. Accountant            | 00 | 01 | 01 |
| 4.  | Lab. Assistant               | 01 | 01 | 02 |
| 5.  | Junior Assistant             | 01 | 01 | 02 |
| 6.  | Animal Attendant             | 01 | 01 | 02 |
| 7.  | Sweeper                      | 02 | 00 | 02 |
| <b>Veterinary Pharmacology and Toxicology</b> |                              |    |    |    |
| 1.  | Lab Technician               | 00 | 01 | 01 |
| 2.  | Accounts clerk               | 00 | 01 | 01 |
| 3.  | Lab. Assistant               | 01 | 00 | 01 |
| 4.  | Steno                        | 00 | 01 | 01 |
| 5.  | Junior Clerk                 | 01 | 00 | 01 |
| 6.  | Animal Attendant             | 01 | 00 | 01 |
| <b>Veterinary Parasitology</b>                |                              |    |    |    |
| 1.  | Lab. Technician              | 01 | 00 | 01 |
| 2.  | Lab. Assistant               | 01 | 00 | 01 |
| 3.  | Assistant Accountant         | 01 | 00 | 01 |
| 4.  | Stenographer                 | 00 | 01 | 01 |
| 5.  | Typist cum<br>Storekeeper    | 00 | 01 | 01 |
| 6.  | Animal Attendant             | 00 | 01 | 01 |
| 7.  | Sweeper                      | 01 | 00 | 01 |
| <b>Veterinary Microbiology</b>                |                              |    |    |    |
| 1.  | Store Keeper/Typist<br>Clerk | 01 | 00 | 01 |
| 2.  | Lab. Technician              | 01 | 00 | 01 |
| 3.  | Steno                        | 00 | 01 | 01 |
| 4.  | Accounts Clerk               | 00 | 01 | 01 |
| 5.  | Lab. Assistant               | 01 | 00 | 01 |
| 6.  | Animal Attendant             | 01 | 00 | 01 |
| 7.  | Sweeper                      | 01 | 00 | 01 |
| <b>Veterinary Pathology</b>                   |                              |    |    |    |
| 1.  | Lab. Technician              | 01 | 00 | 01 |

|  |                              |    |    |    |
|--|------------------------------|----|----|----|
| 2.   | Steno                        | 00 | 01 | 01 |
| 3.   | Asstt. Accountant            | 01 | 00 | 01 |
| 4.   | Lab. Assistant               | 01 | 00 | 01 |
| 5.   | Junior Assistant             | 01 | 00 | 01 |
| 6.   | Animal Attendant             | 01 | 00 | 01 |
| 7.   | Sweeper                      | 01 | 00 | 01 |
| <b>Veterinary Public Health and Epidemiology</b> |                              |    |    |    |
| 1.   | Lab. Technician              | 01 | 00 | 01 |
| 2.   | Lab. Assistant               | 01 | 00 | 01 |
| 3.   | Senior Clerk                 | 00 | 01 | 01 |
| 4.   | Senior Steno                 | 01 | 00 | 01 |
| 5.   | Animal Attendant             | 01 | 00 | 01 |
| <b>Animal Nutrition</b>                          |                              |    |    |    |
| 1.   | Lab. Technician              | 01 | 00 | 01 |
| 2.   | Stenographer                 | 00 | 01 | 01 |
| 3.   | Asstt. Accountant            | 01 | 00 | 01 |
| 4.   | Lab. Assistant               | 01 | 00 | 01 |
| 5.   | Junior Assistant             | 00 | 01 | 01 |
| 6.   | Animal Attendant             | 01 | 00 | 01 |
| 7.   | Sweeper                      | 00 | 01 | 01 |
| <b>Animal Genetics and Breeding</b>              |                              |    |    |    |
| 1.   | Lab. Technician              | 01 | 00 | 01 |
| 2.   | Accounts Clerk               | 01 | 00 | 01 |
| 3.   | Lab. Assistant               | 01 | 00 | 01 |
| 4.   | Typist/Store Keeper          | 00 | 01 | 01 |
| 5.   | Animal Attendant/<br>Sweeper | 00 | 01 | 01 |
| <b>Livestock Production and Management</b>       |                              |    |    |    |
| 1.   | Steno                        | 00 | 01 | 01 |
| 2.   | Poultry Supervisor           | 00 | 01 | 01 |
| 3.   | Dairy Supervisor             | 00 | 01 | 01 |
| 4.   | Hatchery Technician          | 00 | 01 | 01 |
| 5.   | Senior Assistant             | 00 | 01 | 01 |
| 6.   | Generator Operator           | 00 | 01 | 01 |
| 7.   | Lab. Technician              | 01 | 00 | 1  |
| 8.   | Assistant Accountant         | 00 | 01 | 01 |

|  |   |    |    |    |
|--|---|----|----|----|
| 9.   | Junior Assistant                          | 01 | 00 | 01 |
| 10.  | Lab. Assistant                            | 01 | 00 | 01 |
| 11.  | Milk Recorder                             | 01 | 00 | 01 |
| 12.  | Animal Attendant                          | 05 | 01 | 06 |
| 13.  | Watchman                                  | 00 | 01 | 03 |
| 14.  | Animal Attendant                          | 09 | 00 | 01 |
| 15.  | Tractor Driver                            | 01 | 00 | 01 |
| 16.  | Tubal Operator                            | 00 | 01 | 01 |
| 17.  | Sweeper/Attendant                         | 00 | 01 | 01 |
| 18.  | Sweeper                                   | 01 | 00 | 01 |
| <b>Veterinary Gynaecology and Obstetrics</b> |   |    |    |    |
| 1.   | Lab. Technician/ Vet. Stockman/Compounder | 01 | 01 | 02 |
| 2.   | Lab. Assistant                            | 01 | 01 | 02 |
| 3.   | Animal Attendant                          | 03 | 00 | 03 |
| 4.   | Sweeper/Attendant                         | 00 | 01 | 01 |
| <b>Veterinary Surgery and Radiology</b>      |   |    |    |    |
| 1.   | Radiographer                              | 00 | 01 | 01 |
| 2.   | Lab. Technician                           | 01 | 00 | 01 |
| 3.   | Accounts Clerk                            | 00 | 01 | 01 |
| 4.   | Lab. Assistant                            | 00 | 01 | 01 |
| 5.   | Junior Clerk/Typist                       | 01 | 00 | 01 |
| 6.   | Watchman/ Animal                          | 01 | 00 | 01 |
| 7.   | Animal Attendant                          | 02 | 00 | 02 |
| 8.   | Sweeper                                   | 01 | 00 | 01 |
| <b>Livestock Products Technology</b>         |   |    |    |    |
| 1  | Lab Technician                            | 01 | 00 | 01 |
| 2  | Lab Assistant                             | 00 | 01 | 01 |

|  |                            |    |    |    |
|--|----------------------------|----|----|----|
| 3  | Junior Assist              | 01 | 00 | 01 |
| 4  | Animal Attendant           | 01 | 00 | 01 |
| 5  | Sweeper                    | 01 | 00 | 01 |
| <b>Veterinary Medicine</b>                                 |                            |    |    |    |
| 1.   | Junior Assistant           | 01 | 00 | 01 |
| 2.   | Lab Technician             | 01 | 01 | 02 |
| 3.   | Steno                      | 00 | 01 | 01 |
| 4.   | Lab Assistant              | 02 | 00 | 02 |
| 5.   | Animal Attendant           | 01 | 01 | 02 |
| 6.   | Sweeper                    | 01 | 00 | 01 |
| <b>Veterinary and Animal Husbandry Extension Education</b> |                            |    |    |    |
| 1.   | Lab. Technician            | 01 | 00 | 01 |
| 2.   | Steno                      | 00 | 01 | 01 |
| 3.   | Accounts Clerk             | 01 | 00 | 01 |
| 4.   | Lab. Assistant             | 00 | 01 | 01 |
| 5.   | Junior Assistant           | 01 | 00 | 01 |
| 6.   | Animal Attendant           | 01 | 00 | 01 |
| <b>Veterinary Clinical Complex (VCC)</b>                   |                            |    |    |    |
| 1.   | Lab. Technician            | 01 | 00 | 01 |
| 2.   | X-ray Technician           | 00 | 01 | 01 |
| 3.   | Store Keeper cum<br>Typist | 01 | 01 | 02 |
| 4.   | Junior Assistant           | 00 | 01 | 01 |
| 5.   | Compounder                 | 00 | 02 | 02 |
| 6.   | Dresser                    | 00 | 01 | 01 |
| 7.   | Hospital Attendant         | 01 | 00 | 01 |

|                                     |                                    |    |    |             |
|-------------------------------------|------------------------------------|----|----|-------------|
| 8.                                  | Animal Attendant                   | 01 | 00 | 01          |
| 9.                                  | Sweeper                            | 01 | 00 | 01          |
| 10.                                 | Watchman                           | 01 | 00 | 01          |
| 11.                                 | Driver                             | 00 | 01 | 01          |
| <b>Livestock Farm Complex (LFC)</b> |                                    |    |    |             |
| 1.                                  | Assistant Farm Managers            | -  | -  | 02          |
| 2.                                  | Casual labourers                   | -  | -  | As per need |
| 3.                                  | Machine Operator or Tractor Driver | -  | -  | As per need |
| 4.                                  | VLDA                               | -  | -  | 02          |

