DEPARTMENT OF VETERINARY GYNAECOLGY & OBSTETRICS

COLLEGE OF VETERINARY SCIENCES AND ANIMAL HUSBANDRY
ACHARYA NARENDRA DEVA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY
Kumarganj 224229, Ayodhya, U.P. (INDIA)

About The Department : Brief History and Profile

The department of Veterinary Gynaecology & Obstetrics was fully established in 2002 as one of the 17 full-flagged departments of the College. The faculty strength approved is as per VCI regulation. The theoretical and practical training in the fields of applied reproduction and gynaecology are imparted to undergraduate and post-graduate students of Veterinary Science. The department has successfully completed eight projects and two more are in operation at present funded by the University/State Govt. / RKVY, ICAR etc. The department is having breeding bulls and DFS laboratory with a set of modern IMV equipments and LN2 containers which is unique among the academic institutes of the country. The department also have one ETT & IVF lab. The staff members of the department have also participated in more than 42 Gynaecological Camps organized in the state. Total 27 and 2 have completed PG and Doctorate programmes respectively and 9 and 4 have pursuing PG and Doctorate programmes respectively. A total of 90 research papers and 7 text books, apart from more than 53 clinical/review articles/lead papers, 14 popular articles, 49 book chapters, and 11 books/bulletins/manuals/compendia etc have been published so far through this department. The department so far has also generated 13 research recommendations for farmers and scientific community. The staff members of this department have bagged more than 75 awards and laurels, and have also attended & presented papers in large number of Seminars, Symposia and Conferences of National and International repute with significant research contribution. The department also organized two national seminars and 5 MAITRY Trainings.

VISION

To become an internationally recognized center of excellence in Veterinary Gyanecology & Obstetrics Education and Research for the creation, dissemination, and transfer of knowledge

MISSION

The main mission of the department is to provide expert hand, latest diagnostic technologies related to theriogenology and dissemination of scientific knowledge to the stakeholders.

Mandate

Teaching: Undergraduate and post graduate teaching.
Research: Research in Animal Reproduction, Gynaecology, Obstetrics, Semen biology and assisted reproductive technologies.
Extension: Transfer of scientific knowledge through trainings and infertility camps to farmers.
Clinical Services: Diagnostic and reproductive health management services to the animals in the university clinics and other farms of the state.

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Thrust Area

* To improve diagnostics for reproductive ailments in animals.
* To commission the services of experts in diagnosis and treatment of reproductive disorders in livestock species.
* Need based training programmes for field veterinarians, livestock farmers and interns.
* To propagate the elite germplasm through assisted reproductive technologies in indigenous breeds of cattle, goat and Murrah buffalo.

FACULTY PROFILE & ACHIEVEMENTS

Sr. No.	Name	Highest Qualification	Google Scholar		
			Citation	h-index	i10 - index
1.	Dr. Sushant Srivastava	PhD & NET (ICAR-ASRB)	358	10	11
2.	Dr. Bhoopendra Singh	PhD	95	6	2
3.	Dr. Rabindra Kumar	PhD (Pursuing) & (ICAR-ASRB)	42	4	0
4.	Dr. Rajesh Kumar	M.V.Sc. & NET (ICAR-ASRB)	392	10	10

Research Methodology/Technology Developed/Achievements

Sr. no.	Name	Individual/Collaborative	Particulars
1.	Development of Dilutor	Individual	Developed suitable dilutor for preservation of buffalo bull semen
2.	Sex sorted semen production	Individual	Produced sex sorted buffalo bull spermatozoa
3.	Selection of breeding bulls	Collaborative	Selection of bull/ calf on the basis of Ultra Sound based evaluation
4.	Harvesting of high quality semen from elite bulls/bucks	Individual	Make available for insemination in fields

Different Training

* MAITRY training- 05
* Farmers awareness camp
* Infertility camp
* Refreshment courses for state Veterinary officers
  Organization of national seminars

Future Plans

* Development of suitable dilutors for buck semen which can be used under field conditions
* Development of suitable therapeutic protocols for different reproductive disorders.
  Standardization of ETT protocols for Sahiwal cows.

