

वार्षिक प्रतिवेदेन



Report 2018-2019 बिहार पशु विज्ञान विश्वविद्यालय, पटना- 800 014 (बिहार) बिहार पशु विज्ञान विश्वविद्यालय, पटना- 800 014 (बिहार)

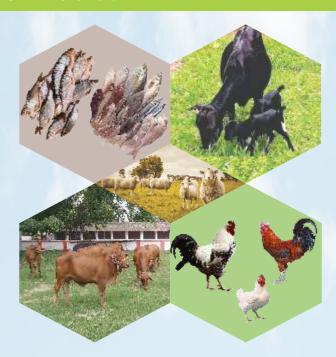
Report 2018-2019





Bihar Animal Sciences University, Patna-800014

Report 2018-2019



Bihar Animal Sciences University, Patna (Published on behalf of University)

CHIEF EDITOR

Dr. Ravindra Kumar, Director Research

COMPILED BY:

Dr Ravi Ranjan Kumar Sinha Dr Imran Ali Dr Awdehsh Jha Dr Saroj Kumar Rajak Dr Binita Rani Dr Mamta Singh

Bihar Animal Sciences University Bihar Veterinary College Campus, Patna- 800014 (Bihar), India

Tel. No.: 0612-2227251

Email: drcellbasu@gmail.com Website: www.basu.org.in

Printing:

First Print- 7992457574

Dr. Rameshwar Singh Vice-chancellor



PREFACE

I deem it a privilege to present before you the Annual report of Bihar Animal Sciences University (BASU) for 2018-19. BASU has been carved out of Bihar Agricultural University through the BASU Act notified in the Gazette on 29th August, 2016. The university became operational in the Month of June 2017. In a short span of one year, the university has taken rapid strides in all directions.

The academic standards have been reinforced while ensuring transparency in administration. Teaching infrastructure, laboratory & field facilities, and allied amenities for students and faculty are being upgraded. These measures have started revamping the image of BASU in the country as evident from increasing number of potential employers coming to our campuses for placement of our students. Post Graduate admissions are being done through entrance examination conducted by the university. Application of information technology is helping in transparency in all spheres of management including procurement of goods through GeM Portal. The university library is being revamped including digitization of theses and availability of eresources. The university has added to the physical infrastructure through renovation of old buildings and reclaiming a significant portion of land through removal of encroachment.

Recruitment of senior officers, other officials and teachers has strengthened the human resources in BASU. The new College of Fisheries at Kishanganj has been established and started its academic journey with the admission of first batch of undergraduate students. The college aims to fulfill the aspirations of state towards self-reliance in fish production and nutritional security by

training of human resource and provision of technical support to the state.

Outreach to farmers is being channelized through health camps in different locations in the state and training of farmers on regular basis. The know-how and training given to the animal owners will help strengthen the animal husbandry sector in the state, while improving the income

and livelihood prospects of the farmers.

In the field of research, the faculty has initiated new projects through securing competitive grants from external funding agencies. Faculty members are being encouraged to make proposals for in-house research projects as well. New schemes from Central Government and Rashtriya Krishi Vikas Yojna are expected to be sanctioned in coming months. University organized four National Seminars and Annual Conferences of leading professional societies during the year, which provided ample opportunity for showcasing the University activities, developing linkages and collaborations.

Students and faculty of BASU continue to strive hard in bringing laurels and touch new vistas in academic, extracurricular and professional domains and have won several awards at regional and national levels. A large number of trainings of faculty and students have been organized. I am thankful to the expert resource persons for accepting our invitation to conduct these trainings.

At the end I congratulate the editorial team for their hard work in compiling this document.

(Rameshwar Singh)

CONTENTS

Sl.	Topic	Pg. No.
1.	About the University	1-2
	University Administration	3-11
	Board of Management	
	Academic Council	
	Research Council	
	Extension Council	
	Appointments	_ W
	Comptroller	12-15
	Budget	
	Constituent Colleges	15-26
	Bihar Veterinary College	15-19
	Sanjay Gandhi Institute of Dairy Technology	19-20
	College of Fisheries	20-26
2	Teaching	26
3	Post graduate Studies	27
4	Research	28-36
	Research Projects	
	Regional farms	
	Salient achievements	
5	Students Welfare	36-45
	Cultural & Literary	
	NSS	
	Sport	
	NCC	
6	Extension Education	46-58
	KVK	
7	Training Public Relations	
/		59
8	University Library	59-64
9	Research Publications	65-71
10	Award & Honours	71-72
	Appendices	73-77
	List of faculty & Staff	

About the University

Bihar Animal Sciences University (BASU) has been established with its headquarter at Patna through an act of Bihar State (BASU Act No. 15 of 2016, notified in the Bihar Gazette on 29 August 2016). The new University has been carved out of the Bihar Agricultural University as two of its constituent colleges at Patna viz. Bihar Veterinary College and Sanjay Gandhi Institute of Dairy Technology, whereas a new College of Fisheries has been established and started functioning at Kishanganj. To further expand the horizon of the University and strengthen the research and outreach, following research institutes, stations and substations are being transferred to the University viz. Institute of Animal Health and Production, Patna, Exotic Cattle Breeding Farm, Patna, Central Poultry Farm, Patna, Government Cattle Farm, Gaya while Government Buffalo Farm, Sipaya (Gopalganj) has already been transferred. The University headquarters located near Jai Prakash Narayan International Airport, Patna.

The basic objective of the University is to impart education in Veterinary Science, Animal Husbandry, Poultry, Fisheries, Dairy and other allied branches and to promote the advancement of learning and conduct of research, extension education in the field of Veterinary and Animal Sciences and other allied sciences. The University is also striving to establish partnership with the industries and other entities working in the field of animal science, dairy sciences and fisheries sciences.

In short span of time university has introduced many administrative reforms like punctuality through biometric attendance, e-pay rolls and addressing to long pending cases of employee's grievances. On academic front, academic calendar is being enforced and students profile management through software "Chanakya" which will help in timely declaration of results. Students are participating in various cultural and Sports activities. The university follows policy of Zero tolerance" for anti-ragging activities, and same is being monitored through different committees.



Salient University Activities:

- A "Dog Show cum beauty contest" was organised on 2nd March 2019 in which 85 dogs of different breeds were registered and participated.
- MoU between Bihar Animal Sciences University and Sanjay Gandhi Biological Park, Patna has been signed for the mutual benefits. Undergraduate students are attending their courses related to Wild/Zoo animals at Patna Zoo.
- World No Tobacco day was celebrated on 31st May 2019 by the students of this College and awareness procession was marched to create ill-effect of consuming tobacco among the public.
- "World Yoga Day" was celebrated on 21st June 2019 in which all the faculty members, staffs, students and their family members participated.
- "World Zoonosis Day" was organized by Bihar Veterinary College, Patna on 6th July 2019 in which awareness against Zoonotic diseases was created and all the staffs and students involved in handling Clinical cases were vaccinated against rabies.

Objectives

- To impart education in Veterinary Science, Animal Husbandry, Poultry, Fisheries, Dairy and other allied branches of learning and scholarship;
- To further the advancement of learning and conducting of research, particularly in Veterinary and Animal Sciences and other allied sciences;
- To undertake the extension education of such sciences and technologies that are relevant for the rural people of the state;
- To facilitate and ensure qualitative improvement in the teaching and learning processes and methodology;
- To facilitate and ensure quality research in the contemporary and frontier areas of animal science and technologies;
- To facilitate the need for an organized process of life long learning;
- To disseminate knowledge and findings emerging in the University, its colleges, and institutions;
- To establish partnerships with the industries and other entities working in animal science, dairy sciences and fisheries sciences.
- To establish Hospital for treatment/research-role of the University;
- Such other purposes as the University or Government may from time to time determine.



Administration

Members of Board of Management

S.No.	Name & Designation	Position
1.	Dr. Rameshwar Singh, Vice-Chancellor, BASU, Patna	Chairman
2.	Secretary, Department of Animal and Fisheries Resources, Govt. of Bihar	Member
3.	Principal Secretary, Department of Finance, Bihar, Patna	Member
4.	Director, Animal Husbandry, Bihar, Patna	Member
5.	Director (Dairy), Department of Animal and Fisheries Resources, Govt. of Bihar	Member
6.	Dr Anil Kumar Srivastava, Chairman (Additional Charge) and Member, Agricultural Scientists Recruitment Board, New Delhi.	Member
7.	Dr. Shiva Dhar Singh, Former Assistant Director General (Fisheries) ICAR, New Delhi.	Member
8.	Sri Niranjan Singh, Progressive Farmer, Samastipur	Member
9.	Sri Sudhanshu Kumar, Agri-Entrepreneur, Bihta, Patna	Member
10.	Dr. Usha Sharma, Distinguished Women Social Worker	Member
11.	DRI-cum-Dean PGS, BASU, Patna	Member
12.	Dean, SGIDT, Patna	Member
13.	Registrar, BASU, Patna	Member Secretary

Academic Council

S. No.	Name & Designation	Position
1.	Dr. Rameshwar Singh, Vice-Chancellor, BASU, Patna	Chairman
2.	Dr. Ashok Kumar, ADG (Animal Health) ICAR, New Delhi)	Member
4.	Director Resident Instruction -cum- Dean, PGS, BASU, Patna Patna	Member
5.	Dr. Ravindra Kumar, Director Research, BASU, Patna	Member
6.	Dr. R.K. Trivedi, Director Student Welfare, BASU, Patna	Member