### 6.5.3. Learning Resources:

The following learning resources are available

#### 6.5.3.1 College Library (digital):

A total of **1402** books are available in the College Library for reading and lending purpose. The major facilities are available in the Central Library of the university which is situated in between the College of Agriculture and Hostels.





**College Library**

### **6.5.3.2 Laboratories, Instructional Farm, Dairy Plant, Clinic etc.:**

Practical classes and hands on training are conducted regularly as per the VCI regulations in department laboratories, clinics and camps organized in villages. Attention is given to individual student in handling animals and recording data as per scheduled practical.

Beside these written/PPT assignments on various topics are also allotted to individual/group of students to develop better understanding of various topics. Laboratory Manuals have been prepared by the concerned faculty/course instructors of all the Departments as per the VCI Curriculum.

Beside the core courses as per the VCI regulations, following components are also incorporated to provide adequate emphasis on cultivating logical and scientific habits of thought, clarity of expression and habits of self-education.

1. Tracking Programme.
2. Study Circle.
3. Entrepreneurial Training.
4. Competence in skills.

#### **Details of Lecture Room and Laboratories:**

| <b>S. No.</b> | <b>Degree Programme</b>                | <b>Lecture Room</b> |
|---------------|--|---------------------|
| <b>1.</b>     | <b>U.G.</b>                            | 5 (Common Facility) |
| <b>2.</b>     | <b>P.G.</b>                            | Laboratories(P.G.)  |
|               | Veterinary Physiology and Biochemistry | 01                  |
|               | Veterinary Pathology                   | 04                  |
|               | Veterinary Microbiology                | 06                  |
|               | Veterinary Parasitology                | 04                  |



|  |   |    |
|--|---|----|
|  | Veterinary Medicine                                 | 02 |
|  | Veterinary Gynaecology and Obstetrics               | 02 |
|  | Veterinary Surgery and Radiology                    | 02 |
|  | Animal Nutrition                                    | 02 |
|  | Veterinary and Animal Husbandry Extension Education | 01 |
|  | Veterinary Public Health and Epidemiology           | 03 |
|  | Animal Genetics and Breeding                        | 01 |
|  | Veterinary Pharmacology and Toxicology              | 01 |
|  | Livestock Production and Management                 | 02 |

### Instructional Farms:

The Livestock Farm Complex (LFC) is located in the college premises and the various activities are carried out with the varied facilities as follows-

| S. No. | Activities                       | Area               | Cultivation   |
|--------|----------------------------------|--------------------|---|
| 1      | <b><i>Integrated Farming</i></b> |                    |   |
|        | a. Fish Pond                     | 1750m <sup>2</sup> |   |
|        | b. Fodder Land                   | 1500m <sup>2</sup> | Oat<br>Barseem<br>Maize<br>Napier                                     |
|        | c. Vegetables                    | 750m <sup>2</sup>  | Cabbage<br>Tomato<br>Bottle guard<br>Drum stick Tree<br>Pointed Guard |
|        | d. Fruits                        | -                  | Guava   |
|        | e. Azolla Culture                | -                  | Azolla  |

### Activities at the Farm:

| S. No. | Activities       | Detail  |
|--------|------------------|---|
| 2.     | Farm Yard Manure | Various waste like livestock urine, Dung, Animal Waste, Plant Leaves etc. are converted to Farm Yard Manure (FYM) and used in the LFC fodder farm as manure.  |
| 3.     | Vermicompost     | House hold waste, decomposable items from the house hold and the farm are laid in the decomposer pit, subsequently the decomposer chemical is sprayed, following twenty days of period the vermicompost is prepared and subsequently used in the LFC fodder farm as manure. |

|    |                   |   |
|----|-------------------|---|
| 4. | Azolla Production | It is produced as the protein supplement for the livestock maintained at the Farm in the Feed.<br>It also acts as the role model for the farmers and the trainees visiting at the farm. |
|----|-------------------|---|

**Equipments available at Livestock Farm Complex (LFC):**

| S. No. | Item             | Total Number |
|--------|------------------|--------------|
| 1.     | Tractor          | 2            |
| 2.     | Trolley          | 2            |
| 3.     | Harrow           | 1            |
| 4.     | Cultivator       | 2            |
| 5.     | Plough           | 1            |
| 6.     | Chaff Cutter     | 2            |
| 7.     | Weighing Balance | 2            |
| 8.     | Weigh Bridge     | 1            |
| 9.     | Rotovator        | 1            |

**Status of Livestock Position at Livestock Farm Complex (LFC):**

| Livestock                            | Total Number |
|--------------------------------------|--------------|
| Adult Female                         | 17           |
| Female Calf and Heifer               | 16           |
| Male                                 | 07           |
| Adult male                           | 08           |
| Cross Bred Adult                     | 36           |
| Tharparkar                           | 02           |
| Sahiwal adult                        | 14           |
| Cross breed heifer and female calves | 36           |
| Tharparkar heifer and female calves  | 02           |
| Sahiwal female calves                | 10           |
| Sahiwal male calf                    | 05           |
| Cross breed male calf                | 11           |
| Horse                                | 01           |
| Pig                                  | 28           |
| Sheep                                | 59           |
| Goat                                 | 29           |



**Post mortem hall**



**Veterinary Clinical Complex (VCC)**



**Cattle shed**



**Feed Processing Plant at LFC**



### 6.5.3.3. Student READY/In-Plant Training/Internship/Experiential Learning

#### Programmes:

The final year B.V.Sc. & A.H. students undergo compulsory 180 days internship programme in different divisions as per VCI regulations 2008.

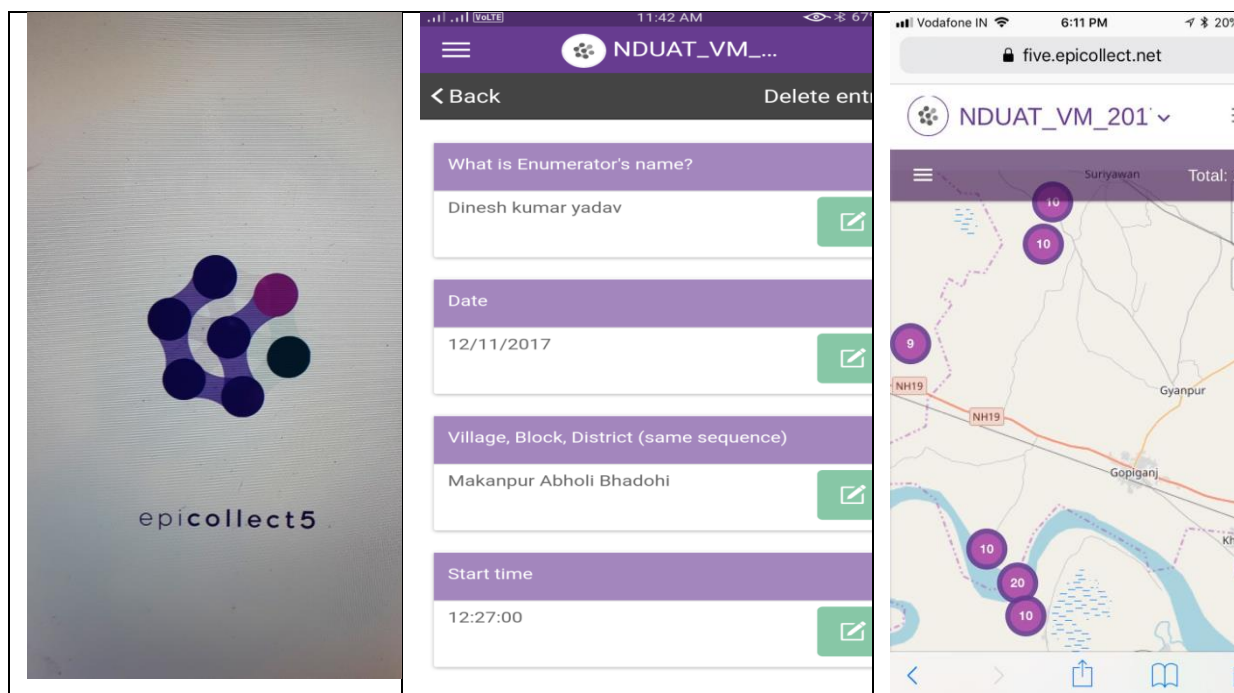
Evaluation is conducted on last day of the internship by the committee constituted by the Dean through a comprehensive viva and thereafter only the successful students are awarded the B.V.Sc. & A.H. degree.