PROJECT

S.No	Name Of Project	Funding Source	Period	Budget (In Lakhs)	Name of PI/Co-PI/Associated Scientist
1.	Network Project on Buffalo Improvement	AICRP (ICAR)	2004-12	150.00	Dr. V.K. Singh Dr.Sushant Srivastava Dr. S.P. Singh
2.	Conservation of Superior germplasm through Establishment of Modernized Semen improvement of cattle and buffalo in eastern U.P.	RKVY	2009-16	370.00	Dr.Sushant Srivastava Dr. V.K. Singh Dr. B. Sahoo Dr. S.K. Maurya
3.	Conservation & performance recording of Murrah Buffalo in Eastern U.P.	RKVY	2009-11	525.00	DR. Sushant Srivastava Dr. V.K. Singh Dr. B. Sahoo Dr. S.K. Maurya
4	Conservation propagation and track development of Sahiwal Breed of Cattle	UPCAR	2009-11	141.40	DR. Sushant Srivastava Dr. V.K. Singh Dr. B. Sahoo Dr. S.K. Maurya Dr. O.P. Verma
5	Conservation propagation and Genetic improvement of Sahiwal cattle in Eastern U.P.	RKVY	2013-18	288.73	Dr.Sushant Srivastava Dr. O.P. Verma Dr. Rajesh Kumar Dr.Ravinder Kumar
6	Establishment of residue analysis lab	RKVY	2014-17	125.87	Dr.RachnaVerma Dr.Sushant Srivastava
7	Monitoring Surveillance and Forecasting of Important Livestock Diseases in Eastern U.P.	RKVY	2011-12	75.00	Dr. S.K. Maurya Dr.Sushant Srivastava Dr. S.R. Misra
8.	"Strengthen of Veterinary Clinical Complex"	RKVY	2018-22	496.40	Dr. Sushant Srivastava Dr. Rabindra Kumar Dr. Rajesh Kumar Dr. Bhupendra Singh
9.	"Frozen Semen Bank for Indigenous Livestock"	RKVY	2018-2022	181.00	Dr. Sushant Srivastava Dr. Rabindra Kumar Dr. Rajesh Kumar Dr. Bhupendra Singh
10.	"Production of elite germplasm through embryo transfer in bovines"	RKVY	2019-2022	332.30	Dr. Rabindra Kumar Dr. Sushant Srivastava Dr. Rajesh Kumar Dr. Bhupendra Singh Dr. Pramod kumar

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Ph.D. & Other Program

The Ph.D. degree programme has been started in 2018. Since then total 02 Students completed the degree and 04 students are pursuing.
Different training programs like MAITRI, Farmers awareness for reproductive health management to enhance their income, has carried out by the department as per government and university guideline.

DFS Laboratory

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Staff Position

Sr. No.	Sanctioned Faculty	Faculty in place	Vacant position	Faculty recommended by the VCI
1.	Professor	00	01	01
2.	*Associate Professor	01	00	01
3.	**Assistant Professor	03	00	03

*Dr. Sushant Srivatava is promoted to the post of Professor through CAS.

**Dr. Bhoopendra Singh is promoted to the post of Professor through CAS.

Supporting Staff Position

Sr. No.	Sanctioned Faculty	Faculty in place	Vacant position	Faculty recommended by the VCI
1.	Lab.Technician/Vet. Stockman/Compounder	01	01	00
2.	Lab. Assistant	00	01	00
3.	Animal Attendant	06	00	00

Infrastructure

Sr. No.	Particulars	Availability
1.	UG Lab	600 sq. ft.
2	Phantom Hall & Palpation Room	600 sq. ft
3.	AI Center with semen storage facility	Available
4.	Museum	600 sq. ft.
5.	Frozen semen bank	2400 sq ft
6.	ET & IVF Lab	900 sq ft
7.	Bull shed	For 28 animals
8.	Semen collection shed	Available
9.	Modern buck shed	Available

- Cow shed under construction
- Animals
  - Buffalo bulls (Murrah): 07
  - Sahiwal bulls : 04
  - Bucks (different breeds): 12
- Bull/ Buck procurement under process
  - Gir: 4-5
  - Tharparkar: 4-5
  - Bucks : 10

- Awards: 23
- Research Paper:09 (NAAS rating>6)
- Research Paper:81 (NAAS rating4 to <6)
- Popular articles: 14
- Books: 07
- Book Chapters: 49
- Training Organized: 08
- National Seminar Organized: 03

- NET Qualification:

Degree Programme	No of Student Participated	Student Qualified
M.V.Sc	28	27
Ph.D	02	02

- Placement: 100%
  - Assistant Professor: 02
  - Veterinary Medical officer :22
  - Entrepreneur: 04