7.	Dr. A.K. Thakur, Director Extension Education, BASU, Patna	Member
8.	Dr. J.K. Prasad, Dean, BVC, Patna	Member
9.	Dr. B.S. Beniwal, Dean, SGIDT, Patna	Member
10.	Dr. K.G. Mandal, OSD, COF, Kishanganj	Member
11.	Dr. Hansraj, Advisor, ICT & Library, University Librarian-cum-Information Officer	Member
12.	Dr. Chandramoni, Univ. Professor & Head, Animal Nutrition, BVC, Patna	Member
13.	Dr. J. Badshah, Univ. Professor & Head, Dairy Engg.,SGIDT, Patna	Member
14.	Dr. Ajit Kumar, HOD, Vety. Parasitology, BVC, Patna	Member
15.	Dr. Sanjeev Kumar, Associate Prof., Dairy Technology, SGIDT, Patna	Member
16.	Dr. Rakesh Kumar, HOD, Dairy Microbiology, SGIDT, Patna	Member
17.	Dr. P.K. Kapoor, Registrar, BASU, Patna	Member Secretary

Research Council

S. No.	Name & Designation	Position
1.	Dr. Rameshwar Singh, Vice-Chancellor, Bihar Animal Sciences University, Patna	Chairman
2.	Director Resident Instruction-cum - Dean PGS, BASU, Patna	Member
3.	Dr. A K. Thakur, Director of Extension Education, BASU, Patna	Member
4.	Director of Animal Husbandry, Govt. of Bihar (Ex-Officio Member)	Member
5.	Director of Dairy, Govt. of Bihar (Ex-Officio Member)	Member
6.	Director of Fisheries, Govt. of Bihar (Ex-Officio Member)	Member
7.	Director of Agriculture, Govt. of Bihar (Ex-Officio Member)	Member
8.	Dr. J K Prasad, Dan, Bihar Veterinary College	Member
9.	Dr. B S Beniwal, Dean, Sanjay Gandhi Institute of Dairy Technology	Member
10.	Dean, College of Fisheries, BASU, Patna	Member
11.	Heads of Departments and Units of BASU	Member

12.	All University Professors	Member
13.	Dr. N. K. Sharma, Controller of Examinations, GADVASU (Member nominated by VC)	Member
14.	Dr. Inderjeet Singh, Director, Govt of Punjab (Member nominated by VC)	Member
15.	Sri Vivekanand Singh, Dairy Farmer, Darbhanga	Co-opted Member
16.	Sri Abhay Kumar Singh, Poultry Farmer, Siwan	Co-opted Member
17.	Sri Satyendra Singh, Director, M/s Anuj Dairy, Nala Road, Patna	Co-opted Member
18.	Sri Arun Kartik, Managing Director, M/s Suguna Feed, Patna	Co-opted Member
19.	Dr. Ravindra Kumar, Director Research, BASU, Patna	Member Secretary

Extension Council

S. No.	Name & Designation	Position
1.	Dr. Rameshwar Singh, Vice-Chancellor, Bihar Animal Sciences University, Patna	Chairman
2.	DRI cum Dean PGS, BASU, Patna	Member
3.	Dr. Ravindra Kumar, Director of Research	Member
4.	Director of Animal Husbandry, Govt. of Bihar	Member
5.	Director of Dairy, Govt. of Bihar	Member
6.	Director of Fisheries, Govt. of Bihar	Member
7.	Director of Agriculture, Govt. of Bihar	Member
8.	Dr. J K Prasad, Dean, Bihar Veterinary College	Member
9.	Dr. B. S. Beniwal, Dean, Sanjay Gandhi Institute of Dairy Technology	Member
10.	Dr K G Mandal, OSD, College of Fisheries Sciences	Member
11.	Head of Departments and Units of BASU	Member
12.	All University Professors	Member
13.	Dr. R. K. Jat, Incharge, Borlaug Institute for South Asia,(BISA)Pusa, Bihar	Member
14.	Dr. H. K. Verma, Director of Extension Education, GADVASU	VC's Nominee

15.	Mr Abhay Kumar, Progressive Poultry farmer, Siwan, Bihar	VC's Nominee
16.	16. Mr Vivekanand Singh, Progressive Dairy farmer, Darbhanga, Bihar	
1.7	Mr Rakesh Kumar Kashyap, Progressive Fisheries farmer,	VC's Nominee
17.	Muzaffarpur, Bihar	
18.	Dr. A. K. Thakur, Director, Extension Education, Bihar	Member Secretary
18.	Animal Sciences University	Member Secretary

Finance Committee

S. No.	Name & Designation	Position
1.	Dr. Rameshwar Singh, Vice-Chancellor, BASU, Patna	Chairman
2.	Secretary, Department of Finance, Government of Bihar	Member
3.	Dr. Usha Sharma, Non official member of the Board of Management	Member
4.	Dr. Ravindra Kumar, Director Research, BASU, Patna	Member
5.	Dr. A.K. Thakur, Director Extension Education, BASU, Patna	Member
6.	Financial Comptroller	Member Secretary

Officers and Deans of Bihar Animal Sciences University

S. No	Name of the position	Name of the Officer (at present)
1.	Vice-Chancellor	Dr. Rameshwar Singh
2.	Registrar	Dr. P.K. Kapoor
3.	DRI-cum-Dean PGS	Dr. Ravindra Kumar, (Additional charge)
4.	Director Research	Dr. Ravindra Kumar
5.	Director Students Welfare	Dr. R.K. Trivedi
6.	Director Extension Education	Dr. A.K. Thakur
7	Dean, BVC	Dr. J.K. Prasad
8	Dean, SGIDT	Dr. B.S. Beniwal
9	OSD, COF, Kishanganj	Dr. K.G. Mandal
10	Finance Comptroller	Sri G.C. Prasad
11	Director Work and Plants	Er. Ranjan Kumar
12	Estate Officer	Sh R M Chayal
13	Public Relation Officer	Sri Satya Kumar

Recruitment Cell

1. Appointment of University Officers through Direct Recruitment: Advertised vide Emp. No. 02/18 and 05/18, applications were screened and interview organized. Prior to interview for the post of Assistant Security Officer this Physical Fitness Test was also conducted for the better selection of the candidate for the post of Assistant Security Officer. Issuing of Appointment letter and process of acceptance of joining is the part of recruitment cell. Following officers were selected:

S. No.	Name	Post	Date of
		33,312.0	appointment
1.	Dr. P.K. Kapoor	Registrar	02.04.2018
2.	Dr. H.M. Saxena	DRI cum Dean PGS	02.04.2018 Resigned w.e.f. 30.06.2019
3.	Dr. Ravindra Sharma	Director Research	02.04.2018
			Resigned w.e.f.17.05.2018
4.	Dr. Ravindra Kumar	Director Research	22.05.2018
5.	Mr. Girish Chandra Prasad	Comptroller	02.04.2018
6.	Mr. Satkhojan	Assistant Estate Officer (Elect.)	11.04.2018
7.	Mr. Sanjay Kumar	Secretary to VC	14.05.2018
8.	Mr. Satya Kumar	Public Relation Officer	24.08.2018
9.	Mr. Ram Shankar Choudhary	Assistant Security Officer	27.10.2018
10.	Dr. Raman Kumar Trivedi	Director Student Welfare	30.05.2018

2. Appointment of Deans of Colleges under BASU through direct recruitment: Advertised vide Emp. No. 12/18 and 13/18, applications were screened and interview organized. Following were selected by selection committee:

Sl.	Name	Post	Date of appointment
No.			
1.	Dr. J. K. Prasad	Dean, Bihar Veterinary	27.01.2019
		College, Patna	
2.	Dr. B.S. Beniwal	Dean, Sanjay Gandhi	27.01.2019
		Institute of Dairy	
		Technology, Patna	

3. Appointment of Non-Teaching Staff of College of Fisheries under BASU through direct recruitment: These posts were Advertised vide Emp. No. 11/18, applications were screened and interview organized. prior to this written exam was also conducted for the better selection of the candidate for the post of Library Assistant:

4. Appointment of University officer on Walk -in-Interview organized:

Sl. No.	Name	Post	Date of appointment
1.	Mr. Ram Murty Chayal	Deputy Estate Officer (Civil)	05.11.2018

- **5. Roster Clearance:** For the roster clearance of altogether 22 administrative and supporting posts of BASU, files and roster registers were prepared, processed and then sent to office of commissioner, Patna which was dully accomplished as per GAD, Bihar circular 2622, Gov. Bihar by office of Divisional Commissioner, Patna.
- **6. Guest Faculty –cum –Assistant Professor: Walk** -in-Interview was organized for the appointment of **Guest Faculty-Cum Assistant Professor College** of Fisheries, Kishanganj under BASU on contractual basis advertised vide Emp. No. 10/18:

Sl.	Name	Post	Date of
No.			appointment
1.	Amit Ranjan SangitaKumari	Aquaculture	28.09.2018
2.	BhartenduVimal (not joined)	Aquatic Ani. Health Management	28.09.2018
3.	RashmiPrabha Mishra (Not joined)	Aquatic Environment Management	28.09.2018
4.	Mr.RaviSankhar Kumar Mr.Narendra Kumar Varma	Fisheries Extension and Statistics	28.09.2018
5.	Dr.Mamta Singh	Fisheries Recourse Management	28.09.2018
6.	Dr.Abhishk Thakur	Fish Processing Technology	28.09.2018

7. Regularization of Casual workers: In the light of the judgement passed by Hon'ble high Court, Patna on dated 06.07.2018 and 23.07.2018 in CWJC No. 15541, 15555, 15459, 15500, 15515, 15446, 15545, 15538, 15542, 15501/2012 & 15567/2012 decision was taken to regularize the services of 12 casual workers against sanctioned posts of Bihar Veterinary College, Patna as follows: -

Sl.	Name	Post	Date of
No.		0.000	appointment
1.	Mr. Munna Ram,	Head Dome	06.07.2018
2.	Mr. Vishnu Dutt Singh,	LDC	06.07.2018
3.	Mr. Surendra Prasad,	Daftary	06.07.2018
4.	Mr. Yogendra Singh,	LDC	06.07.2018
5.	Mr. Mani Chand	Lab. Attendant	06.07.2018
6.	Mr. Sheo Kumar Singh	Security Guard	06.07.2018
7.	Mr. Kaushal Kishore Thakur	Security Guard	06.07.2018
8.	Mr. Promod Kumar Singh	Animal Attendant	06.07.2018
9.	Mr. Ramakant Singh Jagmohan	Lab. Attendant	06.07.2018
10.	Mr. Ramadhar Rai	Sayees	06.07.2018
11.	Mr. Lalan Kumar Singh	LDC	06.07.2018
12.	Sh. Chhabila Prasad	Darban	06.07.2018