#### Details of Internship Programme:

| S. No. | Place of Posting /Area of Exposure                | Number of Days |
|--------|---|----------------|
| 1.     | Pig Production and Management (Kumarganj)         | 05             |
| 2.     | Disease Control Campaign                          | 05             |
| 3.     | Sheep and Goat Production and Management          | 05             |
| 4.     | Clinical Training Phase -I                        | 30             |
| 5.     | Zoo and Wild life Management (Lucknow Zoo)        | 10             |
| 6.     | Vaccine Production (B.P.Section – Lucknow)        | 10             |
| 7.     | Clinical Training Phase -II (Hospital Attachment) | 30             |
| 8.     | Cattle and Buffalo Production ( Kumarganj)        | 10             |
| 9.     | Poultry Production and Management (Kumarganj)     | 10             |
| 10.    | Zoo and Wild life Management (Lucknow Zoo)        | 10             |
| 11.    | Deep Frozen Semen Production (Kumarganj)          | 10             |
| 12.    | Fish and duck Production Management (Kumarganj)   | 05             |
| 13.    | Equine Management (Kumarganj)                     | 05             |
| 14.    | Clinical Training Phase – III                     | 38             |
| 15.    | Comprehensive Examination – Written and Viva-Voce | 07             |
|        | <b>Total</b>                                      | <b>180</b>     |

### 6.5.3.4. Curricula Delivery through IT (smart classrooms/interactive board etc.):

Students are given lectures by power point presentations with all recent updates and required photographs and videos. The pictures of cases are also received from owners and veterinarians and shared with students for best possible treatment modalities. Students are also directed to go through the blogs/websites created by faculty at their own convenience of time. They are also encouraged to interact with teachers on the blogs for clarification of any doubt. A user friendly GPS enabled android app “Epicollect 5” is being used by the postgraduate students to collect data from animal owners of eastern Uttar Pradesh.



#### 6.5.4. Student Development:

##### 6.5.4.1. Student Intake and Attrition:

Student intake and attrition in different programmes for the last five years is given in the following table-

| Name of the Degree Programme         | Actual student admitted in last five years |         |         |           |         | Attrition (%) |            |            |            |            |
|--------------------------------------|--|---------|---------|-----------|---------|---------------|------------|------------|------------|------------|
|                                      | 2013-14                                    | 2014-15 | 2015-16 | 2016-17   | 2017-18 | 2013-14       | 2014-15    | 2015-16    | 2016-17    | 2017-18    |
| <b>B.V.Sc.&amp; A.H.</b>             |  |         |         |           |         |               |            |            |            |            |
|                                      | Nil (Nil)                                  | 38 (60) | 57 (60) | Nil (Nil) | 50 (60) | -             | 22 (36.67) | 03 (5.00)  | -          | 10 (16.67) |
| <b>M.V.Sc</b>                        |  |         |         |           |         |               |            |            |            |            |
| Veterinary Physiology & Biochemistry | 01 (06)                                    | 01 (06) | 00 (03) | 00 (06)   | 00 (06) | 05 (83.33)    | 05 (83.33) | 03 (100)   | 06 (100)   | 06 (100)   |
| Veterinary Pharmacology & Toxicology | 01 (06)                                    | 01 (06) | 01 (06) | 00 (06)   | 00 (06) | 05 (83.33)    | 05 (83.33) | 05 (83.33) | 06 (100)   | 06 (100)   |
| Veterinary Parasitology              | 02 (06)                                    | 00 (06) | 00 (06) | - (00)    | - (00)  | 04 (66.67)    | 06 (100)   | 06 (100)   | -          | -          |
| Veterinary Microbiology              | 01 (06)                                    | 01 (06) | 01 (06) | 00 (06)   | 00 (06) | 05 (83.33)    | 05 (83.33) | 05 (83.33) | 06 (100)   | 06 (100)   |
| Veterinary Pathology                 | 02 (06)                                    | 03 (06) | 01 (06) | 02 (06)   | 02 (06) | 04 (66.67)    | 03 (50)    | 05 (83.33) | 04 (66.67) | 04 (66.67) |

|   |            |            |            |            |            |                   |                   |                   |                   |                   |
|---|------------|------------|------------|------------|------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Veterinary Public Health & Epidemiology           | 01<br>(06) | 01<br>(06) | 00<br>(06) | 00<br>(06) | 00<br>(06) | 05<br>(83.3<br>3) | 05<br>(83.3<br>3) | 06<br>(100)       | 06<br>(100)       | 06<br>(100)       |
| Animal Nutrition                                  | 02<br>(06) | 02<br>(06) | 00<br>(06) | 01<br>(06) | 03<br>(06) | 04<br>(66.6<br>7) | 04<br>(66.6<br>7) | 06<br>(100)       | 05<br>(83.3<br>3) | 03<br>(50)        |
| Animal Genetics and Breeding                      | 00<br>(06) | 00<br>(06) | 00<br>(06) | 00<br>(06) | 00<br>(06) | 06<br>(100)       | 06<br>(100)       | 06<br>(100)       | 06<br>(100)       | 06<br>(100)       |
| Livestock Production & Management                 | 03<br>(06) | 00<br>(06) | 01<br>(06) | 00<br>(06) | 04<br>(06) | 03<br>(50)        | 06<br>(100)       | 05<br>(83.3<br>3) | 06<br>(100)       | 02<br>(33.3<br>3) |
| Veterinary Gynaecology                            | 05<br>(06) | 04<br>(06) | 00<br>(06) | 01<br>(06) | 02<br>(06) | 01<br>(16.6<br>7) | 02<br>(33.3<br>3) | 06<br>(100)       | 05<br>(83.3<br>3) | 04<br>(66.6<br>7) |
| Veterinary Surgery and Radiology                  | 00<br>(06) | 02<br>(06) | 05<br>(06) | 04<br>(06) | 05<br>(06) | 06<br>(100)       | 04<br>(66.6<br>7) | 01<br>(16.6<br>7) | 02<br>(33.3<br>3) | 01<br>(16.6<br>7) |
| Veterinary Medicine                               | 01<br>(06) | 01<br>(06) | 03<br>(06) | 02<br>(03) | 01<br>(03) | 05<br>(83.3<br>3) | 05<br>(83.3<br>3) | 03<br>(50)        | 01<br>(33.3<br>3) | 02<br>(66.6<br>7) |
| Veterinary & Animal Husbandry Extension Education | 00<br>(06) | 02<br>(06) | 01<br>(06) | 02<br>(06) | 01<br>(06) | 06<br>(100)       | 04<br>(66.6<br>7) | 05<br>(83.3<br>3) | 04<br>(66.6<br>7) | 05<br>(83.3<br>3) |
| <b>Ph.D.</b>                                      |            |            |            |            |            |                   |                   |                   |                   |                   |
| Veterinary Pharmacology & Toxicology              | 01<br>(05) | 00<br>(05) | 00<br>(01) | 00<br>(01) | 00<br>(01) | 04<br>(80)        | 05<br>(100)       | 01<br>(100)       | 01<br>(100)       | 01<br>(100)       |
| Animal Nutrition                                  | 00<br>(05) | 00<br>(05) | 01<br>(01) | 00<br>(01) | 00<br>(01) | 05<br>(100)       | 05<br>(100)       | 00<br>(00)        | 01<br>(100)       | 01<br>(100)       |

