

**KAMDHENU UNIVERSITY
GANDHINAGAR**

**REGULATIONS FOR AFFILIATION OF POLYTECHNIC IN ANIMAL
HUSBANDRY TO KAMDHENU UNIVERSITY, 2019**

1. Short Title, Extent and Commencement:
 - (i) These regulations shall be called "**Regulations for Affiliation of Polytechnic in Animal Husbandry to Kamdhenu University, 2019**"
 - (ii) These regulations will be effective from the date of notification and shall also apply to the institution under the process of affiliation and those institution accorded affiliation provisionally to Kamdhenu University.
 - (iii) **This is applicable only to affiliated institutes of Kamdhenu University.**
2. Definitions - In these regulations, unless the context otherwise requires:
 - a) The words and expressions shall be the same as defined in the Kamdhenu University Act, 2009.
 - b) "Institute" or "Institution" means an institution or organisation registered under the appropriate laws of State i.e. Societies Registration Act, 1860, Bombay Public Trust Act, 1950 etc. or a Company incorporated under the Companies Act, 2013 (Act No. 18 of 2013) as amended from time to time or the State/Central Government institutions and/or a Polytechnic which has been accorded provisional affiliation to impart education leading to Diploma in Animal Husbandry.
 - c) "Affiliation" means affiliation accorded to **an institute**, whether private or public, by whatever name called, (provisional or permanent, as the case may be) with the University with respect to specific academic programmes;
 - d) "Polytechnic" means for the purpose of these regulations, an Institution affiliated to the University and providing courses of study leading to Diploma in Animal Husbandry;
 - e) "Principal" means head of an Affiliated Polytechnic or Institution **not below the rank of Associate Professor;**
 - f) "Teacher" means for the purpose of these regulations, a person, **not below the rank of Assistant Professor,** appointed/ hired by the Affiliated Polytechnic or

Institution as per for the rules and regulations of Kamdhenu University for the purpose of imparting instruction/education;

- g) "Veterinary Officer" means for the purpose of these regulations, a person having qualification of B.V.Sc. & AH and registered with State/Central Veterinary Council, appointed/hired by affiliated polytechnic or institutes as per rules and regulations of Kamdhenu University for the purpose of imparting practical training/institutions.

3. Applicability:

- (i) These regulations shall apply to all those institutes as defined in regulation no. 2(b). This is applicable to affiliated institutes of Kamdhenu University.
- (ii) The affiliation shall not be granted where Polytechnic in Animal Husbandry of Kamdhenu University are already existing. Further it is defined that per zone (Four zones of Gujarat – North, South, Central and Saurashtra) only one polytechnic in AH may be considered for granting affiliation. Zone wise list is attached in a separate annexure-1-E. Zone wise only one application will be consider on the merit basis and same shall be recommended to government by the board of management. This shall not be applicable to the institutes which have been already granted permission by "Regulations for affiliation of Polytechnic in Animal Husbandry to Kamdhenu University, 2015"

4. General Regulations and Procedure for Affiliation:

- (i) The institute desirous to start a Polytechnic in AH shall apply to the "Registrar" Kamdhenu University, (Karmyogi Bhavan, 4th Floor, Block-1, Wing B-1, Sector-10 A, Gandhinagar-382010) Gujarat, India, in the prescribed Application Form, only after the advertisement given by Kamdhenu University in any digital and print media etc. The Application form, which shall be made available at a charge of non-refundable Rs. 10,000/ (Rupees Ten thousand only) in the form of Demand Draft drawn in favour of the Kamdhenu University. Late applications shall not be considered. Incomplete application shall be rejected and fee forfeited, however, applicant shall be free to file fresh application only after six month, if rejected.

(ii) The applicant shall have proven financial capabilities of annual **receipt/Income/turnover** of minimum Rs. one crore **in last three consecutive years. The institute should provide the certificate from the chartered accountant for the same.**

(iii) The applicant shall have its own buildings and land with undisputed ownership and possession of the buildings and/or land proposed for starting a Polytechnic **as per annexure-I.**

(A) The minimum infrastructure and other facilities required for the purpose of starting polytechnic must be completed before the institute applies for affiliation.

(B) For subsequent renewal, the institute shall have to complete all the minimum requirements (year-wise) as specified as per annexure-1 before applying for renewal. Failing which, the provisional affiliation granted will be withdrawn with immediate effect and student will be allocated to other institutes affiliated to or constituent of Kamdhenu University on the basis of merit.

(C) No conditional affiliation/renewal shall be granted in any circumstances.

(iv) The applicants shall have corpus funds of minimum **Rs. 50 lacs** and shall have minimum 20 acres of contiguous land under its clear title exclusively for the Polytechnic. Documentary evidences and affidavits shall be produced in this regards at the time of application. **This shall apply to the newly affiliated polytechnic only.** The affiliation shall not be granted for rented facilities **for all requirements.**

Certificate from the chartered accountant regarding corpus fund shall be provided by the institute.

(v) The Institute shall have infrastructure and other facility for the purpose of teaching and practicals as per the Annexure I.

(vi) The application received by the Registrar shall be scrutinised by the Scrutiny Committee consisting of following members.

1. Dean of Veterinary Faculty **or any other officer appointed by Vice Chancellor** - Chairman

2. **Four experts of Kamdhenu University** to be nominated by Vice Chancellor

2.1) Two subject matter experts

2.2) One Finance & Accounts

2.3) One Engineer

3. One representative of Director of Animal Husbandry not below the rank of Joint Director
4. Registrar - Secretary

The above said committee shall strictly scrutinise the application in the light of above said clauses of these regulations and recommend for further necessary actions. **The committee shall have the right to reject or accept application based on the documents/evidences (as per regulation) submitted along with the application form and no conditional recommendation shall be entertained.**

Application file should be supported with video CD/Real-time photography with GPS location & time of the facilities available with the institute. If required, scrutiny committee may invite the management of the trust/institute to make PPT presentation of the facilities available with them to the committee.

- (vii) Having found satisfactory report of the scrutiny committee, the Registrar on the recommendation of the Scrutiny Committee, shall inform the institute to pay non refundable processing fees of Rs. 1,00,000/ (Rupees one lacs only) in the form of Demand Draft drawn in favour of Kamdhenu University. **The institute shall have to pay the fees within 15 days from the day of receipt of the communication from the University, failing which the application stands rejected automatically.**
- (viii) On receipt of the processing fees, the University shall constitute an inspection committee consisting of following members which shall visit the institution and will present its inspection report to the University.
1. Dean of Veterinary Faculty - Chairman
 2. Two experts to be nominated by Vice Chancellor
 3. One representative of Director of Animal Husbandry not below the rank of Deputy Director
 4. Executive Engineer of the University or his representative not below the rank of Deputy Engineer

5. **Finance and account officer of the University or his representative not below the rank of Account Officer.**

6. Deputy Registrar - Secretary

- (ix) The inspection committee appointed shall visit the institute and inspect all the documents, premises, financial capabilities, available infrastructures, academic and technical capabilities and other facilities of the institution.
- (x) The inspection committee shall submit its report **along with its recommendations for granting affiliation/continuing the renewal of affiliation or not with justification** to the Registrar within **15 days from the date of inspection.** The report shall be placed before the Board of Management with recommendations of the Academic Council and on approval of the Board of Management the Society/Trust shall obtain permissions/NOC separately from the State Government to start Polytechnic.
- (xi) The Board of Management shall accord provisional affiliation for one year or reject the application with reasons in writing which shall be conveyed to the applicant by the Registrar. On approval of the provisional affiliation by the Board **and NOC from GoG,** the Institute shall have to remit a non refundable one time affiliation fees of Rs. 10 lacs (Rupees ten lacs only) in the form of Demand Draft to the University before the beginning of common admission process by the University, failing which the institute will not be permitted to start the academic programme for that year.
- (xii) The renewal of affiliation in subsequent years shall be accorded by the Board of Management on recommendation of the Academic Council and inspection committee as prescribed in sub rule (ix) on receipt of application for renewal from the institute. The inspection committee for renewal of affiliation shall visit the institution before 30th April of that year on receipt of non refundable inspection fee of Rs. 25,000/ (Rupees twenty five thousand only) by **February end-before March-5** every year. The fees for visit of inspection committee shall have to be remitted for each such visit of inspection committee. The amount of fees may be revised by University without **prior** notice. This will also apply to the institutions under provisional affiliation. (~~until they are permanently affiliated.~~)
- (xiii) Any institution whose application for affiliation has been rejected, may apply afresh as per the procedure laid down.