8. Regularization of contractual workersof BVC & SGIDT, Patna: In the light of the judgement passed by Hon'ble high Court, Patna on dated 06.07.2018 and 23.07.2018 in CWJC No. 15541, 15555, 15459, 15500, 15515, 15446, 15545, 15538, 15542, 15501/2012 & 15567/2012 decision was taken to regularize the services of similarly situated 21 casual workers against sanctioned posts of Bihar Veterinary College, Patna and Sanjay Gandhi Institute of Dairy Technology, Patna vide (O.O. 476/Reg./BASU, Patna dated 09.03.2019) as follows: -

Sl.	Name	Post	Date of
No.			appointment
1.	Pramod Kumar Singh	Lab. Attendant	06.07.2018
2.	Upendra Rai	Security Guard	06.07.2018
3.	Dinesh Kapar	Daftary	06.07.2018
4.	Rupan Ram	Security Guard	06.07.2018
5.	Vimlesh Prasad Singh	LDC	06.07.2018
6.	Anil Ram	Sweeper	06.07.2018
7.	Shambhu Kumar	LDC	06.07.2018
8.	Ajay Kumar	LDC	06.07.2018
9.	Brajmohan Singh	SwarSubedar	06.07.2018
10.	Brajendra Kumar Singh	Animal Attendant	06.07.2018
11.	Umakant Prasad	Syce	06.07.2018

12.	Anil Kumar	Syce	06.07.2018
13.	Yogendra Prasad	Syce	06.07.2018
14.	JairamSah	Syce	06.07.2018
15.	PappuRajak	LDC	06.07.2018
16.	Vikas Kumar	LDC	06.07.2018
17.	Deepak Kumar	LDC	06.07.2018
18.	Sugan Devi	Sweeper Cum Attendant	06.07.2018
19.	Rajan Ram	Sweeper Cum Attendant	06.07.2018
20.	Pradeep Ram	Sweeper Cum Attendant	06.07.2018
21.	Bilas Ram	Sweeper Cum Attendant	06.07.2018

9. Appointment of Adjunct Professors: In order to establish useful and viable collaboration with other University and provide excellent academic environment in the Faculty of Dairy & Fishery, Bihar Animal Sciences University, Patna, Bihar, BASU appointments of Adjunct Professors for the colleges of CoF, Kishanganj and SGIDT, Patna were done as follows: -

College of Fisheries, Kishanganj:

- 1. Dr. Ashim K. Pal
- 2. Dr. P. Keshv Nath
- 3. Dr. S. M. Shivaprakasha
- 4. Dr. Mrs. Rani Dhanze
- 5. Dr. B. Hanumanthappa
- 6. Dr. Chandra Prakash

Sanjay Gandhi Institute of Dairy Technology, Patna

- 1. Dr. J. B. Prajapati
- 2. Dr. Bimlesh Mann
- 3. Dr. Anil Kumar Puniya
- 4. Dr. G. R. Patil
- 5. Dr. R. S. Dalal
- 6. Dr. Y. S. Rajput

10. Appointments on Compassionate Ground

- 1. Syed Mosaveer Hussain LDC, BVC, Patna
- 2. Shri Rambali Das Dog-ward Overseer
- 11. Absorption of Employees of KVK, Jamui, in BASU: In view of transfer of Krishi Vigyan Kendra, Jammui from Shrambharti Khadigram to Bihar Animal Sciences University, Patna in light of MoU signed between ICAR and BASU, following employees enrolled in KVK (ICAR), Jammui have been absorbed under Administrative and Financial control of BASU.

S. No.	Name	Post
1.	Dr.Sudhir Kumar Singh	Sr. Scientist & Head
2.	Mr. Brajesh Kumar	SMS (Soil Sc.)
3.	Dr.Pramod Kumar Singh	SMS (Agronomy)
4.	Mr. Rohit Singh	Farm Manager
5.	Mr. Shankar Kumar	Stenographer
6.	Mr. Ashok Tamoli	Drive-cum-Mechanic
7.	Mr. Kedar Paswan	Drive-cum-Mechanic
8.	Mr. Vijay Shankar Tomar	Supporting Staff
9.	Mrs. Rashmi Kumar Rani?	SMS (Horticulture)
10.	Mr. Sanjay Kumar	Programme Assistant
11.	Mr. Rakesh Kumar	Programme Assistant (Computer)
12.	Mr. Arun Kumar Shukla	Assistant

12. Appointments under GKMS Project in KVK, Jamui: Appointment of SMS Agrometerology and Agromet Observer, KrishiVigyanKendra, Jamui running under Bihar Animal Sciences University, Patna for "Gramin Krishi Mousam Sewa" on Contract basis.

S. No.	Name	Post	Date of appointment
1	SMS Agrometrology	Shri Abhijeet Sharma	08.08.2019
2	Agromet Observer	Shri Ravi Kumar	08.08.2019

- **13. Reappointment of Store Clerks:** In the light of the judgement passed by Hon'ble high Court, Patna on dated 16.05.2019 in CWJC No. 2082/17, 16423/13, 5134/15, 13214/16 and 13064/16 decision was taken to reappoint of 5 Store clerks against sanctioned posts of Sanjay Gandhi Institute of Dairy Technology, Patna vide (O.O. 241/Reg/Rect./BASU, Patna dt. 12.09.2019) as follows: -
 - 1. Shri Deepak Kumar
 - 2. Shri Ashok Kumar Singh
 - 3. Shri Teju Kumar
 - 4. Shri Shankar Ram
 - 5. Shri Umesh Chandra
- **14.** Faculty wise Roster Clearance (University Professor, Associate Professor and Assistant Professor) of all Colleges under BASU under BASU under provisions of GAD- 2693 dated 27.02.2019 and others.
- **15.** For recruitment of staff Online CBT exam invited tender processed, Agreement done between BASU and M/s Ediuity. Development of question bank, formalities of conduct of CBT exam, process of filling of online application form are ongoing.

Finance Comptroller

The office of the comptroller BASU came into existence after appointment of the first comptroller of the University in Aug. 2017. In June 2018, a detailed planning for establishing the financial system for the University was carried out. The principal of this plan can be explained as:"to modify the present financial management of the university into an efficient, effective, transparent, vibrant and continuously learning financial management system using the best combination of human capabilities and technology".

Establishing Comptroller Office and Capacity Building

There was acute shortage of staff in comptroller office located at head quarter of University as well as in Bihar Veterinary College and Sanjay Gandhi Institute on Diary Technology. Two Assistant Comptrollers and seven staff were working strength in these units. At the university headquarter, there was no clerical staff. Also, these staff possessed very limited capacity and the need of building their capacity was essentially felt. Because of their limited size, it was extremely difficult to train them at colleges where they were posted. Under these backgrounds, this was a big challenge to meet out the service expectations of different stake holders. So it was decided to unify the comptroller office at the head quarter by shifting all five staff and two Assistant to the office of Comptroller situated in the Head Quarter the university. It is decided that all functions related to comptroller office with respect to colleges as well as head quarter will be carried out from this-unified office of the comptroller. Such functions include budgeting, auditing, concurrence over expenditure proposal, unit and project wise accounting and timely reporting to different decision makers. For smooth functioning of comptroller office requirement of nine sub functional units like salary, retirement benefits, accounting, document tracking, payment, Comptroller secretariat etc. were created. But it was difficult to operationalize nine sub units with just five permanent staff. Hence, it was decided to create a team of properly qualified energetic young persons who are well acquainted with computer and IT and adequately experienced retired staff who are well versed with Rules and practices by hiring them through outsourcing services. So the staff of comptroller office will be from two sources: from permanent staff pool of University and staff engaged through outsourcing. Staff available in this way was divided into nine sub units described above. Care was taken in deciding the sub unit in such a manner that at least two staff may be posted in each sub unit so that in the absence of one the sub unit should unit should not be non-functional.

It was also planned to provide training as well as exposure to all staff working in comptroller office not only in the field of his/her functioning but also in cross functional fields. The advantage of this cross functional expertise is that staff of one sub unit may help the staff of other sub unit whenever heavy workload is realized in any sub unit.

In order to solve day to day problems of staff, one to one discussion for providing solutions were



held. Besides this, two small sessions to explain budget provision, classification of expenditure and to establish efficient accounting system were organised in the comptroller office. A three days' workshop on Public Financial Management System (PFMS) and Government e-Market (GeM) was conducted in the University. In this workshop twenty from comptroller Office, twenty from other units of the university and twenty from different universities and Institutions in Bihar were trained by the in-house as well as guest faculty.

1. Establishing Financial Process

The financial process adopted by the College as well as in the University was quite cumbersome, lengthy and time taking. This was not only reducing the final financial delivery time but also wasting the valuable time of staff in unfruitful manner. Unfruitful noting, noting the same content by different officials in the same proposal, unnecessary routing of files and raising queries in piece meal are a few examples of this. After thorough discussion with staff of comptroller office, many of such bottle neck in financial process were removed. This resulted in substantial reduction in financial processing time by almost reducing such time by 60 to 80 present. However, there is still a lot of scope of reducing such time with the help of capacity building of the staff aided with ICT.

2. Ensuring Speed, Accuracy and Transparency

Use of GeM was encouraged not only for routine items but also for purchase of equipment's and vehicles. This promoted the speed, accuracy and transparency in public procurement in the University. In a short span of six months University placed almost 125 orders of total value of more than three crores. For the excellent performance of the University, a certificate was provided by the Principal Secretary, Finance Department, Govt. of Bihar. The University was at the fourth position amongst the twenty top procuring agencies through GeM in the state. The University is the first Agricultural University in the country which started the earliest use of PFMS for public payment.