\*Data in parenthesis is the sanction strength of students in different years

#### 6.5.4.2. Average Number of Students in Theory and Practical Classes:

| S. No. | Name of the Degree Programme | Batch of students in theory class | Batch of students in practical class                                 |
|--------|------------------------------|-----------------------------------|--|
| 1.     | B.V. Sc. & A.H.              | 1                                 | 2<br>(25 to 30 in each batch)*<br>*The number vary as per the intake |
| 2.     | M.V. Sc.                     | 1                                 | 1  |
| 3.     | Ph. D.                       | 1                                 | 1<br>1   |

#### 6.5.4.3. Admission Process:

The admissions to all the UG, PG and Ph.D. programmes of the College of Veterinary Science and Animal Husbandry are done through Uttar Pradesh Combined Agriculture and Technology Entrance Test (UPCATET) based on the aggregate marks obtained by the candidate in entrance examination and along with consideration of reservation policy of State Government. The admission notification is notified by the Registrar of one of the four State Agriculture Universities authorized for conducting the examination for the particular academic year in important newspapers, university, UPCATET websites etc. ICAR nominees are also admitted in all programmes for which ICAR is conducting entrance examination separately. In addition, 15% of the total sanctioned seats are filled through All India NEET entrance examination.

The registration cards are issued by the Academic Cell of the college, following the adoption of the courses as per VCI (U.G.) and BSMA (P.G., Ph.D.) norms.

Academic schedule for the Undergraduate is prepared by the academic cell of the college and distributed to individual student at the start of the session and Academic schedule for the Postgraduate is prepared by the Office of the Registrar of the university distributed to individual student at the start of the session as well displayed on the notice board of the college.

#### 6.5.4.4. Conduct of Practical and Hands on Training:

We follow three different basic steps viz., seeing/observing, doing and writing for practical learning of students in the guidance of teachers.

**Seeing/Observing:** Students observe the method of doing various things by their teachers e.g., various operations and other clinical procedures. For passive learning various flow charts banners and posters are displayed. The power point presentations on various topics are also delivered to students.

**Doing:** The UG students are involved in performing various activities in the laboratories/farms as well in hospitals. They are involved in recording of various clinical parameters, administration of medicines, minor surgical/obstetrical procedures and analysis of samples in the laboratory. They are provided training of artificial insemination, pregnancy diagnosis and various other clinical procedures.

**Writing:** The UG students are also involved in filling of various records like OPD registers and treatment cards. Beside these they also fill their practical manuals prepared as per VCI curriculum along with learning by doing process. Practical conducted with the help of flow chart and practical manuals prepared as per VCI curriculum along with learning by doing process in the guidance of teachers. Various activities in the laboratories of different departments are performed as follows-

- Collection of blood samples from LFC
- Students are supported by adequate Skeletons of different animal species, diagrams, specimens, slides, PPT, etc. to understand the subject in a simple and efficient manner.

- Hematological examination in the lab
- Urine examination in the lab
- Semen examination
- Recording of data from meteorology observatory
- Assignments allotted to group of students
- Estimation of biochemical parameters
- Demonstration of organs for the infestation of the parasites and for the presence of lesions caused by the parasites.
- Demonstration of procedures for the collection of samples from animals for the detection of the parasites.
- Demonstration of the procedures for the processing of clinical samples for parasitic detection.
- Identification of the parasites/cysts/eggs by morphological examination.
- Preservation of the parasites specimen.
- In line with VCI directions the staff members of the department introduce the students with different techniques of collection of samples from field and farm and isolation and identification of Bacteria and diagnosis of diseases.
- Hands on training are given to the students about the techniques of Post-mortem examination and writing of Post-mortem report in large and small animals as well as birds.
- Expertization is provided to the UG and PG students for the Preparation and Interpretation of histopathological slides.
- Practical classes are conducted with the help of flowcharts, practical manuals, gross specimens and histopathological slides.
- The samples of milk, meat and water are collected for their quality assessment.
- Collection of feed samples from field
- Analysis of samples in the lab.
- Assignments allotted to group of students
- Research conducted by students
- Formulation of balanced ration for dairy farm
- Exposure visit to feed factory/farms
- Collection and analysis of production and reproduction data
- Cytogenetic experiment with the help of visual aid
- Assignments allotted to group of students
- Demonstration of cattle judging on dairy farm
  
- In line with the VCI directions the staff members of the Department introduce the student with different processing of Livestock Products (Milk, Meat, Egg and Wool). The Students are supported by adequate diagrams, slides, PPT, etc. to understand the subject in a simple and efficient manner.
- The students are also provided learning material like practical manuals, Class notes and e – books which are very useful to improve the knowledge of students



- The practical hands for the undergraduate students are enhanced by the practical hands on training to under graduate and post graduate students in the area of milk and meat processing.
- Practicals are conducted as per the courses outlined by the Veterinary Council of India (VCI). Practical manuals are provided to the students and practicals are well explained and demonstrated.
- For radiology practical, radiographs of normal and abnormal organs are maintained in the department. These radiographs are shown to the students during practical classes.
- Collection of data at field level about the farmer's problems.
- Preparation of different literature like leaflet, posters, charts, flash cards.
- Assignments allotted to group of students
- To conducts the different awareness programmes by students to farmers
- Dentition and age determination in livestock at farm
- Demonstration of disbudding and castration in animals
- Live demonstration of various fodder crops
- Hands on training on deticking, spraying, shearing, deworming to students



**Student's participation in clinical camps (Mautwara) on 29.01.2016)**



**Clinical camp at Veterinary Hospital AnandNagar,Bhitari on 19.08.2017.**



**Student's participation in Rabies Awareness Campaign**

**6.5.4.5. Examination and Evaluation Process:**

Semester system of education is followed for UG, PG and PhD programmes. We are following the Annual System of education in UG from the session 2017-18 as per the VCI Regulations, 2016.

**a. Student Evaluation**

| <b>Examination</b>         | <b>UG</b>  | <b>PG</b> | <b>Ph.D.</b> |
|----------------------------|--|-----------|--------------|
| Internal (percentage)      | 50   | 50        | 100          |
| External (percentage)      | 50   | 50        | -            |
| Other (Specify percentage) | From 2017-18 (New VCI)<br>Internal (percentage) = 60<br>External (percentage) = 40 | -         | -            |

**b. Frequency of Student Evaluation (Per cent Weightage)**

|                     | <b>UG</b>  | <b>PG</b> | <b>Ph.D.</b> |
|---------------------|--|-----------|--------------|
| Monthly             | -  | -         | -            |
| Quarterly           | -  | -         | -            |
| Semester-wise       | 50   | 50        | 50           |
| <b>Annual Board</b> | 50   | 50        | 50           |
| Others (Specify)    | On 30%, 60% and 90% completion of syllabus for 20 weightage Internal evaluation, 40 weightage (Practical Internal) and 40 weightage External (as per the VCI Regulations, 2016). | -         | -            |

#### 6.5.4.6. NCC/NSS/RVC Units:

Communication with the authority of the concerned units for the establishment of the NCC, NSS and RVC units are in process.

#### 6.5.4.7. Language Laboratory:

The college follows VCI norms and the medium of instruction is English. At University level, there is a teacher for English language and to improve the proficiency skills of B.V.Sc. & A.H. students. English language classes from the academic session 2018 -2019 are being implemented through the faculty of the English language.

#### 6.5.4.8. Cultural Center:

Cultural activities are conducted time to time to commemorate important days related with veterinary field. In particular, World Veterinary Day is celebrated every year on last Saturday of the April month and different events are organized like Quiz competition, spotting competition etc. Veterinary Week is also celebrated with different events like Quiz, Painting, Drawing, Poster competition, Rangoli competition etc.







