

**DEPARTMENT OF ANIMAL SCIENCE
COLLEGE OF AGRICULTURE,
NAVSARI AGRICULTURAL UNIVERSITY
CAMPUS BHARUCH**

1. INTRODUCTION:

The Department of Animal Science was established in 2012 in the College of Agriculture, Bharuch. The department caters to the teaching requirements at undergraduate level as well as at polytechnic level to the students of College of Agriculture as well as to the students of Polytechnic in Agriculture, Bharuch. The constructions of well equipped laboratories are under construction for undergraduate and diploma teaching programs effectively. The department is being lead by Dr. Brishketu Kumar, Assistant Professor-cum-Head. The department is actively involved in teaching, research as well as in extension activities.

2. OBJECTIVES:

1. To upgrade the knowledge, skill and different principles in education and research in the field of Animal science.
2. To impart the education at Polytechnic in Agriculture, U.G. and P.G. level.
3. To develop sustainable and economical animal husbandry practices for different species of livestock i.e. cattle, buffalo, sheep, goat and poultry.
4. To produce trained manpower in latest husbandry practices for different livestock species.
5. To advise farmers to feed balanced and quality ration to livestock and poultry and to economize dairy and poultry farming.

3. MAJOR ACTIVITIES:

1. Teaching:

- (a) Under graduate: Total 02 courses with 5 (3+2) credit hours are being taught from first to eight semesters (5th and 6th semester) B.Sc. (Hons.) in Agriculture.
- (b) Post graduate teaching: Depending upon the course offered
- (c) Other academic activities: Diploma in Agriculture
Total 02 courses with 5 (3+2) credit hours are being taught from first to sixth semesters (2nd and 5th semester) Diploma in Agriculture.

2. Research: As a Co-PI 2 research projects has been completed while as a PI 1 research project of 2 years duration was conducted.

3. Extension:

- Department is imparting training to the extension workers, field staffs and farmers of various NGOs to develop their skills for improving animal husbandry practices.
- Department staff is also actively participating in Krushi mela, Khedut Din, Khedut Shibir, Seminar and other programme time to time.
- This department is also guiding farmers and general public through publishing popular articles in various monthly and quarterly magazines on various aspects of animal husbandry practices.

Academic Achievements and Awards

- ❖ Secured B.V.Sc. admission through the National level examination conducted by (ICAR) 1999 with All India Rank (283), New Delhi - 110012.
- ❖ Secured M.V.Sc. admission through the National level examination for JRF (animal Science) conducted by ICAR 2005 with All India Rank (30) New Delhi - 110012.
- ❖ **Junior Research Fellowship (JRF)** - Awarded by Indian Council of Agricultural Research for the award of M.V.Sc. Degree from 2005-2007 in the subject of Animal Nutrition.
- ❖ **ICAR-SRF (Senior Research Fellowship)** – Qualified in 2009.
- ❖ **First rank in Ph.D entrance** in NDRI, Karnal in 2008-2009 in Animal Nutrition.
- ❖ **ICAR-NET (National Eligibility Test) for Lecturership** – Qualified in 2009 and 2010 in Animal Physiology and Nutrition.

Teaching/Work Experiences

- Presently working as Assistant Professor (Animal Nutrition) in the Department of Animal Production at College of Agriculture, Navsari Agricultural University, Maktampur, Bharuch-392012, Gujarat, India since **10th of May 2013**.
- Previously worked as Assistant Professor (Animal Nutrition) at Khalsa College of Veterinary & Animal Sciences, Amritsar, Punjab, India from 04.11.2011 to 30.04.2013.

Designation of the post	*Period			Name of Institution/ Department
	From	To	Total	
Assistant Professor	10/05/2013	10/05/2026 (continuing)	13 Years	Department of Animal Science, College of Agriculture, NAU, Bharuch-392012, Gujarat, India.
Assistant Professor	04/11/2011	30/4/2013	1 year 6 months	Department of Animal Nutrition, Khalsa College of Veterinary & Animal Sciences, Amritsar, Punjab, India.

4. MAJOR ACHIVEMENTS

1. Teaching:

(a) Under Graduate, Diploma and Post Graduate:

To make the theory and practical note books for U.G. courses are being taught from first to eightsemesters B.Sc. (Hons.) in Agriculture while Diploma courses are taught from first to sixth semesters.

A. TEACHING ACTIVITIES

Courses taught in B.Sc. (Agriculture), Polytechnic in Agriculture (PIA), M.V.Sc and Ph.D (Animal Nutrition) respectively

B.Sc. in Agriculture				
Sr. No.	Course Title	Course No.	Class	Year
1	Livestock Production & Management	LPM 4.1	B.Sc	2014
2	Dairy Cattle & Buffalo Production & Management	LPM 5.2	B.Sc	2014
3	Livestock Production & Management	LPM 4.1	B.Sc	2015
4	Dairy Cattle & Buffalo Production & Management	LPM 5.2	B.Sc	2015
5	Livestock Production & Management	LPM 4.1	B.Sc	2016
6	Dairy Cattle & Buffalo Production & Management	LPM 5.2	B.Sc	2016
7	RAWE Orientation Course and On-Campus training	LPM 7.3	B.Sc	2016
8	Livestock Production & Management	LPM 4.1	B.Sc	2017
9	Dairy Cattle & Buffalo Production & Management	LPM 5.2	B.Sc	2017
10	RAWE Orientation Course and On-Campus training	LPM 7.3	B.Sc	2017
11	Livestock Production & Management	LPM 4.1	B.Sc	2018
12	Dairy Cattle & Buffalo Production & Management	LPM 5.2	B.Sc	2018
13	RAWE Orientation Course and On-Campus training	LPM 7.3	B.Sc	2018
14	Ruminant Production & Management	LPM 5.1	B.Sc	2019
15	Principles of Poultry Production & Management	LPM 6.2	B.Sc	2020
16	RAWE Orientation Course and On-Campus training	LPM 7.3	B.Sc	2020
17	Ruminant Production & Management	LPM 5.1	B.Sc	2020
18	Principles of Poultry Production & Management	LPM 6.2	B.Sc	2021
19	Ruminant Production & Management	LPM 5.1	B.Sc	2021
20	Principles of Poultry Production & Management	LPM 6.2	B.Sc	2022
21	Ruminant Production & Management	LPM 5.1	B.Sc	2022
22	Principles of Poultry Production & Management	LPM 6.2	B.Sc	2023
23	Ruminant Production & Management	LPM 5.1	B.Sc	2023
24	Principles of Poultry Production & Management	LPM 6.2	B.Sc	2024
25	Ruminant Production & Management	LPM 5.1	B.Sc	2024
26	Principles of Poultry Production & Management	LPM 6.2	B.Sc	2025
27	Ruminant Production & Management	LPM 5.1	B.Sc	2025
28	Livestock & Poultry Management	AH 2.1	B.Sc	2025
29	Principles of Poultry Production & Management	LPM 6.2	B.Sc	2026