3. Ensuring Prompt Payments and Remittances

It was noticed that maximum number of payments size from Comptroller office were of amount Rs 8,000 or less and that too were related to CNC general category like consumables and payment for petty items. For such petty expenditure, time taken in financial concurrence and payment slows down the day to day activity of the university. Under this background it is decided to completely decentralize the expenditure decision by means of allowing imprest to all Deans and Directors, Registrar, Comptroller other important functionaries including Head of the Department of all Colleges. For this, a detailed guideline for operation of imprest was issued. Imprest of varying amount were provided to these functionaries and also sanctioning limit for single imprest expenditure was fixed for each functionary. The result was quiet enthusiastic as this smoothened not only day to day petty expenditure by reducing payment time but also by reducing the number of payment vouchers in the comptroller office. A modified self-content format for TA Advance as well

as payment was circulated. This format eliminated the need of moving TA sanctioning proposal on file hence substantially reduced TA payment time. Before unification, there were over fifteen stages where a payment proposal had to pass before final payment. Such stages included sanction, issuing sanction order, inward and outward entry, payment, instruction, audit examination and pass order, pay order writing of cash book and cheque, forwarding letter etc. by careful securitization, these steps were cut down to eleven so as payment may be ensured within 6-7 working days, with the aid of ICT, the target is to further reduce these steps to 8 which will further cut down the payment processing time almost by 40 percent. For this, development of in house document tracking system is on hand which will track the present position of the document in comptroller office in real time basis.

Further Pay Roll management system is under implementation in the University which will computerize the payment of salary as well as salary related issues. This will help in generating pay slip, replacing physical pay registers by "Digital Pay Registers" and hence avoiding duplicity of work. It is also decided to make payment only though RTGS and NEFT only to reduce payment time.

Budget

1. Expenditure- PLAN

Sl.	Accounting Head	Allotted and received Amount for	Expenditure during
No.		2018-19	2018-19
1.	0101.31.04	BASU- 14,32,62,000/-	2,99,74,032/-
	Salary	CoF, Krishanganj - 25,00,000/-	
		Total = 14,57,62,000/-	
2.	0101.31.05	BASU- 9,60,00,000/- CoF,	5,61,85,697/-
	Creation of Assets	Krishanganj- 8,00,00,000/-	
		Total =17,60,00,000/-	
3.	0101.31.06	BASU- 4,07,38,000/- CoF,	4,66,64,584/-
	Non-Salary CNC	Krishanganj - 1,75,00,000/-	
		Total =5,82,38,000/-	
	Total	38,00,00,000/-	13,28,24,313/-

2. Expenditure- Non PLAN

Sl.	Accounting Head	Allotted and received Amount for	Expenditure during
No.		2018-19	2018-19
1.	0001.31.04	50,38,40,000/-	21,87,30,988/-
	Salary	Auto	
2.	0001.31.05	15,10,00,000/-	66,32,343/-
	Creation of Assets		
3.	0001.31.06	12,81,74,000/-	68,28,913/-
	Non-Salary CNC	1 - 1	
	Total	78,30,14,000/-	23,21,92,244/-

3. Budget Plan

Sl.	Accounting Head	Budget 2020-21	Approved Budget 2019-20
No.			
1.	0101.31.04	Because of non -	BASU- 5,68,00,000/-
	Salary	receipt of grant for	FC Kishangnaj – 2,32,22,000/-
2.	0101.31.05	2019-20 budget	BASU- 17,28,00,000/-
	Creation of Assets	for 2020-21 is not	FC Kishangnaj – 4,72,00,000/-
3.	0101.31.06	prepared.	BASU- 5,04,00,000/-
	Non-Salary CNC		FC Kishangnaj – 2,96,00,000/-
		Total	38,00,00,000/-

4. Budget-Non Plan

Sl.	Accounting Head	Budget 2020-21	Budget 2019 -20
No.			
1.	0001.31.04	Because of non -	28,16,40,000/-
	Salary	receipt of grant for	
2.	0001.31.05	2019-20 budget for	21,69,96,000/-
	Creation of Assets	2020-21 is not	
3.	0001.31.06	prepared.	15,39,48,000/-
	Non-Salary CNC		
		65,25,84,000/-	

Constituent Colleges

1. Bihar Veterinary College

Bihar Veterinary College, Patna, the 5th oldest Veterinary College in undivided India was founded on 2nd April, 1927 by Sir Henry Wheeler, the then Governor of Bihar & Orissa. During the post-independence period, Bihar Veterinary



College developed to its full capacity and occupied a prestigious status associated with strong academic base for teaching and research in the field of Veterinary Science and Animal Husbandry as well as advanced Veterinary clinical services to the society. This institution acquired world-wide recognition for Human Resource Development through excellent teaching by qualified, experienced and committed faculty members.

Bihar Veterinary College, Patna, provided quality Veterinary education and training not only to the candidates from Bihar and Orissa but also from several other states (U.P., Meghalaya, Mizoram, Tripura, Jammu & Kashmir, Assam, Himachal Pradesh etc.) of the country as well as from

developing countries like Nepal, Bhutan, Afghanistan, Iran, Malaysia etc. Graduates of this college are spread all over the world and have occupied coveted and prestigious positions in State and Central Governments, State Agricultural Universities, Research Institutes and National as well as Multinational Industries. To name a few Dr. C. M. Singh, Dr. B. S. Rajya, Dr. G. C. Mohanty, Dr. O. N. Singh, Prof. A. Ahmad, Dr. H. R. Mishra, Dr. R. B. Prasad, Dr. V. S. Pandey, Dr. D. V. Singh, Dr. G. Biswal, Dr. D. C. Nayak etc. are the glittering alumni of this alma mater.

In the year 1930-1949, a three-year diploma course awarding G.B.V.C. (Graduate of Bihar Veterinary College) was started. Keeping pace with the advancement of Science & Technology, four-year degree course awarding the degree of B.V.Sc. & A.H. was started in 1949. An emergency Diploma-Shift-Degree course was introduced in the year 1954-55. The professional competency of diploma holders was also updated by subjecting them to "Condensed degree course" of two years and awarding B.V.Sc. & A.H. degree. The first batch of regular degree holders, admitted in 1949, came out in 1953 and became one of the stake holders of the Livestock & Poultry Resources of India in general and Bihar and its neighboring states in particular. For the award of diploma or degree, the Bihar Veterinary College, had been affiliated to different Universities of the state like Bihar University, Magadh University etc. The post graduate (P.G.) programme in different subjects of Veterinary Science and Animal Husbandry was started in 1960.

Bihar Animal Sciences University, Patna is the only Veterinary college in Bihar which caters to the needs of the state by carrying research and extension in the field of animal health and livestock production. Presently, the college has 17 departments and two service windows i.e. Veterinary Clinical Complex and Livestock farm complex. All the departments have good laboratory facilities with adequate infrastructure for undergraduate and postgraduate teaching and research. A well-equipped veterinary clinical complex is available to cater to the demands of large and small animal health care. In addition, the college has an elite dairy herd and a poultry farm which provide adequate facilities for teaching and research. The college offers B. V. Sc.& A. H.programme with intake capacity of 60 students out of which 15% of seats are filled from all India quota and 85% of admission are reserved for the state. Post graduate programme is offered in all the departments and doctorate programme is also going on in 09 disciplines.

The total faculty strength in both the constituent colleges of BASU is 67, out of which 6 are Professors, 3 Associate Professors and 57Assistant Professors. All the faculty members of the university in different ranks are actively involved in teaching, research and extension. The university has a good chunk of young faculty members. Their numbers in different age groups namely30-40 Years, 40-50 Years, 50-60 Years and 60-65 Years are 31%, 52%, 9% and 8%, respectively. The representation of female and male faculty members is 13% and 87%, respectively in the university. The faculty members of the university belong to home state (91%) as well as other states (9%) of India. Of all the faculty members, 60% are Doctorate degree holders whereas only 40% are Master's degree holders. The Master's degree holder faculty members are already in different years of their Doctorate degree studies and are likely to complete Ph.D. degree shortly.

Intake capacity (Student)

Institute	courses	Total no. of students	No. of boys	No. of girls
Bihar Veterinary	B.V. Sc. & A.H.	208	152	56
College, Patna	M.V.Sc.	58	42	16
	Ph.D.	15	10	05

Names of the Departments Bihar Veterinary College, Patna:

- 1. Department of Animal Breeding and Genetics
- 2. Department of Animal Nutrition
- 3. Department of Veterinary Gynaecology and Obstetrics
- 4. Department of Veterinary Medicine
- 5. Department of Livestock Production Management
- 6. Department of Livestock Product Technology
- 7. Department of Veterinary Anatomy
- 8. Department of Veterinary and Animal Husbandry Extension Education
- 9. Department of Veterinary Clinical Complex
- 10. Department of Veterinary Microbiology
- 11. Department of Veterinary Parasitology
- 12. Department of Veterinary Pathology
- 13. Department of Veterinary Pharmacology and Toxicology
- 14. Department of Veterinary Physiology and Biochemistry
- 15. Department of Veterinary Public Health and Epidemiology
- 16. Department of Veterinary Surgery and Radiology.
- 17. Department of Livestock Farm Complex

The Veterinary Clinical Complex aims to impart quality education and clinical teaching to under-graduate and post-graduate students in the field of Veterinary Sciences to generate human resource and capacity building in veterinary clinical practices and provide veterinary medical services to farmers and pet lovers. The teaching programme have been planned to impart need based practical training and research in animal health to the undergraduate, postgraduate students and field veterinarians.

