


# Department of Veterinary & A.H. Extension Education

## Profile:

Department is engaged in imparting quality education to undergraduate and postgraduate students of College of Veterinary Science as per the VCI guidelines. It also undertakes area specific extension education based research for benefit of the regional farming community. Activities of transfer of livestock technology to livestock farming community are also carried out by the department.

## Faculty:

	<b>Name</b>	:	Dr. U. M. Patel
	<b>Designation</b>	:	Associate Professor & Head
	<b>Mobile No.</b>	:	9426531987
	<b>E-Mail</b>	:	<a href="mailto:umeshpatel@kamdhenuuni.edu.in">umeshpatel@kamdhenuuni.edu.in</a>
	<b>First Joining year in GAU</b>	:	1999
	<b>Qualification</b>	:	M.Sc. (Agri.) Ext.Edu. Ph.D.
	<b>Experience (year)</b>	:	23
	<b>Joining date in Veterinary college</b>	:	23.07.2019

## Infrastructure:

Sr. No.	Particulars
1	Chamber of HOD
2	Audio-visual technology Laboratory
3	Museum-cum-livestock advisory unit
4	Store

## Staff position:

Sr. No.	Particulars	Filled	Vacant
1	Professor	0	1
2	Associate Professor	1	0
3	Assistant Professor	0	1

## Major Activities:

### I. Teaching

#### A. UG Courses:

Sr. No.	Course No.	Course Title	Credit	Semester
1	VAE-311	Principles and Techniques of Veterinary and Animal Husbandry Extension	2+1=3	V Semester
2	VAE-321	Livestock Economics Marketing and Business Management	2+1=3	VI Semester
3	VAE-511	Livestock Entrepreneurship	1+0=1	IX Semester
4	VAE-311	Veterinary and Animal Husbandry Extension Education	3+1=4	3 <sup>rd</sup> year

**Examination Pattern:**

Internal Assessment (Theory)	Units	Course coverage	Maximum Marks	Weightage
First	1,2,3	33%	40	10
Second	4,5,6	33%	40	10
Third	7,8,9	33%	40	10

Annual examination	Units	Course coverage	Maximum Marks	Weightage
Theory	1 to 5	Paper I	100	20
	6 to 9	Paper II	100	20
Practical	1 to 8	Paper I	60	20
	1 to 16	Paper II	60	20

**B. PG Courses:**

Sr. No.	Course No.	Course Title	Credit
1	AHE-601	Fundamentals of Veterinary and Animal Husbandry Extension	2+1=3
2	AHE-602	Communication for Livestock Development	1+1=2
3	AHE-603	Diffusion and Adoption of Animal Husbandry Practices	2+1=3
4	AHE-604	Extension Techniques and Audio Visual Aids	2+1=3
5	AHE-605	Animal Husbandry Programme Planning and Evaluation	2+1=3
6	AHE-606	Research Methodology in Veterinary and Animal Husbandry Extension	2+1=3
7	AHE-607	Social Psychology and Group Dynamics	2+1=3
8	AHE-608	Animal Husbandry Development Programmes	1+0=1
9	AHE-609	Developments in the Concept of Extension	1+0=1
10	AHE-610	Human Resource Management in Animal Husbandry Sector	2+1=3
11	AHE-611	Gender and Livestock Development	1+0=1
12	AHE-612	Information and Communication Technology in Livestock Development	1+1=2
13	AHE-691	Master's Seminar	1+0=1
14	AHE-699	Master Research	20
15	AHE-701	Organisational Management	3+0=3
16	AHE-702	Farm Journalism and Public Relations	2+1=3
17	AHE-703	Advanced Research Techniques in Social Research	3+1=4
18	AHE-704	Training for Human Resource Development	2+1=3
19	AHE-705	Policies and Regulations in Livestock Sector	2+0=2
20	AHE-706	Educational Technology	2+1=3
21	AHE-707	Dynamics of Change	2+0=2
22	AHE-708	Organisational Communication	2+1=3
23	AHE-790	Special Problem	0+2=2
24	AHE-791	DOCTORAL SEMINAR I	1+0=1
25	AHE-792	DOCTORAL SEMINAR II	1
26	AHE-799	DOCTORAL RESEARCH	45

