




**DEPARTMENT OF VETERINARY MICROBIOLOGY  
COLLEGE OF VETERINARY SCIENCE AND ANIMAL HUSBANDRY  
ACHARY NARENDRA DEVA UNIVERSITY OF AGRICULTURE AND  
TECHNOLOGY KUMARGANJ, AYODHYA (Uttar Pradesh)**



With establishment of College of Veterinary Science and Animal Husbandry under A.N.D. University of Agriculture and Technology, Kumarganj, Ayodhya (U.P.) in year 1999 and subsequently, admission of the first batch of B.V.Sc& A.H. students in year 2000, Department of Veterinary Microbiology came into existence in year 2000. Since then, department is offering B.V.Sc. & A.H. courses as per the Indian Veterinary Council Act – 1984, regulations as per Veterinary Council of India amended time to time.. The post Graduate programme leading to award of M.V.Sc. degree in Veterinary Microbiology and Ph. D. degree in Veterinary Immunology was started in year 2004 and 2010 respectively. Presently the M.V.Sc.(Veterinary Microbiology) and Ph.D (Veterinary Microbiology) degree programs are offered as per the recommendations of ICAR i.e. BSMA 2019.

1. **Faculty members:-**

A. **Teaching staff:-**

Name	Designation		Mobile No.	email Address
Dr. R.K.Joshi	Professor and Head		9451663077	<a href="mailto:rkjvet26@gmail.com">rkjvet26@gmail.com</a>
Dr.Vibha Yadav	Assistant Professor		9450423644	<a href="mailto:vibhavet2005@gmail.com">vibhavet2005@gmail.com</a>
Dr.R.P. Diwakar	Assistant Professor		9452488447	<a href="mailto:raj.diwakar74@gmail.com">raj.diwakar74@gmail.com</a>

B. **Non Teaching staff:**

Steno	01	Vacant
Lab Assistant	01	Shri Ayodhya Prasad Tiwari
Lab Technician	01	Vacant
Clerk	01	Shri Swami Nath Pal
Typist Clerk/Store keeper	01	Vacant
Animal Attendant	01	Shri Mata Badal
Sweeper	01	Ram Tirath

## 2. Courses Offered:-

### A. Under Graduate (B.V.Sc. & A.H.) courses: As per VCI, MSVE-2019

Veterinary Microbiology paper I
Veterinary Microbiology paper II

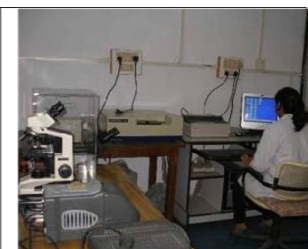
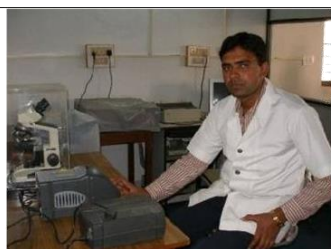
### B. Post Graduate (M.V.Sc.) courses:

Course Code	Title of the Course	Credit hr.
VMC501	General Bacteriology	2+1=3
VMC502	Systemic Veterinary Bacteriology	0+2=2
VMC503	General Virology	2+1=3
VMC504	Systemic Veterinary Virology	2+1=3
VMC505	Principle of Veterinary Immunology	0+2=2
VMC506	Veterinary Mycology	2+1=3
VMC507	Vaccinology	2+0=2
VMC508	Techniques in Microbiology	2+0=2
VMC509	Techniques in Molecular Microbiology	2+1=3
VMC510	Molecular Immunology	2+1=3
VMC511	Mucosal Immunology	2+1=3
VMC512	Introduction to Microbial Bio-Informatics	0+2=2
VMC591	Master's Seminar	0+2=2
VMC599	Master's Research	2+1=3

### Undergraduate students in practical class



### Post graduate students in practical class



### 3. **Facilities:-**

1. **Bacteriology and Mycology Lab.** - Well equipped Bacteriology laboratory with facilities of isolation and characterization of bacteria.
2. **Virology Lab-** Well equipped with egg inoculation booth and cell culture facilities.
3. **Veterinary Immunology Lab.** - Well equipped Immunology laboratory with diagnostic facilities.
4. **Molecular Biology Laboratory:** Well equipped molecular biology Laboratory with facilities of PCR and genomic characterization.
5. **Sterilization room**
6. **Cleaning washing and Media preparation room**
7. **Clinical Diagnosis laboratory:** Well equipped Clinical diagnosis laboratory to provide help in laboratory diagnosis of animal infectious diseases.