The animal health care facility available in clinical complex includes:

- Veterinary Medicine
- Veterinary Gynecology & Obstetrics
- Veterinary Surgery & Radiology
- Veterinary Clinical Diagnostics Laboratory

Salient achievements

Landmark activities vis a vis achievement of the College is as follow:

- There was significant improvement (49%) in number of Clinical Cases registered and treated at Veterinary Clinical Complex in comparison to previous year (9832 Vs 14644).
- The teaching Veterinary Hospital was registered under Biomedical waste disposal and PNDT act 1984.
- A provision of handling clinical cases during emergency hour at Veterinary Clinical Complex round the clock was established.
- ➤ Diagnostic Services of different hemato-biochemical parameters of ailing animals have been augmented and maintained under a single roof in the form of "Advanced Diagnostic Laboratory".
- ➤ Indoor Wards for Cattle and Buffalo, Dogs, Sheep/Goat and Equines has been renovated and fully made functional for different types of Indoor patients.
- Large Animal Operation Theater has been renovated and equipped for different type of invasive procedures.
- ➤ **A Virtual Dissection Table** for different types of Anatomy practical and Surgical Preparations has been procured in the Department of Anatomy under NAHEP project of the University.
- ➤ Bihar Veterinary College celebrated 92nd Foundation day programme on 2nd April 2019 in which two expert's lectures delivered viz. "Job Prospectus and Life of Veterinarian in RVC and Allied Sector" by Maj. Gen. P.S. Narwal (Retd.), Remount & Veterinary Corps and "Experiences with Exotic Avian Practices" by Dr Ram Mohan, MEDVET, Columbus, USA.
- ➤ On occasion of "World Veterinary Day" organised on 27th April 2019 a key note lecture on "Genetic Improvement in Livestock through Embryo Transfer Technology" was delivered by Dr. Shiv Prasad, CEO, U.P. LDB, Lucknow and a free Anti-Rabies vaccination programme for pets were organized on this occasion and around 150 pets were vaccinated.
- ➤ Girls team of Bihar Veterinary College, Patna won the Badminton Championship of All India Veterinary University tournament held at GBPUAT, Pantnagar.
- A Brain-storming session on "Feeding a Nutrition Management of Zoo/Wild animals were organized on 17th May 2019 in which modification in existing feeding protocol of Patna Zoo animals were discussed in details and desirable modifications have been suggested.
- ➤ Dr. Manoj Kumar, HoD, Veterinary Microbiology has been conferred with Appreciation Award by Hon'ble Chief Minister, Bihar for contribution by Bihar Animal Sciences University in detection and control of Bird-flue in Sanjay Gandhi Biological Park.
- ➤ This College is having VERU, established in 2009 with the objective to train students, Veterinarians and Livestock owners for handling and protecting Livestock under different calamities. Till now 324 students and all the Veterinarians of state of Bihar has been trained under "Management of Animals in Emergencies".



2. Sanjay Gandhi Institute of Dairy Technology



Sanjay Gandhi Institute of Dairy Technology, Patna came into being in year 1980 under Rajendra Agricultural University, Pusa and later transferred to Bihar Agricultural university, Sabour in 2010 and since 2017 is a constituent unit of Bihar Animal Sciences University. The institute imparts teaching, research and extension in the area of Dairying encompassing Dairy Engineering, Dairy Technology, Dairy Microbiology, Dairy Chemistry, Dairy Extension, Dairy Economics, Statistics & Computers. The institute runs a four - year degree programme in Bachelor of Dairy Technology (B. Tech. D.T.)

The institute has adopted the course curricula as per recommendation of the Dean's committee constituted by the ICAR, New Delhi and presently the courses are offered as per ICAR Vth Deans' Committee. The SGIDT was established with the mandates to fulfill the requirements of Dairy Husbandry and Dairy Technology for upliftment and growth of farmers and entrepreneurs in dairy and food sectors.

The institute has been producing B. Tech. (DT) graduates with spectacular placement records. Many of the students are persistently securing Junior Research Fellowship (JRF) and have qualified competitive examinations to seek admissions in National Dairy Research Institute, Karnal and other Agricultural Universities (SAUs) in India.

SGIDT is one of the collaborating centres in ICAR-ILRI research project entitled 'Development of Goat milk and meat value chain in Bihar and Uttar Pradesh. The goal of the project is to sustainably improve the socio-economic condition of goat rearers, traders, butchers and other key factors involved in goat meat/milk value chain in selected districts of Bihar and Uttar Pradesh.

As per the ICAR Dean's Committee recommendation five major departments for teaching

undergraduate courses are functional are:

- 1. Dairy Technology
- 2. Dairy Engineering
- 3. Dairy Chemistry
- 4. Dairy Microbiology
- 5. Dairy Business Management

The Department of Dairy business management have merged the different courses of Dairy extension, Dairy husbandry, Computer and Statistics and Dairy Economics.

Dairy Business Management (DBM) is one of the core department of the institute, which offers courses pertaining to economics, management, applied mathematics, statistics, computer application, communication skills, environmental studies, dairy production management as per the recommendations of the Vth Dean's Committee of ICAR.

The DBM has an immaculate computer lab to impart teaching of prescribed courses to the students. All the computers are connected with internet services through BSNL Broadband. A 'Language Lab' has also been set up to learn and communication skills and languages, particularly English by the students and interested staff members. The language software has been procured with the financial assistance from NAHEP.

3. College of Fisheries, Kishanganj

The College of Fisheries was incorporated in the Bihar Animal Sciences University as one of its constituent college in 2018 and became operation from academic session 2018-19. It is located at Arrabari which is located about 22 Km away from the district town of Kishanganj and 25 Km away from Kishanganj Railway Station. The College is situated on the bank of river Mahananda. Hon'ble



Chief Minister of Bihar, Shri Nitish Kumar formally inaugurated and announced the start of first academic session of this college on 29th August, 2018 at Patna. The college is unique with state-of-the-art infrastructure including centrally air-conditioned academic and administrative buildings with smart classrooms, modern laboratories, single-bedded hostel rooms for girls and boys, residential accommodation for faculty and staff, playground, indoor game facilities, provision of stores, health clinic, auditorium, farm offices, wet laboratory and 90 acres of farm land for the construction of well-laid instructional and research farms with facilities for hatcheries and intensive aquaculture systems.

The approved faculty positions comprise of the Dean, 15 professors, 27 Associate Professors and 42 Assistant Professors, which is one of the largest ever faculty available with any Fisheries College in India. There are 185 sanctioned posts of non-teaching staff including technical, administrative, field and supporting personnel to cater the need of administration, laboratories, security and allied services and students to run the college efficiently.

Vision of the College

A credible fisheries education institution that nurtures the next-generation of professionals and entrepreneurs in the fisheries sector and contributes to the state and nation by pursuing innovations and research which is relevant to local needs and directed towards maximizing outcomes for economic, social and environmental well-being. Producing trained human resource in fisheries having credible skills, capabilities and commitment to transform the sector through research and innovation is the main mission of this College. There are eleven approved departments at College of Fisheries which are as follows:

- 1. Aquaculture
- 2. Aquatic Animal Health Management
- 3. Aquatic Environment Management
- 4. Biotechnology
- 5. Fish Genetics & Breeding
- 6. Fish Nutrition and Feed Technology
- 7. Fish Physiology & Biochemistry
- 8. Fish Processing Technology
- 9. Fisheries Economics & Statistics
- 10. Fisheries Extension
- 11. Fisheries Resource Management

Academic Programme

Bachelor of Fisheries Science (B.F. Sc.) is a 4-year degree course comprising of 8 semesters. Admission takes place purely on the basis of competitive entrance examination. Out of total intake capacity, 85% seats are reserved for the residents of the state of Bihar and rest 15% seats are filled up

through All India Competitive Entrance Examination conducted by the Indian Council of Agricultural Research (ICAR), New Delhi. A total of 40 seats have been approved for B.F. Sc. Programme, 34 (85%) are reserved for state quota and 6 (15%) for ICAR quota. The first Batch of B. F. Sc., Programme has been started from 2018-19 session and a total of 35 students have been admitted in first batch.

NSS Activities at College

First activity under the aegis of National Service Scheme (NSS) unit was conducted within the month of joining of first batch students and faculty in the college on 27 October, 2018. During the programme, Boys hostel premises was cleaned by students and faculty followed by a rally across the campus to spread awareness about importance of cleanliness under Swacch Barat Mission of Government of India. Another cleaning and plantation drive was conducted by NSS unit on 04 December, 2018 to keep the surroundings clean and green. Under the plantation program different



Cleanliness drive in Boys' Hostel Premises under NSS activity



Rally to spread awareness about importance of cleanliness under Swacch Barat Mission of GoI

types of flowering and ornamental plants were planted in the college and hostel premises. After completion of college week, another cleanliness drive was conducted on 30 December, 2018 to clean the college building. All teaching faculty and students participated in the cleanliness program and made the program grand success. World Environment Day, 2019 was also celebrated under the aegis of NSS Unit of College of Fisheries, to create the awareness regarding the importance of well being of our surroundings and environment. On this occasion, more than 400 plants were planted in



International Day of Yoga Celebration on 21.06.2019 at Sports Complex of CoF, Kishanganj

different locations at college campus (College building, Residential complex, Farm Area, Boys' and Girls' hostel).

Celebration of International Day of Yoga on 21st June, 2019

International Day of Yoga was celebrated on 21st June 2019. On this day, a yoga practitioner (Mr. Ravi Raj) from "Jay Bharat Yog Seva Trust", Kishanganj was invited to conduct the yoga session and to create awareness among students and faculties about importance and benefits of practicing yoga. One hour long yoga session was started at sharp 5:30 AM and most of the students and faculties along with OSD, COF participated enthusiastically.

Participation in World Fisheries Day Celebration on 21st Nov, 2019

Celebration of World Fisheries Day, 2018 was organized by NFDB on 21 November, 2018 in "Gandhi Maidan" at Patna. Fisheries College, Kishanganj participated and exhibited the stall during the event to mark our presence among the visitors which includes academicians, researchers and fish farmers.