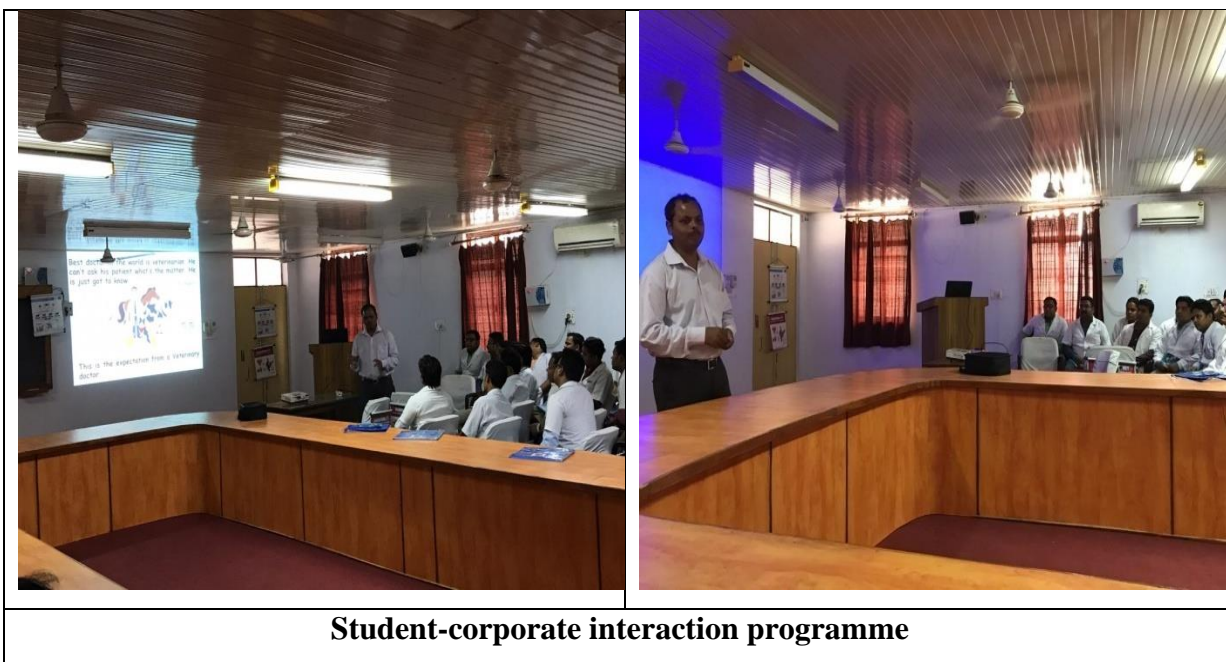
**Celebration of World Zoonoses Day**



**Plantation on World Environment Day**

#### **6.5.4.9. Personality Development:**

Personality of each passing student is groomed with the objective so that he/she is able to face any interview in future and succeed in life. For this purpose, students are encouraged for a proper presentation on certain assigned topics which is delivered through power point presentation. Student corporate interactions are also organized time to time. A mock group discussion session is also organized for internship students before completion of their degree.



**Student-corporate interaction programme**

### 6.5.5. Physical facilities:

#### 6.5.5.1. Hostels:

| Name of the hostel | Accommodation for student | Total capacity             | Type of room | Drinking water facility | Indoor games   | Transport facility | Medical Facilities                         |
|--------------------|---------------------------|----------------------------|--------------|-------------------------|--|--------------------|--|
| Kaalindi           | Boys                      | 70 rooms<br>(63 students)  | Single       | Yes                     | Yes<br>(Volleyball,<br>Chess,<br>Badminton,<br>Carom)        | Personal           | Available<br>at the<br>university<br>level |
| Varuna             | Boys                      | 100 rooms<br>(82 students) | Single       | Yes                     | Yes<br>(Volleyball,<br>Chess,<br>Badminton,<br>Carom)        | Personal           | Available<br>at the<br>university<br>level |
| Gomati             | Girls                     | 20 rooms<br>(20 students)  | Triple       | Yes                     | Yes<br>(Volleyball,<br>Chess,<br>Badminton,<br>Carom<br>Gym) | Personal           | Available<br>at the<br>university<br>level |

### 6.5.5.2. Examination hall:

A separate examination hall is available for conducting the U.G., P.G. and Ph.D. both for the internal and external examination. The Total capacity of the Examination Hall is 180.



**Invigilation in Examination Hall**



**Conducting Practical Examination**

### 6.5.5.3. Sports and Recreation Facilities:

| S. No. | Games and sports | Equipment and infrastructure available                 |
|--------|------------------|--|
| 1.     | Volleyball       | Available in hostels and the university sports complex |
| 2.     | Basket ball      | Available in the university sports complex             |
| 3.     | Cricket          | Available in the university sports complex             |
| 4.     | Football         | Available in the university sports complex             |
| 5.     | Badminton        | Available in hostels and the university sports complex |
| 6.     | Table Tennis     | Available in hostels and the university sports complex |
| 7.     | Athletics        | Common facilities available at the university level    |
| 8.     | Chess            | Available in hostels and the university sports complex |
| 9.     | Carom            | Available in hostels and the university sports complex |

#### **6.5.5.4. Auditorium:**

The college has its own auditorium with the total sitting capacity of 350. The auditorium is frequently used for various programmes like seminars, symposium, workshops and cultural activities.

#### **6.5.5.5. Exhibition Hall/Museum:**

The Museum is located at the top floor of the college building, where different departmental samples are displayed. In addition, the college also has its own Livestock Farm Complex (LFC), Veterinary Clinical Complex (VCC), Post-mortem hall, feed processing plant etc.

#### **6.5.6. Research Facilities:**

##### **6.5.6.1. Postgraduate Laboratories and Equipments:**

###### **a) Laboratories:**

The department-wise postgraduate laboratories are mentioned in the following table-

| <b>S. No.</b> | <b>Department</b>                         | <b>No. of Lab.</b> |
|---------------|---|--------------------|
| 1.            | Veterinary Physiology and Biochemistry    | 02                 |
| 2.            | Veterinary Pharmacology and Toxicology    | 01                 |
| 3.            | Veterinary Parasitology                   | 03                 |
| 4.            | Veterinary Microbiology                   | 05                 |
| 5.            | Veterinary Pathology                      | 02                 |
| 6.            | Veterinary Public Health and Epidemiology | 03                 |
| 7.            | Animal Nutrition                          | 01                 |
| 8.            | Animal Genetics and Breeding              | 01                 |
| 9.            | Livestock Production and Management       | 02                 |
| 10.           | Veterinary Gynecology and Obstetrics      | 03                 |
| 11.           | Veterinary Surgery and Radiology          | 01                 |
| 12.           | Veterinary Medicine                       | 02                 |
| 13.           | Veterinary and Animal Husbandry Extension | 01                 |

\*In most of the departments the laboratory facilities are common for UG, PG and PhD programmes.



**b) Equipments:**

The department-wise equipments are mentioned in the following table-

| <b>Department</b>                      | <b>Name of the Equipment</b>   |
|--|--|
| Veterinary Physiology and Biochemistry | PCR<br>ELISA<br>Electrocardiograph<br>Hemocytometer<br>Hemoglobinometer<br>Hot air oven<br>Electronic monopan balance<br>Water bath<br>Centrifuge machine<br>Spectrophotometer<br>Microscope<br>Deep Freezer<br>Cup anemometer<br>Rain gauge   |
| Veterinary Pharmacology and Toxicology | Demonstration table with electrical points, drainage, steriotaxic control etc.<br>Observation cages for rats and mice<br>Tuberculin syringes<br>Monopan balance<br>Compound microscope<br>Binocular microscope<br>Colorimeter<br>Centrifuge (1000 RPM)<br>Incubator (Bact.)<br>Refrigerator ( Double door)<br>Dispensing scales with metric and apothecaries wt.<br>Marble slab<br>Pill tiles<br>Spatula (iron, plastic and ebonite)<br>Mortar and pestle<br>(Porcelain & glass)<br>Measuring glasses, cylinder<br>Dispensing phials, pillbox etc. of various sizes<br>Funnels, sieves and other miscellaneous items<br>pH meter (digital)<br>Electronic stimulator<br>Deep freezer<br>Water Still |