## II. Research:

### A. Department Research Projects:

Sr. No.	Title	Funding Agency	Principal Investigator/ CoPI	Completed/ Ongoing
1	Awareness of buffalo owners about causes of infertility in buffalo in Panchmahals district (2019-20)	Departmental Project (AGRESCO)	PI: Dr.A.C.Vaidya	Completed
2	Feeding practices adopted by buffalo owners in Anand district (2020-21)	Departmental Project (AGRESCO)	PI: Dr. U. M. Patel CoPI: Dr. Safi Vora	Completed
3	Feeding practices adopted by milch dairy cow owners in Anand district.(2021-22)	Departmental Project (AGRESCO)	PI: Dr. U. M. Patel Co PI:Dr.S.J.Jadav	Completed
4	Knowledge and adoption practices to control bovine ecto-parasites by dairy farmers in Anand and Kheda districts (2022-23)	Departmental Project (AGRESCO)	PI: Dr. U. M. Patel Co PI: Dr.S.J.Jadav & Dr.V. D. Chauhan	Ongoing

### B. Number of M.V.Sc. degree awarded

1. Number of M.V.Sc. degree awarded: 04
2. Number of M.V.Sc. students ongoing: 02
3. Number of Ph.D. degree awarded: Nil

Name of Student	Degree	Year	Research Topic	Major Advisor
Arunkumar M. Bharwad	M.V.Sc	12.07.2016	Development of scale to measure attitude of goat keepers towards goat farming	Dr.A.C.Vaidya
Sunil M. Prajapati	M.V.Sc.	07.12.2018	Development of scale to measure attitude of woman dairy farmers towards woman dairy cooperatives society in middle Gujarat	Dr.A.C.Vaidya
Barasara Bhaumikkumar Raghavajibhai	M.V.Sc.	13.06.2019	Knowledge and adoption of scientific horse rearing practices of horse owners of middle Gujarat	Dr.A.C.Vaidya
Nayankumar Harishankar Joshi	M.V.Sc	30.06.2021	Development of scale to measure attitude of broiler farmers towards broiler farming	Dr.A.C.Vaidya
Shreeja Swami Piyushkumar	M.V.Sc.	Ongoing	Adoption dynamics of dairy farmers about periparturient diseases in bovine	Dr.U.M.Patel
Shah Preet Hasitkumar	M.V.Sc.	Ongoing	Antimicrobial resistance: A cross sectional study on knowledge, attitude and practices among veterinary professionals of Gujarat state	Dr.U.M.Patel

### III. Extension

#### A. Diagnostic Services / Clinical Camps/Farmers' advisory services/ Ambulatory Clinics/ Vaccination camps/ Off Campus training programme:

1. One day training camp was organized at Rayka village, Ta: Savli, at Baroda district on 2<sup>nd</sup> September, 2015.
2. Clinical camp was organized at Rayka village, Ta: Savli, at Baroda district on 3<sup>rd</sup> September, 2015.
3. Dr. U. M. Patel, delivered radio talk on 'Covid-19 advisory for farmers' dated on 26.04.2020 at Akashwani, Godhra District: Panchmahal through virtual media.
4. Dr. U. M. Patel, delivered lecture in training programme on "Government support & facilities available for animal husbandry sector" at Vidhya dairy, Anand dated on 30.11.2020.

#### Future Thrust Areas:

- Dissemination of the latest livestock farming technologies to the farmers.
- Exposures of students through field visits.
- Development of communication skills in students.
- Strengthening of students' counselling to reduce gap between students and teachers.
- Assessment of farmers' adaptability of new technology developed by researchers.
- Guidance to the farmers and rural youth on livestock and allied fields.

#### Achievements:

##### A. Awards/Honours/Recognitions/Appreciations: 02

1. M.V.Sc. student Preet Shah received best oral presentation award at Fourth National conference of society for veterinary and animal husbandry extension, DGCN, College of Veterinary and Animal Sciences, CSKH, Palampur, Himachal Pradesh on "Buffalo calf rearing practices followed by farmers and buffalo calf mortality & its pattern".
2. M.V.Sc. student Preet Shah received best oral presentation award at third National Symposium on "Pragmatic Approaches for Animal Health and Welfare in Present Perspectives of Climate Change" of College of Veterinary Science and A.H., KU, Anand.

##### B. As Subject Expert / Member (Selection Committee/ Advisory Board): 01

##### C. Other Recognitions (SRC/NSS/AGRESCO Convener/Hostel Rector etc.): 01 (As Co-chairman in 15<sup>th</sup> AGRESCO: Dr. U. M. Patel)

#### Publications:

1. Vaidya, A.C., Parmar, H. C. and Patel, J. B. (2014). Constraints perceived by the farmers in preparation of vermi compost, National Seminar on Dimension of Extension Education in Holistic Development of Farmers, Abstract, Page 45.
2. Vaidya, A. C., Chauhan, N.B. and Macwan, A. R., (2015). Technique to measure attitude of the farmers towards poultry farming. National Seminar on Magnitude of Extension Approaches in Agricultural Development, Compendium, Page 84-85.
3. Vaidya, A.C., Chauhan, N.B. and Macwan, A. R., (2015). Constraints in the management of poultry production crisis faced by the poultry farmers. National Seminar on Magnitude of Extension Approaches in Agricultural Development, Compendium, Page 88.
4. Vaidya, A.C., Chauhan, N.B. and Macwan, A. R., (2015). Suggestions of the poultry farmers to manage crisis in the poultry farming. National Seminar on Magnitude of Extension Approaches in Agricultural Development, Compendium, Page 89.
5. Bharwad, A.M., Bhadesiya, C.M. and Vaidya, A.C. (2016). Ascertainment of constraints faced by dairy farmers for adoption of scientific dairy farming practices in Anand district, Gujarat, *Advances in life sciences* 5(1), 299-302.
6. Bharwad, A. M. and Vaidya, A. C. (2016). Ascertainment of suggestion given by goat keepers to make goat farming more effective. *Advances in Life Sciences* 5(6), 2091-2092.

7. Vaidya, A. C., Bharwad, A. M., and Bhadesiya, C. M. (2016). Investigations on adoption of package of practices in dairy farming possessed by the dairy farmers of Anand district, Gujarat, *Life Sciences Leaflets, Online & Print*, 71 (2016), 79-85.
8. Joshi, N.H., Bharwad, A. M. and Vaidya A. C. (2016). Ascertaining the role performance of dairy farmers women in different animal husbandry practices. *Advances in Life Sciences* 5(22), 10643-10646.
9. Vaidya A. C. and Joshi N.H. (2016). Adoption of package of practices for dairy animals. *Guj. J. Ext. Edu.*, 27(1), 8-13.
10. Bharwad A. M., Vaidya A. C. and Joshi N.H. (2016). Development of scale to measure attitude of goat keepers towards goat farming. *Guj. J. Ext. Edu.*, 27(2), 116-118.
11. Vaidya, A.C., Joshi, N.H. and Prajapati, S.M. (2018). Constraints faced by livestock farmers in adoption of dairy farming technologies in Bhavnagar district of Gujarat, *Life Science Leaflets*, (102), 20-24.
12. Vaidya, A. C., Joshi, N.H. and Prajapati, S.M. (2018). Usefulness of latest social media in veterinary field as felt by veterinarians, *Life Science Leaflets*, (102), 25-31.
13. Nayak, J. J. and Vaidya, A.C. (2018). Green manure in crop production and soil health, *international journal of innovative research in science, engineering and technology*, 7 (6), 7378-7381.
14. Patel, U.M. and Patel J.K. (2020). Utilization of source of agricultural information by maize growers of middle Gujarat. *National webinar souvenir of JNKVV, Jabalpur at College of Agriculture, Tikamgarh (MP)*: pp 956-960.
15. Chaudhari, R. U., Patel, U. M. and Thorat, G. N. (2022). Decision making of farm women in dairy occupation. *Guj. J. Ext. Edu.* Vol. 33 (1), June 2022 pp 109-111.
16. Thorat, G. N. and Patel, U. M. (2022). Migration behaviour of tribal families of Dahod district of Gujarat. *Guj. J. Ext. Edu.* Vol. 33(1), June 2022 pp 20-25.

#### **Abstract Paper/ Posters presented at Seminar / Conference**

1. Bharwad, A. M., Vaidya, A. C., Raval, H. S. and Bhadesiya, C. M. (2016). Knowledge Level of Dog Owners in Rural Area. Mobilization- 2015. 7th National Seminar on Sustainable Rural Livelihood: Technological and Institutional Perspective. 2. 29:99.
2. Bharwad, A. M., Vaidya, A. C. and Josh, N. H. (2016). Organic Dairy Farming: A New Horizon in Dairy Sector. International Extension Education Conference on Education Research and Services. Souvenir- com- Abstract Book IEEC/2016/ABS/379. Page No. 215.
3. Joshi N.H., Patel, A.R. and Vaidya A.C. (2018). Usefulness of Latest Social Media in Veterinary Field as Felt by Veterinarians. National Seminar on Extension Plus: Expanding the Horizons of Extension for Holistic Agriculture Development. Abstract No. ICT-20 Page No.131.
4. Vaidya, A.C., Raval, R.K. and Patel, Y.G. (2018). Study of knowledge mediated extension strategies for lively hood security". Souvenir, Page no.174.level and adoption gap in cross breed cow owners regarding udder health. National Seminar on "Doubling the farmers' income" pp 174.
5. Barasara, B.R., Prajapati, S.M. and Vaidya, A.C. (2019). Constraints faced by women dairy farmers in women dairy cooperatives, SEEG National symposium 2019 on Pragmatic perspectives of agricultural development programmes in present scenario. June, 2019: pp175.
6. Bhabhor, G.K., Patel, U.M. and Makwana, N.D. (2019). Adoption of improved rabi maize production technology by tribal rabi growers, SEEG National symposium 2019 on Pragmatic perspectives of agricultural development programmes in present scenario. June, 2019: pp 321.
7. Bhabhor, G. K., Patel U.M. and Makwana N. D. (2019). Association between personal profile and adoption of improved rabi maize production technology by tribal rabi maize growers. *GJOEE/ Vol-30/2019/44*.
8. Patel, U.M. and Patel J.K. (2020). Utilization of source of agricultural information by maize growers of middle Gujarat. National webinar souvenir of JNKVV, Jabalpur at College of Agriculture, Tikamgarh (MP): pp 349-350.
9. Chaudhari, R. U., Joshi, K. M., and Patel U. M. (2022). Participation of farm women in dairy occupation SEEG National Seminar 2022 on "Synergic Extension Approaches for

livelihood Improvement and Agricultural Development at JAU, Junagadh during 24-25 June, 2022 pp 413.

**List of Other Publications: (Book, Book Chapter, Popular Articles, Leaflets, Pamphlets, Booklets) (Including articles in vernacular language):**

Author	Title	Pract. Manual/ Chapter/Bulletin	Publishing Agency	Date of release
Dr.S.K.Raval Dr.J.B.Nayak Dr.J.K.Patel Dr.A.C.Vaidya	પશુઓથી માનવીમાં પ્રસરતા રોગો અને પશુ પ્રજનન	વૈજ્ઞાનિક માહિતી પુસ્તીકા	Principal /Dean, College of Veterinary Science AAU, Anand	04.02.2015

**List of Practical record books and/or training manuals:**

Sr. No.	Name of manual	Name of Authors
1	New VCI 311- Theory manual	Compiled by Dr.U.M.Patel
2	New VCI 311- Practical manual-I	
3	New VCI 311- Practical manual-II	
4	Old VCI 311- Theory manual	
5	Old VCI 311- Practical manual	
6	Old VCI 321- Theory manual	
7	Old VCI 321- Practical manual	

## Photographs:



Workshop on "Teaching Efficiency: Cultivating Communication Skills" at College of Veterinary Science, AAU, Anand during 26.08.2015



Farmers Training camp organized by College of Veterinary Science, AAU Anand at Rayka Village on 02.09.2015



Animal Health Camps organized by College of Veterinary Science, AAU Anand at Rayka Village on 03.09.2015



Participated in Surti Calf rally on 24.02.2016 at KVK Devataj



Leadership and Entrepreneurship Development Training Programme by NCCSD at College of Veterinary Science, AAU, Anand during 23/24.02.2016



Exhibition arranged at Gorva village Ta Borsad in Pashu Palan Shibir on 18.03.2016



Visit of Hon'ble Vice-Chancellor of AAU during mega event of Krushi-Mhhotsav-2016 Anand

Lecture at NSS camp organized at Vadod



Students of Veterinary College Bidar, Karnataka

Students of Veterinary College Khanapura, Guwahati, Assam





Our Visitors: Students of Veterinary College  
Khanapura, Guwahati, Assam



Our Visitors: Progressive Farmers of  
Chhattisgarh FIG of ATMA



Tour of Khalsa Vet. College student, Amritsar



Exhibition-2018



Participation in Mega Camp at Dharampur – 2018



Participation in Youth Election Awareness seminar-2019





Candle March- 2019



Participation in Youth Election Awareness seminar-2019



Thalassemia Testing Programme for First Year B.V.Sc. & A.H. students

Voluntary Blood Donation Camp-2020



Participation in MGMG programme