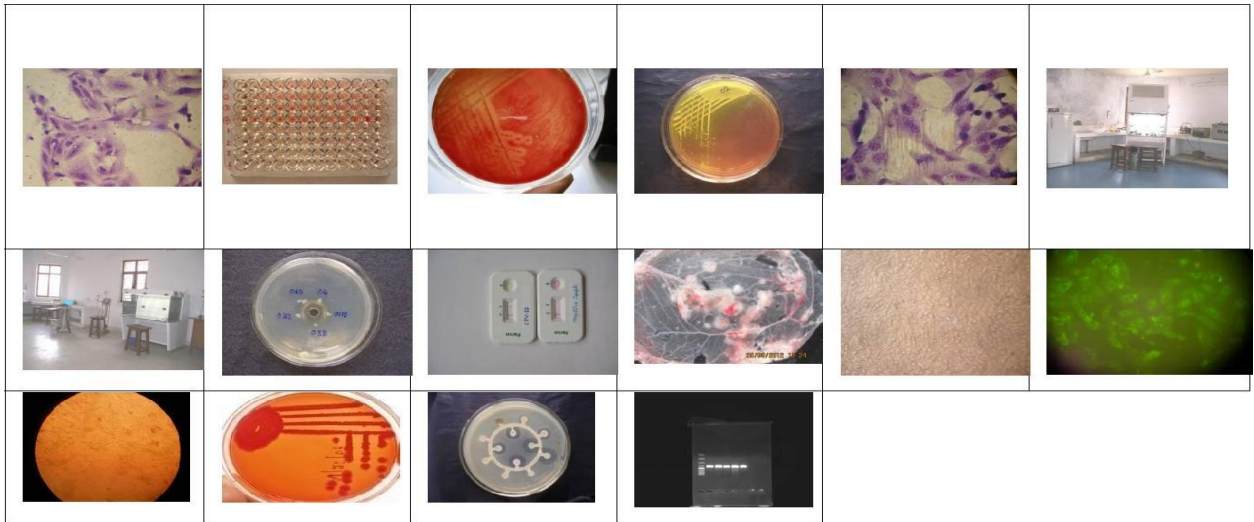
### 4. **Salient Achievements:-**

#### **Teaching:-**

- The department has developed practical manuals for undergraduate and Post graduate courses for giving first hand information to the students.
- Teaching materials in the form of Power point projections are developed for providing better reading materials to the students.

#### **Research:-**

- At least 200 *E.coli* serotypes are isolated and characterized from cases of calf diarrhea, poultry faces and meat and are maintained in the department.
- Infectious bursal disease virus was isolated and characterized from poultry farms in the region.
- Fowl pox virus was isolated and characterized from poultry farms in the region.
- New castle disease virus of poultry was characterized.
- Canine Parvo Virus was isolated and characterized from dogs in the region.
- Isolation and characterization of *Staphylococcus aureus* from cases of Bovine Mastitis.
- Isolation and characterization of Methicillin Resistant *Staphylococcus aureus* from cattle



### Extension:-

- Department is actively engaged in the extension activities in coordination with Department of Veterinary Extension and Directorate of Extension of the University.

### 1. Important Achievements:

- Molecular Veterinary Bacteriology Laboratory has been established in the department through NAHEP scheme in 2020.
- Dr. R. P. Diwakar was awarded Best Paper Presentation Award on world Rabies Day by Blue Cross – Society organized in College of Veterinary and Animal Sciences, Pantnagar, 2020.
- Dr. Vibha Yadav awarded with outstanding Microbiologist Award in recognition of novelty, valuable contributions and achievements by Green Agri Professional Society, Dhanbad Jharkhand in 2020.