|                                |  |
|--------------------------------|--|
|                                | <p>Serological water bath<br/> Vortex stirrer<br/> Tissue homogenizer<br/> Rectangular hot plate<br/> Temperature indicator<br/> Overhead projector<br/> LCD Projector<br/> Single pan electrical balance<br/> Digital Electronic top loading balance<br/> Vacuum pump<br/> U.V.Spectrophotometer<br/> Rota rod<br/> Analgesiometer (Hot Plate type)<br/> Analgesiometer (Tail flick type)<br/> Pole climbing apparatus<br/> Auto analyzer with all accessories<br/> Computer with scanner and printer<br/> Biosafety Cabinet<br/> Micro/Macro digestion chamber/units for sample digestion<br/> Vacuum Evaporator (Rotatory Type)<br/> Autoclave<br/> CO<sub>2</sub> incubator<br/> Sonicator (UltraSonic)<br/> Rotatory Shaker<br/> Water Deionizer<br/> Atomic absorption spectrophotometer<br/> GCMS</p> |
| <p>Veterinary Parasitology</p> | <p>Microscopes including trinocular<br/> Autoclave<br/> BOD Incubator<br/> Bacteriological Incubator<br/> Hot air oven<br/> Hot plate<br/> Blood cell counter<br/> Water bath<br/> Laminar flow<br/> Deep freeze ( -20 ° C)<br/> Cooling centrifuge<br/> Centrifuges<br/> Spectrophotometer<br/> Vertical slab gel electrophoresis assembly<br/> Vortex shaker</p>   |

|                         |  |
|-------------------------|--|
|                         | <p>Magnetic stirrer</p> <p>Refrigerator</p>  |
| Veterinary Microbiology | <p>Autoclave Horizontal</p> <p>Autoclave</p> <p>Hot air oven</p> <p>Instrument sterilizer</p> <p>Seitz filter assembly including Seitzfilter, vacuum pressure pump etc.</p> <p>Other filters (Bakefield, Chamberland and membrane filters)</p> <p>Microscope</p> <p>Ultra-violet microscope with U.V assembly</p> <p>Stage and Ocular micrometer</p> <p>Hanging drop preparation slide with cover-slips</p> <p>Petri-dishes</p> <p>Inoculation loops</p> <p>Bunsen burners</p> <p>McIntosh and Feldt anaerobic jar</p> <p>Incubator</p> <p>Co<sub>2</sub> Incubator</p> <p>Biological Oxygen demand (B.O.D.) Incubator</p> <p>Water bath</p> <p>Gel Chromatography apparatus</p> <p>Immuno-electrophoresis unit</p> <p>Centrifuge bucket</p> <p>High speed centrifuge</p> <p>Refrigerated centrifuge</p> <p>Ultra centrifuge</p> <p>Replica plate</p> <p>Freeze dryer</p> <p>Inoculation cabin</p> <p>Cubicals for Virological works</p> <p>Automatic pipette washer</p> <p>Deep-freeze (-20 °C)</p> <p>Deep-freeze (-70 °C)</p> <p>Laminar flow cabinet</p> <p>Triple –distillatory</p> <p>Metal distillatory</p> <p>Colony counter</p> |

|   |  |
|---|--|
|   | <p>Perspex plates for H.A. tests.<br/> ELISA test reader<br/> Cages, syringe etc.<br/> Surgical instruments</p>  |
| Veterinary Pathology                      | <p>Cryostat Microtome<br/> Rotary microtome, AO Spencer type with thin sectioning facility<br/> Paraffin floatation bath (temp. control 55-65<sup>0</sup> C)<br/> Paraffin bath/oven<br/> Dark field illumination with projecting units<br/> Phase contrast microscope<br/> Monocular and Binocular microscopes<br/> Overhead Projector (OHP), LCD Projector with screen<br/> Digital Camera with PC for Microscopic Photography<br/> Refrigerator<br/> Deep Freeze<br/> Centrifuge<br/> Hot air oven (Temp. 250°C)<br/> Microtome, knife sharpener to and fro with side shifting arrangements (Automatic)<br/> Autopsy table for birds (S.S. top with drain)<br/> Autopsy table for small animals<br/> Specimen cutting table<br/> Autopsy knives<br/> Post-Mortem sets (with chisels, saw, rib cutter, shears, bone cutter, sharpener, etc.)<br/> Bone cutting saw (electric)<br/> Carcass trolley/carcass van (fully covered)<br/> Platform balance (large and small)<br/> Monopan digital balance (for weighing organs)<br/> Haemocytometer<br/> Haemoglobinometer</p> |
| Veterinary Public Health and Epidemiology | <p>Autoclave<br/> Hot air oven<br/> Bacteriological incubator<br/> Centrifuge<br/> Spectrophotometer<br/> Binocular microscope<br/> Monocular microscope<br/> Colony counter</p>   |

|                                     |  |
|-------------------------------------|--|
|                                     | <p>Electronic balance<br/> BOD incubator<br/> Micropipette<br/> Deep freeze (-20<sup>0</sup>C)<br/> Laminar flow<br/> Laboratory refrigerators<br/> Vertex Shaker<br/> Magnetic stirrer<br/> Tissue homogenizer</p>  |
| Animal Nutrition                    | <p>Protein Analyzer<br/> Hot air oven<br/> Electronic monopan balance<br/> Muffle furnace<br/> Desiccator<br/> Suction Pump<br/> Digestion set<br/> Grinder<br/> Balance (250Kg)<br/> Soxhlet apparatus set<br/> Water bath<br/> Centrifuge machine<br/> Spectrophotometer<br/> Microscope<br/> Fibre estimation apparatus</p> |
| Animal Genetics and Breeding        | <p>Computers<br/> Hot air oven (450x600 x 450 mm)<br/> Microscope<br/> Water bath<br/> Slide Projector<br/> Centrifuge machine<br/> Triple beam Balance 111 gm. and 3 kg</p>   |
| Livestock Production and Management | <p>Shearing and clipping equipment<br/> Tattooing set, tags etc.<br/> Vernier Calipers<br/> Screw Gauge<br/> Branding set<br/> Castrator (for different species)<br/> Gerber's centrifuge</p>  |

|   |  |
|---|--|
| <p>Veterinary Gynecology and<br/>Obstetrics</p> | <p>Compound Microscope<br/> Binocular Microscope<br/> Trevis<br/> Hemocytometer<br/> Monoplane balance<br/> Compound microscope<br/> Binocular microscope<br/> Embryotomy set<br/> Kolver training cow<br/> Electro ejaculator<br/> Autoclave<br/> Artificial Vagina<br/> Instrument Cabinet<br/> Whelping set<br/> Surgical Instruments<br/> Holmes needle<br/> Vaginal Clamp<br/> Automatic pipette Washer<br/> Incubator<br/> Semen shippers<br/> Thermos Flask<br/> Insemination catheter<br/> Storage tubes(cylinder)<br/> Stand for storage cylinders<br/> Swab holder<br/> Instrument sterilizer<br/> Record Syringe<br/> Injection cannula<br/> Rinsing pan<br/> Nose tongs<br/> Protective cloth<br/> Latex liner for AV<br/> Latex funnel<br/> Insulating bags<br/> Metal funnel<br/> Measures<br/> Drop pipette<br/> Filter paper<br/> Water suction pump<br/> Glassware<br/> Centrifuge (1000 RPM)<br/> Refrigerator<br/> Hot air oven</p> |
|---|--|

|                                  |   |
|----------------------------------|---|
|                                  | <p>CASA<br/> Flowcytometer<br/> USG<br/> Phase contrast microscope<br/> Biobreezer<br/> Cold cabinet<br/> Incubator<br/> CO2 Incubator<br/> Deep freezer<br/> Steriozoom microscope</p>   |
| Veterinary Surgery and Radiology | <p>General surgical instruments<br/> Electro-cautery unit<br/> Diathermy unit<br/> Autoclave<br/> Hot air oven<br/> Centrifuge machine<br/> Bone saw<br/> Diathermy machine<br/> Laryngoscope<br/> Binocular microscope<br/> Trinocular microscope<br/> Nikkon digital camera<br/> Nerve muscle stimulator<br/> Digital electronic balance<br/> Dog nail cutter<br/> Other instructional unit: Operation theatre for small and large animal surgery is common for the department and VCC.</p> |
| Veterinary Medicine              | <p>Autoclave<br/> Balance<br/> pH meter<br/> Oven<br/> Microscope<br/> Binocular microscope<br/> Haemometer<br/> Haemocytometer<br/> Spectrometer<br/> Serological water bath<br/> Centrifuge<br/> Deep freezer<br/> Refrigerator<br/> Incubator</p>  |