HYDROALLANTOISE IN COW

CS IN BUFFALO

BULL SHED

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S. No.	Thesis Title	Name and Id.	Year
1.	Effect of Glutamine, Arginine & Alanine on storage capacity of epididymal buck spermatozoa at refrigerated temperature.	Dr. Haiom Singh V-3853/07/12	2014
2.	Effect of Ascorbic acid on refrigerated storage capacity of epididymal spermatozoa of murrah bull.	Dr. Hridesh Kumar V-3538/06/12	2014
3.	Effect of caomarative efficacy of commonly used dilutors with bradykinin on freezability of buffalo bull epididymal spermatozoa.	Dr. Kumar Ashutosh V-7008/12	2014
4.	Effect of Cysteine on post thaw epididymal spermatozoa of buck.	Dr. Rajesh Pratap Patel V-3870/07/12	2014
5.	Effect of Alanine, Cysteine hydrochloride and Glutamine supplementation on cropreservability of murrah bull spermatozoa.	Dr. Sanjeet Kumar V-3872/07/12	2014
6.	Effect of different storage temperature on freezability of buffalo bull epididymal spermatozoa.	Dr. Arun Kumar Chaudhary V-4179/08/13	2015
7.	Effect of Ascorbic acid, Cysteine hydrochloride and Prostaglandin on cryopreservability of murra bull spermatozoa.	Dr. Mukesh Kumar V-4194/08/13	2015
8.	Effect of certain commercial preparation for control of repeat breeding in cows.	Dr. Shailendra Kumar Verma V-4209/08/13	2015
9.	Study on incidence of reproductive disorders of cattle and buffalo in agro-climatic zone of eastern Uttar Pradesh	Dr. Sunil Kumar Verma V-4213/08/13	2015
10.	Effect of Tenospora cardifolia and Withania somnifera for control of endrometritic repeat breeding cows	Dr. Anand Kumar V-4174/08/14	2016
11.	Studies on efficacy of Janova, Sepia and GnRH-PG-GnRH regimen on induction of cyclicity in postpartum anestrous cows.	Dr. Jitendra Kumar V-8318/14	2016
12.	Studies on efficacy of herbal, homeopathic medicine and progesterone supplementation on estrus induction in anestrus buffaloes.	Dr. Manoj Kumar V-4191/08/13	2016
13.	Effect of Ascorbic acid on freezability of buffalo bull epididymal spermatozoa.	Dr. Saurabh V-4208/08/14	2016
14.	Effect of *Randia dumetorum* (Mainphala), *Tenospora cardifolia* (Giloy) and Prajna HS (Commercial herbal medicine) for induction of estrus in anestrus pubertal buffalo heifer.	Dr. Vikash Chaudhary V-8319/14	2016
15.	Therapeutic efficacy of certiofur sodium, gentamicin sulphate and Zingiber officinale extract on recovery of endometritic buffaloes.	Dr. Pushkar Sharma V-9598/16	2018
16.	Study on prevalence of anatomical and pathological abnormalities affecting reproductive tract of buffaloes slaughtered in Agra.	Dr. Vijay Gautam V-9599/16	2018
17.	Studies on therapeutic efficacy of uterine lavage, levamisole, PGF_2 alpha and its combinations in the management of sub-clinical endometritis in buffaloes.	Dr. Narendra Singh V- 10098/17	2019
18	Assessment of therapeutic efficacy of Aegle marmelos, oophorinum and progesterone on induction of estrus in post partum anestrus buffaloes	Dr. Anil Kumar I.D. No.V-10597/18	2020
19	Antifertility effect of Dendrophthoe falcata in male rabbits	Dr. Shubhendra Vikram Singh Id. No. - V-10599/18	2020
20	Efficacy of various therapeutic regimens on estrus induction response in postpartum anestrous cows	Dr. Safayat Husain Id. No. - V-10598/18	2020
21	Study on prevalence of anatomical and pathological abnormalities affecting reproductive tract of buffaloes slaughtered in unnao district of u.p.	Dr. Mayank Kumar Dubey I.D.No .- V-3132/14/10661/19T	2021
22	Effect of Moringa oleifera and Phyllanthus emblica on sperm characteristic in Cryopreserved Buck Semen	Dr. Vikas Kumar ID. No .: V-9076/15/20	2022
23	Effect of ginger (Zingiber officinale) and ascorbic acid on cryopreservability of buck spermatozoa	Dr. Rakesh Kumar Singh I.D.No.V-9021/15/20	2022
24	Effect of l-cysteine and curcumin (Curcuma longa) on cryopreservability of buck spermatozoa	Dr. Jayanth. M. N. I.D.No .- V-11785/20	2022
25	Augmentation of fertility through different conventional and non-conventional therapeutic regimen in postpartum endometritic buffaloes	Dr. Sanjeev Kumar Verma I.D.No .- V-12344/21	2023
26	Effect of green tea (Camellia sinensis) & melatonin as an additive on cryopreservation of murrah bull semen	Dr. Daund Sushant Sakhahari I.D.No .- V-12454/21	2023
27	Effect of methionine and Aloe barbadensis miller on freezability of murrah bull semen	Dr. Abhishek Kumar Verma I.D.No .- V-12343/21	2023