### Current Projects:

- Project in hand :** FMD collaborating center (ICAR-National Institute on Foot & Mouth Disease (NIFMD)  
PI- Dr. R. K. Joshi (PI)  
Co PI- Dr. Namita Joshi  
Co-PI- Dr. Vibha Yadav
- Project sanctioned “Strengthening of Microbiology Laboratory with Advance Diagnostic Facilities for the Detection of Infectious Diseases in particular reference to Eastern Uttar Pradesh (RKVY)**

## 2. Important publications

Type of Publication	Author	Year	Title	Journal name	Vol.(No.) : pp	NAAS rating/Indexe d/ISSN no./Impact Factor
Research papers	Joshi, R.K., Chandra,R., Rao,V.D.P. and Garg,S.K.	1989	Coagglutination test: A simple and rapid diagnostic technique for goat pox.	Tropical Animal Health and Production,	21: 233-235.	(NAAS- 7.4)
	Joshi, R.K., Chandra, R., Rao, V.D.P. and Garg, S.K.	1990	Detection of goat pox antigen and antibody by counter immuno-electrophoresis.	Indian Journal of Animal Sciences	60: 34-35.	(NAAS- 6.6)
	Joshi, R.K. and Sharma, V.D.	1991	Detection of thermolabile phospholipase-C in the cell free supernatants of Salmonellas.	Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases	12: 153-157.	(NAAS- 3.0,
	Joshi,R.K., Chandra,R., Rao,V.D.P. and Garg, S.K.	1991	Passive haemagglutination test with goat pox virus.	Indian Journal of Veterinary Medicine,	11: 56-57.	NAAS- 4.0
	Joshi, R.K. and Dixit, V.P.	1993	Antibiogram of <i>Salmonella</i> isolated from processed food preparations	Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases	14: 45-46.	NAAS- 3.0
	Joshi, R.K., Chandra, R., Rao, V.D.P. and Garg, S.K.	1994)	Cytopathogenicity of goat pox virus	Indian Journal of Comparative Microbiology, Immunology and	15: 35-36.	NAAS- 3.0

				<b>Infectious Diseases</b>		
	<b>Joshi, R.K.</b> , Garg, S.K., Chandra, R. and Sharma, V. D.	1995	Growth and cytopathogenicity of goat pox virus in MDBK cell line.	<b>Indian Journal of Virology,</b>	<b>11:</b> 31-33.	NAAS- 6.7)
	<b>Joshi, R.K.</b> and Shakya, S.	<b>1997</b>	Rapid diagnosis of fowl pox with coagglutination assay.	<b>Tropical Animal Health and Production,</b>	<b>29:</b> 147-150.	(NAAS- 7.4)
	Shakya, S. and <b>Joshi, R.K.</b>	<b>1997</b>	Coagglutination test for rapid detection of infectious bursal disease virus antigen.	<b>Tropical Animal Health and Production,</b>	<b>29:</b> 105-107.	(NAAS- 7.4)
	Shakya, S., <b>Joshi, R.K.</b> , Gupta, N. and Chauhan, H.V.S.	<b>1999</b>	Organ culture of chicken bursa as a model to study the pathogenicity of infectious bursal disease virus isolates.	<b>Avian Diseases,</b>	<b>43:</b> 164-171.	(NAAS- 7.7)
	Shukla, V.K., Joshi, R.K., Joshi, N. and Kukreti, K.	<b>2011</b>	Canine parvovirus isolate FZB-1 capsid protein (VP2) gene, partial cds.	<b>GeneBank accession</b>	<b>JF95762 3.1.</b>	
	Tyagi, S.P., <b>Joshi, R.K.</b> and Joshi, N.	<b>2013</b>	Characterization and Antimicrobial Sensitivity of Staphylococcus aureus Isolates from Subclinical Bovine Mastitis.	<b>Journal of Animal Health and Production.</b>	1 (2): 20–23.	1 (2): 20–23.
	Dutta A., Joshi, N., Joshi, R.K. and Kamal, A.	<b>2014</b>	Molecular characterization of <i>e. coli</i> isolated from raw vegetable.	<b>Advances in Animal and Veterinary Sciences.</b>	2(1): 42 – 45.	2(1): 42 – 45.
	Diwakar, R.P., Joshi, N., Joshi, R.K. and Yadav, V.	<b>2014</b>	Isolation and antibiogram of enterobacteria associated with bovine calf diarrhea..	<b>Advances in Animal and Veterinary Sciences</b>	<b>2 (2S): 43-45.</b>	<b>2 (2S): 43-45.</b>

