



DEPARTMENT OF VETERINARY ANATOMY

College of Veterinary Science & Animal Husbandry

Navsari Centre (Kamdhenu University), Gandhinagar

Eru Char Rasta, Vijalpore, Ta: Jalalpore, Dist. Navsari - 396450



Teaching Faculty in Department

Sr. No.	Name	Designation	Contact Details	Joining Year in NAU	Qualification	Total Experience	Publications Research Papers
1	Dr. R. Menaka	Assistant Professor & Head	9512263361 menaka@kamdhenuuni.edu.in	2009	Ph.D.	13 Years	Research Paper:31
2	Dr. Shailendra Chaurasia	Assistant Professor	9904495408 schaurasia@kamdhenuuni.edu.in	2010	Ph.D.	11 Years	Research Paper:27

About the Department

Veterinary Anatomy is one of the fundamental subjects in the curricula of Veterinary Sciences. It imparts the normal structural framework of domestic animals and interdisciplinary link with clinical and para-clinical courses. In the recent past years, the veterinary Anatomy focus on regional anatomy rather than the clinical approach to develop the core competent skills in field practices after graduate level. The department was established as a part of College of Veterinary Science and Animal Husbandry, Navsari since 2008.

Research Area and Projects Brief

Departmental research schemes (Completed/ ongoing):

Sr. No.	Research Topic	Status	Remarks
1	Eco-Friendly Plastination Technology for Preservation of Biological Specimens.	Completed	Departmental
2	Gross and histomorphological	Completed	Departmental

	observations of lingual papillae of small ruminants.		
3	Prenatal age related changes in gross and histomorphology of the spleen of Surti goat (<i>Capra hircus</i>).	Completed	Departmental
4	Postnatal gross-morphometrical and histomorphological studies on the spleen of goat (<i>Capra hircus</i>).	Completed	Departmental
5	Postnatal gross anatomical and histomorphological studies on the heart of goat (<i>Capra hircus</i>).	Ongoing	Departmental

Achievements and List of Research Publications

- **Research Papers:**

1. R. Menaka., S.Chaurasia and N.H. Kelawala (2010). Plastination of Goat (kid) cadaver – A teaching model. *Indian Journal of Veterinary Anatomy*. 22(1): 50-51.
2. Menaka, R. (2015). Plastinated models as teaching aids in the educational institutions. *Indian J. Vet. Sciences and Biotechnology*. 11 (3): 32-33.
3. R. Menaka., Vyas, K.N. and Chaurasia, S (2017). Histochemical studies of thyroid gland in prenatal development of Surti goat fetuses. *Ruminant Science*. 6(2): 259-261.
4. Menaka, R., S. Chaurasia and Gopal Puri (2019). Gross morphometrical study of thyroid glands in Surti goat (*Capra hircus*). *Veterinary Research International*. 7:(1). 21-25
5. Joshi, N. H., Chudasama, M.M., Patel, K.B., Desai, M.C., Raval, S.H., Parmar, R.S. and Menaka, R. (2019). Deposition pattern of hard dental structures during development of first deciduous incisor tooth in goat (*capra hircus*). *International Science of Agricultural Science*. 11(6): 8143-8147.
6. Chaurasia, S., Panchal, K. M., Vyas, Y. L. and Desai, M. C. (2012). Organogenesis and Histogenesis of Mammary Gland in the Female Goat (*Capra hircus*).*Indian Journal of Veterinary Anatomy*, 24 (2): 67-70.
7. Chaurasia, S, K.N. Vyas, R. Menaka, K.M. Panchal and T.K.S. Rao (2018). Postnatal Histomorphological Changes In Thymus Of Surti Goat. *Indian Journal of Small Ruminants*, 24(2): 288-292.
8. Shailendra Chaurasia, Kantichandra N. Vyas, R. Menaka, Kantilal M. Panchal and Thakur Krishna Shankar Rao (2019). Age related gross morphological studies on the

thymus in postnatal Surti goat (*Capra hircus*)", Indian Journal of Animal Research, 53 (2): 213-217.

9. Shailendra Chaurasia, R. Menaka, Thakur Krishna Shankar Rao and K. K. Tyagi (2019). Prenatal gross morphometrical studies on spleen with special reference to prediction of foetal age in Surti goat (*Capra hircus*). Indian Journal of Animal Research, 53(12): 1619-1623.
10. Shailendra Chaurasia, R. Menaka, K.M. Panchal and Niranjana Kumar (2020). Histogenesis of spleen in foetus of Surti goats. *Indian Journal of Small Ruminants*, 26 (2): 208-213.

:: ACHIEVEMENTS ::

RECOMMENDATIONS TO SCIENTIFIC COMMUNITY:

1. Plastination specimens are odourless, dry and everlasting teaching aids and overcome the existing formalin embalmed preservation method having various health hazards.
2. Spleen length can be used as one of the reliable predictors to assess gestational age of Surti goat foetus by using the following prediction equation:
Age of foetus in days (Y) = 44.696 + 2.972 (length of spleen in mm), $R^2 = 0.97$
3. Histogenesis of red and white pulp differentiation in spleen of Surti goat foetus is a continuous process even up to 144 days of gestation.
4. The histoarchitecture of splenic parenchyma shows distinct red pulp and white pulp during various stages of development and the average number of white pulp per square mm area of spleen is decreased from the age of twelve months onwards in goats.