Students Award (Oral presentation award during 3rd Student Convention, 2019)

Ms. Shreya Jeet Shruti, B.F.Sc. 1st year, 2nd semester student of College of Fisheries, Kishanganj got 3rd best oral presentation award among 350 students of 25 different Fisheries



COF (BASU), Kishanganj Students during Smart Interaction Session held during 3rd Student Convention, 2019 at ICAR-CIFE, Mumbai

Colleges of India during 3rd Student Convention on Next Generation Aquaculture: Panacea to Employment Challenges which was held during 25-26th March, 2019 at Central Institute of Fisheries Education (ICAR-CIFE), Mumbai. A total of five students from COF, Kishanganj namely Ms. Anwari Fatma, Ms. Shreya Jeet Shruti, Mr. Sunny Kumar, Mr. Shwetank Kumar and Mr. Sonu Kumar Mishra along with one Faculty (Mr. Ravi Shankar Kumar) as team leader participated in the convention. Apart from individual effort, the team also performed well in smart interaction session and got 4th position. Our students also performed in cultural event organised during the convention.



Inauguration of Fresher's Day Programme by Hon'ble Vie-Chancellor



Students Performing Hozagiri folk dance of Tripura

Extracurricular Activities

The Fresher's Day Programme of B. F. Sc. first batch (2018) was organized in the Auditorium of College of Fisheries, Kishanganj. This programme was graced by Hon'ble Vice Chancellor, Bihar Animal Sciences University (BASU), Patna. Director Students Welfare, BASU. A vibrant cultural night was organized by the students. The cultural night was themed around rich cultural heritage and diversity of our country. The dance performances of the night represented the various folk dances



Signing of MoU between COF-BASU and ICAR-CIFT on 21.06.2019 at College of Fisheries





Invited Expert with faculties and students of College of Fisheries, Kishanganj

from each corner of the country.

External Linkages (MoU)

The college has entered into agreement with leading institutions of Education and Research of India by signing MOUs. So far, MOUs have been signed with ICAR-CIFE (Deemed University), ICAR-CIFRI, ICAR-CIFA and ICAR-CIFT. Proposals are also in the pipeline for signing MOUs with foreign

universities and with private-sector industries and farms within the country. Mutual agreements made under the MOUs would provide gainful opportunities for the faculty members and students through faculty and students exchange programmes, collaborative research projects and faculty development programmes.

Expert Consultation on Planning Departments & Laboratories for CoF, Kishanganj

Three days long in-situ expert consultation on Planning Departments and Laboratories for CoF, Kishanganjwas held on 7-9 February, 2019. Leaderships of ICAR Research and Education institutions working in fisheries domain such as ICAR-CIFE, ICAR-CIFRI, ICAR-CIFA, ICAR-NBFGR, College of Fisheries, Tripura (CAU), and nationally acclaimed and widely experienced academicians were invited to participate in this planning exercise.

Scoping Workshop for Supporting Entrepreneur Development

Scoping Workshop for Supporting Entrepreneur Development was jointly organized by ICAR-CIFE and COF-BASU during 23-24 May, 2019 at College of Fisheries, Kishanganj. This



Visit to Wet Laboratory and Ornamental Fish Breeding Unit of ICAR-CIFE, Kolkata Centre



Visit to Shankarpur Fishing Harbour at Digha, East Medinapur, West Bengal

scoping workshop was conceived and conducted by Dr. Dilip Kumar, Advisor to VC (Fisheries) to review the situation and come up with clarity on a framework and modus operandi for the development of a centre to work as facilitator to provide technology, technical support and desired skills based on field tested operations.

Students Study Tour

Study cum sample collection tour of B. F. Sc. first year second semester students was conducted during 12-17 April, 2019. Students visited Shankarpur Fishing Harbour and observed different type of boats, trawlers, gears, anchors, floaters, sinkers etc. used for marine fishing activities. They were also exposed to mending and repairing of the nets and boats at site.

Teaching

Current academic programmes running at Bihar Animal Sciences University Patna

A. Undergraduate Programmes

B. Tech., Dairy Technology-4 years: At Sanjay Gandhi Institute of Dairy Technology, Patna

Degree course of B. Tech. (D.T.) shall comprise of a course of study consisting of curriculum and syllabus spread over 4 years. The intake capacity of B. Tech (D.T.) course is 25 by state quota and 4 seats are filled up by ICAR. The University has adopted the course curricula as per recommendation of the Dean's committee constituted by the ICAR, New Delhi and presently the courses are offered as per ICAR Vth Deans' Committee.

Undergraduate Programmes

S. No.	Degree courses & duration	Name of College	Intake capacity	Students admitted
1.	B.V.Sc & A.H.	B.V.C., Patna	60	60
2.	B. Tech (Dairy Technology) 04 years	SGIDT, Patna	29	29
3.	B. F. Sc. 04 years	CoF, Kishanganj	40	40

Undergraduate Course (B.F.Sc.- 4 years): At College of Fisheries, Kishanganj

Degree course of B.F.Sc. comprise of a course of study consisting of curriculum and syllabus spread over 4 years. The intake capacity of B.F.Sc. course is 40 in which 34 seats are filled up by state quota and 6 seats are filled up by ICAR. The University has adopted the course curricula as per recommendation of the VthDean's committee.



MASTER'S (Two year) and Ph.D. (Three year) DEGREE PROGRAMS

University also offers Master's (Two year) and Ph.D. (Three year) degree programs in Veterinary faculty. Currently University has M.V.Sc. facility in 16 disciplines and Ph.D. Programme in 9 disciplines.

DRI-cum-Dean PGS

Post Graduate Studies

Total no. of students in post graduate programme is as follows:

Year	Semester	No. of Students
2017-18	1 st Year	17
	2 nd Year	17
	3 rd Year	16
2018-19	1 st Year	23
	2 nd Year	19
2019-20	1st Year	23

The DRI-cum-Dean, Post Graduate Studies is responsible for overall regulation of resident instruction of the University, including admissions, enrolment of students in post graduate & doctorate programme. Academic reforms in form of attendance requirement, academic calendar has been implemented and the results is reflected.

At present post graduate programme is being offered in 16 disciplines and doctorate in 09 disciplines of Bihar Veterinary College, Patna. Master's programme at Sanjay Gandhi institute of Dairy Technology and College of Fisheries is likely to be started soon.

Laboratory facilities is different departments is being upgraded with latest equipment's to facilitate quality research. Academic calendar is being followed strictly. Post graduate and doctorate research is being monitored on regular basis. The process of conduct of synopsis seminar and finalization of Programme of work has been streamlined. A detailed step by step requirements for a post graduate students is being enlisted and it shall be published for convenience of students.

Directorate of Research

Directorate of Research has been established with a mandate to visualize future research strategies and prioritize research in every discipline. Directorate envisage to set up Regional Research Centre – cum- Modern Buffalo Breeding farm at Sipaya (Gopalganj) on 80 acres of farm area. Similarly, at Tekna Farm, Gaya and Regional Research Centre – cum- Model Goat Breeding farm with objective to meet the germ plasm supply in state and start production of Goat milk production unit along with Training and diagnostic center. Directorate of Research has facilitated Memorandum of understanding with leading National institutes and plans to form a regional research consortium comprising of medical and Veterinary research institutes of area to facilitate sharing of research facilities.

Research Project

To meet the aspirations of people of state ten externally funded and nine institutional projects has been commissioned to carry out research in priority areas.

Externally funded Research Project

S No.	Title of the Project	Principal Investigator of the Project	Funding Agencies
1.	National Agricultural Higher Education Project (Innovation Grant)	Dr. Ravindra Kumar, Nodal Officer & PI	I.C.A.R., New Delhi
2.	Establishment of Embryo Transfer Technology Centre	Dr. Ravindra Kumar, PI	D.A.D.F., Govt. of India
3.	FIST Programme – 2016	Dr. Ajeet Kumar, Asstt. Prof., Veterinary Biochemistry	D.S.T., New Delhi
4.	Poultry Seed Project	Dr. Pankaj Kumar, Asstt. Prof., (A.H.E.E), ILFC	D.P.R., Hyderabad
5.	All India Coordinated Research Projects for "Epidemiological Studies on Foot and Mouth Disease"	Dr. Manoj Kumar, Asstt. Prof., Veterinary Microbiology	I.C.A.R., New Delhi
6.	All India Coordinated Research Projects for "Animal Disease Monitoring and Surveillance"	Dr. Pankaj Kumar, Asstt. Prof., Veterinary Microbiology	I.C.A.R., New Delhi

7.	Outreach Programme on	Dr. Nirbhay Kumar, Asstt.	I.C.A.R., New
	"Monitoring of Drug	Prof., Veterinary	Delhi
	Residues & Environmental	Pharmacology & Toxicology	
	Pollutants"	WIND A LAND	A CONTRACTOR
8.	Experimental Learning Unit	Dr. PallavShekhar, Asstt.	I.C.A.R., New
	(Critical Care Unit)	Prof., Veterinary Medicine	Delhi
9.	Strengthening and Up	Dr. Gyan Dev Singh, Asstt.	I.C.A.R., New
	gradation of TVCC as a	Prof., TVCC	Delhi
	Experiential Learning Unit for	7.83.57	4.4
	Pet animals	49.72	VA. 2 1
10.	Krishi Mantra	Dr. Pankaj Kumar, Asstt.	CDAC,
		Prof., VAHE	Ministry of
			information,
			Communication
			& Technology.