- (xiv) **After granting of affiliation, the institution shall, besides producing evidences of adequate financial capabilities as provided in the sub rule (iv) shall furnish a bank guarantee of an amount equivalent to six months' salary of teaching and non-teaching staff or a minimum of Rs 25,00,000/ (Rupees twenty five lacs only), whichever is higher, in favour of the University within one months of the commencement of the academic session.**
- (xv) **The actual travel, food, stay and other logistic expenditure etc. of the inspection committee will be spent from the inspection fees deposited by the institutes seeking affiliation for starting new polytechnic in AH or renewal of provisional affiliation.**
- (xvi) **All the fees/charges to be collected that “any levy of taxes from Government from time to time shall be paid extra by the institution”.**
- (xvii) **The University can carry out surprise inspection of the polytechnic in AH anytime through any officers/team authorised by Hon’ble Vice Chancellor without prior notice.**

5. Admission, Fee Structure and Examinations:

- (i) The admission procedure for diploma course shall be as provided in the Regulations for the Award of Diploma in Animal Husbandry.
- (ii) The Institute shall compulsorily participate in centralized admission system and in no case admit students directly on its own.
- (iii) The intake capacity for Polytechnic in Animal Husbandry course shall be initially 30 students which may be increased up to maximum of 60 students per year **or reduced** on recommendations of the inspection committee and on approval by the Academic Council.
- (iv) The institution may issue advertisements for promotional purpose but in no case shall issue any advertisement for admission pertaining to concerned academic year.
- (v) The Institute may charge fees to the students as prescribed by the University from time to time.

- (vi) The entire process of conduct of final/end term examinations, evaluation and related issues for the diploma course shall be under the direct control and supervision of the Kamdhenu University.
6. Award of the Diploma:
- After successful completion of the course, the diploma certificates (provisional or otherwise) shall be issued to the students by the University only.
7. Faculty and Support Staff:
- The strength and qualifications of the teaching as well as supporting staff and the conditions governing their tenure of office shall be such as provided in Annexure I.
8. Recruitment of Staff:
- (i) The teaching and other technical staff shall be recruited as per the recruitment rules prescribed by the University **(Annexure-I)**;
- (ii) For recruitment of the Principal of the Polytechnic, selection committee which shall include **one or two** representative of the University nominated by the Vice-Chancellor;
- (iii) In case of recruitment of a member of the teaching staff of the Polytechnic, a representative of the University nominated by the Vice-Chancellor and the Principal of particular Polytechnic shall be members.
- (iv) **All the teaching and non-teaching staff are appointed on regular/permanent basis on scale of pay as per ICAR/Government. Failing which the institute/trust will penalized to the extent of 5 lakhs.**
9. The institute may provide residential accommodation to the Principal and other members of the teaching staff in or near the Polytechnic or the place provided for the residence of students.
10. University shall not be responsible for any kind of delay in affiliation.
- ~~11. The provisionally affiliated institute which completes five years shall apply for permanent affiliation to the University.~~
12. **Regulations for continuation of Affiliation:**
- (i) **The institute shall have to apply every year for renewal of provisional affiliation for the first five year. It shall be the sole responsibility of the**

institute to apply for renewal of their provisional affiliation every year before the prescribed date by the University. Failing which the provisional affiliation/recognition granted to the institute stands cancelled/terminated inevitably and institute shall be solely responsible for it. The University shall not be responsible for non-renewal of provisional affiliation of the institutes.

- (ii) **However, after 5 years of consecutive renewal of provisional affiliation without any conditions, institute shall have to apply for academic inspection for which they shall have to pay non-refundable @ 50,000/- or fees decided by University from time to time which includes application and inspection fees.**
- (iii) **Institute shall have to provide undertaking on non-judicial Rs.100 stamp paper duly notarized wrt follow all rules and regulation of Diploma in Animal Husbandry affiliation. If rules & regulations are not followed by with regards to facilities, infrastructure development, academic activities, etc at any point of time due to any reasons, affiliation shall not be continued of that institution, and further institute will not be allowed to participate in the admission process for that academic year.**
- (iv) **Polytechnic which wishes to get continuation of affiliation shall apply to the University any time after completing satisfactory performance of consistently for five years of first provisional affiliation in the prescribed performa. No permanent affiliation shall ne granted.**

~~13. The University shall accord provisional affiliation to a Polytechnic/ Institution until it fulfils the requirements of permanent affiliation as mentioned under the rule-12.~~

14. The institute which is accorded provisional affiliation is authorized to mention the status in the form of “Provisionally Affiliated to Kamdhenu University” on their signboards, letterheads, properties and other such documents.

~~15. Till a Polytechnic/Institute is permanently affiliated to the University as provided in these regulations, the Polytechnic/Institute shall not be authorized to declare its status anywhere as “Affiliated to Kamdhenu University”.~~

16. The affiliation granted under these regulations is non-transferable.

17. Every affiliated Polytechnic or recognized institution shall comply with the provisions of the Kamdhenu University Act, 2009 (specifically Section 46 to 52 Ch. VIII), its

Statutes, Regulations and minimum standards and norms (Annexure I), as amended time to time. If any affiliated Polytechnic or recognized institution contravenes then,

- (i) The rights conferred on such polytechnic or institution by the affiliation or recognition shall stand withdrawn from the date of such contravention and such polytechnic or institution shall cease to be an affiliated Polytechnic or recognised institution.
- (ii) The rights conferred on an institution by recognition may be withdrawn or suspended for any period if the institution fails/has failed to observe any of the conditions of its recognition or the institution has conducted in a manner which is prejudicial to the interest of education.

18. The decision of the University for granting or not granting provisional ~~or permanent~~ affiliation to any institution shall be final.

19. Failure to comply with minimum requirements

Once, any institute is granted provisional affiliation, it shall be mandatory for that polytechnic/college/institute to implement the direction/advises/instruction issued by the University from time to time, failing which appropriate action shall be taken as per Kamdhenu University rules/norms.

<u>Sr No</u>	<u>Items of deficiencies</u>
<u>1</u>	<u>In adequate Library facilities</u>
<u>2</u>	<u>Lack of appropriate Building</u>
<u>3</u>	<u>In adequate Staff</u>
<u>4</u>	<u>In adequate Lab. Equipments</u>
<u>5</u>	<u>General upkeep of the campus</u>
<u>6</u>	<u>Delay in submission of registration form/enrollment form</u>
<u>7</u>	<u>Incomplete registration form/enrollment form</u>
<u>8</u>	<u>Delayed in submission of examination marks</u>
<u>9</u>	<u>Other deficiencies</u>

Decision of the Academic Council shall be final in the matter.

It shall be the sole responsibilities of the ApplicantBody/Affiliated polytechnic/Institute to satisfy the requirements as per regulations. The university shall not be responsible for any legal and financial liabilities arising out of the matter connected with the applicant trust/affiliated institute/polytechnic. The university shall also not be liable for any sort of (Full or Part) compensation regarding any matter pertaining to any party including students and/or staff etc.

20. **When any trustee/s are changed in the management, a resolution (only notarized) of the same shall have to be submitted by the said trust to the university. The university reserves the right to amend the guidelines/ procedure/ fees(s), related to affiliation of the institute/polytechnic, from time to time in future without prior information to the institutes/trusts.**
21. **If any institute is desirous to close the Polytechnic in AH should apply to the university addressing to the Registrar. On approval of the BoM, the number of students will be distributed to other polytechnic (Constituent or affiliated) on merit basis.**

Annexure-I

Minimum Standards and Norms for Affiliation of Polytechnic in Animal Husbandry to Kamdhenu University

Minimum requirement of land / building infrastructure of Main Polytechnic building, Instructional Farm, Veterinary Dispensary, Hostels etc., and Manpower shall be as per guideline given below:

A. Land: Minimum 20 acres of land with ownership of the institution under its clear title exclusively for the Polytechnic.

This shall apply to the newly affiliated polytechnic only.

