

Veterinary Polytechnic



Prospectus



**Office of the Officer in charge, Veterinary Polytechnic
Chhatisgarh Kamdhenu Vishwavidyalaya(www.cgkv.ac.in)**

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1.Chhattisgarh Kamdhenu Vishwavidyalaya

Chhattisgarh Kamdhenu Vishwavidyalaya (CGKV) was established by His Excellency the Governor of Chhattisgarh State dated 11th April, 2012 with promulgation of The Chhattisgarh Kamdhenu Vishwavidyalaya Act, 2011.

VISION

Enhanced contribution of livestock sector to the sustainable food security, poverty alleviation and sustained economic growth in Chhattisgarh state is the Vision of the Vishwavidyalaya. The University will take a lead among all the existing Veterinary Universities of this sub continents by contributing innovative ideas experienced through noble research handled and will be one step ahead in extending the need based knowledge to the farmers for their socio-economic upliftment. Peer efforts have been exercised and shall be contained to produce distinct scholars in the field of Veterinary and Animal Sciences, Fisheries and Dairy Technology beside catering good exposure by updating the knowledge to field veterinarians and other workers associated with different species of animals. Overall enhanced contribution of livestock sector to the sustainable food security, poverty alleviation and perpetual economic growth in Chhattisgarh state is the vision of the Vishwavidyalaya.

MISSION

The mission of the Vishwa vidyalaya is to customize an integrated approach for all round development of livestock, poultry and fisheries through imparting quality education, intense research and development for innovative technology and act as a hub to dissipate the world wide technological advances through refined extension approach to need based farmers and the end users for sustainable productivity to augment and garner a dynamic livestock economy for the state.


Dr.R.C.Ramteke
Chairman
Publication Committee


Dr.O.P. Mishra
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Checking Committee

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Registrar
CGKV

Vishwavidyalaya which are started from July 2014 in three different and important places of Chhattisgarh. However in Rajnandgoan, Polytechnic started from 2017.

1. Veterinary Polytechnic Surajpur
2. Veterinary Polytechnic Jagadalpur
3. Veterinary Polytechnic, Mahasamund
3. Veterinary Polytechnic, Rajnandgoan

Veterinary Polytechnic is functioning in the infrastructure which was previously available for Assistant Veterinary Field Officer training in Jagadalpur & Mahasamund. At present Veterinary Polytechnic at Surajpur is running in a portion of ITI building. A newly constructed building would be functional very soon in Surajpur. However in Rajnandgoan, Polytechnic is running in a separate ^School building provided by Collector. University is making an effort to get 10 acres of land and subsequently a new infrastructure will be created very soon.

Major objectives of Veterinary Polytechnic

1. To impart education and practical training in the field of veterinary and animal science to rural youth so that they can be useful para veterinary staff.
2. To fulfill the shortage of supporting para veterinary technical staff in the field of Veterinary, Animal husbandry and Dairying.
3. To create an opportunity for self-employment through livestock farming among rural and educated youth.
4. To conduct 24 months Diploma course in 4 semesters for selected student who may be absorbed in the department in near future depending on vacancies available.
5. To be able to undertake capacity building programs by any organization or government departments where agriculture in General and Animal Husbandry in particular is a theme.

Diploma holders of these Polytechnics are supposed to do the following task:

- Recognize signs of diseases in animals and report to the veterinarian
- Give first aid to sick animals
- Perform AI, deworming, vaccination, dehorning, hoof trimming, etc.
- Visit farms/farmers and advise on improved farm management and feeding practices and production and health related issues
- Carry out livestock census
- Carry out surveillance for important/emerging diseases, sample collection and dispatch.




4. Admission Criteria, Seats and Duration of Semester

- a) He/she has completed the minimum age of 17 years and maximum age of 22 years on or before the 31st December of the current year of his/her admission to the 1st year. For example if admission is going on July 2018, the age will be counted on 31st December 2018. But in the case of ST, SC and OBC under creamy layer maximum age limit is 25 years.
- b) He/ she has passed the qualifying examination 12th standard with the subjects of Physics, Chemistry and Biology as core course
- c) The selection of students for admission to DAH Course shall only be on the basis of merit through a competitive entrance examination conducted by Vyavsaik Pariksha Mandal of Chhattisgarh.(CGVYPM)

1. ALLOTMENT OF SEATS

- The Diploma in Animal Husbandry course (DAH) programme is of 2 years duration (1.5 year course work and 6 months Compulsory Rotatory Field Training)
- Details of seats and their allocation are as under.