|  |   |
|--|---|
| <p>Veterinary and Animal Husbandry Extension Education</p> | <p>Black board, display board, chart stand .<br/> Projection screens<br/> Epidiascope<br/> Overhead Projector<br/> Slide Projector<br/> Amplifiers<br/> Stage mikes<br/> Horns<br/> Units<br/> Hooters<br/> Television(coloured)<br/> Video Cassette Recorder<br/> Video Cassette player<br/> Video Camera<br/> Camera 35 mm</p>  |
| <p>Livestock Products Technology</p>                       | <p>Refrigerator (Single door)<br/> Deepfreeze<br/> Electronic Monopan balance<br/> Laminar Air flow<br/> BOD Incubator<br/> Spectrophotometer<br/> pH meter<br/> Hot air oven<br/> Microscope<br/> Bleeding Cone<br/> Scalding Tank<br/> Feather plucking machine<br/> Butchering sets (Knives etc.)<br/> Lactometer<br/> Meat Slicer<br/> Sausages Filler<br/> Meat mincing machine (Electric)<br/> Meat mincing machine (Manual)<br/> Bowl Chopper<br/> Butter Worker<br/> Butter churner<br/> Butter Cutter<br/> Cream Separator<br/> Gerber's Centrifuge Machine<br/> Gerber's Butyrometer<br/> Muffle Furness<br/> Cooking range<br/> Hand sealing machine</p> |

|                                   |  |
|-----------------------------------|--|
|                                   | Mixer and juicer<br>Autoclave<br>Centrifuge Machine<br>Colony Counter<br>Tissue Homogenizer  |
| Veterinary Anatomy and Histology  | Steel or Iron racks for bones<br>Show-cases (glass paneled) for museum<br>Compound microscopes<br>Binocular microscopes<br>P H meter<br>Hot air oven<br>Cadaver injector<br>Slide warmer<br>Semiautomatic or Automatic rotary microtome<br>Tissue floatation bath<br>Histoembedder<br>Refrigerator (double door)<br>Drilling machine for skeleton mounting sets<br>Electric bone saw<br>Post mortem sets |
| Veterinary Clinical Complex (VCC) | Teat and udder instruments<br>Biochemical Auto analyzer<br>Incubator (Normal +BOD)<br>Laminar Flow<br>Binocular Microscope<br>Haemoglobinometers<br>Haemocytometers<br>Centrifuge (ordinary)<br>Electro surgery unit<br>X-ray film viewers   |
| Livestock Farm Complex (LFC)      | Tractor<br>Rotovator<br>Chaff cutter<br>Mixer grinder<br>Weighing machine<br>Debeaking machine<br>Incubator<br>Castrator<br>Automatic vaccinator<br>Artificial insemination gun  |



### 6.5.6.2. Research Contingency:

Major amount of Contingency for research is met from ICAR budget – “Central Assistance”. Some amount is also mobilized from projects running in the college. Centralized facility from the university and the university provide contingency as per demand and the requirement.

### Following Projects Were Running In Past Five Years

#### Research Projects:

| S.No. | Name of project   | Funding agency | Duration | Budget (in Lakh) |
|-------|---|----------------|----------|------------------|
| 1     | Conservation, propagation and genetic improvement of Sahiwal cattle in eastern UP | RKVY           | 2013-19  | 288.76           |
| 2     | Establishment of residual analysis laboratory                                     | RKVY           | 2013-17  | 125.37           |
| 3     | Strengthen of Veterinary Clinical Complex   | RKVY           | 2018-19  | 496.00           |
| 4     | Frozen semen Bank for Indigenous Livestock  | RKVY           | 2018-20  | 181.00           |

### 6.5.7. Outcome/Output

#### 6.5.7.1. Student Performance in National Examinations:

| S.No. | Session  | Performance in Examination | No. of students |
|-------|----------|----------------------------|-----------------|
| 1.    | 2013-14  | ICAR NET                   | 1               |
| 2.    | 2014-15  | ICAR NET + JRF             | 2 +5            |
| 3.    | 2015-16  | ICAR NET + JRF             | 1+1             |
| 4.    | 2016-17  | ICAR NET                   | 1               |
| 5.    | 2017 -18 | ICAR NET                   | 4               |

#### 6.5.7.2. Students Placement Profile:

| Session | Govt. Sector |           |       |                | Pvt. Sector     |             |              | Others                                   |
|---------|--------------|-----------|-------|----------------|-----------------|-------------|--------------|--|
|         | V.O.         | Academics | NDDDB | Civil Services | Slaughter house | Dairy Units | Pvt. Clinics |  |
| 2013-14 | 30           | 03        | 02    | 01             | 18              | 06          | 06           | -  |
| 2014-15 | 13           | 03        | -     | -              | 14              | 11          | 04           | 02 (Brookes )<br>02 (Feed)<br>01(Abroad) |

|           |              |   |   |   |    |    |    |             |
|-----------|--------------|---|---|---|----|----|----|-------------|
| 2015-16   | 07 + 1 (Zoo) | - | - | - | 06 | 03 | 03 | 03          |
| 2016-17   | -            | - | - | - | 11 | 02 | 03 | 03          |
| 2017 - 18 | 01(Zoo)      | - | - | - | 15 |    | 06 | 01(Brookes) |

**Placement of postgraduate students:**

**Department of Animal Nutrition**

| <b>Name of student</b>    | <b>Employment status</b>                       |
|---------------------------|--|
| Dr. VirendraBahadur Singh | Assistant Manager, Input Services, NDS         |
| Dr. Prateek Singh         | Govt. Service (Veterinary Officer)             |
| Dr. VikashVikram Singh    | Manager in Deheus Pvt. Ltd.                    |
| Dr. Sonu Kumar Chakara    | Project Manager in NDDDB.                      |
| Dr. Dheeraj Kumar Dwivedi | Veterinary Officer, Deptt. of A.H., U.P. Govt. |
| Dr. VinayDiwedi           | Veterinary Officer, Deptt. of A.H., U.P. Govt. |
| Dr. Mohd. Mufeed          | Veterinary Officer, Deptt. of A.H., U.P. Govt. |

**Department of Veterinary Surgery and Radiology**

| <b>Name of student</b>       | <b>Employment status</b>                                 |
|------------------------------|--|
| Dr. NitishKatiyar            | Veterinary Officer, Deptt. of A.H., U.P. Govt.           |
| Dr. SwarropShashikant Kale   | Veterinary Officer, Deptt. of A.H., Maharashtra Govt.    |
| Dr. Ashish Kumar             | Veterinary Officer, Deptt. of A.H., U.P. Govt.           |
| Dr. Vishwas A.               | Veterinary officer inBangalore Zoo                       |
| Dr. Vivek Kumar Verma        | Veterinary officer in Mother Dairy/National Dairy Scheme |
| Dr. Alok Kumar Gupta         | Veterinary officer (Contractual) inGujarat               |
| Dr. Santosh Kumar Chaurasiya | Asstt. Manager in Amul, Kolkata                          |
| Dr. ShriprakashVerma         | Private Practice in New Delhi                            |

### **Department of Veterinary Medicine**

| <b>Name of student</b>      | <b>Employment status</b>  |
|-----------------------------|---|
| Dr. NishantYadav            | Veterinary Officer, Deptt. of A.H., U.P.Govt.   |
| Dr. Anugrah                 | Product Manager, Natural Remedies Pvt. Ltd, Bangalore, India  |
| Dr. Vinod Kumar Varun       | Veterinary Officer, Deptt. of A.H., U.P. Govt.<br>Recently Joined – Assistant Professor, SVBPUT, Meerut |
| Dr. Sarad Kumar             | Veterinary Officer, Deptt. of A.H., U.P. Govt.  |
| Dr. AshishPandey            | Guest Faculty, VCC  |
| Dr. Pankaj Kumar Gupta      | Veterinary Doctor , The Brookes India, Bahraich, U.P.   |
| Dr. Ashwani Kumar<br>Gautam | Veterinary Officer, Deptt. of A.H., U.P. Govt.  |
| Dr. SandeepYadav            | Entrepreneur  |