B. Infrastructure:

Sr. No.	Item	No.	Space Req. (sq. m.)
A	<u>Buildings</u>		
1-a	Main Polytechnic Building		
	a. Principal's Chamber (with ante room for PA and visitors)	1	30
	b. Conference / Meeting hall (20-25 sitting capacity)	1	50
	c. Office room for teaching staff (6-10 sitting capacity)	1	60
	d. Office room for non-teaching staff (3-5 sitting capacity)	1	50
	e. Store room	1	20
	f. Lecture halls/ Class rooms	2	80 each
	g. Multipurpose hall (200 sitting capacity)/ <u>Examination hall with CCTV</u>	1	200
	h. Library	1	50
	<u>i. Computer Laboratory with 15 computers</u>	<u>1</u>	<u>50</u>
1-b	Laboratories (each having capacity of 30 students)		
	a. Anatomy Laboratory <u>& Clinical Laboratory</u>	1	80
	b. Basic Subject Laboratory (Physiology, Biochemistry, Pharmacology & Animal Nutrition)	1	80
	c. Animal Genetics & Breeding, <u>LPM & Extension</u> , Statistics Laboratory	1	80
	d. Diagnostic Laboratory (Pathology, Parasitology & Microbiology, <u>VPH</u>)	1	80
2	Instructional Farm (with LPM and Extension Education Laboratory)	1	1000-1500
3	Veterinary Dispensary (with AI Laboratory)	1	200
4	Hostels (For 150 Boys & 50 Girls)	2	4000
B	<u>Student Amenities</u>		
1	Play Ground and Sports Complex	1	2 acres land
2	Student Bus	1	

* Adequate basic facilities and other civic amenities such as hygienic drinking water, toilets (gents and ladies), sewerages, biological waste disposal etc. must be provided at all buildings and farm.

1. Main Polytechnic Building:

The buildings in which the Polytechnic is or is to be housed shall be suitable to impart education and are as per standards mentioned above. No other educational programme shall be permitted to be undertaken in the same buildings.

Laboratories: The facilities including equipments, chemicals, glass wares and charts in respective laboratory are as per Annexure 1-A. Besides this all laboratories must be provided with minimum 30 stools, black/white board, projector, laboratory tables/platforms and basic civic amenities.

2. Instructional Farm:

Following infrastructure and facilities will be mandatory for instructional farm. In such case, the farm must be in the vicinity of **3 – 5 kms from** the Polytechnic and there should be enough provision for transportation of students to the location of the animal farm. This shall apply to the newly affiliated polytechnic only.

The Instructional farm should also accommodate laboratory for conducting practical for Livestock Production and Management and Extension Education courses. The minimum equipments and material for imparting education are as per Annexure 1-B.

• Buildings

Category	No.	Space Req. (sq. m.)
Office cum Laboratory	One	80
Animal sheds	Cattle & Buffalo unit	as per the standard space requirements for each species
	Sheep & Goat unit	
	Horse & Camel unit	
	Poultry unit	
Storage facilities for feeds & fodder	Fodder Godown	as per need
	Silo pit	

• Livestock & Poultry: Preferably of different breeds

Category	No. of Animals/Birds
Cattle	<u>Cows from each breed (Gir, Kankrej, Dangi, & Cross breed)</u>
Buffalo	<u>Two from each breed (Mehsani, Surti & Jafarabadi)</u>
Bullocks	<u>2 (1 pair) (Optional)</u>
Sheep	<u>Two from each breed (Marwadi & Patanwadi)</u>
Goat	<u>Two from each breed (Mehsani, Surti, Zalawadi, Gohilwadi & Kachchhi)</u>
Horse (Optional)	<u>2 (male & female) (Kathiyavadi)</u>
Camel (Optional)	<u>1(Kachchhi) or any</u>
Poultry	<u>100-200 birds [(RIR), (WLH)]</u>

• **Fodder Production Unit**

Land	10-20 acre
Irrigation	bore well/ open well/ canal irrigation
Fodder Farm Implements	as per need

3. Veterinary Dispensary:

The organization or institution must have its own well equipped Veterinary Dispensary having following required building facilities for diagnosis and treatment of medicinal, surgical and gynaecological ailments of different animal species. The minimum equipments and material for imparting education are as per Annexure 1-C. **This shall apply to the newly affiliated polytechnic only.**

4. Hostel facilities:

The organization or institution has to make appropriate provision for the boys and girls hostel as per standards. The hostels are in the vicinity of the polytechnic with all the civic amenities or facilities for the welfare of the students;

- Two separate hostels for boys and girls having adequate accommodation facilities for boys and girls. Hostel accommodation of twin or triple sharing basis is desirable.
- Accommodation facilities for warden and deputy warden near the hostels will be desirable. Warden for the girls' hostel will be mandatory.
- Student's mess and common room will be mandatory.

5. Library:

Due provision is made or shall be made for a library. The library facility with reading room will be mandatory and should be a part of the main polytechnic building with computers, internet and reprographic services.

The library must be possessing required multiple copies of the text books covering all the subjects of the course syllabus besides reference books, journals, periodicals, newspapers etc. The minimum number of books in the library should be 1000 (excluding literature and general purpose books). An indicative list of the books is given in Annexure 1-D

6. For a polytechnic having intake capacity of 30-60 students below mentioned staff will be mandatory:

Sr. No.	Post	No.	Remarks
1	Principal	1	Qualifications and Experience are as per the University or Government of Gujarat norms, as the case may be.
2	Assistant Professor	3	
3	Veterinary officer	3	
4	Farm manager	1	
5	Livestock Inspector	2	
6	Laboratory Technician	4	
7	Computer Operator	1	
8	Clerks	2	
9	Animal Attendants	4-6 as per need	
10	Driver	1-2 as per need	

Annexure 1-A

Subject wise list of Laboratory materials, Equipments, Chemicals etc. (Minimum requirement)

POLYTECHNIC IN ANIMAL HUSBANDRY, KAMDHENU UNIVERSITY

First Year

Sr. No.	Topic	Apparatus	Glassware	Chemicals/Reagents	Others/Consumables
1	Introductory Animal Physiology	1. Sahlihemoglobinometer set 2. Wintrobe hematocrit tube Centrifuge machine 3. Hematocrit centrifuge 4. Hematocrit reader. 5. Simple (02 Nos) & Compound Microscope (10Nos). 6. Haemocytometer 7. Urinometer.	Test tube/Vial (50nos), Pasteur pipettes, Capillary, hematocrit tubes, Watch glass, Neubauer Chamber, Glass Slide, Cover Slip, and Glass Road.	Ethylene-diamine-tetra-acetate (EDTA), Ammonium-potassium oxalate (Heller and Paul double oxalate), Heparin, Sodium citrate, Sodium oxalate, Double Oxalates, IN hydrochloric acid, RBC Diluting fluid, WBC diluting fluid, Nigrosin, Eosin stain, Toluene, Formalin, Thymol, Chloroform and Boric acid.	EDTA or Heparin containing vacutte with needle and plunger, Scissor or Blade, Spirit or Tincture of Iodine, Cotton swab, Soft wax or modeling clay, pH indicator paper and Charts of all system.
2	Introduction to Computer Application	1. Sets of computer (10 Minimum) with Printer(02) Scanner(01),Ms office Internet (02 computers).	--	--	--
3	Introductory Livestock Anatomy	1. Articulated skeleton of Horse, Cattle, Sheep/Goat, Dog and Fowl.	Glass specimen jar (2000ml) & Tray.	Formalin (200 liter).	Bone sets of Ribs, Typical vertebra, Sternum, Skull bones,

					Mandible, of Humerus, Radius-Ulna, Pelvic bone, Tibia-fibula, Carpals & Metacarpal and Tarsals, Metatarsal for each species. Charts of urinary system, digestive system, Genital system, Respiratory system & Dental Formula indicating charts of various species. For live sample demonstration :- knives, tissue disposal buckets, Disposal apron and food grade rubber hand gloves, Insulated Icebox, Coupling jar and disinfectant, warmish for bone (yellow and white).
4	English		--	--	Books
5	Introductory Animal Managements	1. Milking machine 2. Chaff cutter 3. Weighing machine 4. Animal Model of different species	--	--	Milking and milk storage device, Charts and different breed, different disinfectants, Ropes, nose ring, bull

		5. Burdizzo castrator 6. Dehorner.			holder, muzzle, halter, brander, tattooing forceps & ink, number plate, ear tags, ear notching pliers and measure tape.
6	Introductory Animal Husbandry Extension	1. Overhead projector and transparencies 2. LCD projector.	--	--	Specimen of charts, posters, bulletins etc...
7	Introductory Animal Breeding	--	--	--	Charts for the demonstration
8	Introductory Fodder Management & Grassland Management	--	--	--	Charts for the demonstration and Specimen jar for storage of feed samples.
9	Introduction to Environmental Science	--	--	--	Charts for the demonstration.
10	Elementary Statistics	--	--	--	Charts for the demonstration.
11	Introductory Animal Managements-II	1. Other covered in Introductory Animal Managements-I		Dipping chemicals and Dressing chemicals.	Different registers, Shearing equipments and rubber band.