Polytechnic in Agriculture (PIA)				
1	Dairy Cattle & Buffalo Production & Management	AH 212	PIA	2013
2	Livestock Trade, Fish and Poultry Marketing	AH 313	PIA	2013
3	Principles of Livestock and Poultry Production	LPM 2.1	PIA	2014
4	Dairy Cattle & Buffalo Production & Management	LPM 3.2	PIA	2014
5	Livestock Trade, Fish and Poultry Marketing	AH 313	PIA	2014
6	Principles of Livestock and Poultry Production	LPM 3.1	PIA	2015
7	Principles of Livestock and Poultry Production	LPM 2.1	PIA	2016
8	Dairy Cattle & Buffalo Production & Management	LPM 3.2	PIA	2016
9	Principles of Livestock and Poultry Production	LPM 2.1	PIA	2017
10	Dairy Cattle & Buffalo Production & Management	LPM 3.2	PIA	2017
11	Principles of Livestock and Poultry Production	LPM 2.1	PIA	2018
12	Principles of Livestock Production & Management	LPM 2.1	PIA	2019
13	Principles of Poultry Production & Management	LPM 5.2	PIA	2019
14	Principles of Poultry Production & Management	LPM 5.2	PIA	2019
15	Principles of Livestock Production & Management	LPM 2.1	PIA	2020
16	Principles of Poultry Production & Management	LPM 5.2	PIA	2020
17	Principles of Livestock Production & Management	LPM 2.1	PIA	2021
18	Principles of Poultry Production & Management	LPM 5.2	PIA	2021
19	Principles of Livestock Production & Management	LPM 2.1	PIA	2022
20	Principles of Poultry Production & Management	LPM 5.2	PIA	2022
21	Principles of Livestock Production & Management	LPM 2.1	PIA	2023
22	Principles of Poultry Production & Management	LPM 5.2	PIA	2023
23	Principles of Livestock Production & Management	LPM 2.1	PIA	2024
24	Principles of Poultry Production & Management	LPM 5.2	PIA	2024
25	Principles of Livestock Production & Management	LPM 2.1	PIA	2025
26	Principles of Poultry Production & Management	LPM 5.2	PIA	2025
27	Principles of Livestock Production & Management	LPM 2.1	PIA	2026
M.V.Sc and Ph.D (Animal Nutrition)				
1	Animal Nutrition: Energy and Protein	ANN 601	M.V.Sc.	2018
2	Advanced Techniques in Nutrition and Research	ANN 705	Ph.D	2018
3	New Feed Resources and Toxicants in Animal Feeding	ANN 709	Ph.D	2018
4	Nutrition and Rumen Fermentation	ANN 703	Ph.D	2018
5	Modern Concepts of Feeding Monogastric Animals	ANN 702	Ph.D	2019
6	New Feed Resources and Toxicants in Animal Feeding	ANN 709	Ph.D	2019
7	Animal Nutrition: Energy and Protein	ANN 601	M.V.Sc.	2019
8	Non-Ruminant Nutrition	ANN 606	M.V.Sc.	2019

9	Master's Seminar	ANN 691	M.V.Sc.	2019
10	Doctoral Seminar	ANN 791	Ph.D	2019
11	Feed Technology	ANN 603	M.V.Sc.	2019
12	Clinical Nutrition	ANN 707	Ph.D	2020
13	Advances in Feed Technology	ANN 706	Ph.D	2020
14	Modern Concepts of Feeding Monogastric Animals	ANN 702	Ph.D	2020
15	New Feed Resources and Toxicants in Animal Feeding	ANN 709	Ph.D	2020
16	Master's Research	ANN 699	M.V.Sc.	2020
17	Doctoral Research	ANN 799	Ph.D	2020
18	Nutrition of Companion, Laboratory, Wild and Zoo Animals	ANN 607	M.V.Sc.	2021

PG Students Guided as Major Advisor (Degree Awarded)

Sl. No.	Year	Name of student & Admission No.	Ph.D./ Masters	Title of the thesis completed
1	2018-20	Sanjay Kumar Pradhan (1040416007)	Ph.D.	Evaluation of boron as a feed supplement on broilers fed with calcium deficient diet
2	2018-21	Movaliya Jigneshkumar Kantilal (1040417002)	Ph.D.	Effect of supplementing bypass fat and fibrolytic enzymes on lactating Surti buffaloes
3	2018-20	Londhe Arvind Sudhakar (2040418005)	Masters	Effect of bypass fat supplementation and fibrolytic enzymes on growth performance in Surti buffalo calves
4	2020-22	Mo. Azhar A. Sheikh (2020010170021052)	Masters	Effect of feeding fodders and complete feed blocks on growth performance and nutrient utilization in Surti goat kids

Member of PG students Advisory committee

1	2018-20	Ajay P. Raval (1010416006)	Ph.D.	Effect of soybean and rice bran oil supplementation on nutrient utilization, lactation performance and milk fatty acid profile in Surti goats.
2	2018-20	Prajapati Dhruvilkumar Ramabhai (2040418011)	Masters	Effect of fibrolytic enzyme supplementation on nutrient utilization and growth performance of Surti goat kids fed legume straw based diet
3	2020-22	Shradha Namdeo Shettiwar (2020010170021108)	Masters	Effect of Guanidinoacetic acid and bee pollen supplementation on growth and nutrient utilization in broiler chicken under heat stress

5. RESEARCH ACTIVITIES:

Sl. No.	Name/ No. of Project/ Scheme	Funding Agency*	Period From To	Total Funding	Position/ Role of the Applicant (PI/ Co-PI)
1	Nutrient composition, <i>in vitro</i> feed degradation and microbial biomass yield estimation of unconventional feed resources for ruminants in south Gujarat.	Institute	2019-20	–	Co-PI
2	Assessment of feeding practices, nutritional status and gap for lactating buffaloes in Tapi district.	Institute	2019-21	–	Co-PI
3	Nutritional evaluation of commonly available feedstuffs used for livestock feeding in Bharuch district	Institute	2021-23	-	PI

- **Details of the Recommendations for the farming community during the period of 2016-17 to 2020-21 (17th Meeting of Combined AGRESCO 2021) for Farmer's community**

Title: Assessment of feeding practices, nutritional status and gap for lactating buffaloes in Tapi district.

Recommendation: The livestock keepers of Tapi district are recommended to offer additional 0.8 kg compound concentrate mixture having 20% CP to the buffaloes yielding 4-7 kg/d milk in order to fulfil the nutrient requirement.

તાપી જિલ્લાના પશુ પાલકોને ભલામણ કરવામા આવે છે કે, ૪-૭ કી.ગ્રા. દૈનિક દૂધ આપતી ભેસોની પોષક તત્વોની જરૂરીયાત પૂરી કરવા માટે ૨૦ ટકા પ્રોટીન ધરાવતું વધારાન ૦.૮ કી.ગ્રા. સમતોલ દાણ પ્રતિદિન આપવું જોઈએ.