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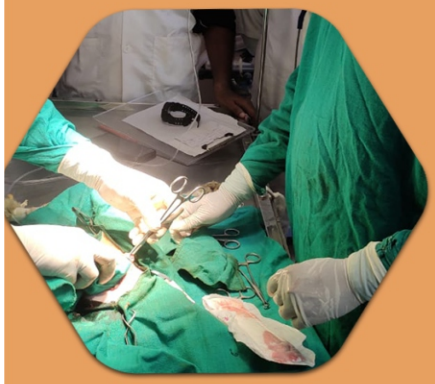
DEMOSTRATION : CLASSES/CLINICAL CASES









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Clinical Cases


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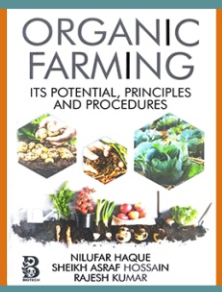
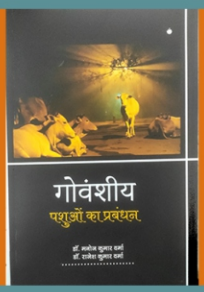
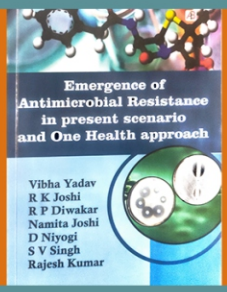
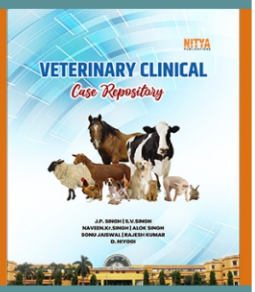
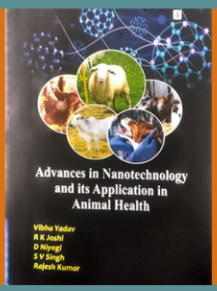
Books / Compendium /journals/Chapters

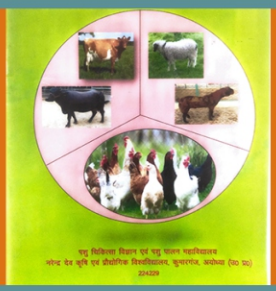


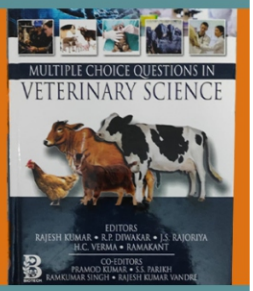












Research Papers

Effect of Janova, Sepia and Ovsynch Protocol on Blood Biochemical Profile and Fertility in Post-partum Anoestrus Cows. Indian Journal of Animal Research. DOI: 10.18805/IJAR.B-4225. 2021

PREVELANCE OF FALLOPIAN TUBE PATHOLOGIES IN BUFFALOES (BUBALUS BUBALIS). Bufalo Bulletin, 40(2): 247-258. 2021

Biometry and Storage Ability at 4°C of Slaughtered Buck Testis and Correlations of Various Epididymal Seminal Attributes.The Indian Journal of Veterinary Science & Biotechnology, 17(2): 72-77. 2021

Role of Alanine, Arginine and Glutamine on Storage Capacity of Abattoir Derived Epididymal Buck Semen at Refrigerated Temperature. Ind J Vet Sci and Biotech, 17(3): 51-55. 2021

Dr. Sushant Srivastava

PhD & NET (ICAR-ASRB)
Vice president SVSBT
Editor : Multilogic in Science

Dr. Rajesh Kumar

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Joint Secretory of SVSBT
Editor : IJVSBT
Reviewer International : Assian pacific journal of Animal Reproduction
International Journal of Livestock research
National : IJVSBT, Haryana Vet, JAFST

Impact of Different Therapeutic Protocols on Blood Biochemical Markers and Fertility in Anestrus Sahiwal Cows. Ind J Vet Sci and Biotech, 17(4), 49-53. 2021

Biometry of morbid buck testicles and its correlation with epididymal semen quality. The Haryana Veterinarian, 61(SI): 5-8. 2022

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