**POLYTECHNIC IN ANIMAL HUSBANDRY,
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Second Year

Sr. No.	Topic	Apparatus	Glassware	Chemicals/Reagents	Others/Consumables
1	Introductory Animal Husbandry Extension-II	--	--	--	Charts, models of IFS, Specimens for balance sheets, accounting books.
2	Introductory Animal Nutrition –I	<ol style="list-style-type: none"> 1. Laboratory Willey Mill, Mortar and Pestle, 2. Analytical balance 3. Hot air oven 4. Muffle furnace 5. Desiccators 6. Silica crucible 7. Metal tray/ Petri dish 8. Heater. 	Volumetric flasks, Burettes, Pipettes, Beakers, Measuring cylinders, Reagent bottles Kjeldahl flask Funnel and Watch glass,	Hydrochloric acid (HCl), Sulphuric acid (H ₂ SO ₄), Nitric acid (HNO ₃), Sodium carbonate (Na ₂ CO ₃), Potassium permanganate (KMnO ₄), Sodium hydroxide (NaOH), Sodium chloride (NaCl), Methyl red, Methyl orange, Methylene blue, Phenolphthalein, Acetic acid, Hydrogen peroxide, Potassium dichromate and Mercuric chloride.	Polythene bags of different capacities, Filter papers, Whatman filter paper No. 40 or 41 or 42 or 44, Stainless steel or aluminium scoop.
3	Introductory Veterinary Parasitology-211	<ol style="list-style-type: none"> 1. Centrifuge Machine 2. Microscope 3. Incubator 4. Refrigerator 5. Autoclave 6. Hot Air Oven 7. Colony Counter 	Screw cap bottles, Sedimentation flask, Test tubes, Pipettes and Petri-dish Flask.	Giemsa's stain, Wright's stain, Standard plate count agar, Sodium azide citrate agar, Mac conkey agar, Blood Green agar, Formalin, Glycerin, Ethanol, Glacial acetic acid, Haematoxylin stain and Magnesium sulphate.	Plastic containers with lids, Disposable plastic sleeves/gloves, Plastic bags, Charts, mounted slides and Platinum loop.

4	Introductory Veterinary Microbiology	<ol style="list-style-type: none"> 1. Compound microscope 2. Hot air oven. 3. Instrument sterilizer 4. Laminar Air Flow 5. pH meter electronic 6. Incubator 7. Tripal Distillation plant 8. Centrifuge 9. Refrigerator Deep Freeze (-20 °C) 10. Electronic weighing balance 11. Autoclave. 	<p>Slides with cover slips, Petri-dish different size, Measuring cylinder, Beakers different capacity, Flask different capacity, pestle mortar, test tubes different capacity and Glass rods</p>	<p>Saturated solution of methylene blue, Leishman powder (stain), Nigrosin, Lactophenol Cotton Blue Staining, Gram's staining kits, Acid FAST staining, kits, Schaeffer and Fulton's method for spore staining, Capsule stain, Hiss copper sulphate stain, Loeffler's alkaline methylene blue (LAMB) stain, Formaldehyde P.P. Crystal, pH indicator paper, Peptone water, Nutrient broth, Nutrient agar, Robertson's cooked meat medium (RCM), Blood agar base, MacConkey agar, Eosin Methylene Blue agar (EMB), Tetrathionate broth or selenite broth, Sabouraud's Dextrose Maltose agar, Muller Hinton agar, Different antibiotics, Hydro Choleric acid practical grade, Detergent solution, xylene, Cedar wood oils, PBS and Glycerin.</p>	<p>Membrane filters, Seitz filter. Ultraviolet (UV) light, Platinum loops, Slide Boxes, Spirit lamps, Alcohol/methanol, Cub boards for storage, scissors, forceps, scalpels with blades, Staining Jar, Staining racks, spatula, cotton and cotton swabs, Sample collection bottle & vials, Centrifuge tubes (15 & 50 ml, Vacuottainers plain and with anticoagulants, Cotton, Aluminum foils, Brushes for washing, Tissue paper, Lens cleaner, Bunsen burners, Staining racks and Different charts which give practical demonstration.</p>
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5	Preliminary pathology	<ol style="list-style-type: none"> 1. Microtome machine 2. Monocular/binocular microscope 3. Centrifuge 4. Postmortem stainless steel top table 5. Refrigerator 6. Deep freeze (-20 °C). 	Petri dishes and test tubes, Pasteur pipettes, Clean glass slides and cover slips, small screw-top vials, water-tight jars, blotting paper and staining rack.	Alcohol (ethanol or ethyl alcohol), CuSO ₄ , Xylene, Paraffin, tissue fixatives 10% formalin, normal saline and glycerin-saline, anticoagulants and PBS.	L' molds, Sample history register, Sample processing register, Result register, Post mortem report register, Purchase register, Different charts which give practical demonstration. Post mortem set, spirit lamp, spatula, syringe and needles, cotton and cotton swabs sterilized, sterilized vials, rubber bulbs, small or large stainless steel trays, sticker labels, marking pen, glass marking pencil, slide tray, measuring tape cm/inches, aluminum foil, adhesive tapes, towel soaps, measuring cylinder, record, ice box/flask polypropylene bags, mask-disposable,
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					thread, gum boots, camera with film, rexin/rubber sheets and SlideBoxes.
6	Animal reproduction-I	1. Fantom box 2. Palpation table 3. Microscope	Storage bottle for live female genital organ for demonstration glass slide, cover slip and glass road.	Nigrosin and eosin chemical.	Gynaecological instruments Artificial insemination set Thawing apparatus.
7	Introductory animal nutrition – II	--	--	--	Charts for the demonstration. Specimen jar for storage of feed samples.
8	Introductory Pharmacology	1. Simple pillar balance 2. Electronic balance 3. Water Distillation plant.	Glass mortar and pastel. & Porcelain mortar Ointment slab, Galli pot/ Porcelain jar, Storage bottles/ Stock bottle, Dispensing Bottle, Poison bottle different types, Sieve, Cylindrical measure/ Measuring	Sodium bicarbonate, Magnesium carbonate, Bismuth carbonate, Kaolin, Chalk powder, Catechu powder, Ginger powder, Zinc oxide, Starch, in powder, Purified talc, sterilized, Iodine, Potassium iodide, Simple ointment, Arachis oil, Mercuric iodide, Magnesium carbonate, Magnesium sulphate, Peppermint oil, Compound tincture of cardamom,	Ointment spatula (steel spatula, rubber spatula and pill spatula), Dropping bottle

			Cylinder, Conical measure flask , Volumetric glass beakers and Glass rod.	Aromatic spirit of ammonia Camphor, Soft soap, Turpentine oil, Potassium permanganate, Iodine, Potassium iodide, Trepan blue, Gentian Violet, Iodine, Potassium iodide, Ethanol (90%), Boric acid, Salicylic acid, Benzoic acid, Wool fat, Hard paraffin, Soft paraffin and White bees wax.	
9	Introductory Animal Health Care-II	--	--	--	Needles, syringes, few drugs, Thermometer and stethoscope.

**POLYTECHNIC IN ANIMAL HUSBANDRY,
KAMDHENU UNIVERSITY**

Third Year

Sr. No.	Topic	Apparatus	Glassware	Chemicals/Reagents	Others/Consumables
1	<u>Introductory Animal Management – III</u>	1.Egg Candler			Water glass, oil, limes, packaging materials, Model and chart, Different registers, Different equipments related to poultry farm like drinker, feeder, brooder, beak cutter and vaccine device.
2	Animal Reproduction-II				Obstetrical instrument set, Dystokia instrument set and Fetotomy set.
3	Introductory Animal Health Care-II	1.Refrigerator	Petri dishes, slides and Cover glasses.	Formaldehyde, mineral oil, dropper, 10-20% NaOH / KOH, alcohol (95%), KMnO ₄ , KCr ₂ O ₇ solution, California mastitis test kit, toluene and thymol crystals.	Sterile cotton swabs, scalpels, forceps, scissors, syringes and needles, vacutainers, plastic bags, polystyrene unbreakable containers, thermocol ice box, Catheter and Post mortem equipments set.
4	Introductory Veterinary Public Health	1. Lovibond Comparator with stand 2. Incubator 3. Refrigerator 4. Autoclave 5. Hot Air Oven	Pipettes, Petridish, Flask and Test Tubes	Methylene blue dye, Antibiotic residue strip, <i>Disodium p nitrophenylphosphate</i> , Platinum loop, Standard plate count agar, Sodium azide citrate agar, Cane sugar, Starch	Plunger, Sampling Dippers, Sampling bottle, Tube sampler, Bunsen burner and California Mastitis Test (CMT) kit.