6. PUBLICATIONS

- (i) Research Paper Published in NAAS rated national and International Journals: **18**
- (ii) Review articles Published in NAAS rated journal : **08**
- (iii) Book chapter published: **12**
- (iv) Books published:**03**
- (v) Popular articles published in different magazines:**33**

Original Research Articles Published in NAAS Rated Journals

1. **Kumar, B.** and Thakur, S. S. (2007). Effect of supplementing bypass fat on the performance of buffalo calves. Indian Journal of Animal Nutrition, 24(4):233-236.
2. Kumar S.S., Navneet G., Mehta M., Mohini M., Pandey P., Shete S. and **Brishketu K.** (2012). Efficacy of garlic, eucalyptus and neem powders on rumen modulation, methanogenesis, and gas production kinetics in wheat straw based diet evaluated *in vitro*. Wayamba journal of Animal Science.
3. **Brishketu Kumar, S. K. Sirohi.** (2013). Effect of isolates of fibre degrading bacteria on body weight changes, milk production and composition, nutrient intake and nutrient utilization in lactating Murrah buffaloes. African Journal of Biotechnology, 22 May, 2013, Vol. 12(21), pp. 3302-3308.
4. **Brishketu Kumar, S. K. Sirohi.** (2013). Effect of isolate of ruminal fibrolytic bacterial culture supplementation on ruminal fibrolytic bacterial population as well as on survivability of inoculated bacterial strain in lactating Murrah buffaloes. Veterinary World, 2013, 6(1), 14-17.
5. **Brishketu Kumar, S. K. Sirohi.** (2013). Effect of cellulose degrading bacteria isolated from Murrah buffaloes on *in vitro* fibre digestibility. Indian Journal of Animal Nutr.2013. 30 (2): 128-131.
6. **Kumar Brishketu, Sirohi S.K, Puniya A.K, Sheel Rakesh, Ahmed H. A.** (2013). Morphological, biochemical and molecular characterization of fibre degrading bacterial isolates from buffalo rumen. Indian J. Anim. Nutr. 2013. 30 (3): 246-251.
7. Sunil Kumar Sirohi, T.K. Walli, M.R. Garg* and **Brishketu Kumar.** (2013). Effect of Formaldehyde Treated Mustard Cake on Nutrient Utilization and Milk Production Performance in Crossbred Cows Fed Wheat Straw Based Diet. Indian J. Anim. Nutr. 2013. 30 (1): 5-11.
8. Sheel Rakesh, Sirohi S.K, **Kumar Brishketu, Ahmed H. A.** (2013). Effect of mixture of medium chain fatty acids and unsaturated fatty rich oils on methane production and rumen fermentation *in vitro*. Indian J. Anim. Nutr. 2013. 30 (3): 256-261

9. Rakesh Sheel, S. K. Sirohi, M. S. Mahesh, **Brishketu Kumar**. (2018). Performance of crossbred heifers supplemented with linseed oil, either alone or in combination with myristic acid. Proc. Natl. Acad. Sci., India, sect. B Biol. Sci, ISSN 0369-8211. Volume 88, Number 2.
10. Nazam Khan¹, Neelam Kewalramani², Vikas Mahajan³, Zulfqarul Haq⁴ and **Brishketu Kumar**⁵ (2018). Effect of boron supplementation on the performance and metabolism of minerals in broiler chicken. Animal Nutrition and Feed Technology, 2020; 20: 39-49.
11. SK Pradhan, **B Kumar**, AP Raval, SS Chaudhary and VB Kharadi. (2020). Effect of dietary boron supplementation on serum biochemical and carcass characteristics in broiler chicken. Journal of Pharmacognosy and Phytochemistry 2020; Sp9 (2): 367-371.
12. Pradhan, S.K., **Kumar, B.**, Banakara, K.B., Patel, V.R. Pandya, H.R. and Singh, R.R. (2020). Effect of boron supplementation on the performance and metabolism of minerals in broiler chicken. Animal Nutrition and Feed Technology, 2020; 20: 39-49.
13. Sanjay K. Pradhan, **B. Kumar**, Kantesh B. Banakara, R.R. Singh, V.B. Kharadi, S.S. Chaudhary. (2021). Effect of Boron Supplementation on Bone Mineralization and Antioxidant Status in Broiler Chicken. Asian Journal of Dairy and Food Research.
14. Jignesh. K. Movaliya, **Brishketu Kumar**, Krishna. S. Rao, Vipul. R. Patel, Ajay. P. Raval. (2021). Effect of Bypass Fat and Fibrolytic Enzymes on Milk Yield and Milk Composition of Surti Buffaloes. The Indian Journal of Veterinary Sciences and Biotechnology. 2021, Vol.17, No.04.
15. **Brishketu Kumar**, Dinesh Kumar, MS Mahesh and Rakesh Sheel. (2021). Effect of oral dosing of live and autoclaved culture of *Ruminococcus flavefaciens* FD-1 on rumen bacterial and fungal population in Murrah buffaloes. Indian J. dairy Sci.2021, 74 (5): 458-461.
16. D.R. Prajapati, V.R. Patel*, N.B. Patel, U.V. Ramani, **B. Kumar**, A. Londhe and A.P. Raval. (2022). Effect of fibrolytic enzyme supplementation on growth performance and nutrient utilization in Surti goat kids fed legume straw based diet. Indian Journal of Small ruminants, 2022, 28(1):61-69.
17. S.N. Shettiwar, V.R. Patel*, Y.D. Padheria, T.K.S. Rao¹, **B. Kumar**² and A.P. Raval. (2024). Heat stress ameliorative effect of Guanidinoacetic acid and bee pollen supplementation on growth, nutrient utilization and blood biochemical status in broiler chicken. Animal Nutrition & feed Technology, 2024 24:121-135.
18. J. K. Movaliya, **B. Kumar**, Dinesh Kumar, A. P. Raval, V. R. Patel, N. S. Dangar. (2025). Post-partum supplementation of calcium salts of long chain fatty acids and fibrolytic enzymes on reproductive performance and blood metabolites of lactating Surti buffalos. Indian j of Dairy Science, 2025,78(1):65-71.