	Vibha Yadav, Joshi R.K., Joshi, N. and Diwakar, R.P..	<b>2014</b>	Congo red binding and Plasmid profile of <i>E. coli</i> Isolates of poultry Origin.	<b><i>Journal of Animal Health and Production</i></b>	<b>2 (3): 31 – 32.</b>	<b>2 (3): 31 – 32.</b>
	Verma, R.K., Joshi, R.K., Gangwar A.K., <b>Joshi, N.</b> and Shukla, S.	<b>2015</b>	Propagation of a field isolate of avian pox virus on chorioallantoic membrane of developing chicken embryo and in BGM-70 cell line.	<b><i>Journal of Pure and Applied Microbiology,</i></b>	<b>9(1):169-174.</b>	<b>9(1):169-174.</b>
	Verma, R.K., Joshi, R.K., Joshi, N. Gangwar. A.K. and Shukla, S.	<b>2015</b>	Study on Histopathological changes induced by fowl pox virus (FPV) in chorioallantoic membrane (CAM) of developing chicken embryo and immunological characterization of the egg adapted and cell culture grown virus.	<b><i>Journal of Pure and Applied Microbiology,</i></b>	<b>9(2): 134 9-1354.</b>	<b>9(2): 1349- 1354.</b>
	Verma, R.K., Joshi, R.K., and Shukla, S	<b>2015</b>	Identification of FPV by PCR amplification of p4b gene in infected cell culture and Chorioallantoic membrane. .	<b><i>Journal of Pure and Applied Microbiology,</i></b>	<b>9(4): Dec. 2015</b>	<b>9(4): Dec. 2015</b>
	Pandey, A, Joshi,N. Joshi, R.K., Prajapati, R. and Singh, A	<b>2016</b>	Virulence Attributes and Antibiotic Resistance Pattern of <i>E. coli</i> Isolated from Human and Animals.	<b><i>Asian Journal of Animal and Veterinary Advances,</i></b> 11: 67-72. DOI: <a href="https://doi.org/10.3923/ajava.2016.67.72">10.3923/ajava.2016.67.72</a> .		
	<b>Joshi, R.K.</b> , Chandra, R., Rao, V.D.P. and Garg, S.K	<b>1990</b>	Detection of goat pox antigen and antibody by counter immuno-electrophoresis.	<b>Indian Journal of Animal Sciences,</b>	<b>60: 34- 35. (NAAS- 6.6)</b>	<b>60: 34-35. (NAAS- 6.6)</b>
	<b>Joshi, R.K.</b> and Sharma, V.D.	<b>1991</b>	Detection of thermolabile phospholipase-C in the cell free supernatants of Salmonellas.	<b>Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases,</b>	<b>12: 153- 157. (NAAS- 3.0, 2007)</b>	<b>12: 153-157. (NAAS- 3.0, 2007)</b>



	<b>Joshi,R.K.</b> , Chandra,R., Rao,V.D.P. and Garg, S.K.	<b>1991</b>	Passive haemagglutination test with goat pox virus.	<b>Indian Journal of Veterinary Medicine,</b>	<b>11:</b> 56-57. (NAAS-4.0, 2007)	<b>11:</b> 56-57. (NAAS- 4.0, 2007)
	<b>Joshi, R.K.</b> and Dixit, V.P.	<b>1993</b>	Antibiogram of <i>Salmonella</i> isolated from processed food preparations.	<b>Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases,</b>	<b>14:</b> 45-46. (NAAS-3.0, 2007)	<b>14:</b> 45-46. (NAAS- 3.0, 2007)
	<b>Joshi, R.K.</b> , Chandra, R., Rao, V.D.P. and Garg, S.K.	<b>1994</b>	Cytopathogenicity of goat pox virus.	<b>Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases,</b> <b>15:</b>	35-36. (NAAS-3.0, 2007)	35-36. (NAAS- 3.0, 2007)
	<b>Joshi, R.K.</b> , Garg, S.K., Chandra, R. and Sharma, V. D.	<b>1995</b>	Growth and cytopathogenicity of goat pox virus in MDBK cell line.	<b>Indian Journal of Virology,</b>	<b>11:</b> 31-33. (NAAS-6.7)	<b>11:</b> 31-33. (NAAS- 6.7)
	Shakya, S. and <b>Joshi, R.K.</b>	<b>1995</b>	Preliminary characterization of a local isolate of contagious pustular dermatitis virus.	<b>The Indian Journal of Small Ruminants,</b>	<b>01:</b> 38-40. (NAAS-4.3)	<b>01:</b> 38-40. (NAAS- 4.3)
	Sharma, V.D., Dixit, V.P. and <b>Joshi, R.K.</b>	<b>1995</b>	Occurrence of <i>Salmonella</i> serovars in foods of animal origin with special reference to antibiogram and enterotoxigenicity.	<b>Journal of Food Science and Techonology,</b>	<b>32:</b> 221-223. (NAAS-6.8)	<b>32:</b> 221-223. (NAAS- 6.8)

	<b>Joshi, R.K.</b> , Garg, S.K., Chandra, R. and Sharma, V.D.	<b>1995</b>	Adaptation of goat pox virus in Vero cells.	<b>1. Indian Veterinary Medical Journal,</b>	<b>19:</b> 119-203	<b>19:</b> 119-203
	<b>Joshi, R.K.</b> , Shakya, S. and Gupta, N:	<b>1995</b>	Isolation of fowl pox virus from fowl pox vaccinated layer flock. <b>Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases, 16:</b> 138-140. (NAAS- 3.0, 2007)	<b>Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases,</b>	138-140. (NAA S- 3.0, 2007)	138-140. (NAAS- 3.0, 2007)
	Shakya, S., <b>Joshi, R.K.</b> and Ali, S.L	<b>1995</b>	Seroepidemiological survey of bovine brucellosis in a village of Madhya Pradesh.	<b>Indian Veterinary Journal,</b>	<b>72:</b> 1327-1328. (NAAS- 6.0)	<b>72:</b> 1327-1328. (NAAS- 6.0)
	<b>Joshi, R.K.</b> , Shakya,S. and Ali, S.L.	<b>1996</b>	Occurrence of contagious pustular dermatitis among goats in Madhya Pradesh.	<b>Indian Veterinary Journal,</b>	<b>73:</b> 04-06. (NAAS- 6.0)	<b>73:</b> 04-06. (NAAS- 6.0)
	<b>Joshi, R.K.</b> and Shakya, S.	<b>1996</b>	Studies on an infectious bursal disease outbreak in a commercial poultry farm in Madhya Pradesh.	<b>Indian Veterinary Medical Journal,</b>	<b>20:</b> 41-42.	<b>20:</b> 41-42.
	<b>Joshi, R.K.</b> ,Garg, S.K., Chandra, R. and Sharma, S.N.	<b>1996</b>	Growth behaviour of <b>sambalpur</b> strain of goat pox virus on chorioallantoic membrane of developing chicken embryo.	<b>Indian Journal of Virology,</b>	<b>12:</b> 109-111.	<b>12:</b> 109-111. (NAAS- 6.7)

	<b>Joshi, R.K.</b> and Shakya, S.	<b>1997</b>	Comparative evaluation of agar gel precipitation, Counter-immunoelectrophoresis and Coagglutination test for detection of infectious bursal disease virus antigen.	<b>Indian Veterinary Medical Journal,</b>	<b>2. 21: 1</b>	
	<b>Joshi, R.K.</b> and Garg, S.K	<b>1997</b>	The morphology and morphogenesis of goat pox virus isolate.	<b>Indian Journal of Virology,</b>	<b>13: 121-123.</b> (NAAS-6.7)	NAAS- 6.7
	Shakya, S., <b>Joshi, R.K.</b> and Ali, S.L.	<b>1997</b>	Seroprevalence of egg drop syndrome-76 virus in Chattisgarh region of Madhya Pradesh.	<b>Indian Veterinary Journal,</b>	<b>74: 370-372.</b>	NAAS- 6.0
	<b>Joshi, R.K.,</b> Shakya, S. and Hirpurkar, S.D.	<b>1998</b>	Passive haemagglutination test for detection of antibodies against infectious bursal disease virus.	<b>Indian Veterinary Journal,</b>	<b>75: 192-193.</b>	. NAAS- 6.0
	<b>Joshi, R.K.,</b> Shakya, S. and Hirpurkar, S.D.	<b>1998</b>	A rapid slide coagglutination test for detection of Egg drop syndrome-76 virus antigen.	<b>Indian Journal of Virology,</b>	<b>14: 159-161</b>	NAAS- 6.7
	<b>Joshi, R.K.</b> and Garg, S.K.	<b>1998</b>	Detection of goat pox virus antigen by reverse passive haemagglutination test.	<b>International Journal of Animal Science,</b>	<b>13: 99-100.</b> (NAAS-6.6)	NAAS- 6.6
	Gupta, N., <b>Joshi, R.K.</b> and Shakya, S.	<b>1998</b>	Encephalocoele in duck embryos.	<b>Indian Veterinary Journal,</b>	<b>75: 758.</b> (NAAS-6.0)	<b>75: 758.</b> (NAAS- 6.0)
	Mahajan, S.K., Shakya, S., <b>Joshi, R.K.,</b> Gupta, N. and Chauhan, H.V.S.	<b>1998</b>	Studies on etiopathology of fin rot disease in fry stage of <i>Labeo rohita</i> .	<b>International Journal of Animal Science,</b>	<b>13:</b>	<b>13: 115-116</b> 1 1 6 .

	<b>Joshi, R.K.</b> , Ali, S.L., Shakya, S. and Rao, V.N	<b>1999</b>	Clinico-epidemiological studies on a natural outbreak of goat pox in Madhya Pradesh.	<b>Indian Veterinary Journal,</b>	<b>76:</b> 279-281. (NAAS-6.0)	NAAS- 6.0
	<b>Joshi, R.K.</b> , Shakya, S., Gupta, N. and Rajagopal, S..	<b>2000</b>	Salmonellosis in a commercial layer flock.	<b>Indian Veterinary Medical Journal,</b>	<b>24:</b> 219-221.	.
	<b>Joshi, R.K.</b>	<b>2000</b>	Growth of a goat pox virus isolate on the chorioallantoic membrane of developing chicken embryo	<b>Indian Veterinary Medical Journal</b>	, <b>24:</b> 297-298.	
	<b>Joshi, R.K.</b>	<b>2001</b>	Physico-chemical characterization of 'Durg' isolate of goat pox virus.	<b>Indian Veterinary Journal,</b>	<b>78:</b> 369-370. (NAAS-6.0)	NAAS- 6.0
	Shakya, S., <b>Joshi, R.K.</b> , Tewari, S.K., Ali, S.L. and Pande, C.B	<b>2001</b>	Infectious Bursal disease of poultry: An investigation.	<b>Indian Veterinary Medical Journal,</b>	<b>25:</b> 38-40.	
	Bhonsle, D., <b>Joshi, R.K.</b> , Chaurasia, S.K. and Hirpurkar, S.D.	<b>2001</b>	Incidence of subclinical mastitis in relation to teat shape and quarters affected in buffaloes.	<b>Indian Veterinary Medical Journal,</b>	<b>25:</b> 83-84.	
	Shakya, S., <b>Joshi, R.K.</b> , Tewari, S.K., Ali, S.L. and Pande, C.B.	<b>2001</b>	Evaluation of <i>Wisprec</i> Cream against bacterial and fungal associated skin affections in parrots ( <i>Psittacula eupatria</i> ).	<b>Indian Veterinary Medical Journal</b>	, <b>25:</b> 85-87.	

	Namita Joshi, Garg, S.K. and <b>Joshi, R.K.</b>	<b>2002</b>	Effect of routes of inoculation on yield of R <sub>2</sub> B strain of Newcastle disease virus.	<b>Indian Veterinary Medical Journal,</b>	<b>26:</b> 343-344.	
	Gupta, N., Shakya, S. and <b>Joshi, R.K.</b>	<b>2004</b>	Haematological and pathological changes in experimental Egg- Drop Syndrom- 76 virus infection in laying hens.	<b>Indian Veterinary Journal,</b>	<b>81:</b> 137-139. (NAAS-6.0)	NAAS- 6.0
	Namita Joshi, <b>Joshi, R.K.</b> and Garg, S.K.	<b>2007</b>	Immunogenicity of R <sub>2</sub> B strain of Newcastle Disease Virus Adapted to Vero Cells.	<b>. Indian Journal of Animal Sciences</b>	<b>77:</b> 1108-1110. (NAAS-6.6)	NAAS- 6.6
	Kamana Dwivedi, <b>Joshi R.K.</b> , Joshi, N. Diwakar, R.P. and Niyogi, D.	<b>2007</b>	Isolation and Antibiogram of E.coli from Poultry in Purvanchal region of Uttar Pradesh.	<b>Indian Journal of Animal Health</b>	<b>46:</b> 77-80. (NAAS-3.0, 2007)	NAAS- 3.0
	Chandra, B., Niyogi, D., Ghosh, C.K., Shukla, V.K., <b>Joshi. R.K.</b> , Jana, S. and Mukhopadhyay, S.K.	<b>2008</b>	Incidence and pathomorphology of spontaneous <i>Escherichia coli</i> infection in broiler birds in two districts (Birbhum and Kolkata) of west Bengal.	<b>Journal of Interacademia</b>	<b>12(4):</b> 521-524.	
	Namita Joshi, <b>Joshi, R.K.</b> and Nagappa, K.	<b>2008</b>	Occurrence of Haemorrhagic Septicemia in Eastern Uttar Pradesh.	<b>Indian Journal of Veterinary Medicine</b>	28(2): 105-106. (NAAS-4.0, 2007)	NAAS- 4.0
	Diwakar, R.P. Joshi, N., Joshi, R.K., Niyogi, D. and Dwivedi, K.	<b>2008</b>	Serotyping and antibiogram of <i>E. coli</i> isolated from diarrheic calves.	<b>Indian Journal of Animal Health.</b>	<b>47 (2):</b> 119-121. (NAAS-3.0, 2007)	NAAS- 3.0

	Niyogi, D., Mohan, N.H., Singh, H.N., <b>Joshi, R.K., Pramanik, P.S.,</b> Mukhopadhyay, S.K. and Shukla, V.K.	<b>2008</b>	Pyelonephrotis in a tharparkar Hifer: A Pathological study.	<b>Journal of Interacademia,</b>	<b>13 (03):</b> 376-377. (NAA S-3.0)	NAAS- 3.0
	Vibha Yadav, Joshi, R.K. and Maurya, S.K.	<b>2009</b>	Isolation and identification, serotyping and antibiogram of <i>Escherichia coli</i> from diarrheic poultry.	<b>Journal of Veterinary Public Health,</b>	<b>07 (02):</b> 145-147. (NAA S-3.8)	NAAS- 3.8
	<b>Joshi, N.</b> and Joshi, R.K.	<b>2009</b>	Detection of Newcastle disease virus antigen by co-agglutination test using antibody coated <i>Staphylococcus aureus</i> .	<b>Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases,</b>	<b>30 (02):67-69 .</b> (NAAS-3.0, 2007)	NAAS- 3.0
	Bajpai, U.K., <b>Joshi, R.K.</b> and Joshi, N.	<b>2010</b>	Adaptation and characterization of field isolate of Infectious bursal disease virus in BGM-70 cells.	<b>Indian Journal of Animal Sciences, 80</b>	(12): 1179–81. (NAA S-6.6)	NAAS- 6.6
	Antimicrobial Resistance of <i>E. coli</i> Isolated from Chickens in two districts (Faizabad and Sultanpur) of Uttar Pradesh.	<b>2009</b>	Antimicrobial Resistance of <i>E. coli</i> Isolated from Chickens in two districts (Faizabad and Sultanpur) of Uttar Pradesh.	<b>Indian Journal of Animal Health, 48</b>	<b>(01):</b> 59-61. (NAAS-3.0, 2007)	NAAS- 3.0

	Shukla, V.K., Joshi, R.K. and Joshi, N.	<b>2010</b>	comparative efficacy of haemagglutination test, co-agglutination test and polymerase chain reaction for detection of canine parvovirus antigen in fecal samples.	<b>Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases,</b>	<b>31(01 &amp; 02): 67-68.</b> (NAAS-3.0, 2007)	NAAS- 3.0
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VMC- 211	Joshi, R.K. and Namita pp 46.	2001	Joshi Practical Manual on General Veterinary Bacteriology
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VMC-221	Vibha Yadav, R.K.Joshi and R.P.Diwakar.	2013	Veterinary Immunology and Serology
VMC-311	R.P.Diwakar, R.K.Joshi and Vibha Yadav.	2013	Systemic Veterinary Bacteriology and Mycology
VMC- 321	R.P.Diwakar, R.K.Joshi and Vibha Yadav.	2013	Systemic Veterinary Virology
<b>Manuals are prepared as per New VCI (03 manuals)</b>			
Unit-1	<b>R.P.Diwakar</b> , R.K.Joshi and Vibha Yadav.	2018	General and Systematic Veterinary Bacteriology
Unit-5	Vibha Yadav, R.K.Joshi and <b>R.P.Diwakar</b>	2018	Veterinary Immunology and Serology
Unit-3	<b>R.P.Diwakar</b> , R.K.Joshi and Vibha Yadav.		Veterinary Mycology

<b>Book/ Book chapter</b>	<b>Author</b>	<b>Year</b>	<b>Chapter title</b>	<b>Book name</b>	<b>Publisher</b>	<b>ISBN/CAS/C AFT/ Without ISBN</b>
	R.K. Joshi, Vibha Yadav, R.P.Diwakar, Prerit Kumar Singh and Shivendra Pratap Singh	2016	Antibiotic resistance: Implications for a post antimicrobial Era	Role of veterinarians in safe, sufficient and sustainable animal health and production		978935311694 1
	R.P.Diwakar, V. Yadav, R.K. Joshi, P.K. Singh, Rishikant, D. Niyogi and K.K. Tripathi	2018	Role of veterinarians in the challenge of livestock health, welfare and food security	Strategies and challenges of veterinary profession to improve livelihood, food security and safety		978-93-5311- 013-0
	V. Yadav, R.K. Joshi and R.P. Diwakar	2018	A review on epidemiology and diagnosis of Brucellosis in India	Strategies and challenges of veterinary profession to improve livelihood, food security and safety		978-93-5311- 013-0
	V. Yadav, R.K. Joshi and R.P. Diwakar	2020	Symptoms and transmission of covid- 19 with special reference to immunodiagnostic approches	International conference e Book “ Immunology in 21 <sup>st</sup> Century for Improving One-Health	Society of Immunology and Immunopathology, India	978935408664 9
<b>Awards &amp; Recognition</b>	<b>Program/ Event</b>					<b>Year</b>
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Project in hand/ project completed	One project in hand : FMD collaborating centre (National Institute on Foot &Mouth Disease (ICAR-NIFMD) 1. Dr. R. K. Joshi (PI)					ICAR-NI FMD

	2. Dr. Namita Joshi (Co-PI) 3. Dr. Vibha Yadav (CO-PI)	
	One project sanctioned from RKVY ON <b>“Strengthening of Microbiology Laboratory with Advance Diagnostic Facilities for the Detection of Infectious Diseases in particular reference to Eastern Uttar Pradesh.</b>	RKVY

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