S.N .	Name of Veterinary Polytechnic	No. of Seats as Per Merit list of PAT	Livestock Development Departmental Seats	Total Seat
1	Veterinary Polytechnic Suraj pur	100	10	110
2	Veterinary Polytechnic Jagdalpur	100	10	110
3	Veterinary Polytechnic Mahasamund	100	10	110
4	Veterinary Polytechnic Rajnandgoan	60	06	66
	Total	360	36	396

- All Seats will be filled through PAT (Pre Agriculture Test) conducted by Vyavsaik Pariksha Mandal of Chhattisgarh (CGVYPM).
- Reservation of seats will be governed by Chhattisgarh government rules and regulation.

2. DURATION OF SEMESTER OR ACADEMIC YEAR

- (a) First semester in the respective academic year of DAH classes shall commence in July or August but not later than 31st October.
- (b) Each academic year shall consist of at least 200 days of instruction excluding time spent for examinations. Each academic year shall consist of two semesters and each semester shall consist of at least 100 days of instruction excluding time spent for examinations.

(e) In every examination the student has to secure a minimum of 50% marks, in theory as well as in practical, in each subject. There is no annual examination; only midterm theory examination, end term theory examination and end term practical examination will be conducted in each semester except 4th / last semester to evaluate the students. Student has to pass each semester separately to complete the course.

For further details see the academic regulations of CGKV for veterinary polytechnic.

II. SYLLABUS

The semester-wise distribution of theory and practical courses during the complete course of DAH comprising 51 credits is as follows:-

S.	Course Title and Course Contents	Credit Hours
Semester I		
1.	DAH-I: Basic Veterinary Anatomy	2+0
	Digestive, Respiratory, Circulatory, Nervous, Urinary and Reproductive organs-Major Bones, Joints and Muscles- Sensory organs – Differences in Anatomy of Ruminants and Non-ruminants	
2.	DAH-II: Basic Veterinary Physiology	2+0
	Functions of Digestive, Respiratory, Circulatory, Nervous, Urinary and Reproductive systems- Hormones– Differences in Physiology of Ruminants and Non-ruminants	
3.	DAH-III: Basic Livestock Management	2+1
	External body parts of various Livestock- General scientific terminologies – Dentition and Ageing- Animal identification methods- Breeds of cattle, buffalo, sheep, goat and pig in India- Exotic purebred, crossbred and zebu – General livestock farm practices – Systems of rearing of livestock – Feeders, Waterers and other farm utensils – Water requirement for livestock – Calf, kid, lamb and piglet management – Importance of colostrum- Weaning practices and weaning age in different livestock – Farm records- Farm implements – Farm waste disposal, Animal Welfare. Practical - External body parts of various livestock – Dentition and Measuring of Age- Animal identification methods – Restraining and casting – Dehorning – Grooming – Shoeing – Hoof trimming – Farm implements – Farm waste disposal.	

	Tinctures, Dusting powder)	
	Total credits for Semester I	11+6=17
Semester II		
8.	DAH-VIII: Fisheries	3+2
	<p>Introduction to aquatic animals. Types of common aquatic animals including fish, Principles of fresh water aquaculture, Composite fish culture, Pre and post stocking management, Fish breeding and seed production (nursery, rearing and stocking management), Integrated aquaculture. Fish diseases: Viral, bacterial, fungal, parasitic and environmental diseases affecting aquatic animals and their control. Capture fisheries: Reservoir and riverine fisheries management.</p> <p>PRACTICAL</p> <p>Identification of culturable fishes. Soil and water analysis, Fish feed management, Induced breeding techniques. Disease identification and control, Fish farm management.</p>	
9.	DAH – IX : Livestock Health Management – I	2+2
	<p>First aid measures – Important bacterial, viral and zoonotic diseases – Vaccines- Types of vaccines available for different livestock – Vaccination procedures (Dosage, site and route of administration), Vaccine schedule for different diseases and livestock – Storage and preservation of vaccines – Needles and instrument sterilization – Post-vaccination complications- Vaccination registers – Common ecto and endoparasites – Deticking – Deworming procedures- Publicity on import 10 vaccination and deworming, important disease control practices like disposal aborted fetus, disinfection of infected premises etc.</p> <p>Practical - Restraining methods – First aid measures – Types of vaccines- Vaccination procedures (Dosage, site and route of administration), Vaccine schedule for different diseases and livestock – Storage and preservation of vaccines – Needles and instrument sterilization – Post- vaccination complications – Vaccination registers – Deticking – Deworming procedures.</p>	
10	DAH – X: Veterinary Public Health and Epidemiology	2+1