Review Articles in Peer-Reviewed Journals

1. T.K.S. Rao¹, **B. Kumar**², A. Singh³, K.R. Sriranga⁴, V.A. Patel⁵ and S. Chaurasia⁶ (2017). Photoperiod Management in Dairy Herd: A Review. *International Journal of Science, Environment and Technology*, Vol. 6, No 1, 2017, 669 – 683.
2. Thakur Krishna Shankar Rao¹, **Brishketu Kumar**², Archita Singh³, Vijay Kumar Sharma^{4*}, Anushmita Baishya⁵ Ankita Dilipbhai Verma⁶. (2017). Benchmark to Reach Precocious Puberty in Replacement Heifers. *Theriogenology Insight*: 7(2): 1-11.
3. Thakur Krishna Shankar Rao¹, **Brishketu Kumar**², Vijay Kumar Sharma^{3*}, K.R. Sriranga¹, Anusmita Baishya¹, Mukesh Bhakat⁴ and Tushar Kumar Mohanty⁴. (2017). Effect of Vaccination on Performance of Dairy Animals with Special Reference to Bulls. *Theriogenology Insight*: 7(3): 1-13.
4. Sanjay Kumar Pradhan¹, **Brishketu Kumar**², Thakur Krishna Shankar Rao³ and Vijay Kumar Sharma⁴. (2018). Effect of Boron Supplementation on the Overall Health and Productivity of Livestock: A Review. *Theriogenology Insight*: 8(3): 137-147.
5. Thakur Krishna Shankar Rao¹, **Brishketu Kumar**², Shailendra Chaurasia³, Vijay Kumar Sharma⁴, Anusmita Baishya¹, Archita Singh⁵ and Naveen Kumar Babulal Patel¹. (2018). Fetal Membranes and Associated Complications in Dairy Animals: A Review. *Theriogenology Insight*: 8(3): 125-136.
6. Shailendra Chaurasia^{1*}, R. Menaka², Thakur Krishna Shankar Rao³, **Brishketu Kumar**⁴ and Vijay Kumar Sharma⁵. (2018). Clinical Importance of Lymphatic Territories with Special Reference to Mammary Glands and Uterus in Canine: A Review. *Theriogenology Insight*: 8(2): 79-86.
7. Thakur Krishna Shankar Rao¹, **Brishketu Kumar**², Shailendra Chaurasia³, Vijay Kumar Sharma⁴, Pankaj Kumar and D. J. Malviya. (2020). Features of Uterine Involution in Dairy Animals: A Review. *Theriogenology Insight*: 10(3): 81-91.
8. T. K.S. Rao¹, B. Kumar², Archita Singh³, D. Kumar⁴ and Dinesh Kumar⁵. (2025). Estrus And Ovulation In Dairy Animals Vis-À-Vis Fertility Status: A Review. *Theriogenology Insight*: 10(3): 81-91.

Popular/Newspaper Articles Published

1. **Brishketu Kumar**, Rakesh Sheel S K Sirohi, Haider Ali and V Singh. (2013). Significance of livestock, poultry and fishery sectors in Indian economy. *Livestock and Feed Trends*, Volume 11, Number 3.
2. **Brishketu Kumar**, Dinesh Kumar, Deepa Hire math, Rakesh Sheel and Thakur.K.S.Rao. (2014). Nutritional manipulation to boost immunity in new born calves: An Overview. *Livestock Technology*, volume: 3, Issue: 11.
3. **Brishketu Kumar**, Deepa Hire math, Rakesh Sheel, Thakur.K.S.Rao and Dinesh Kumar. (2014). Bypass fat: a potential boon to dairy farmers. *Pashudhan*, volume: 40, Issue: 9.
4. **Brishketu Kumar**, Thakur. K. S. Rao, Deepa Hiremath, Dinesh Kumar, Rakesh Sheel and Alok Mishra. (2014). Improving livestock productivity through sustainable nutrient management strategies. *Pashudhan*, volume: 40, Issue: 9.
5. T.K.S.Rao, **Brishketu Kumar**, Dinesh Kumar, Rakesh Sheel and Alok Mishra. (2015). Judging of cattle and managerial intervention to improve productivity of dairy animal at farmers door step. *Pashudhan*, issue 3.
6. Dinesh Kumar, **Brishketu Kumar**, T.K.S.Rao and Rakesh Sheel. (2015). Protect feed protein to exploit maximum production potential from dairy herd. *Pashudhan*, Volume 42, issue 4.
7. T. K. S. Rao, **Brishketu Kumar**, Dinesh Kumar, Anamika Thakur and D. R. Patel. (2015). Shelter management for sustainable livestock production. CLFMA of India, 57th National Symposium Souvenir.
8. **Brishketu Kumar**, T. K. S. Rao, Dinesh Kumar, Anamika Thakur and D. R. Patel. (2015). Pasture management and its impact on sustainable livestock production. CLFMA of India, 57th National Symposium Souvenir.
9. Dinesh Kumar, P. K. Yadav, L. K. Das, M. S. Mahesh, **Brishketu Kumar** and Runjun Dowrah. (2015). Amino acid evaluation and its availability in pig and poultry (Monogastric animals). *Livestock and Feed Trends*. Volume 12, Number 3.
10. Dinesh Kumar, P. K. Yadav, L. K. Das, M. S. Mahesh, Ankita, Saroj Kumar and **Brishketu Kumar**. (2015). Use of organic protectant of protein and amino acid to protect the protein in ruminant and boost their productive and reproductive performance. *Livestock and Feed Trends*. Volume 12, Number 6.
11. **Brishketu Kumar**, Alok Mishra, Rakesh Sheel, Thakur.K.S.Rao and Dinesh Kumar. (2015). Role of micro minerals in immunity development in calves. *Livestock Line*. November 2015, Volume 9, Issue 7.

12. T. K. S. Rao, **Brishketu Kumar**, Dinesh Kumar and Rakesh Sheel. (2016). Concepts of animal behavior and its application to augment productivity. *Livestock and Feed Trends*. Volume 13, Number 5.
13. Anamika, **Brishketu Kumar** and T. K. S. Rao. (2016). A1 Vs. A2 milk and its relevance in India. *Livestock and Feed Trends*. Volume 13, Number 5.
14. T. K. S. Rao, **Brishketu Kumar**, K. C. Gamit, Dinesh Kumar, D. R. Patel and R. R. Patel. (2016). Techniques of measurement and evaluation of behaviours in cattle. *Pashudhan*, Volume 44, Issue 4.
15. T. K. S. Rao, **Brishketu Kumar**, K. C. Gamit, Dinesh Kumar, D. R. Patel and R. R. Patel. (2016). Models of behaviours in cattle. *Pashudhan*, Volume 44, Issue 3.
16. **Brishketu Kumar**, Nazam Khan, T. K. S. Rao, Anamika and D. R. Patel. (2016). Effect of niacin supplementation on dairy livestock during heat stress. *Livestock and Feed Trends*. Volume 14, Number 3.
17. Dinesh Kumar, P. K. Yadav, Saroj Kumar and **Brishketu Kumar**. (2016). Feeding strategies for ameliorating negative energy balance in postpartum cow. *Livestock and Feed Trends*. Volume 14, Number 3.
18. **Brishketu Kumar**, T. K. S. Rao, Dinesh Kumar, Anamika and D. R. Patel. (2016). Artificial insemination technique; a tool to increase the farm animals productivity. *Livestock Line*, Volume 10, Issue 7.
19. T. K. S. Rao, **Brishketu Kumar**, A. Thakur, V. A. Patel, K. D. Thakor, A. Singh. (2016). Bovine colostrum; a promising nutraceutical. *Livestock and Feed Trends*. Volume 14, Number 4.
20. Dinesh Kumar, P. K. Yadav, Saroj Kumar, **Brishketu Kumar**, Ankita and Punita Kumari. (2016). Feeding and management of laboratory guinea pigs. *Livestock and Feed Trends*. Volume 14, Number 4.
21. T. K. S. Rao, A. Singh, A. D. Verma, **B. Kumar**, P Kumar. (2017). Importance of grooming in husbandry practices in horse and cattle. *Livestock Line*, Volume 10, Issue 9.
22. **Brishketu Kumar**, T K S Rao, Vijay Sharma, Anamika and Dinesh Kumar. (2017). Nutrigenomics: Simply gene food interaction or more. *Livestock Feed Trends*: Volume 15, Number 3.
23. Anamika, **Brishketu Kumar** and T. K. S. Rao. (2017). Goat Farming in India: Principles and Practices. *Livestock and Feed Trends*. Volume 14, Number 8.
24. P. K. Yadav, Saroj Kumar, **Brishketu Kumar**, Dinesh Kumar and Manisha Shyam. (2017). Golden rules for good food plant hygiene practices. *Livestock Line*, Volume 11, Issue 5.