		<p>6. Colony Counter 7. Centrifuge machine.</p>		<p>/ Cereal Flour, Skim Milk Powder, Gelatin Urea, Ammonium sulphate , Glucose, Resorcinol powder, Iodine solution, HCL, H₂SO₄, NaOH, Phosphomolybdic acid, Barfoeds Reagent, Acetone , Boric acid, Formalin, Benzoic Acid, Salicylic Acid, Hydrogen Peroxide, β – naphthol, Potassium Nitrate, Sodium carbonate and Sodium bicarbonate.</p>	
5	Minor Veterinary Surgery	<p>1. Operation table 2. Examination table 3. Instrument trolley 4. Instrument sterilizer 5. Instrument tray 6. X-ray machine 7. Illuminator 8. I/V stand 9. Autoclave</p>		<p>Turpentine oil, Povidone iodine, Antibiotic/Antiseptic ointments, Zinc sulphate powder, Boric acid powder and Potassium permanganate crystals.</p>	<p>Bard Parker Knife/B.P. handle/Scalpel, Allis tissue forceps, Artery forceps (Straight & Curved), Rat tooth forceps , Thumb forceps, Aural Forceps, Bowel Forceps, Molar tooth cutter, Dental float, Mouth gag, Burdizzo castrator, Nail cutter, Docking Scissors, Cheatele's sterilizer forceps Vaginal speculum, Suture cutting scissors, Wound retractor, Firing irons Dehorner , Electric/Non- electric dehorner, Bull Nose Punch , Emasculator, Tissue retractor,</p>

					<p>Amputation saw, Instrument tray, Kidney tray, Surgical drum, Ambu Rebreathing bag, Instrument trolley, Balling gun Engle’s plaster cutting saw Teat plug, Teat tumour extractor, Teat siphon Tongue forceps, Towel Clamps Scissors, Trocar and canula, Needle holders Eye Speculum, Suturing needles, Surgical drapes (various size), Surgical glows, Surgical gauzes, Stretcher, Movable chute Large animal bedding Different types of bandages, Dressing tray, Cotton bandages and Cotton Syringes with IV sets.</p>
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Annexure 1-B

List of Laboratory Materials, Equipment etc. for Instructional Farm

Different registers for farm records [Examples: Cattle yard register, service book, classified service register, daily milk production register, monthly milk production register, history sheet, Birth and death register, Roll call register, livestock register, concentrate & feeding register etc.]	Animal house and Dairy models
Tractor and trolley	Maximum-Minimum Thermometer
Buckets	Animal models and laminated photographs of different breeds of cattle, buffalo, sheep, goat, horse, camel, poultry etc.
Routine farm utensils (e.g., plough, saw etc.)	Animal tagging set (e.g., Ear-tag applicator, Tag punch etc.)
Chaff cutter	Models of Silo pit
Mouth gags	Electric clipper
Automatic vaccinator syringe	Metal/Plastic tags
Milking Machine	Casting ropes of different sizes and length
Milk cans	Electric dehorner
Lactometer	Bull nose-ring
Vernier Callipers	Drencher
Burdizzo Castrator (for large and small ruminants)	AI equipment (different species)
Disposable gloves, masks, caps etc.	Milk measures
pH strips for milk pH estimation	Body brush
Egg Candler	Brooder
Brooder guard	Grower battery
Layer battery	Chick feeder
Grower feeder	Layer feeder
Hanging feeder	Range feeder
Chick feeder/waterer	Grower drinker/waterer
Adult drinker/waterer	Earthen waterer
Water channel	Wing band
Debeaking machine	Incubator (Hatchery)
Leg band	Grinder and mixer
Essential medicines and vaccines	Microscope (e.g., to demonstrate wool)
Clinical thermometer	Stethoscope
Weighing scale or weighing machine	First aid kit for animals
First aid medical kit for staff	

Any other material required for proper and smooth function of the farm and laboratory may be added.

Annexure-1-C

Details Pertaining to Establishment of Veterinary Clinics/Veterinary Dispensary at Polytechnic in Animal Husbandry

Sr. No.	Particulars	Remarks/Relevant information		
01	Establishment of the main building	Should be completed before sending application for renewal of affiliation for second year (<i>i.e.</i> , before completion of first year of provisional affiliation)		
02	Location of main building	Within the campus or within 1.5-2.0 kms from main campus		
03	Structures within the main building with facilities for electric supply and water supply	Registration cum pharmacy unit	Doctor's chamber (Sitting capacity - 02)	
		Small animal examination room	Large animal examination area	
		Operation theatre/area with preparation chamber	Sterilization room and Laboratory	
		Artificial Insemination laboratory	Porch/parking area with ramp	
		Fixed Travis	Postmortem Room	
		Toilet facilities for boys and girls	Store room	
		Waste disposal tank		
04	Minimum instruments/equipment, materials etc. required before beginning the clinical activities	Aprons for Doctors	Aprons for staff	Gumboots
		Disposable gloves, caps, mask	Routine work tables	Patient examination tables
		Cupboards	Chairs & sitting tables/stools	Refrigerator for office & medicines
		Electric generator/invertor	Paper shredder	Dustbins, buckets – Normal
		Travis fixed	Chute movable	Ropes of different sizes for casting, milkman's rope
		Weighing machine/scale	Mouth gag for small animals	Mouth gag for large animal
		Trolleys for medicines, instruments, solutions etc.	Stainless steel trays to carry medicines, instruments	Hoof trimming set for ruminants and equines (Hoof pincer, rasp, tester, curette,

			sole, shoe)
	Animal transport trolley/stretchers	Dustbins – Bio-waste disposal	IV stands, IV sets, IV catheter of different sizes
	Syringes with different capacities (1 ml, 2 ml, 5 ml, 10 ml, 20 ml, 40 ml, 60 ml)	Needles of different sizes (16, 18, 21, 22, 24, 26)	Drenching gun
	Stethoscope	Thermometer	Phonendoscope
	Iron rod for disbudding	Hair trimmer and nail cutter for dogs	Surgical tapes (large & small size)
	Trochar&canula, rumen needle, seton needle	Urinary catheter	Autoclave machine
	Sterilizer – Hot water/Water bath/Syringe sterilizer	Surgical set for large animals including two rumenotomy sets (Artery forceps, needle holders, surgical needles, suture material, Allis tissue forcep, BP blades, BP handle, scalpel, straight scissor, curved scissor, tissue clamps, towel clamps, chisel, hammer, chital forceps, plaster saw, hexo blade, tumor extractor etc.)	Surgical set for small animals (Artery forceps, needle holders, surgical needles, suture material, Allis tissue forcep, BP blades, BP handle, scalpel, straight scissor, curved scissor, tissue clamps, towel clamps etc.)
	Suture needles (atraumatic and traumatic, straight and curved needles of different sizes)	Suture materials (catgut, cotton, nylon, etc.)	Vaginal speculum and Vaginoscope
	Instrument cabinets	Water suction pump	Gloves for gynecological examination

	Ultrasonography machine (for gynecological cases with rectal transducer) (Optional)	Vaginal speculum	Phantom box
	Palpation table	Artificial vagina	All instruments for fetotomy/Obstetrical instruments
	Whelping set	Operation table for small and large animals	Operation tables with drain for calves
	Teat & udder instrument sets (Including teat bistuary, teat siphons)	Dental instruments	Orthopaedic instruments/surgical sets
	Tattooing set	Tagging machine with tags	Vaccinator
	Stomach tubes for different animals	Burdizo castrator	Dressing equipments
	Handheld pump for bathing animals and cleaning wards	AI equipments (disposable gloves/sleeves, AI gun, sheath, lubricant gel etc)	Vaginal clamps
	Can for storing liquid nitrogen/LN ₂ containers/Semen shippers	Insulating bags	Urinary catheter
	Probang	Endotracheal tubes	Student's microscope/Light microscope
	Microscopic glass slides, cover slip	Glasswares and plasticwares for laboratory work/diagnosis (e.g., conical flask, beaker, spirit lamp, beaker, test tube etc. – 01 to 05 in numbers for students)	Hemocytometer
	Stains (e.g. Giemsa stain, Leishman stain, Field stain)	Ultrasonography machine for general cases (Optional)	X-ray unit (Optional)