Institutional Project

Sl. No.	Title of the of Project	Principal Investigator	Duration of Project	Total Sanction Budget (In
			, and the second	lakhs)
1.	Studies on	Dr. Ramesh Tiwary,	02 Years	1.00
	Urohydropropulsion and	Asstt Prof., Department		
	Tubecystostomy for	of Surgery & Radiology,		
	surgical Management of	BVC, Patna		
	Urolithiasis in goats.			
2.	Radiographic and	Dr. Pallav Shekhar, Asstt	01 Year	0.50
	Sonographic screening of	Prof., Department of		
	cardiac, hepatic and	Vety. Medicine, BVC,		
	urinogenital diseases of	Patna		
	canine.			
3.	Bio-fabrication of Gold	Dr. Ajeet Kumar, Asstt	03 Years	7.00
	Nano particles and its anti	Prof., Department of		
	proliferative effect in cell	Vety Biochemistry BVC,		
	line.	Patna		

4.	Comparison and	Dr. Ankesh Kumar, Asstt	02 Years	0.75
	development of standard	Prof., Department of	100 (100)	
	protocol of oestrous	TVCC, BVC, Patna	100	
	synchronization in			
	anoestrous buffaloes.	A WHILE A	400	No.
5.	Formulation and evaluation	Dr. Pankaj Kumar Singh,	02 Years	3.00
	of Area Specific Mineral	Asstt Prof., Department		
	Mixture on the performance	of Animal Nutrition,		
	of dairy cattle and	BVC, Patna		40000
	buffaloes.			7
6.	Assessment of Moringa	Dr. Ravi Ranjan Kumar	02 Years	3.60
	oleifera as a fodder	Sinha, Asstt Prof.,		1.0.1913
		Department of LPM,		
		BVC, Patna		
7.	Process standardization and	Dr. J. Badshah, Prof.	02 years	8.00
	optimization for shelf life	Department of Dairy		
	enhancement of Paneer	Engineering, SGIDT,		
	from milk of Bihar origin.	Patna		
8.	Isolation and	Dr. Anjay, Asstt. Prof.,	03 years	8.00
	characterization of	VPHE		
	bacteriophages targeting			
	food borne pathogens from			
	sewage samples of			
	livestock farm			
9.	Adoption of Quail farming	Dr. Pankaj Kumar, Asstt.	02 years	4.48
	in different system and	Prof., VAHE		
	assessment of its			
	productivity performance			
	under deep litter and cage			
	system of housing			
	,			

RKVY Project

Scientists of the University submitted 10 research propsoals for consideration and funding under RKVY, out of which four projects worth 12.32 crores have been approved and another project worth Rs.14.50 crores is under consideration. Four RKVY projects which has been approved for funding during 2019-20 by Bihar Govt. under RKVY are:

- I. Capacity building of rural youths for employment generation in chicken product preparation & marketing.
- II. Establishment of Regional Disease Diagnosis Laboratory.



- III. Monitoring of Arsenic Level in Input, Throughput and Output Samples of Cattle and Poultry in Certain Arsenic Endemic Areas of Bhagalpur and Khagaria District.
- IV. Augmenting Veterinary Clinical Diagnostic and Therapeutic Facilities at University Referral Hospital.

Achievements in different research projects:

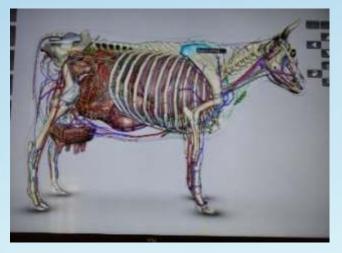
National Agricultural Higher Education Project

The University has been sanctioned National Agricultural Higher Education Project Innovation grant (NAHEP-IG) by ICAR for capacity building of the faculty and students through National and international trainings, Seminars and Workshops and develop important infrastructure to make University accreditation ready. Some of key out comes of the project are:

a) Virtual Dissection Table:

Virtual dissection table for simulation studies and for better teaching of Anatomy, Surgery and Pathology to students. A unique facility first in Asia. It can be used as virtual dissection tool for

practice by students.



b) Establishment of Alumni & Placement cell:

Alumni -cum-placement cell has been established in the University and better coordination and management has resulted in 53% increase in campus placements during 208-19. For the first time Bihar Rural Livelihoods Promotion Society - JEEVIKA



and COMFED made campus recruitment of passing out graduates of Bihar Veterinary College, Patna. Alumni cell too has been made functional and executive committee has been reconstituted and annual meet of the Alumni Association has been planned.

c) Installation of RFID for large Animals: For better data management of Livestock farm radio frequency identification device has been installed at Instructional livestock farm and same is being extended at small ruminant farm.



d) Language Lab: Hardware and software for language lab of SGIDT has been installed for improved training on language lab and classes has been started to upscale language skills of students.

Seminar/workshops organized under NAHEP-IG project:

- · Six days' workshop on "Development of Teaching Skills" July, 8-13, 2019
- · Five days training-cum-workshop on "Chromatographic Technique and their Applications in Research" June, 08-22, 2019
- · Workshop on "Cell Culture Techniques in Animal Disease Diagnosis and Research" May, 14-17, 2019.
- · Workshop on Recent advances in soft tissue surgery and ultrasonography, May, 13-14, 2019.
- · Workshop on Animal Health Management, Feb. 04-06, 2019.
- · Workshop on use of Assisted Reproductive Technology for augmenting Livestock Productivity, Dec 23-25, 2018.





Establishment of Embryo Transfer Technology (ETT) Centre

A research project on Embryo Transfer Technology (ETT) funded by DADF, Govt of India has been initiated at the Bihar Animal Sciences University, Patna aimed at conservation and propagation of indigenous cattle breeds in form of embryos and set up Bull mother station.

Since the commencement of the project, Sahiwal and Bachaur cows have been purchased and other indigenous breeds of state Gangatiri, Red Sindhi is being in process of purchase. Red Sindhi cows of good genetic potential shall be



procured. All major equipment's have been purchased and set up of ETT lab has been initiated with Bihar Construction department.

Superovulation and embryo collection work is being standardized, before actual production and preservation of germ plasm.

Salient Achievements in other ongoing projects

- ✓ Improvement in research quality expressed in term of good quality of research paper
- ✓ Improvement in research output expressed in term of Number of research paper
- ✓ More number of externally funded projects
- ✓ Improvement in teaching quality expressed in term of students performance in JEF, SRF, NET etc. examination
- ✓ Establishment of central instrumental facility
- ✓ Establishment of bioinformatics laboratory
- ✓ Establishment of central computer lab
- ✓ Up gradation of library specially in books
- ✓ During the study period, FMD virus serotype 'O' was recorded to be the predominant serotype and could be detected in 13 samples collected.
- ✓ All the outbreaks were confirmed by sending tissue samples to International Centre FMD, Bhubaneshwar.
- ✓ FMD outbreaks were recorded in 8 districts of Bihar. The highest number of outbreaks (13) was reported in Patna district, followed by Saran (2), Bhojpur, Vaishali, Nalanda, Nawada, Jehanabad and Gaya (1 each).
- ✓ Economic losses due to FMD outbreaks during the study period in Bihar were reported to be Rs. 1,12,26,688.00.

- ✓ During the year 2018-19, a total of 4 FMD awareness cum animal health programme were conducted to aware the farming community regarding relevance of bi-annual vaccination for controlling FMD in the state. A total of 275 farmers were benefited from the awareness cum training programmes.
- ✓ Monitoring of antibiotic residues of tetracyclines, sulphonamides and fluoroquinolones in raw milk samples of cattle and buffaloes was done in three districts of Bihar *viz*. Patna, Nalanda and Vaishali during the Year 2018-19.
- ✓ A total of 300 raw milk samples (150 cow & 150 buffalo samples) were collected from rural, semi-urban & urban areas of the districts.
- ✓ Samples were screened by Antibiotic kits obtained from NDRI, Karnal and later confirmed by HPLC.
- ✓ Tetracyclines were detected in 2 (1.33%) cow milk and 01 (0.66%) buffalo milk samples above MRL levels.
- ✓ Sulfonamides were detected in 01 (0.66%) cow milk above MRL level.
- ✓ Fluoroquinolones could not be detected in any sample above MRL level.
- ✓ Early age of castration and feeding of more phosphorus containing concentrate diet could be the reason for urolithiasis
- ✓ Renal disorder among dog was found to be the main problem (53.48%) followed by hepatic (17%) and cardiac (17%) as per specific biochemical marker test.
- ✓ These findings were supported by the elevated level of biochemical marker for liver disorder (ALT 231.11), Kidney (BUN 131.63mg/dl, Cr 8.36mg/dl) and Cardiac (C-kinase 268.12).
- ✓ These finding were also supported by sonogram study which reveals 46.15% disorder of kidney followed by urinary bladder 19.23% liver 13.46% and spleen 5.76%.
- ✓ Among urinary bladder disorder renal calculi and crystals (were found to be the principal disorder (44.44% & 7.69%).
- ✓ Out of 46.15% of renal disorder loss of corticomedullary demarcation (44.44% & 15.38%) was found to be the main cause of renal failure.
- ✓ Hyperechoic rounded liver lobe with ascites was found to the main liver disorder (28.57% & 3.84%), Other diseases like distended bladder (5.76%) and splenomegaly (5.76%) Intestinal obstruction (3.84%) and abdominal mass (1.92%) were important ultrasonographic findings in canine.
- ✓ The prevalence of calcium deficiency in the cattle of Danapur, Phulwarisharif and Maner block of Patna District was 40%, 50% and 40.66% respectively, and that of Buffalo was 30%, 26.66% and 26.66% respectively. Whereas the overall prevalence calcium deficiency in cattle and buffalo was 45.55% and 27.77 % respectively. the overall prevalence phosphorous deficiency in cattle and buffalo was 40% and 46.66% respectively.



- ✓ Prevalence of copper deficiency in the cattle of Danapur, Phulwarisharif and Maner block of Patna District was 50%, 40% and 53.33% respectively, and that of Buffalo was 53.33%, 43.66% and 50% respectively, Whereas the overall prevalence copper deficiency in cattle and buffalo was 45.55% and 27.77% respectively.
- ✓ Among all the three blocks the highest prevalence of Zinc deficiency in cattle and buffalo was observed in Phulwarisarif block and the lowest was observed in Danapur block.