25. Dinesh Kumar, P. K. Yadav, **Brishketu Kumar** and Manisha Shyam. (2018). Newer approaches of feed analysis: Near infrared reflectance spectroscopy. Livestock and Feed Trends. Volume 16, Number 2.
26. Rashmi Kumari, Dinesh Kumar, P. K. Yadav, **Brishketu Kumar** and Manisha Shyam. (2019). Green forages and silage toxicity in livestock: A real concern. Livestock and Feed Trends. Volume 17, Number 1.
27. **Brishketu Kumar**, Londhe Arvind Sudhakar, T. K. S. Rao and Ishu Kumari. (2019). Indian livestock farming: Prospects and role of government policies. CLFMA of India, 61st National Symposium August 2019, Souvenir.
28. **Brishketu Kumar**, Bhavin Chaudhri, Arvind Londhe Sudhakar, T. K. S. Rao and Dinesh Kumar. (2019). Quality control of poultry and pig ration for efficient egg and meat production. Livestock and Feed Trends. Volume 17, Number 2.
29. Dinesh Kumar, P. K. Yadav, **Brishketu Kumar** and Manisha Shyam. (2019). Indicator sensors for monitoring meat quality. Livestock and Feed Trends. Volume 17, Number 3.
30. **Brishketu Kumar**, S. K. Pradhan, T. K. S. Rao, L. A. Sudhakar, and Dinesh Kumar. (2020). Non-conventional feed resources as an alternative to conventional feeds in livestock feeding. Livestock and Feed Trends. Volume 18, Number 2.
31. **Brishketu Kumar**, T. K. S. Rao, Movaliya J. K and Dinesh Kumar. (2021). Nutritional interventions to increase productivity and to reduce heat stress in dairy cattle. Livestock and Feed Trends. Volume 18, Number 3.
32. Rashmi Kumari, Anjay², **Brishketu Kumar**, P. K. Yadav and Dinesh Kumar. (2021). Nutrient losses during storage of feed ingredient used for animal feeding. Livestock and Feed Trends. Volume 18, Number 4.
33. Movaliya J. K., **Brishketu Kumar**, T. K. S. Rao, and Dinesh Kumar. (2021). Application of nano-minerals in livestock feeding. Livestock and Feed Trends. Volume 19, Number 1.

Books Published

1. **Dr Brishketu Kumar**, Dr Mandeep Singh Azad, Dr Ishu Kumari. (2025). Comprehensive Guide to Poultry Science. Moments Publishers, Ahmedabad, Gujarat, India, ISBN-789395746540.
2. Dr Mandeep Singh Azad, **Dr Brishketu Kumar**, Dr Kawardeep Kaur. (2024). Unlocking Success: Livestock farming with Indigenous Breeds. Moments Publishers, Ahmedabad, Gujarat, India, ISBN-789395746557.
3. **Brishketu Kumar** (2023). Panchi Pinjda Tod Do (Poetry Book). BFC Publications, ISBN-13: 978-9357642415.

Book Chapters Published

1. **Brishketu Kumar**¹, Anamika² and Dinesh Kumar³. Coriander (*Coriandrum sativum*) Phytobiotics and Animal Production. IBS, Satish Serial Publishing House, Delhi. ISBN: 9788193906576.
2. Dinesh Kumar¹ and **Brishketu Kumar**². Indian Goose Berry (*Emblica officinalis*). Phytobiotics and Animal Production. IBS, Satish Serial Publishing House, Delhi. ISBN: 9788193906576.
3. Goutam Mondal, Rakesh Sheel, **Brishketu Kumar** and M. Bhakat. Role of Fats in Dairy Animals and their Potential in Methane Mitigation. Chapter 17, Pages: 235-255. Livestock Greenhouse Gases: Emission and Options for Mitigation. Satish Serial Publishing House, Azadpur, Delhi, 2012.
4. **Brishketu Kumar**, Poonam Pandey, Navneet Goel and Sunil Kumar Sirohi. *In vitro* Fermentation Techniques Used to Study the Rumen Ecosystem. Chapter 25, Pages: 351-366. Livestock Greenhouse Gases: Emission and Options for Mitigation. Satish Serial Publishing House, Azadpur, Delhi, 2012.
5. Vinay Kumar Singh, Dharmendra Kumar and **Brishketu Kumar**. Proximate principles of animal feeds. Handbook of Livestock and Poultry Production and Management (2024), Pages 167-170. Narendra Publishing House, Delhi, India. ISBN-978-93-5651-697-7.
6. Dinesh Kumar, **Brishketu Kumar** and Anil Kumar Giri. Management of calves, growing heifers and milch animals. Handbook of Livestock and Poultry Production and Management (2024), Pages 105-125. Narendra Publishing House, Delhi, India. ISBN-978-93-5651-697-7.
7. B. S. Bharath Kumar, Hujaz Tariq, Ranjan K. Mohanta, M. Umar Yaqoob, Vinu M. Nampoothiri, M. S. Mahesh, Dinesh Kumar, **Brishketu Kumar**, and Chander Datt. Rumen buffers to harness nutrition, health and productivity of ruminants. Feed Additives and Supplements for Ruminants, (2024), Pages 495-518 Springer.com/chapter/10.1007/978-981-97-0794-_23#citeas.
8. Ishu Kumari, **Brishketu Kumar**, Rashmi Kumari, M. S. Azad and Dinesh Kumar. Mahua: Tribal Livelihood. Mahua Cultivation, Processing and Value Addition (2024), Pages 14-21. Laxmi printing press, Tikamgarh, India ISBN-978-93-340-5770-6.
9. Ishu Kumari, **Brishketu Kumar**, Rashmi Kumari, M. S. Azad and Dinesh Kumar. Ecological importance of Mahua. Mahua Cultivation, Processing and Value Addition (2024), Pages 31-41. Laxmi printing press, Tikamgarh, India, ISBN-978-93-340-5770-6.
10. Ishu Kumari, **Brishketu Kumar**, Rashmi Kumari, M. S. Azad and Dinesh Kumar. Mahua: A holy tree of tribal people. Mahua Cultivation, Processing and Value Addition (2024), Pages 10-13. Laxmi printing press, Tikamgarh, India, ISBN-978-93-340-5770-6.