05	<p>Details of medicines/drugs etc. to be kept</p> <p>Note:</p> <p>All groups/classes of medicines/drugs must be available at clinics on daily basis (24×7).</p> <p>Institute can purchase such material based on the requirements from time to time.</p>	<ul style="list-style-type: none"> • Antibiotics – Should be latest, safe. One vial of each antibiotic. • Anti-inflammatory drugs – Should be latest, safe. One vial of each anti-inflammatory. • Steroidal agents – Latest, safe. One vial of each steroidal drug. • Antipyretics. • Fluids – Crystalloids and colloidal fluids should be available for fluid therapy at all times. • Hemostatic drug – One vial of each hemostatic drug. • All varieties of intra-mammary preparations. • Different types of antiseptics creams and solutions. • Medicated powders for antiseptic dressing in cases of wounds. • Lifesaving drugs for emergency cases. • Disinfectants for cleaning hospital premises. • All types of herbal medicines made for veterinary use. • Deworming agents. • Vaccines against common diseases of ruminants, dogs and poultry birds. • Tetanus antiserum • Vaccines for staff members whenever needed (e.g., post-bite anti-rabies vaccines)
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Annexure-1-D

Indicative List for Books for Library at Polytechnic in Animal Husbandry

First Semester: APHY-111, LAN-111, CA-111, ENG-111 and LPM-111

Second Semester: LPM-122, STAT-121, AN-121, AHE-121, ENVS-121 and AB-121

Introductory Animal Physiology (APHY-111)	
1	A text book of animal husbandry by G. C. Banerjee
2	Introduction to Animal Physiology by Satis Kumar Jindal
3	Dukes Physiology of Domestic Animal by William O. Reece
4	Text book of Veterinary Physiology by Cunningham JG. WB Saunders.
5	Reproduction in Farm Animals 7th Edition Author: B. Hafez/E.S.E Hafez
Introductory Livestock Anatomy (LAN-111)	
1	Primary Veterinary Anatomy by R. K. Ghosh
2	Applied Anatomy of domestic animals by Bhardwaj R.L. ,Rajesh Rajput and K. S. Roy
3	A text book of animal husbandry by G. C. Banerjee
Introduction to Computer Application (CA-111)	
1	Course on Computer Concepts by Jain Satish
2	Dynamic memory computer course by DavindarsinghMinhas
English (ENG-111)	
1	Intermediate English Grammar by Raymond Murthy
2	Advanced English Grammar by Hewings Martin
3	High school English grammar & Composition by Wren & Martin
Introductory Animal Management-I (LPM-111) & II (LPM-122)	
1	A text book of animal husbandry by G. C. Banerjee
2	Livestock Production & Management by Thomas and Sastry
3	Handbook of Animal Husbandry by ICAR Publication
4	Live stock Production and Management by JagdishPrashad
5	Handbook of Animal Husbandry by K.C.Mahanta
6	Sheep and Goat production and management By JagdishPrashad

Elementary Statistics (STAT-121)	
1	A Hand book of Agricultural Statistics by S. R. S. Chandel
Introductory fodder management and grassland management (AN-121)	
1	Principal of Animal Nutrition and Feed Technology by D. V. Reddy
2	A text book of animal husbandry by G. C. Banerjee
3	Applied Nutrition: Live stock, Poultry, Pets, Rabbits and Laboratory Animals by D. V. Reddy
4	Advanced Animal Nutrition by D. V. Reddy
5	Handbook of Animal Husbandry by ICAR Publication
Introductory Animal Husbandry Extension-I (AHE-121)	
1	Extension, Communication and Management By G. L. Ray
Introduction to Environmental Science (ENVS-121)	
1	Text book of Elements of Veterinary Public Health by A. T. Sherikar, Pachhil V. N. and B. C. Thapliya
Introductory Animal breeding (AB-121)	
1	Textbook Of Animal Breeding by S.S. Tomar

Third Semester: VMI-211, VPARA-211, VPA-211, AHE-211 and AN-211

Fourth Semester: AHEM-221, AN-222, VP-221, AR-221 and AHC-221

Fifth Semester: AHC-312, AR-312, VPH-311, LPM-313 and VSUR-311

Introductory Veterinary Microbiology (VMI-211)	
1	Veterinary Microbiology And Microbial Disease by Quinn, P.J., Markey, J.K., Carter, M.E., Donnelly, W.J. and Leonard, F.C. (2002). . Pub: Wiley – Blackwell.
2	Microbiology by Prescott, Herley and Klein Fourth Edition.
Introductory Veterinary Parasitology (V PARA-211)	
1	Bhatia B.B., Pathak K.M.L., Juyal P.D. (2014). Textbook of Veterinary Parasitology. Kalyani Publishers
2	E. J. L. Soulsby (1965). Textbook of Veterinary Clinical Parasitology - Volume 1 – Helminths. Blackwell Science Ltd Publisher
Preliminary Pathology (VPA-211)	
1	Ganti A. Sastry and P. Rama Rao. . Veterinary Pathology. edition, CBS Publishers, New Delhi.

2	Vegad, J.L.2007. A Text Book of Veterinary General Pathology. 2 nd Edition, International Book Distributing Co., Lucknow
3	Vegad, J.L. and Katiyar, A.K. (2001). A Textbook of Veterinary Special Pathology (Infectious Diseases of Livestock and Poultry). First Edn. International Book Distributing Co. Lucknow, India
Introductory Animal Husbandry Extension-II (AHE-211)	
1	Livestock Economics, Business Management and Marketing.2000. A.MohamedSafiullah, S.Selvam and N.Prema.
2	Sastry, N. S. R and Thomas, C. K. (2005). Livestock Production Management, Kalyanai Publishers, Ludhiana
Introductory Animal Nutrition-I (AN-211)	
1	Principles of Animal Nutrition and Feed Technology 2 nd edition 2010, by D.V.Reddy Publisher - Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi
2	Applied Nutrition 3 rd edition 2015 (Livestock, Poultry Rabbits and Laboratory Animals) by D.V.Reddy, Publisher - Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi
3	e-source - http://www.elearnvet.net
Introductory Animal Husbandry Economics and Marketing(AHEM-221)	
1	K. S. Gangadhar(2009) Livestock Economics: Marketing, Business Management and Accountancy, New India Publishing
Introductory Animal Nutrition-II(AN-222)	
1	Principles of Animal Nutrition and Feed Technology 2 nd edition 2010, by D.V.Reddy Publisher - Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi
2	Applied Nutrition 3 rd edition 2015 (Livestock, Poultry Rabbits and Laboratory Animals) by D.V.Reddy, Publisher - Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi
3	e-source - http://www.elearnvet.net
Introductory Pharmacology (VP-221)	
1	Synopsis of Veterinary Pharmacology and Toxicology, V. VaniPrasad and K. M. Koley, 2006.
2	Veterinary Pharmacology and Therapeutics, 7th Edition, By Richard Adams, Iowa State University Press, 1995.
3	Veterinary Toxicology, Editor: Satish K. Garg, First Edition (2000), CBS Publishers

	and Distributors
Introductory Animal Reproductions-I(AR-221)	
1	Veterinary Andrology& Artificial Insemination by M. S. Saxena
2	Text Book of Veterinary Gynaecology, Artificial Insemination, Obsterics and Assisted Reproduction by S. K. Bandyopadhyay, B. Bhattacharyya, Ravindra Roy Chaoudhury and SiddhathaBasu
3	Veterinary reproduction &ObstetricsbyArthor G.H. Publisher- London E L B S 1982
4	Reproduction in Farm Animalsby B. Hafez, ESE Hafez. Publisher- Williams and Wilkins
Introductory Animal Health Care-I(AHC-221)	
1	Text Book of Clinical Veterinary Medicine by AmalenduChakrabarti, Third Revised Edition (2006), Kalyani Publisher
2	A Text Book of Preventive Veterinary Medicine by AmalenduChakrabarti, Third Edition (2007), Kalyani Publisher
Introductory Veterinary Public Health (VPH- 311)	
1	Textbook of Elements of Veterinary Public HealthbyA.T.Sherikar, V.N.Bachhil&D.C.Thapliyal(Eds.), for ICAR, Govt. of India.
2	ZoonosesbyMahendra pal (1997), RM publishers and Distributors, Delhi
Introductory Animal Health Care-I(AHC-312)	
1	Text Book of Clinical Veterinary Medicine by AmalenduChakrabarti, Third Revised Edition (2006), Kalyani Publisher
2	A Text Book of Preventive Veterinary Medicine by AmalenduChakrabarti, Third Edition (2007), Kalyani Publisher
Minor Veterinary Surgery (VSUR-311)	
1	Essentials of Veterinary Surgery by A. Venugopalan, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi
2	Ruminant Surgery by R. P. S. Tyagi&Jit Singh, CBS Publishers & Distributors Pvt. Ltd., New Delhi
Introductory Animal Reproductions-II(AR-312)	
1	Veterinary Andrology& Artificial Insemination by M. S. Saxena
2	Text Book of Veterinary Gynaecology, Artificial Insemination, Obsterics and Assisted Reproduction by S. K. Bandyopadhyay, B. Bhattacharyya, Ravindra Roy Chaoudhury and SiddhathaBasu