	Microbiological quality evaluation of milk. Methods of ritual and humane slaughter, flaying and dressing of food animals including poultry. Carcass evaluation. Determination of meat yield, dressing percentage, meat bone ratio and cut up parts.	
12	DAH- XII: Handling and Skill Development in Clinical Instruments.	0+2
	Skill development in ultrasound instrument, ECG machine, X-Ray machine, Blood pressure instrument, automatic blood analyzer, hematology analyzer, milk analyzer etc. Students will visit the different institute of this university where the instruments are working to develop their skill.	
	Total credits for Semester II	9+8=17
Semester III		
13	DAH-- XIII: Livestock Breeding	3+2
	<p>Puberty and sexual maturity – Methods of breeding – Oestrous cycle- estrus signs-Artificial Insemination – Appropriate time for insemination – Insemination method- Frozen semen straws and handling procedures – Liquid Nitrogen (LN2) – LN2 containers and their maintenance – Insemination equipments and their sterilization and maintenance – Service period, days open and inter-calving period- Management of animals after insemination – Methods of pregnancy diagnosis- Parturition and difficulties in parturition – Management of post parturient animals and calves- Udder management – Hygienic milk production- Milking methods – Drying off milch animals, concept of state breeding policy.</p> <p>Practical – Identifying Oestrus signs externally and per rectal – Handling frozen semen (12) – Identification and maintenance of insemination equipments – Maintenance of LN2 containers – Examination of female genitalia per rectum – Artificial insemination- Methods of pregnancy diagnosis in cows and buffaloes.</p>	

17	DAH- XVII: Poultry Production and Management	1+1
	<p>Poultry breeds – Layers and broilers – Chicks, Growers and Adults – Deep litter and cage system – Housing management – Feeding management – Deworming, debeaking and Vaccination schedule- Medicines through feed and water – Farm tools like waterer and feeder – Hatchery.</p> <p>Practical - Poultry breeds – Layers and broilers – Chicks, Growers and Adults- Deep litter and cage system – Housing – Feeding – Deworming, debeaking and Vaccination schedule- Medicines through feed and water- Visit to poultry farms and hatcheries- Candling of eggs.</p>	
	Total credits for Semester III	10+7=17
Semester IV has no credit only Satisfactory (S) & Unsatisfactory grade will be provided		
18	DAH XVIII- Compulsory rotatory Field Training	
	<p>Students need to undergo rotational Field Training in batches for six months at:- Veterinary hospitals/dispensaries ----54 days Dairy farms --- 54 days Poultry farms/Pig/Goat ---- 18 days AI centre ---- 54 days</p> <p>The evaluation shall also be conducted by viva-voce examination on the basis of written records of the students in the veterinary hospitals and livestock/poultry farms, duly verified by the hospital/farm in-charge. Only satisfactory /unsatisfactory grade will be given in Viva. A student getting US grade either in field training or Viva or both will repeat the 4th semester. Viva Will be conducted by following committee:</p> <p>1.University Nominee - Chairman 2.Principal - Member 3.Two assistant professors of the concerned Polytechnic nominated by principal - Member</p>	
	Total credits	30+21=51

IV. ATTENDANCE

(a) The minimum requirement of attendance shall not be less than 75% (including attendance benefit, if any) of scheduled theory & practical classes separately on the basis of cumulative attendance of all the courses grouped for a paper for examination.

A student obtained OGPA of 5.0 or above on 10-point scale besides other requirements laid down by faculty shall be eligible for the award of degree. The division shall be awarded as below:

S.No.	OGPA	Description of performance (%)	Division
1	8.00 and above	80 and above	1 st with distinction
2	7.00 to 7.99	70 to 79.99	1 st
3	6.00 to 6.99	60 to 69.99	2 nd
4	5.00 to 5.99	50 to 59.99	3 rd
5	Below 5.00	Below 50	fail

7. Veterinary Polytechnic Institute profile

7.1. Veterinary Polytechnic Mahasamund

The institute has a total land area of 5 acres located at a distance of 08 km from the district headquarter of Mahasamund town having Institutes main building and boy's hostel which was previously AVFO Training Centre. Girl's hostel is located at DDVS office Premises in the Mahasamund town. The first batch of 69 students (Academic Session 2015-16) has completed DAH in August 2017. The institute is engaged in effective teaching to the students and actively engaged in extension activities in and around the locality.