11. Rashmi Kumari, Dinesh Kumar, Jui Lodh, Ishu Kumari, **Brishketu Kumar**. Utilization of Mahua as animal feed to enhance livestock productivity: A step towards converting waste into wealth creation. Mahua Cultivation, Processing and Value Addition (2024), Pages 212-219. Laxmi printing press, Tikamgarh, India, ISBN-978-93-340-5770-6.
12. Dinesh Kumar, Rashmi Kumari, Ishu Kumari, **Brishketu Kumar**. Detoxification methods of Mahua for livestock feeding. Mahua Cultivation, Processing and Value Addition (2024), Pages 212-219. Laxmi printing press, Tikamgarh, India, ISBN-978-93-340-5770-6.

Teaching Materials Prepared/Compiled:

List of Theory/Practical manuals/notes prepared/compiled:

Sr. No	Publications	Title	Published
1	Theory Manual	LPM 4.1. (1+1=2) Livestock production and management	Department of Animal Science, College of Agriculture (B.Sc Hons.), NAU, Bharuch
2		LPM 5.2. (2+1=3) Dairy cattle and buffalo production and management	Department of Animal Science, College of Agriculture (B.Sc Hons.), NAU, Bharuch
3		LPM 5.1 (Ruminant Production & Management)	Department of Animal Science, College of Agriculture, NAU, Bharuch, Gujarat.
4		LPM 6.2 (Principles of Poultry Production and Management)	Department of Animal Science, College of Agriculture, NAU, Bharuch, Gujarat.
5		AH 2.1 (Livestock and Poultry Management)	Department of Animal Science, College of Agriculture, NAU, Bharuch, Gujarat.
6	Practical Manual	LPM 4.1. (1+1=2) Livestock production and management	Department of Animal Science, College of Agriculture (B.Sc Hons.), NAU, Bharuch
7		LPM 5.2. (2+1=3) Dairy cattle and buffalo production and management	Department of Animal Science, College of Agriculture (B.Sc Hons.), NAU, Bharuch
8		LPM 5.1 (Ruminant Production & Management)	Department of Animal Science, College of Agriculture, NAU, Bharuch, Gujarat.
9		LPM 6.2 (Principles of Poultry Production and Management)	Department of Animal Science, College of Agriculture, NAU, Bharuch, Gujarat.
10		AH 2.1 (Livestock and Poultry Management)	Department of Animal Science, College of Agriculture, NAU, Bharuch, Gujarat.

Expert Panel Membership/Examinership/Paper Setting etc.

Sr. No.	Activity	Details of activity
Within Agricultural Universities of Gujarat		
Year 2014		
1	External examiner	Paper Setting (LPM 4.1), Regular
2		Paper Assessment (LPM 4.1), Regular
3	External examiner	Paper Setting (LPM 5.2), Regular
4		Paper Assessment (LPM 5.2), Regular
Year 2015		
1	External examiner (Convener)	Paper Setting (LPM 4.1), Supplementary
2		Paper Assessment (LPM 4.1), Supplementary
3	External examiner	Paper Setting (LPM 5.2), Regular
4		Paper Assessment (LPM 5.2), Regular
Year 2016		
1	External examiner	Paper Setting (LPM 5.2), Regular
2		Paper Assessment (LPM 5.2), Regular
Year 2017		
1	External examiner	Paper Setting (LPM 4.1), Regular
2		Paper Assessment (LPM 4.1), Regular
3	External examiner	Paper Setting (LPM 5.2), Supplementary
4		Paper Assessment (LPM 5.2), Supplementary
Year 2018		
1	External examiner	Paper Setting (LPM 4.1), Regular
2		Paper Assessment (LPM 4.1), Regular
Year 2022		
1	External examiner	Paper Setting (LPM 5.1), Regular
2		Paper Assessment (LPM 5.1), Regular
Year 2024		
1	External examiner	Paper Setting (LPM 6.2), Regular
2		Paper Assessment (LPM 6.2), Regular
3		Paper Setting (LPM 5.1), Regular
Year 2025		
1	External examiner	Paper Setting (LPM 6.2), Regular
2		Paper Setting (LPM 6.2), Supplementary
Year 2026		
1	External examiner	Paper Assessment (LPM 6.2), Regular
2		Paper Assessment (LPM 6.2), Supplementary

Outside Agricultural Universities of Gujarat		
Year 2018		
1	External examiner (Paper Setting and Assessment)	LPM 4411 (Dairy Cattle Production), Agriculture University, Kota, Rajasthan.
2	-Do-	ANISC 211 (Livestock and Poultry Management), Agriculture University, Kota, Rajasthan.
Year 2019		
1	External examiner (Paper Setting and Assessment)	LPM 4321 (Livestock Production and Management), Agriculture University, Kota, Rajasthan.
2	External examiner (Paper Setting)	(Animal Nutrition Paper-1), Bihar Animal Sciences University, Patna, Bihar.
Year 2019		
1	External examiner (Paper Setting for Common Entrance for PG Program)	For the subject of (Animal Husbandry), Agriculture University, Kota, Rajasthan.
2	External examiner (Paper Setting for Common Entrance for Ph.D. Program)	For the subject of (Livestock Production and Management), Agriculture University, Kota, Rajasthan.
Year 2020		
1	External examiner (Paper Setting for Common Entrance for PG Program)	For the subject of (Animal Husbandry), Agriculture University, Kota, Rajasthan.
2	External examiner (Paper Setting for Common Entrance for Ph.D. Program)	For the subject of (Livestock Production and Management), Agriculture University, Kota, Rajasthan.
Year 2025		
1	External examiner (Paper Setting)	Animal Nutrition, Paper-I, Bihar Animal Sciences University, Patna
2	External examiner (Paper Setting)	Animal Nutrition, Paper-II, Bihar Animal Sciences University, Patna

Research Papers Presented in International/National Conference (s)