3	Veterinary reproduction & Obstetrics by Arthur G.H. Publisher- London E L B S 1982
4	Reproduction in Farm Animals by B. Hafez, ESE Hafez. Publisher- Williams and Wilkins
5	Veterinary Obstetrics & Genital Diseases by Stephen J Roberts
Introductory Animal Management-III(LPM-313)	
1	Poultry Production by R. A. Singh, 3 rd Edition Kalyani Publishers / LyallBk Depot
2	Poultry Production and Management by Prashad J. 2005, Kalyani Publishers
3	Poultry Science by Ensminger ME. 1992, International Book Distr. Co.
4	Livestock Production Management by N.S.R. Sastry & C.K. Thomas, Kalyani Publishers
5	A Textbook of Animal Husbandry by G.C. Banerjee, Kalyani Publishers

Annexure-1-E

Zone wise list of districts of Gujarat

1	Central Zone	Anand, Ahmedabad, Kheda, Vadodara, Panchmahal, Dahod. Botad, ChotaUdepur, Mahisgar
2	South Zone	Narmada, Bharuch, Surat, Tapi, Navsari, Dangs and Valsad.
3	North Zone	Banaskantha, Sabarkantha, Mehsana, Patan, Gandhinagar, Kachchh and Aravalli
4	Saurashtra Zone	Junagadh, Jamnagar, Rajkot, Porbandar, Surendranagar, Bhavnagar, Amreli, Devbhoomi Dwarka, GirSomnath, Morbi

**Application form for Provisional Affiliation of Polytechnic in Animal Husbandry to
Kamdhen University, Gandhinagar**

Zone: _____

1. Details of Application Fee (attach Demand Draft)	Page No.	
a. Application fees	Rs. 10,000/ (Rupees Ten Thousand only) In Form of Demand Draft	
b. Application Date		
c. D.D./Cheque No	Date	
d. Name of Bank		
Please issue Demand Draft in favour of " Kamdhen University Fund Account " payable at Gandhinagar		
2. Details of Institution : (Attach relevant attested documents)	Page No. _____	
a. Name of Institute (Society/Trust/Institution/Company)		
b. Memorandum of Association and bye laws (please attach copy)	Page No. _____	
c. Details of Registration	Page No.	
Registered under:		
Registration No:		
Date of Registration:		
Registration Certificate (attach copy): Yes / No		
d. Postal Address of Institute (Society/Trust/Institution/Company)		
e. Details of Managing Directors/Managing Trustees (Attach relevant Attested Documents)	Page No. _____	
Name		
Address		
Email	Contact No.	
f. Details of Board of Directors/Trustees (use separate sheet if needed)	Page No.	
Sr.No.	Name	Contact No.
1		
2		
3		
4		
5		
6		
7		

8			
9			
10			
g.	Details of the other activities i.e. educational / training programmes being run by the Institution. (please attach separate sheet, if required)	Page No. _____	
1			
2			
3			
4			
5			
6			
7			
3.	Details of Financial Resources (attach documentary evidences, affidavits and other relevant proofs of each)	Page No. _____	
a.	Receipt/ Income/ Turnover (Min. 1 Crore)		
	Present Sources of Income		
	Future Source of Income		
b.	PAN No.		
c.	TAN No.		
d.	Details of last three consecutive years Income and Tax Paid (Attach IT Returns)	Page No. _____	
Sr.No.	Years	Total Taxable Income	Tax Paid
1			
2			
3			
*Note: Attache certificate of CA for the same			
e.	Corpus Fund (Minimum 50 Lacs.)		
1	FDR/Bank Diposits	Rs.	Page No. _____
2	Other Diposits	Rs.	Page No. _____
3	Other instruments of investment	Rs.	Page No. _____
4	Liquid fund (attach copy of Bank Passbook)	Rs.	Page No. _____
5	Statements of Accounts	Rs.	Page No. _____
6	Others if Any	Rs.	Page No. _____
*Note: Attache certificate of CA & evidences for the same			
4. Proposed Course for which affiliation is sought (✓)			
<input type="checkbox"/> Diploma in Animal Husbandry			
5. Full Postal Address of the Proposed Polytechnic to be located with Pin Code			
Ta.		Dist.	
Pin Code			
Contact No.	(L)	1.	
		2.	
	(M)	1.	
		2.	

6. Land and Buildings (Attach copy of ownership rights of land and Title clear certificate of property and plan of buildings) <i>*Minimum 20 Acres of contiguous Land Under its Clear Title exclusive for the polytechnic</i>													Page No. _____					
A1.	a.		Name of Property															
	b.		Survey Number															
	c.		Total Area				Hactor:				Acre:				Squire Meter:			
	d.		Status of Ownership															
	e.		Name of Owners (List to be Attached)								Page No. _____							
A2.	a.		Name of Property															
	b.		Survey Number															
	c.		Total Area				Hactor:				Acre:				Squire Meter:			
	d.		Status of Ownership															
	e.		Name of Owners (List to be Attached)								Page No. _____							
A3.	a.		Name of Property															
	b.		Survey Number															
	c.		Total Area				Hactor:				Acre:				Squire Meter:			
	d.		Status of Ownership															
	e.		Name of Owners (List to be Attached)								Page No. _____							
A4.	a.		Name of Property															
	b.		Survey Number															
	c.		Total Area				Hactor:				Acre:				Squire Meter:			
	d.		Status of Ownership															
	e.		Name of Owners (List to be Attached)								Page No. _____							
A5.	a.		Name of Property															
	b.		Survey Number															
	c.		Total Area				Hactor:				Acre:				Squire Meter:			
	d.		Status of Ownership															
	e.		Name of Owners (List to be Attached)								Page No. _____							
A6.	a.		Name of Property															
	b.		Survey Number															
	c.		Total Area				Hactor:				Acre:				Squire Meter:			
	d.		Status of Ownership															
	e.		Name of Owners (List to be Attached)								Page No. _____							
B. Building of Proposed Polytechnic (Please attach Building Use Permission)													Page No. _____					
Main Polytechnic Building																		
Principal's Chember					Conference/ Meeting Hall					Administrative office								
No		Size		Sq. m.	No		Size		Sq. m.	No		Size		Sq. m.				
Teaching Staff Room					Non-Teaching Staff Room					Store Room								
No		Size		Sq. m.	No		Size		Sq. m.	No		Size		Sq. m.				
Lecture Halls/ Class Rooms					Multipurpose Hall/ Examination Hall With CCTV					Library								
No		Size		Sq. m.	No		Size		Sq. m.	No		Size		Sq. m.				
Laboratories					Computer Laboratory													
No		Size		Sq. m.	No		Size		Sq. m.									
Toilets					Rest Room					Water Room								
No		Size		Sq. m.	No		Size		Sq. m.	No		Size		Sq. m.				

C. Hostels

a.	Category	No of Rooms	No of Students per Room	Total Capacity	Address
	Boys Hostel				
	Girls Hostel				

b. Hostel Furniture (Attach List) **Page No.** _____

Location (√) Within Campus Outside Campus

Ownership (√) Owned Rented Leased

D. Students Amenities

a.	Sports Complex			Page No. _____
	i	Play Ground Area: _____	Sq. m.	Page No. _____
	ii	Outdoor Sports Facilities	1.	2.
			3.	4.
			5.	6.
	iii	Indoor Sports Facilities	1.	2.
			3.	4.
			5.	6.
	iv	Sports Equipments: (Attach list)		Page No. _____

b. Student Bus(√) YES NO If Yes, Owned or Rented

7. Management of the Polytechnic

A. Details about the Principal and Teaching staff if appointed (attach documentary proof of qualifications and experience for each staff, use extra sheet for detail information) **Page No.** _____

Sr.	Name	Designation	Qualification	Expiriance			Pay scale
				Year	Month	Day	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

B. Non-Teaching staff (use extra sheet if needed)							Page No.	
Sr.	Name	Designation	Qualification	Expiriance			Pay scale	
				Year	Month	Day		
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

8. Laboratory Facilities (attach list of facilities for each laboratory)

1. Anatomy Laboratory & Clinical Laboratory

Page No.