Main building Veterinary Polytechnic Mahasamund



Feed Sample Museum



Models & Exhibits for Practical



Exposure Visit at Fodder unit KVK



Artificial Insemination Training



External examination



Presentation by students

7.2. Veterinary Polytechnic Surajpur

At present the institute running in the First floor, Govt. I.T.I. building, Surajpur (C.G.) having two class rooms and one staff room. There are no Hostel facilities at present. Now Institute has to shift at its own building in Surajpur.



First batch (2013-14) of Veterinary Polytechnic Surajpur



Institute bus



Class room



Skeletal System of Dog



Visceral organ of Cattle & Buffaloes

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Inaugurated
**Veterinary Polytechnic, Jagdalpur, Hon. Agriculture Minister
Shree Brij Mohan Agrawal on 11th May 2016**



First Pass out batch (2015-16) of Veterinary Polytechnic Jagdalpur.

[Signature]

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7.4. Veterinary Polytechnic, Rajnandgaon

This Polytechnic was started in the year 2016-17 and at present the institute running in the Government School building at Village Bori, Rajnandgaon (C.G.) District having one staff room, two class room and one laboratory. Hostel facilities are not available.



First batch of Veterinary Polytechnic Rajnandgaon(2017-18)



Class room teaching



Field practical

7.5. Student's Profile at all Veterinary Polytechnic

S.	Batch	Vety.Poly. Mahasamund			Vety.Poly. Surajpur			Vety.Poly. Jagadapur			Vety.Poly. Rajnandgaon		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2015-16	41	30	71	49	18	67	102	18	120	0	0	0
2	2016-17	73	36	109	67	43	110	75	35	110	0	0	0
3	2017-18	72	35	107	73	35	108	72	36	108	41	24	65

Facilities at Veterinary Polytechnic, Surajpur



Class room first year



Staff room



Bone of different animals



Visceral Organ of different animals

Facilities at Veterinary Polytechnic, Jagadalpur



Library



Other infrastructure

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Hostel facilities are not available in Surajpur and Rajnandgoan but will be created soon.

5. Curricular Activities



Exposure Visit at Fisheries



Exposure Visit at KVK



Practical Classes



Exposure Visit at ABIS Poultry Farm,



Exposure Visit at Dairy Plants

A

G



Cultural Events by Students



Cleanliness and Plantation by Students



Yoga day Celebration

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7.10.Extension Activities at Polytechnics

Training and Extension plays key role for this agricultural growth. Students have taken various initiatives like data collection, survey, Clean and Green initiatives and participated in National Cleanliness programmes in phased manner and rural population has got benefit.



Students participated in Veterinary Camps, Mass Vaccination and Castration programmes organized by Animal Husbandry Department Government of Chhattisgarh and learned various techniques as well as given services to the poor farmers.



Learning techniques of Handling and Castration

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Goat Farming training under NLM organized on 23- 24 March 2018 at Mahasamund



Dairy Farming training under NLM organized on 19-21 March 2018 at Surajpur



Poultry Farming training under NLM organized on 22- 23 March 2018 at Surajpur

B

(B)

Teaching staffs at Veterinary Polytechnic, Mahasamund

 <p>Dr. G.K. Dutta Principal/ Professor (Ph.D) 9406062638 having 27 years of experience in teaching UG,PG,Ph.d Students. gkduttavbc@gmail.com principalvpm@gmail.com</p>	 <p>Dr. Ramchandra Ramteke Assistant Professor (M.V.Sc) 9329583360 rcr_2009@rediffmail. com</p>	 <p>Dr. Devesh Kumar Giri Assistant Professor (M.V.Sc) 9568248872 giri.devesh18@gmail .com</p>	 <p>Dr. Govina Dewangan Assistant Professor (Ph.D) 8461847291 govinadewangan@gmail. com</p>
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Teaching staffs at Veterinary Polytechnic, Surajpur-

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