S. No.	Particulars of Conference	International/ National	Title of Paper presented with authors in order
1	15 th Convocation of National Academy of Veterinary Sciences and National Symposium on “Sustainable Livestock Development for Food and National security: Way Forward” on 22-23 rd October, 2016 at Khalsa College of Veterinary and Animal Sciences, Amritsar.	National	“Effects of saponin containing plant extracts on rumen fermentation and methane emission authored. Anamika, K. K. Singhal and Brishketu Kumar .
2	National Conference on “Smallholders Livestock Producers’ in India: Opportunities and Challenges” and Annual Convention of ISAPM to be held on 11 th -13 th April, 2018 at Sardarkrushinagar Dantiwada, Gujarat.	National	Effect of <i>Ruminococcus flavefaciens</i> Culture Supplementation on Total Ruminant Fungal and Bacterial Population in Lactating Murrah Buffaloes and it’s Enumeration by Most Probable Number Technique B. Kumar* , S. K. Sirohi, T. K. S. Rao and R. Sheel.
3	ISBD National Conference on Enhancing Rural Livelihood through Improved Buffalo Productivity and Health from 17 th -19 th January 2019 at NAU., Navsari, Gujarat.	National	Effect of Isolate of <i>Ruminococcus flavefaciens</i> Culture Supplementation on Nutrient Utilization and Milk production in Lactating Murrah Buffaloes. Kumar Brishketu* , Sirohi S. K, Pradhan Sanjay, and Rao. K. S. Thakur.
4	47 th Dairy Industry Conference 2019 on “Innovative Approach for Enhancing Dairy Farmer’s Income” from 7 th -9 th February 2019 at Patna, Bihar.	National	Effect of Dietary Supplementation of Browse Leaves of <i>Terminalia arjuna</i> and <i>Albizia lebbek</i> on Milk Production Performance in Lactating Does. V. R. Patel ¹ , M. C. Desai ² and Brishketu Kumar^{3*}
5	XII ANA Conference on “New horizons of Animal Nutrition Research: Combating the challenges of productivity, health and welfare of animals” ANACON, 2023, 16-18 Feb, DUVASU, Mathura, UP.	National	Best Poster Presentation Award (1 st) on the research entitled “Effect of feeding fodder and complete feed blocks on ruminal fermentation and blood biochemical profile in Surti goat kids”. M. A. Sheikh, Brishketu Kumar , V. K. Singh, V. R. Patel and N. A. Sheikh.
6	XII ANA Conference on “New horizons of Animal Nutrition Research: Combating the challenges of productivity, health and welfare of animals” ANACON, 2023, 16-18 Feb, DUVASU, Mathura, UP.	National	Best Oral Presentation Award (3 rd) on the research entitled “Effect of boron supplementation on the performances and bone mineral concentration in commercial broiler chicken”. S. K. Pradhan, B. Kumar and K. B. Banakara.
7	XII ANA Conference on “New horizons of Animal Nutrition Research: Combating the challenges of productivity, health and welfare of animals” ANACON, 2023, 16-18 Feb, DUVASU, Mathura, UP.	National	Best Poster Presentation Award (3 rd) on the research entitled “Effect of supplementing bypass fat and fibrolytic enzymes on growth and nutrient utilization in Surti buffalo calves”. L. A. Sudhakar, B. Kumar , V. K. Singh and J. K. Movaliya.

Online Seminar/Symposium/Workshop Attended

S. No.	Particulars of Webinars	Special Remarks	International/ National
1	“Addressing COVID-19 Impact On Food Security, Nutrition And Livelihood: A Special Focus To Gujarat” organized by College of Agriculture, Navsari Agricultural University, Campus Bharuch during 15 th -16 th July 2020.	-	National
2	National Seminar On “Feed Additives For Improving The Efficiency And Sustainability Of Milk Production In Dairy Animals” organized by the Department of Animal Nutrition, College of Veterinary Science and Animal Husbandry, SDAU, Gujarat during July 20 th -21 st .	-	National
3	“Sustainable Dairy Production Through Breeding Interventions “organized by Department of Animal Genetics and Breeding College of Veterinary Science and Animal Husbandry, SDAU, Gujarat during 16 th -17 th June.	-	National
4	Workshop on “ABC of Scientific Writing” during 22 nd July to 5 th August 2020 organized by KVK, Cuttack, Santhapur, ICAR-National Rice Research Institute, Cuttack.	“Certificate of Merit” was awarded for successfully completing the workshop with distinction	National
5	Webinar on Sustainable Agriculture through Natural resource Management “organized by Department of Agronomy, College of Agriculture, Navsari Agricultural University, Campus Bharuch (Gujarat) during 4 th -8 th January 2021.	Got certificate for delivering lecture as invited speaker on “Nutritional Interventions to Mitigate Methane Production in Ruminants”	National

Best Paper Presentation Award

S. No.	Details of Conference/Symposia	Title of Paper with Award	Authors in Order
1	15 th Convocation of National Academy of Veterinary Sciences and National Symposium on “Sustainable Livestock Development for Food and National security: Way Forward” on 22-23 rd October, 2016 at Khalsa College of Veterinary and Animal Sciences, Amritsar.	“Effects of saponin containing plant extracts on rumen fermentation and methane emission authored. 2nd Best Poster Presentation Award	Anamika, K. K. Singhal and Brishketu Kumar
2	XII ANA Conference on “New horizons of Animal Nutrition Research: Combating the challenges of productivity, health and welfare of animals” ANACON, 2023, 16-18 Feb, DUVASU, Mathura, UP.	Best Poster Presentation Award (1st) on the research entitled “Effect of feeding fodder and complete feed blocks on ruminal fermentation and blood biochemical profile in Surti goat kids”. - Best Poster Presentation Award	M. A. Sheikh, Brishketu Kumar , V. K. Singh, V. R. Patel and N. A. Sheikh
3	XII ANA Conference on “New horizons of Animal Nutrition Research: Combating the challenges of productivity, health and welfare of animals” ANACON, 2023, 16-18 Feb, DUVASU, Mathura, UP.	Best Oral Presentation Award (3rd) on the research entitled “Effect of boron supplementation on the performances and bone mineral concentration in commercial broiler chicken” - 3rd Best Oral Presentation Award	S. K. Pradhan, B. Kumar and K. B. Banakara
4	XII ANA Conference on “New horizons of Animal Nutrition Research: Combating the challenges of productivity, health and welfare of animals” ANACON, 2023, 16-18 Feb, DUVASU, Mathura, UP.	Best Poster Presentation Award (3rd) on the research entitled “Effect of supplementing bypass fat and fibrolytic enzymes on growth and nutrient utilization in Surti buffalo calves” - 3rd Best Poster Presentation Award	L. A. Sudhakar, B. Kumar , V. K. Singh and J. K. Movaliya

Winter /Summer school/Training/Short Courses Attended

Sl. No.	Training attended
1	Winter school on “Micronutrients in Animal Nutrition” at Centre of Advanced Faculty Training (CAFT), Division of Animal Nutrition, Indian Veterinary Research Institute (IVRI), Izatnagar-243122, Bareilly, UP, India during 3rd-23 rd February-2016.
2	Winter school on “Optimization of Production Efficiency of Integrated Fish Livestock Farming” at ICAR Research Complex for Eastern Region, Patna-800014 from November 17, 2016 to December 07, 2016.
3	Technology Interventions towards Transformation of Agriculture, Sericulture, Animal Husbandry and Allied Sectors into Sustainable Enterprises for Atmnr Bharat” jointly organized by AEDS, CSRTI, BRIATS & PIAS from 11.10.2020 to 31.10.2020.
4	Winter School on “Animal Nutrition Strategies for Efficient and Carbon Neutral Livestock Production” at NDRI, Karnal, Haryana, Animal Nutrition Division Organised by ICAR-NDRI, Karnal from 18.01.2024 to 07.02.2024.