Area Sq. m.

Furniture
 Yes No

Equipments
 Yes No

Chemicals & Glassware
 Yes No

Computers & Printers
 Yes No

Internet Conectivity
 Yes No

*(Please attach list of Furniture, Equipments, Chemicals & Glassware, No of Computers & Printers with Internet Conectivity.)

2. Basic Subject Laboratory (Physiology, Biochemistry, Pharmacology & Animal Nutrition)

Page No.

Area Sq. m.

Furniture
 Yes No

Equipments
 Yes No

Chemicals & Glassware
 Yes No

Computers & Printers
 Yes No

Internet Conectivity
 Yes No

*(Please attach list of Furniture, Equipments, Chemicals & Glassware.)

3. Animal Genetics & Breeding, LPM & Extension, Statistics Laboratory

Page No.

Area Sq. m.

Furniture
 Yes No

Equipments
 Yes No

Chemicals & Glassware
 Yes No

Computers & Printers
 Yes No

Internet Conectivity
 Yes No

*(Please attach list of Furniture, Equipments, Chemicals & Glassware.)

4. Dignostic Laboratory (Pathology, Parasitology, Microbiology & VPH)

Page No.

Area Sq. m.

Furniture
 Yes No

Equipments
 Yes No

Chemicals & Glassware
 Yes No

Computers & Printers
 Yes No

Internet Conectivity
 Yes No

*(Please attach list of Furniture, Equipments, Chemicals & Glassware.)

9. Library Facilities (attach list of books as per Annexure-1-D)

No of Textbooks No of Reference Books No of Journals
 No of other books No of CDs/ DVDs No of Computers & Printers

10. Instructional Farm

A. Building (Give details of the plan of building on a separate sheet)

Office cum Laboratory				Cattle & Buffalo sheds				Sheep & Goat sheds			
No	Size		Sq. m.	No	Size		Sq. m.	No	Size		Sq. m.
Horse & Camel sheds				Poultry sheds				Fodder Godowns			
No	Size		Sq. m.	No	Size		Sq. m.	No	Size		Sq. m.
Silo Pits											
No	Size		Sq. m.								

B. Livestock & Poultry (Preferably of Different Breeds Specify Numbers of Animals) * **Mandatory**

Cattle *
Cows from each breed (Gir, Kankrej, Dangi, & Cross breed)
 Buffalo*
Two from each breed (Mahesani, Surti & Jafrabadi)
 Goat*
Two from each breed (Mahsani, Surti, Zalawadi, Gohilwadi & Kachchhi)
 Sheep*
Two from each breed (Marwadi & Patanwadi)
 Poultry*

 Bullocks
2 (1 Pair) (Optional)
 Hourse
2 (Male & Female) (Kathiyavadi)
 Camel
1 (Kachchhi) or Any

C. Fodder Production Facilities

Land Available (√) Yes No If Yes, Total Area
 Irrigation Facilities (√) Yes No
 Fodder Farm Impliments (√) Yes No Attach List

Page No. _____

D. Equipments Implements & Related Material for Instructional Farm (attach list)

Page No. _____

11. Veterinary Dispensary (Give details of the building & equipments on a separate sheet also.)

Building

A. * Within the campus or within 1.5-2.0 kms from main campus

Registration Cum Pharmacy Unit				Doctor's Chamber (Sitting Capacity -2)				Small Animal Examination Room			
No	Size		Sq. m.	No	Size		Sq. m.	No	Size		Sq. m.
Large Animal Examination Room				Operation Theater/ Area with Preparation Chamber				Sterilization Room & Laboratory			
No	Size		Sq. m.	No	Size		Sq. m.	No	Size		Sq. m.

Artificial Insemination Laboratory				Porch/ Parking Area with Ramp				Fixed Travis			
No	Size		Sq. m.	No	Size		Sq. m.	No	Size		Sq. m.
Postmortem Room				Toilet Facilities for Boys & Girls				Store Room			
No	Size		Sq. m.	No	Size		Sq. m.	No	Size		Sq. m.
Waste Disposal Tank											
No	Size		Sq. m.								
B. Equipments Implements & Related Material for Veterinary Dispensary (attach list)										Page No.	
List of documents enclosed											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DECLARATION

On behalf of the _____ (name of society/ trust/ organization), I _____ Son/daughter of _____ r/o _____ do hereby declare that the particulars furnished above in the application for Grant of provisional affiliation of _____ (name of the Polytechnic) to Kamdhenu University, are correct to the best of my knowledge and belief, and if any of the particulars furnished are found to be false or misleading I am liable to penalty and/or legal action by the Kamdhenu University. I also further declare that I shall abide by the conditions, rules and regulations of the University as amended from time to time for granting affiliation to establish and run this Polytechnic and maintain the academic standards as per the directives of the University.

Place.....
Date.....

.....
Signature of the applicant
(Authorized signature with official seal)

Place.....
Date.....

.....
Managing Director/ Chairman/ Trustee
(Authorized signature with official seal)

- # The Application, incomplete in any respect, will not be considered
- # The Application not accompanied by the declaration and undertaking as per format given on the following pages will not be considered.
- # All the correspondence shall be address to the **Registrar, Kamdhenu University, Block-1, B-1 wing, 4th Floor, Karmyogi Bhavan, Sector-10A, Gandhinagar-382010, Gujarat**

UNDERTAKING

(To be submitted along with the application form on a non-judicial stamp paper of Rs. 1000/- duly attested by first class executive magistrate)

I _____ S/O _____
resident of _____ on behalf of
(Institution name) registered office at

_____ solemnly declare that:

1. I have applied for affiliation of institute (named below) for award of the **Polytechnic in Animal Husbandry** to the Kamdhenu University, Gandhinagar on the prescribed form along with prescribed fee.
2. Detailed infrastructure facilities etc. are given in Annexure 1 entitled on its page- **Minimum Standards and Norms for Affiliation of Polytechnic in Animal Husbandry to Kamdhenu University** consisting of total.....pages, duly filled in on behalf of me.
3. On behalf of the Applicant Body, of which I am authorized representative, I have full knowledge of the norms of the Kamdhenu University, Gandhinagar.
4. On behalf of the Applicant Body, of which I am authorized representative, I am fully aware that the diploma programme, to which the Applicant Body, of which I am authorized representative, has applied, is governed by the norms of the Kamdhenu University, Gandhinagar.
5. On behalf of the Applicant Body, of which I am authorized representative, I declare that it shall be binding on the Applicant Body to fully, in letter and spirit, to follow the norms of affiliation to the Kamdhenu University, Gandhinagar, as laid down at present as well as in future.
6. On behalf of the Applicant Body, of which I am authorized representative, I declare that it shall be binding on the Applicant Body to fully, in letter and spirit, to abide by the guidelines/advises/directives etc. provided by the Kamdhenu University including their authorities.

7. On behalf of the Applicant Body, I also assure that the directions in regard to Academic Programmes including examinations would be followed *in toto* as per the rules and regulations of Kamdhenu University amended from time to time.
8. On behalf of the Applicant Body, I will abide by all the Rules and Regulations of affiliation and instructions given by the University from time to time.
9. Details of management committee members along with verified address (by revenue officer) and their photographs are provided in Annexure 3.
10. I hereby declare that the said Polytechnic/Institute (which has applied for affiliation) shall abide all the rules and regulations, orders, instruction etc. issued by the University and also framed by in the future, failing which the University reserves the right to withdraw the affiliation.
11. The above information in Para 1 to 10 is correct to the best of my knowledge and nothing, herein, has been concealed.

Annexure enclosed with it:

- a) Annexure 1: Prescribed application form duly filled and signed **YES/NO**
- b) Annexure 2: Detailed information's as required in the application form **YES/NO**
- c) Annexure 3: The details of management committee members along with verified address (by revenue office) and their photographs. **YES/NO**

Place.....

Date:

.....
Signature of the applicant
(Authorized Signatory with official seal)

Witness 1:

Name:

Father's name:

Full Address:

Witness 2:

Name:

Father's name:

Full Address: