



## DEPARTMENT OF VETERINARY MICROBIOLOGY

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 .<br>No. | Name                           | Designation         | Contact Details                             | Joining<br>Year<br>in<br>NAU | Qualification | Total<br>Experience | Publications<br>Research<br>Papers          |
|-------------|--------------------------------|---------------------|---------------------------------------------|------------------------------|---------------|---------------------|---------------------------------------------|
| 1           | Dr. I.<br>H.<br>Kalyani        | Professor & Head    | 09537797532<br>ihkalyani@kamdhenuuni.edu.in | 2010                         | Ph.D.         | 31 Years            | Research Paper:63<br>Chapters in<br>book:03 |
| 2           | Dr.<br>Dharmesh R.<br>Patel    | Assistant Professor | 8849949710<br>drpatel@kamdhenuuni.edu.in    | 2009                         | Ph.D.         | 12<br>Years         | Research Paper:19<br>Chapters in<br>book:01 |
| 3           | Dr.<br>Pushpa<br>M.<br>Makwana | Assistant Professor | 9265004224<br>pmmakwana@kamdhenuuni.edu.in  | 2012                         | Ph.D.         | 9 Years             | Research Paper:22<br>Chapters in<br>book:01 |

### **About the Department**

Department of Veterinary Microbiology is actively engaged in diagnosis of various diseases viz., Brucellosis, TB, JD, PPR, CDV, CPV, CCoV, Rotavirus, IBR etc. in addition of education. Isolation of various bacterial organisms from clinical samples and performing *in-vitro* antimicrobial susceptibility test to facilitate drug of choice for veterinarian. Laboratory Diagnosis is carried out in the department by employing various tests like, ELISA, Dot ELISA, MRT, RBPT, LAT, Lateral flow assay, PCR, Dark field Microscopy etc.

**RESEARCH ACTIVITIES:**

| Sr. No. | Research Topic                                                                                                                                           | Status    | Remarks                  |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------|
|         | <b>Plan Scheme</b>                                                                                                                                       |           |                          |
| 01      | Establishment of Regional Animal Disease Diagnosis and Research Laboratory ( BH-12049) since June 2012                                                   | On-going  | Plan Scheme              |
|         | <b>Departmental Research scheme ( AGRESCO projects )</b>                                                                                                 |           |                          |
| 01      | Detection of Bovine Sub-Clinical Mastitis from organized and unorganized farms in & around Navsari                                                       | Completed | Departmental             |
| 02      | Comparison of PCR and ELISA for screening of Canine Parvo Virus (CPV) in diarrheal cases of Dogs                                                         | Completed | Departmental             |
| 03      | Study of selected pathogenic attributes of <i>Escherichia coli</i> ( E.coli ) isolated from neonatal calf diarrhoea                                      | Completed | Departmental             |
| 04      | Microbiological investigation of Neonatal calf diarrhoea with specific reference to detection of Rotavirus                                               | Completed | Departmental             |
| 05      | Molecular diagnosis of canine distemper in dogs                                                                                                          | Completed | Departmental             |
| 06      | Evaluation of different methods of DNA extraction in diagnosis of canine parvo virus infection for PCR and real time PCR.                                | Completed | Departmental             |
| 07      | Sero-surveillance and molecular detection of brucella organism from cattle and buffaloes of the organized and unorganized farms located in south Gujarat | Ongoing   | Departmental             |
| 08      | Study on antibiogram pattern of bacterial organisms associated with pyoderma infection in dogs.                                                          | Ongoing   | Departmental             |
|         | <b>P.G. ( M.V.Sc. and Ph.D. ) research</b>                                                                                                               |           |                          |
| 01      | Prevalence of Rota virus and enterotoxigenic <i>Escherichia coli</i> infection in neonatal calf diarrhea in South Gujarat.                               | Completed | P.G. research ( M.V.Sc.) |
| 02      | Detection and characterization of <i>Escherichia coli</i> isolated from caprine neonatal diarrhea.                                                       | Completed | P.G. research ( M.V.Sc.) |
| 03      | Detection, isolation and molecular characterization of canine parvovirus in canines in and around Navsari district.                                      | Completed | P.G. research ( M.V.Sc.) |
| 04      | Identification and characterization of biofilm producing <i>Staphylococcus aureus</i> isolates from mastitis in cattle.                                  | Completed | P.G. research ( M.V.Sc.) |
| 05      | Evaluation of oncolytic potential and immune response to Newcastle Disease Virus (NDV) in mice ( <i>Mus musculus</i> ).                                  | Completed | P.G. research ( Ph.D.)   |
| 06      | Sero-epidemiological and Molecular Characterization of Bovine Herpes Virus-1 (BoHV-1) in Bovine of Southern Gujarat.                                     | Completed | P.G. research ( Ph.D.)   |
| 07      | Detection, isolation and molecular characterization of Peste des petits ruminants virus in small ruminants of South Gujarat.                             | Completed | P.G. research (Ph.D.)    |

|    |                                                                                                                                       |           |                       |
|----|---------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|
| 08 | Molecular Detection of Drug Resistance and virulence related genes in avian pathogenic Escherichia coli (APEC) isolated from poultry. | Completed | P.G. research (Ph.D.) |
| 09 | Detection and molecular characterization of Rotavirus in bovine neonatal calves in and around Navsari district.                       | Completed | P.G. research (Ph.D.) |
| 10 | Development of polymerase spiral reaction (PSR) technique for rapid visual detection of microorganism.                                | Completed | P.G. research (Ph.D.) |

### Publication by the department:

1. P. M. Makwana, I. H. Kalyani, D. N. Desai, J. M. Patel, J. B. Solanki, P. D. Vihol, D. R. Patel, D. M. Muglikar and P. S. Sakhare (2020) Detection of bovine rotavirus (BRV) infection in neonatal calves of in and around Navsari district of South Gujarat, India. *Journal of Entomology and Zoology Studies*, 8(2): 1092-1097
2. Dhruv Desai, Irshadullakhan Kalyani, Umed Ramani, Pushpa Makwana, Dharmesh Patel and Jignesh Vala (2020) Evaluation of three different methods of viral DNA extraction for molecular detection of canine parvo virus-2 from faecal samples of dogs. *Journal of Entomology and Zoology Studies* 8(3): 479-481
3. Desai, D., Makwana, P., Solanki, J., Kalyani, I., Patel, D., Mehta, S., Mavadiya, S., Vala, J., & Parmar, S. (2020). Detection and Prevalence of Canine Leptospirosis from Navsari District of South Gujarat, India. *Microbiology Research Journal International*, 30(9), 103-110.
4. P. M. Makwana, I. H. Kalyani and D. N. Desai (2020) Isolation of bovine rotavirus in MDBK cell line from diarrhoeic calves of Navsari district. *The Pharma Innovation Journal* , 9(5): 222-225
5. Desai, D., Kalyani, I., Patel, D., Makwana, P., Solanki, J., & Vala, J. (2020). Rapid Detection based Prevalence of Canine Corona Virus (CCoV) and Canine Parvo Virus (CPV) Infection in Diarrheic Dogs in South Gujarat. *The Indian Journal of Veterinary Sciences and Biotechnology*, 16(01), 41-43.
6. Desai, D., Kalyani, I., Solanki, J., Patel, D., Makwana P., Sharma, K., Vala, J. and Muglikar D. (2020). Serological and Nucleocapsid Gene Based Molecular Characterization of Canine Distemper Virus (CDV) Isolated from Dogs of Southern Gujarat, India. *Indian Journal of Animal Research*, 1-9.

7. Sakhare, P. S., Kalyani, I. H., Vihol, P., Sharma, K. K., & Makwana, P. (2019). Symptomatology and Pathomorphological changes in Outbreak of Peste Des Petits Ruminants (PPR) in Small Ruminants. *Intas Polivet*, 20(1), 118-122.
8. Pramod Sakhare, Irshadullahkhan Kalyani, Priti Vihol, Kishan Sharma, Jayesh Solanki, Dhruv Desai and Pushpa Makwana. Seroepidemiology of Peste Des Petits Ruminants (PPR) in Sheep and Goats of Southern Districts of Gujarat, India. (2019). *Int.J.Curr.Microbiol.App.Sci.* 8(11): 1552-1565
9. D. M. Muglikar, I. H. Kalyani, Dhruv Desai, J. M. Patel, D. R. Patel, Pushpa Makwana and J. B. Solanki (2019) Serotyping and Antimicrobial Susceptibility Pattern of Avian Pathogenic *Escherichiacoli*. *Int.J. Curr.Microbiol.App.Sci* 8(12): 505-511
10. Sharma, K. K., Desai, D. N., Tyagi, K. K., & Kalyani, I. H. (2019). Bacteriological and molecular diagnosis of caseous lymphadenitis in goats at an organized farm. *Indian Journal of Small Ruminants (The)*, 25(1), 124-127.
11. Sharma, K. K., Kalyani, I. H., Pandya, S. M., & Vala, J. A. (2018). Diagnosis and characterization of canine parvovirus-2 affecting canines of South Gujarat, India. *Acta Veterinaria Brno*, 87(3), 247-254.
12. Dharmesh R. Patel, Irsadullakhan H. Kalyani, Bhavesh J. Trangadia, Kishan K. Sharma, Pushpa M. Makwana, Dhruv Desai, Dushyant Muglikar and Pramod S. Sakhare. 2018. Detection of Bovine Herpesvirus-1 Infection in Bovine Clinical Samples by Direct Fluorescent Antibody Test. *Int.J.Curr.Microbiol.App.Sci.* 7(11): 2229-2234.
13. Sharma, K. K., Vihol, P. D., Kalyani, I. H., Patel, D. R., & Rathod, P. H. (2017). Leptospira induced abortion in goats in Southern Gujarat. *Indian Journal of Veterinary Pathology*, 41(4), 300-302.
14. S. M. Pandya, K. K. Sharma, I.H. Kalyani and Pramod Sakhare (2017) Study on host predisposing factors and diagnostic tests for canine parvovirus (CPV-2) infection in Dogs. *Journal of Animal Research* 7(5):897-902
15. S. G. Malaviya, I. H. Kalyani, K. K. Sharma, P. S. Sakhare and D. R. Patel (2017) Prevalence of toxigenic *Escherichia coli* (E.coli) and rotavirus among neonatal calves in south Gujarat region (india) using classical and PCR based methods. *Ruminant Science* 6(1).
16. K.K.Sharma, I. H. Kalyani, J. Mohapatra, S. D. Patel, D. R. Patel, P. D. Vihol, A. Chatterjee, Dinesh R. Patel, B. Vyas (2017) Evaluation of the oncolytic potential of R2B Mukteshwar vaccine strain of Newcastle disease virus (NDV) in a colon cancer cell line (SW-620). *Archives of Virology*, 162(9), 2705-2713

17. Patel Hardik, Kalyani I. H., Sakhare P., Sharma K. (2017) Isolation, Serotyping and Antibiogram of E. coli from neonatal kids. *Indian Journal of Small Ruminants*, 23(1): 39-42.
18. Kishan K. Sharma, Irsadullakhan H. Kalyani, Dharmesh R. Patel and Gaurav M. Pandya (2016) Enumeration of Techniques of New Castle Disease Virus (NDV) for Oncolytic Virotherapy *Journal of Animal Research* 6(5): 905-910.
19. Kishan K. Sharma, I. H. Kalyani and Dharmesh R. Patel (2015) Detection of Rotavirus and Associated bacteria from outbreak of neonatal calf diarrhea in colostrums deprived calves. Colostrums deprived calculus. *Veterinary Practitioner* 16(1):88-89,2015
20. Kishan K. Sharma, Irsadullakhan H. Kalyani, Deepak P. Kshirsagar and Dharmesh R. Patel (2015) Determination of herd Prevalence of Brucellosis using Rose Bengal Plate Test & Indirect ELISA. *Journal of Animal Research* 5(1): 105-108, 2015.
21. K.K.Sharma, D.P. Kshirsagar, I.H. Kalyani, D. R. Patel , P.D. Vihol and J. M. Patel (2015) Diagnosis of Peste des petits ruminants infection in small ruminants through in house developed indirect ELISA: Practical considerations. *Veterinary World*, 8(4) :443-448
22. I. H. Kalyani, J.B. Solanki and R. f (2015). Zoonoses at a glance. Souvenir cum compendium Published during one day technical seminar on “Strategies, Approach and Preparedness of Veterinarians in Control of Emerging and Re-emerging Zoonoses” at NAU, Navsari.
23. Pushpa Makwana, Irshadullahkhan Kalyani, Dhruv Desai, Dharmesh Patel, Pramod Sakhare and Dushyant Muglikar. (2018). Role of Adjuvants in Vaccine Preparation: A Review. *Int.J.Curr.Microbiol.App.Sci.* 7(11): 972-988.
24. D. N. Desai, I. H. Kalyani and D. M. Muglikar (2018). One Health Approach for Prevention and Control of Swine Influenza. Technical seminar on one health, covas, udgir (03 november 2018).
25. D. N. Desai, I. H. Kalyani and D. M. Muglikar (2018). One Health Initiative for Management of Wildlife Diseases. Technical seminar on one health, covas, udgir (03 november 2018).

## **Courses offered by the Department (Theory and Practical)**

### **Undergraduate Programme**

| <b>Sr. No.</b> | <b>Name of Course</b>                                   | <b>Credit</b> |
|----------------|---------------------------------------------------------|---------------|
| 1              | UNIT: 1<br>GENERAL & SYSTEMATIC VETERINARY BACTERIOLOGY | 3+2           |
| 2              | UNIT-2<br>VETERINARY MYCOLOGY                           |               |
| 3              | UNIT-3<br>MICROBIAL BIOTECHNOLOGY                       |               |

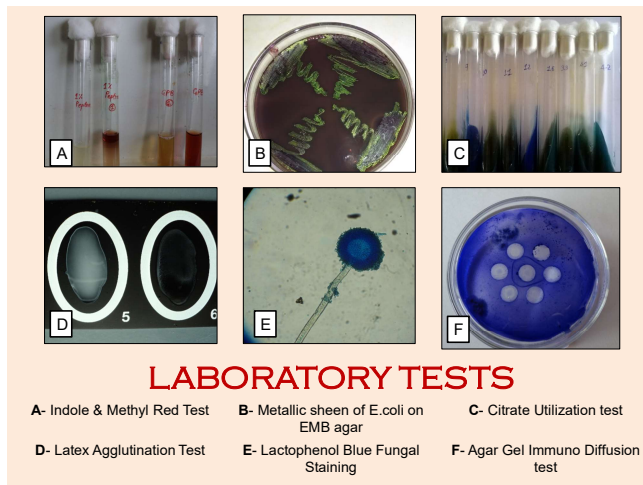
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|---|------------------------------------------------------|--|
| 4 | UNIT-4<br>VETERINARY IMMUNOLOGY AND SEROLOGY         |  |
| 5 | UNIT-5<br>GENERAL AND SYSTEMATIC VETERINARY VIROLOGY |  |

### **Master Degree Programme**

| Sr. No. | CODE    | COURSE TITLE                              | CREDITS |
|---------|---------|-------------------------------------------|---------|
| 1.      | VMC 601 | BACTERIOLOGY I                            | 3+1     |
| 2.      | VMC 602 | BACTERIOLOGY II                           | 3+1     |
| 3.      | VMC 603 | VETERINARY MYCOLOGY                       | 1+1     |
| 4.      | VMC 604 | GENERAL VIROLOGY                          | 2+1     |
| 5.      | VMC 605 | SYSTEMATIC ANIMAL VIROLOGY                | 3+1     |
| 6.      | VMC 606 | PRINCIPLES OF IMMUNOLOGY                  | 2+1     |
| 7.      | VMC 607 | VACCINOLOGY                               | 2+0     |
| 8.      | VMC 608 | DIAGNOSTICS OF INFECTIOUS DISEASES        | 1+2     |
| 9.      | VMC 609 | TECHNIQUES IN MICROBIOLOGY AND IMMUNOLOGY | 0+3     |
| 10.     | VMC 691 | MASTER'S SEMINAR                          | 1+0     |
| 11.     | VMC 699 | MASTER'S RESEARCH                         | 20      |

### **Ph.D. Programme**

| Sr. No. | CODE    | COURSE TITLE                                           | CREDITS |
|---------|---------|--------------------------------------------------------|---------|
| 1.      | VMC 701 | ADVANCES IN BACTERIOLOGY                               | 2+1     |
| 2.      | VMC 702 | ADVANCES IN MYCOLOGY                                   | 2+1     |
| 3.      | VMC 703 | BACTERIAL GENETICS                                     | 2+1     |
| 4.      | VMC 704 | MICROBIAL TOXINS                                       | 2+1     |
| 5.      | VMC 705 | MOLECULAR DETERMINANTS OF BACTERIAL PATHOGENESIS       | 2+1     |
| 6.      | VMC 706 | ADVANCES IN VIROLOGY                                   | 2+1     |
| 7.      | VMC 707 | MOLECULAR AND GENETIC ASPECTS OF VIRAL PATHOGENESIS    | 2+1     |
| 8.      | VMC 708 | STRUCTURE FUNCTION RELATIONSHIP OF DNA AND RNA VIRUSES | 3+0     |
| 9.      | VMC 709 | ONCOGENIC VIRUSES                                      | 2+0     |
| 10.     | VMC 710 | SLOW VIRAL INFECTIONS AND PRIONS                       | 2+0     |
| 11.     | VMC 711 | MOLECULAR IMMUNOLOGY                                   | 2+1     |
| 12.     | VMC 712 | ADVANCES IN CELLULAR IMMUNOLOGY                        | 2+1     |
| 13.     | VMC 713 | CYTOKINES AND IMMUNOMODULATORS                         | 2+0     |
| 14.     | VMC 714 | ADVANCES IN VACCINOLOGY                                | 2+0     |
| 15.     | VMC 715 | ADVANCES IN IMMUNODIAGNOSTICS                          | 1+1     |
| 16.     | VMC 716 | MODERN IMMUNOTECHNOLOGY                                | 1+2     |
| 17.     | VMC 717 | CURRENT TOPICS IN INFECTION AND IMMUNITY               | 3+0     |
| 18.     | VMC 718 | VETERINARY MICROBIAL BIOTECHNOLOGY                     | 2+1     |
| 19.     | VMC 790 | SPECIAL PROBLEM                                        | 0+2     |
| 20.     | VMC 791 | DOCTORAL SEMINAR I                                     | 1+0     |
| 21.     | VMC 792 | DOCTORAL SEMINAR II                                    | 1+0     |
| 22.     | VMC 799 | DOCTORAL RESEARCH                                      | 45      |



**Department of Veterinary Microbiology**  
**College of Veterinary Science & A.H.**  
**Navsari Centre, Kamdhenu University**  
**Gandhinagar, Gujarat - 396450**




**FACULTY**


|                         |                                 |
|-------------------------|---------------------------------|
| Name                    | <b>Dr. I. H. Kalyani</b>        |
| Designation             | Professor & Head                |
| Qualification           | Ph.D. (Veterinary Microbiology) |
| Contact No.             | 09537797532                     |
| Email ID                | ihkalyani@kamdhenuuni.edu.in    |
| Joining date            | 25-06-2010 (N.A.U.)             |
| Professional Experience | 31 Years                        |



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Job profile             | Teaching, Research, Extension                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |
| Exams cleared           | ICAR-NET (ICAR, New Delhi)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |
|                         | CCC+ (SPIPA, Vadodara)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |
| Significant award       | <ol style="list-style-type: none"> <li><b>Best Poster presentation award</b> to S.G. Malaviya, <b>I.H. Kalyani</b>, H.C. Chauhan, D.R. Patel and K.K. Sharma for the work “ The study of the coincidence of Rotavirus and E.coli infection in neonatal calf diarrhea” during XVIII Annual Convention of ISVIB on “ Effective Utilization of Translational Research platforms for Animal Biotechnology” organized by College of Veterinary Sci. &amp; A. H., SDAU from 12-14 December, 2011.</li> <li><b>Best Oral presentation award</b> to Desai D.N. Kumar R., Patel N M., <b>Kalyani I.H.</b>, Savalia C.V. and Ramani U.V. for the work “ Phylogenic characterization of methicillin-resistant coagulase positive staphylococcus aureus (MRSA) isolated from Bovine raw milk, dairy food products and handler’s hand swabs” during national conference (ISBD-2019) held in college of veterinary science and A.H., NAU, Navsari.</li> <li><b>Best Poster presentation award</b> to D.N. Desai, <b>I.H.Kalyani</b>, U.V.Ramani, K.K.Sharma, D.R.Patel, Pushpa Rathod for the paper Evaluation of viral DNA extraction method for diagnosis of canine parvovirus from fecal sample during VI annual convention of SVSBT and national symposium during 13-14 December, 2018 at college of veterinary &amp; animal science, Navania, vallabh Nagar, Udaipur (Rajasthan University of veterinary &amp; Animal Sciences, Bikaner).</li> <li><b>Reviewer Excellence Award</b> is awarded by ARCC Journals for reviewing Indian Journal of Animal Research &amp; Asian Journal of Dairy and food research.</li> </ol> |                      |
| Publication             | Teaching Manual: 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Books/Booklets: 1    |
|                         | Chapters in Book: 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Lead Papers: 1       |
|                         | Research Papers: 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Popular Articles: 13 |
|                         | ASCAD training manual:11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Abstracts: 40        |
|                         | Scientific Recommendations: 09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |
| Research Scheme         | “Establishment of Regional Animal Disease Diagnosis & Research Laboratory” as Principal Investigator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |
| Competence building     | Summer School/Winter School/CAFT/Orientation: 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |
|                         | Seminar/Symposium/Conference: 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |
|                         | Short courses/Training: 06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |
|                         | Seminar/Symposium/workshop organized:16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |
| Professional Membership | 08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |



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|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|
| Name                     | Dr.Dharmeshkumar Rameshbhai Patel                                                                                                |                          |  |
| Designation              | Assistant Professor                                                                                                              |                          |                                                                                     |
| Qualification            | Ph.D.(Veterinary Microbiology)                                                                                                   |                          |                                                                                     |
| ContactNo.               | 8849949710                                                                                                                       |                          |                                                                                     |
| EmailID                  | drpatel@kamdhenuuni.edu.in                                                                                                       |                          |                                                                                     |
| Joiningdate              | 16-02-2009                                                                                                                       |                          |                                                                                     |
| ProfessionalExperience   | 12 Years 02 months                                                                                                               |                          |                                                                                     |
| Total exp. in Veterinary | 21 years 07 months                                                                                                               |                          |                                                                                     |
| Jobprofile               | Teaching, Research, Extension                                                                                                    |                          |                                                                                     |
| Examsleared              | ICAR - NET(ASRB, NewDelhi)<br>CCC+(SPIPA, Surat)<br>HindiExam-10 <sup>th</sup> std. ( GSHSEB, Gandhinagar )                      |                          |                                                                                     |
| Significantaward         | Co-authored in Best Poster Presentation Award – 2011, 2014 and 2018                                                              |                          |                                                                                     |
| Publication              | Teaching Manual: 14                                                                                                              | Books:02                 |                                                                                     |
|                          | ASCAD Manual : 14                                                                                                                | Booklets : -             |                                                                                     |
|                          | Chapters inBook:01                                                                                                               | Lead Papers:-            |                                                                                     |
|                          | ResearchPapers:19                                                                                                                | VernacularArticles:09    |                                                                                     |
|                          | Research scheme completed :- 10<br>(As a PI – 02 and others as Co-PI -08)                                                        | Gujarati Pamphlet/s : 02 |                                                                                     |
|                          | Scientific Recommendations:--                                                                                                    | Abstracts :45            |                                                                                     |
|                          | Gene sequence submitted to NCBI<br>genebank : 05                                                                                 | TV talked delivered : 01 |                                                                                     |
| Research Plan Scheme     | Establishment of Regional Animal Disease Diagnosis and Research Laboratory(BH – 12049 since June 2012tillcontinue) <b>member</b> |                          |                                                                                     |
| Competencebuilding       | SummerSchool/WinterSchool/CAFT/Orientation:03                                                                                    |                          |                                                                                     |
|                          | Seminar/Symposium/Conference/Workshop/ Meet:35                                                                                   |                          |                                                                                     |
|                          | Shortcourses/Training:03                                                                                                         |                          |                                                                                     |
| ProfessionalMembership   | Laboratory Animal Science Association (LASA )                                                                                    |                          |                                                                                     |
|                          | Alumni Associationof Veterinary College Anand(AAVCA)                                                                             |                          |                                                                                     |
|                          | All Gujarat Veterinarians' Social Security Trust(AGVSST)                                                                         |                          |                                                                                     |
|                          | Gujarat Veterinary Association(GVA)                                                                                              |                          |                                                                                     |
|                          | The Gujarat Association of Agricultural Sciences(GAAS)                                                                           |                          |                                                                                     |
|                          | Society of Bio-safety (SBS)                                                                                                      |                          |                                                                                     |
|                          | Society of Veterinary Science & Biotechnology ( SVSBT)                                                                           |                          |                                                                                     |
|                          | Association for Prevention and Control of Rabies In India ( APCRI)                                                               |                          |                                                                                     |
|                          | Indian Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious Diseases(IAVMI)                    |                          |                                                                                     |

|                         |                                                                                                          |                               |                                                                                     |
|-------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| Name                    | <b>Dr. Pushpaben M. Makwana</b>                                                                          |                               |  |
| Designation             | Assistant Professor                                                                                      |                               |                                                                                     |
| Qualification           | Ph.D. (Veterinary Microbiology)                                                                          |                               |                                                                                     |
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| Joining date            | 27-02-2012                                                                                               |                               |                                                                                     |
| Total Experience        | 11.9 Years                                                                                               |                               |                                                                                     |
| Job profile             | Teaching, Research, Extension                                                                            |                               |                                                                                     |
| Exams cleared           | NET (ASRB, New Delhi)                                                                                    |                               |                                                                                     |
|                         | CCC+ (Gov. Polytechnic college, Palanpur)                                                                |                               |                                                                                     |
|                         | Hindi Exam SSC (GSEB, Gandhinagar)                                                                       |                               |                                                                                     |
| Publication             | Teaching / ASCAD Manual: 05                                                                              | Review article : 01           |                                                                                     |
|                         | Chapters in Book: 01                                                                                     | Paper presented: 04           |                                                                                     |
|                         | Research Papers: 22                                                                                      | Vernacular Articles: 01       |                                                                                     |
|                         | Abstracts: 11                                                                                            | Scientific Recommendations: - |                                                                                     |
| Research Scheme         | Establishment of Regional Animal Disease Diagnosis and Research Laboratory (Plan Scheme) - <b>Member</b> |                               |                                                                                     |
| Competence building     | Summer School/Winter School/CAFT/Orientation: 03                                                         |                               |                                                                                     |
|                         | Seminar/Symposium/Workshop: 22                                                                           |                               |                                                                                     |
|                         | Short courses/Training: 01                                                                               |                               |                                                                                     |
| Professional Membership | Member Vets Alumni Association Sardar Krushinagar, SDAU (VAAS)                                           |                               |                                                                                     |
|                         | Gujarat Veterinary Council (GVC)                                                                         |                               |                                                                                     |
|                         | All Gujarat Veterinarians Social Security Trust (AGVSST)                                                 |                               |                                                                                     |
|                         | Society for Biosafety, India                                                                             |                               |                                                                                     |
|                         | Association for Prevention & Control of Rabies in India (APCRI)                                          |                               |                                                                                     |
|                         | Society for Veterinary Sciences and Biotechnology (SVSBT)                                                |                               |                                                                                     |

## **NON TEACHING STAFF:**

|               |                                 |
|---------------|---------------------------------|
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|               |                            |
|---------------|----------------------------|
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| Designation   | Laboratory Technician      |
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