Members of Different Scientific Body/Society/Association

1	Member of scientific society	Animal Production AGRESCO Sub-Committee, Navsari Agricultural University, Navsari, Gujarat, India.
2	Member of scientific advisory committee	KVK, NAU, Dediapada, Narmada for the period of 05/04/2018 to 04/04/2021.
3	Member of research committee	Life member of Animal Nutrition Association, (CAFT, IVRI) of India.
4	Member of scientific society	Life member of Animal Nutrition Society (NDRI) of India.
5	Member of scientific body	Life member of Indian Poultry Science Association, (CARI) of India.
6	Member of scientific body	Life member of Indian Society for Sheep and Goat Production and Utilization
7	Member of Veterinary Council	Member of Gujarat State Veterinary Council, Gandhi Nagar, Gujarat, India.
8	Member of scientific advisory committee	KVK, Chasod, Netrang, Narmada for the period of 2022

Executive Office/Member in Recognized Professional Society

S. No.	Office Held	Professional Society/Journal Name with NAAS rating	Period (Duration)
1	Member, Scientific Advisory Board	International Journal of Livestock Research, (NAAS-5.36)	2020-2021

Certificate of Excellence in Reviewing

S. No.	Certificate of Appreciation/ Excellence in	Professional Society/Journal Name	Certificate No.
1	Reviewing	Asian Journal of Fisheries and Aquatic Research, 2020	SDI/HQ/PR/CERT/60651/BRI
2	Reviewing	International Journal of Livestock Research, 2020	For [Mns.No.:IJLR-2020-09-424]
3	Reviewing	Asian Journal of Fisheries and Aquatic Research, 2021	SDI/HQ/PR/CERT/69192/BRI
4	Reviewing	Asian Journal of Agricultural Extension, Economics and Sociology, 2021	SDI/HQ/PR/CERT/72394/BRI
5	Reviewing	Uttar Pradesh Journal Of Zoology, 2022	MBIMPH/PR/Cert/1584/BRI
6	Reviewing	Asian Journal of Fisheries and Aquatic Research, 2021	SDI/HQ/PR/CERT/69192/BRI
7	Reviewing	Journal of Advances in Biology & Biotechnology, 2024	Certificate No: PRJABB117833BRI
8	Reviewing	International Journal of Livestock Research, 2024	eISSN – 2277 -1964
9	Reviewing	Journal of Global Agriculture and Ecology, 2022	IKP/PR/Cert/10789/DRB
10	Reviewing	International Journal of Environment and Climate Change, 2023	SDI/HQ/PR/Cert/101491/DRB

Extension Activities (Lectures delivered at Farmer's Training/ Meetings)

S. No.	Particulars of Training Program	Topic of Lecture	Date
1	Krush Mahotsav-Ankleshwar, Bharuch.	Dairy Livestock Management	2014
2	Krush Mahotsav, Bharuch	Managemental practices of dairy cattle and buffalo in south Gujarat	2015
3	Farmer's Training	Profitable dairy farming	2015
4	Krush Mahotsav, Amod, Bharuch	Nutritional management of dairy livestock	2016
5	Krush Mahotsav-Ankleshwar, Bharuch.	Poultry and goat farming	2016
6	Kisan Kalyan Mahotsav, Bharuch	How to start a dairy farm	2018
7	Kisan Kalyan Mahotsav, Bharuch	Clean milk production and dry cow management	2023
8	Kharif Krush Mahotsav	Poultry Production and Management	2024

Transfer of Technologies:

1. Department staff is also actively participating in Krush mela, Khedut Din, Khedut Shibir and Seminar time to time.
2. This department is also guiding farmers and general public through publishing research articles as well as popular articles in various international and national journals as well as in monthly and quarterly magazines on various aspects of animal husbandry practices.

Assistant Rector

From 1.07.2017 to 31.10.2019	Worked as an Assistant rector (Bhrugu Boys hostel, Wing-A), College of Agriculture, NAU, Bharuch during the mentioned time period and take care of all the activities and student related issues during my tenure as rector in most efficient manner.
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Assistant Academic Incharge-Polytechnic in Agriculture, NAU, Bharuch

Since 6.07.2013 to Still continuing...	Working as an Assistant academic in charge, Polytechnic in Agriculture, NAU, Bharuch since July 2013 and performing all the works and activities necessary for smooth running of the Polytechnic campus. Performing all the tasks related to admission of students and maintaining all the files of the students of polytechnic in Agriculture.
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Active Involvement in Other Co-Curricular Activities:

Since 10.07.2013 to Still continuing...	Active participation in activity viz., Teachers day celebration, Swachhata Abhiyan, Thalassemia & Blood Group Check up Camp, Shram Shibir, Tree plantation, International Yoga day celebration etc. Participating in Special camp under National Service Scheme (NSS) for students of Degree as well as Polytechnic in Agriculture
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Designed LOGO of the College:

Designed the LOGO of College of Agriculture, NAU, Bharuch with highest efforts, creativity and dedication.



Acting as the Head of the "Department of Animal Science"

**Since
4.09.2013 to
Still
continuing...**

Acting as Head of the department since September 2013 and did/doing all the necessary things to establish the department with establishment of Animal science laboratory with all the necessary equipments, glasswares, chemicals and all other facilities along with all the specimens needed for demonstration to students of diploma and degree under LPM courses single handly.

- Purchased all the instruments like AAS, Solvent extraction system, Fibre extraction system, Nitrogen analyzer, Muffle furnace, Hot air oven, Windey grinder mill, Water distillation system along with other instruments.
- Purchased various animal models of different livestock breeds (Full life size models of Gir cows and Surti buffalo along with models of Surti goat, Patanwadi sheep, Kankrej cow/bull, Murrah buffalo, WLH hen, RIR breed of poultry and models of reproductive and digestive system of large ruminants and poultry) and necessary LPM specimens like (specimens related to identification and restraining of livestocks, A.I. instruments and others).
- Going to start the dairy cattle farm (with 6 Gir cows).
- Time to time preparation of Annual reports of the department.
- Taking care of all the activities regarding purchasing of instruments and other departmental needs.
- Maintaining Animal science section of central instrumentation lab as well as central museum of the college.
- Maintains all the register related to dead stock as well as consumable items of department.
- Publishing research articles time to time in reputed NAAS rated journals.
- Preparing and updating all the teaching materials time to time as per need or change in course curriculum at Diploma, Degree and Master level, respectively.
- Taking classes/teaching in all the three colleges/campuses viz; Polytechnic in Agriculture and College of Agriculture, Bharuch and College of Veterinary Science and Animal Husbandry, Navsari main campus, respectively.
- Attending all the meetings of HOD's time to time under the leadership of our Dean of the college for the betterment of departments and college.
- Taking part in Krushi Mahotsav (Kharif and Rabi), Farmer's training and NSS activities, respectively.