### **Department of Veterinary Pharmacology and Toxicology**

| <b>Name of student</b>     | <b>Employment status</b>                       |
|----------------------------|--|
| Dr. Kamlesh Kumar<br>Yadav | Veterinary Officer, Deptt. of A.H., U.P. Govt. |
| Dr. RavindraPratap Singh   | Veterinary Officer, Deptt. of A.H., U.P. Govt. |
| Dr. Mohd.Saif              | PhD from DUVASU Mathura                        |
| Dr. Jai Prakash Yadav      | In Feed company                                |
| Dr. P.K. Atul              | Senior Scientist in NIMR, New Delhi            |

### **Department of Veterinary Physiology and Biochemistry**

| <b>Name of student</b>   | <b>Employment status</b>                       |
|--------------------------|--|
| Dr. Brijendra Mani Yadav | Veterinary Officer, Lucknow Zoo                |
| Dr. Shiv Kumar Yadav     | Teaching Assistant, Veterinary College, Ranchi |

### **Department of Veterinary Public Health and Epidemiology**

| <b>Name of student</b> | <b>Employment status</b>   |
|------------------------|--|
| Dr. Rajeev Prajapati   | Veterinary Officer, Deptt. of A.H., U.P. Govt.                         |
| Dr. Akanksha Yadav     | Pursuing Ph.D. degree programme from IVRI, Izatnagar, Bareilly (U.P.). |

### 6.5.7.3.Awards/Recognitions/Certificates:

| Name of Awards/Recognitions/Certificates                    | Awarding Organization   | Year        | International/National |
|---|---|-------------|------------------------|
| <b>Dr. Jaswant Singh (Animal Genetics and Breeding)</b>     |   |             |                        |
| Young Scientist Award                                       | Society for Scientific Development in Agriculture and Technology (SSDAT), Meerut (U.P.)       | 2016        | National               |
| Excellence in Teaching Award                                | JMD Educational Society, Etah, U.P.   | 2016        | National               |
| Young Teacher Award   | Society for Agriculture Innovation and Development (SAID) Ranchi, (Jharkhand)                 | 2017        | National               |
| Remarkable Research Work                                    | International Conference on Food and Agriculture, Endling conferences                         | 2017        | International          |
| Excellence in Teaching Award                                | Society for Agriculture Innovation and Development (SAID) Ranchi, (Jharkhand)                 | 2018        | National               |
| <b>Dr. Manoj Verma (Animal Genetics and Breeding)</b>       |   |             |                        |
| Young Teacher Award   | Science & Tech. Society for integrated rural improvement (S&T SIRI)                           | 2017        | National               |
| <b>Dr. Sonu Jaiswal (Veterinary Clinical Complex)</b>       |   |             |                        |
| Award for Best Poster Presentation                          | Uttar Pradesh Chapter of Indian Society for Veterinary Surgery                                | 2014        | National               |
| 3 <sup>rd</sup> Poster Presentation Award                   | Uttar Pradesh Chapter of Indian Society for Veterinary Surgery                                | 2014        | National               |
| <b>Dr. Rajesh Kumar Verma (Veterinary Clinical Complex)</b> |   |             |                        |
| Young Scientist Award                                       | JMD Educational Society Etah, UP  | 2016        | National               |
| Outstanding Achievement Award                               | Science and Technology Society for Integrated Rural Improvement, Thorrur, Warangal, Telangana | 2106        | National               |
| <b>Dr. Naveen Kumar Singh (Veterinary Clinical Complex)</b> |   |             |                        |
| Young Scientist Award                                       | Science and Technology Society for Integrated Rural Improvement, Thorrur, Warangal, Telangana | <b>2016</b> | National               |
| <b>Dr. Vijay Kumar Singh (Animal Nutrition)</b>             |   |             |                        |
| Best paper (Oral) Award                                     | Animal Nutrition Association, Izatnagar   | 2015        | National               |
| Best paper (Poster) Award                                   | Animal Nutrition Association, Izatnagar   | 2015        | National               |
| <b>Dr. Dharmesh Tiwari (Animal Nutrition)</b>               |   |             |                        |
| Best paper (Oral) Award                                     | Animal Nutrition Association, Izatnagar   | 2015        | National               |
| Best paper (Poster) Award                                   | Animal Nutrition Association, Izatnagar   | 2015        | National               |
| <b>Dr. Sachin Gautam (Animal Nutrition)</b>                 |   |             |                        |
| Best paper (Oral)   | Animal Nutrition Association, Izatnagar   | 2015        | National               |

|  |  |      |          |
|--|--|------|----------|
| award  |  |      |          |
| Best paper (Poster) award  | Animal Nutrition Association, Izatnagar  | 2015 | National |
| <b>Dr. Mukesh (Veterinary Anatomy)</b>                                 |  |      |          |
| Young Scientist Award  | Society for Agriculture Innovation and Development (SAID), Ranchi (Jharkhand), India   | 2017 | National |
| Young Teacher Award  | Science &Tech. Society for Integrated Rural Improvement (S&T SIRI)   | 2017 | National |
| Excellence and Teaching Award  | Society for Agriculture Innovation and Development (SAID), Ranchi (Jharkhand), India   | 2018 | National |
| <b>Dr. K. N. Singh (Veterinary Anatomy)</b>                            |  |      |          |
| Young Scientist Award  | Society for Agriculture Innovation and Development (SAID), Ranchi (Jharkhand), India   | 2017 | National |
| Young Teacher Award  | Science &Tech. Society for Integrated Rural Improvement (S&T SIRI)   | 2017 | National |
| Excellence and Teaching Award  | Society for Agriculture Innovation and Development (SAID), Ranchi (Jharkhand), India   | 2018 | National |
| <b>Dr. Chandra Shekhar (Veterinary Public Health and Epidemiology)</b> |  |      |          |
| Outstanding Achievement Award  | Society for Agriculture Innovation and Development (SAID), Ranchi (Jharkhand), India   | 2018 | National |
| Best Paper (Oral) Presentation Award                                   | N. D. University of Agriculture & Technology, Kumarganj, Ayodhya (U.P.), India   | 2018 | National |
| <b>Dr. S. V Singh (Veterinary Medicine)</b>                            |  |      |          |
| 3 <sup>rd</sup> Poster Presentation Award                              | N.D.University of Agriculture & Technology, Kumarganj, Ayodhya in collaboration with Animal Nutritional Association, Izatnagar (IVRI), Bareilly. | 2016 | National |
| Best Paper Award   | Royal Association for Science-led Socio-culture Advancement (RASSA), New Delhi   | 2017 | National |
| <b>Dr. Ramakant (Veterinary Medicine)</b>                              |  |      |          |
| 3 <sup>rd</sup> Poster Presentation Award                              | N.D.University of Agriculture & Technology, Kumarganj, Ayodhya in collaboration with Animal Nutritional Association, Izatnagar (IVRI), Bareilly. | 2016 | National |
| Young Scientist Award  | Science & Technology For Integrated Rural Improvement (S & T SIRI)   | 2016 | National |
| Young Scientist Award  | Society for Agriculture Innovation and Development (SAID), Ranchi (Jharkhand), India   | 2017 | National |
| Young Teacher Award  | Science & Technology For Integrated Rural Improvement (S & T SIRI)   | 2017 | National |

#### **6.5.7.4. Employability:**

The veterinarian is always in demand both in private and govt. sector owing to their skill as a clinician, researcher, manager and extension worker. The students are hardworking, sincere and possess excellent communication skills. They are trained rigorously to excel in all situations. The course curriculum is designed to allow students to develop entrepreneurship and leadership qualities.

#### **6.5.9.**

I, Dr. V. K. Singh, the Dean of **College of Veterinary Science & Animal Husbandry, NDUAT** hereby certify that the information contained in the Section 6.5.1 to 6.5.7.4. are furnished as per the records available in the college and degree awarding university.

Signature of Dean of the College with Date & Seal