Courses offered by the Department (Theory and Practical)

Undergraduate Programme

Sr. No.	Name of Course	Credit
1	UNIT: 1 ➤ General Osteology, Arthrology and Myology ➤ General Angiology, Neurology and Aesthesiology ➤ General Splanchnology	4+3
2	UNIT-2 Fore limb	
3	UNIT-3 Head and neck	
4	UNIT-4 Thorax:	
5	UNIT-5 Abdomen	

6	UNIT-6 Hind limb and pelvis	
7	UNIT-7 Cytology, cell junctions, study of basic tissues	
8	UNIT-8 Introduction to embryology	

Master Degree Programme

Sr. No.	Course code	Course Name	Course Credit
1	VAN 601	Comparative Osteology and Arthrology	1+2
2	VAN 602	Comparative Splanchnology	2+2
3	VAN 603	Myology, Angiology, Neurology and Aesthesiology of ox	1+3
4	VAN 604	Gross Anatomical Techniques	0+2
5	VAN 605	Theory and practice of Histological and Histochemical techniques	1+2
6	VAN 606	General Histology and Ultrastructure	3+1
7	VAN 607	Systemic Histology and Ultrastructure	3+1
8	VAN 608	Developmental Anatomy	3+1
9	VAN 691	Master's Seminar	1+0
10	VAN 699	Master's Research	20

Ph.D. Programme

Sr. No.	Course code	Course Name	Course Credit
1.	VAN 701	Myology, Angiology, Neurology, and Aesthesiology of Equine, Canine and Porcine	0+3
2.	VAN 702	Principles and Applications of Biomechanics	2+0
3.	VAN 703	Avian Anatomy	1+2
4.	VAN 704	Neuro Anatomy	3+1
5.	VAN 705	Endocrine Anatomy	2+1
6.	VAN 706	Theory and Applications of Electron Microscope	2+1
7.	VAN 707	Histoenzymology and Immunocytochemistry	2+1
8.	VAN 708	Applied Embryology and Teratology	1+2
9.	VAN 709	Functional Veterinary Anatomy	2+0
10.	VAN 710	Gross Anatomy of Laboratory Animals	1+1
11.	VAN 790	Special problem	0+2
12.	VAN 791	Doctoral Seminar I	1+0
13.	VAN 792	Doctoral Seminar II	1+0
14.	VAN 799	Doctoral Research	45

FACULTY PROFILE




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Name	Dr. R. Menaka		
Designation	Assistant Professor & Head		
Qualification	Ph.D. (Veterinary Anatomy & Histology)		
Contact No.	9512263361		
Email ID	menaka@kamdhenuuni.edu.in		
Joining date	22-01-2009		
Professional Experience	13 years		
Job profile	Teaching, Research, Extension		
Exams cleared	NET (ASRB, New Delhi)		
	CCC+ (SPIPA, Surat)		
	Hindi Exam – Gujarat Secondary & Higher secondary Education Board, Gandhinagar.		
	Gujarati exam – Gujarati Vinay Exam- Gujarat Vidhyapith, Gujarat		
Significant award	Best Paper Award: 07		
Publication	Teaching Manual: 06	Books/Booklets: -Nil	
	Chapters in Book: 02	Lead Papers: 03	
	Research Papers: 31	Vernacular Articles: 16	
	Abstracts: 38	Scientific Recommendations: 04	
Research Scheme	Nil		
Competence building	Summer School/Winter School/CAFT/Orientation: 04		
	Seminar/Symposium/Conference: 32		
	Short courses/Training: 02		
Professional Membership	Indian Association of Veterinary Anatomists (IAVA)		
	The Indian Society for study of Animal Reproduction (ISSAR)		
	Indian Association of Veterinary Public Health Specialists		
	Gujarat Veterinary Council (GVC)		
	The Gujarat Association of Agricultural Sciences (GAAS)		




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Name	Dr. Shailendra Chaurasia		
Designation	Assistant Professor		
Qualification	Ph.D. (Veterinary Anatomy & Histology)		
Contact No.	9904495408		
Email ID	schaurasia@kamdhenuuni.edu.in		
Joining date	21-06-2010		
Professional Experience	11 Years		
Job profile	Teaching, Research, Extension		
Exams cleared	NET (ASRB, New Delhi)		
	CCC+ (SPIPA, Surat)		
	Gujarati exam – Gujarati Vinay Exam- Gujarat Vidhyapith, Gujarat		
Significant award	Awarded ICAR- JRF fellowship for Pursuing M. V. Sc. in Veterinary Anatomy		
Publication	Teaching Manual: 07	Books/Booklets: Nil	
	Chapters in Book: Nil	Lead Papers: Nil	
	Research Papers: 27	Vernacular Articles: 14	
	Abstracts: 21	Scientific Recommendations: 04	
Research Scheme	Nil		
Competence building	Summer School/Winter School/CAFT/Orientation: 04		
	Seminar/Symposium/Conference: 18		
	Short courses/Training: 01		
Professional Membership	Indian Association of Veterinary Anatomist		
	The Gujarat Association for Agricultural Sciences (GAAS)		
	Indian Society of Sheep and Goat Production & Utilization		
	Indian Society for Buffalo Development		

NON TEACHING STAFF::

Name	Mrs. Krinjal A. Patel	
Designation	Laboratory Technician	
Qualification	M.SC. MLT	
Email ID	krinjalpatel08@gmail.com	

:: CONTACT US ::

I/C. Assistant Professor & Head

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