Regional Research Farms

Sipaya farm Gopalganj: University has been transferred 80.80 acre areas of land at Sipaya (Gopalganj) by Department of Animal & Fisheries Resources, Govt. of Bihar to develop Regional Research Centre and Modern Buffalo breeding Center, along with diagnostic and training facilities **Tekna farm Gaya:** Government Cattle Farm Tekna, Gaya is having area of 22 acres is likely to be transfer by Department of Animal and Fisheries Resources, Govt. of Bihar, to develop Regional



Research Centre and modern goat breeding center, along with diagnostic and training facilities.

Livestock Farm Complex

Livestock Farm Complex was established in year 2007 with an objective for teaching and research for the students of Bihar Veterinary College, Patna and Sanjay Gandhi Institute of Dairy Technology. Now with the establishment of Bihar Animal Sciences University the Livestock Farm Complex has been

expanded in old Exotic cattle farm complex.

The Livestock Farm Complex has Cow and Buffalo unit, Small ruminant's unit and poultry unit. In cattle farm Sahiwal, Jersey Cross, HF Cross cows and Murrah, Nili-Ravi breeds of buffaloes are being maintained. In small ruminants Black Bengal, Beetal, Sirohi breeds of goats and Sonadi x Corridale cross of sheep breed is being reared in the sheep unit for research, production and instructional purpose.

In Poultry Seed Production unit Vanraja and Grampriya variety are multiplied for distribution among rural masses for starting backyard poulty unit, which is helping in protein supplementation in diet of rural population. A few entrepreneurs under supervision and technical guidance have established large rural backyard poultry units, thus supplementing their income.

Kadaknath, Aseel and Japanese Quail rearing too has been started on experimental basis. The poultry unit also has a Hatchery unit with 6 incubators and 6 hatchers with the capacity of 15000 eggs.

Fodder Production unit

The Livestock Farm Complex has its own fodder production unit, with total cultivated fodder area of about 23 acres in which round the year green fodders is cultivated for the feeding of animals and



surplus fodder is used for preparation of silage for feeding during lean period using latest technology.

Berseem, Maize, Sorghum, Hybrid Napier, Oats, Mustard, Cowpea is grown during different seasons. The Livestock Farm Complex also has some fodder tree plantation like Morringa Olifera and Subabool which is being used for supplementary feeding as and when required.

Directorate of Students Welfare

Sports, Cultural & literary Society, National Service Scheme (NSS) and National Cadet Corps (NCC)

Apart from perusing the main task of Teaching, Research and Extension, Bihar Animal Sciences University (BASU), Patna, through Directorate of Students Welfare, has been actively engaged in commensuration the task of all-round development of students involving them in Cultural, sports, NSS, NCC and other activities that help them in overall personality improvement and creating quality human resources. The education policy of BASU embraces the concept of holistic development of the students and undertakes the activities that are essential in this regard. Various activities apropos development of soft skills and intrinsic qualities of the students are pursued emphatically to inculcate leadership qualities, human values, positive thinking and creativity among the students. Different sections have been created at college and university levels to facilitate, impart and monitor activities pertaining to Cultural and Literary activities, Sports and Games, National Cadet Core, National Social Service, Placement Cell etc. All these activities and sections are administered and monitored by the Director Student Welfare of the university. Some of the important activities undertaken by different sections during July 2018 to June 2019 are given below.

Cultural and Literary Society

The programmes conducted under the aegis of Cultural and Literary Society of the BASU, Patna are presented below:



- 1. The 72nd Independence Day of India was celebrated on 15th August, 2018 with great enthusiasm in the premises of administrative building of BASU, Patna. The Hon'ble Vice-Chancellor hoisted the national flag and delivered a speech highlighting the achievements and future plans of the university. On this occasion a cultural programme was also organized by the cultural society involving faculty and students in which a number of faculty members and students made their performances.
- 2. The National Youth Day was celebrated with great fervor and zeal in the conference hall of Bihar Veterinary College. National Youth Day or the Yuva Diwas is celebrated every year on 12th January, the birth anniversary of Swami Vivekanand to inculcate values and create awareness amongst the youth about their role towards serving the country. Dr Rameshwar Singh, Hon'ble Vice Chancellor, BASU graced the occasion as a Chief Guest and exhorted the students to follow the path shown by the great saint Swami Vivekanand. Dr (Mrs) Purnima Shekhar, Vice Principal, AN College, Patna was the Key speaker who delivered a lecture on ideas of Swami Vivakanand and its importance in every facet of human life. Dr R K Trivedi, DSW, spoke on the relevance of Swami ji's preaching for today's youth. Dr (Ms) Mrinalini, Dr Hitesh Purohit and Ms Shivani, students of the university presented the perspective of youth.
- 3. The 70th Republic Day of India was celebrated on 26th January, 2019 with passion and gaiety by the university officers, faculty members, students and staff of Bihar Animal Sciences University (BASU), Patna. The flag was hoisted by the Hon'ble Vice-Chancellor and a march past and Guard of Honour by the students of different houses/ hostels, NCC cadets and NSS was organized. The university faculty and students participated in the cultural programmes. A friendly cricket match between faculty and students was also organized to mark the occasion. Besides, under the aegis of NSS a plantation drive was organized in which two hundred saplings of timber wood plants were planted in the premises of the university.
- 4. The World Milk Day was celebrated on June 1, 2019 with great fervour and gaiety at Sanjay Gandhi Institute of Dairy Technology, Patna. A number of events were organized by the faculties, staffs and students to mark the occasion. Students of the institute also participated in a debate and song competition organized on the eve of World Milk Day. To create awareness about benefits of milk consumption, a camp was organized in the morning and flavoured milk was distributed among the children in the slums near Jagdeopath, Patna. Besides, a milk day lecture was organized in which Dr J B Prajapati, Principal and Dean, SMC College of Dairy Science, Anand, Gujarat was the key speaker. Dr Rameshwar Singh, Hon'ble Vice Chancellor, Bihar Animal Sciences University, Patna chaired the session. Dr Ravindra Kumar, Director Research, BASU, Dr. B. S. Beniwal, Dean, SGIDT and a number of other senior officers of the Bihar Animal Sciences University, Patna were also present on the occasion.
- **5.**The Fresher's Day Programe of B. F. Sc first batch (2018) was organized in the Auditorium of College of Fisheries, Kishanganj. This programme was graced by the Hon'ble Vice-Chancellor, Bihar Animal Sciences University (BASU), Patna. Director Students Welfare, BASU, Principal of Dr Kalam Agricultural College (DKAC) along with OSD and faculty members of College of Fisheries and DKAC also marked their presence. A vibrant cultural evening was organized by the

students under the guidance of OSD and faculties of college of Fisheries. The cultural program was themed around rich cultural heritage and diversity of our country. The dance performances represented the various folk dances from each corner of the country. Various other events like skit, mime, solo song, etc. were also performed by the students which made the audience delighted and mesmerized. At the end of the programme, the best performing students were awarded by the Hon'ble Vice-Chancellor.

6.A team comprising four students from Bihar Veterinary College and one student from SGIDT, Patna attended the national conference and participated in the inter university debate competition held at GBPUAT, Pantnagar. The team was led by Dr Sanjay Bharti, Assistant Professor, BVC, Patna. The performance of the team was highly appreciated by the juries and spectators.

7.Participation in AGRI-UNIFEST 2019: Agri-unifest is the mega cultural events organised by the ICAR every year to nurture and nourish the soft skills and potentials of students pursuing studies in Agricultureand allied Universities. Agri-unifest is an All-India Inter-Agricultural Universities Youth Festivalthat provides a platform to showcase the cultural pursuit of the youth who are going to play a vital role in shaping the future of the nation. This year it was organized at Sardarkrushinagar Dantiwada Agricultural University, Gujarat during 3-7 February, 2019. As per the guidelines, a team comprising 25 students and 2 faculty members from BASU were sent to take part in various cultural and literary events like Dance group (folk), Theatre Arts(one act play, Skit, Mime, Mono acting), Fine Arts (Collage, Poster making, Rangoli), and Literary events (Quiz, Elocution, Debate, Extempore held during 3-7 February, 2019. Teams from the sixty-two universities participated in Agri-unifest 2019 of which BASU was one. It is matter of great satisfaction that despite being new university, the performances of the BASU team received applauds and appreciations. The 'mime team' stood third among 62 universities and a trophy for the same was won in a very stringent competition.

University participation within state

S.	Program details	Date	Venue	No. of	Achievement/
No.				participants	Outcome
1.	Independence	15 th	Playground,	500	Cultural
	Day	August,	BASU, Patna		programme
		2018			with
					nationalistic
					theme
2.	National Youth	12 th	Conference	120	Awareness
	Day	January	Hall-1		about youth
		2019	BVC, Patna		rights and
					ideas of Swami
					Vivekanand

3.	Republic Day	26 th	Sports	500	Programme
		January,	Ground,		with
		2019	BASU, Patna		nationalistic
					theme, friendly
			C. WEST WAY	4	Cricket match
4.	Cultural	9 th May,	College of	35	Prizes were
	Programme on	2019	Fisheries,	22.	distributed to
	the eve of		Kishanganj	b 27	the best
	Fresher's Day		(1)	10.00	performing
			3.44		students
5.	World Milk	1 st June,	Conference	60	Awareness
		2019	Hall	A second	about
			SGIDT, Patna		consumption of
					milk

University participation outside state

S. No.	Program details	Date	Venue	No. of participants	Achievement/ Outcome
1.	Inter-university Debate Competition	12 th -15 th January, 2019	GBPUAT, Pantnagar	04	-
2.	AGRI- UNIFEST 2019 at	3-7 February, 2019	Sardarkrushinagar Dantiwada Agricultural University, Gujarat	27	Stood third in mime team

National Service Scheme (NSS)

1.Use of tobacco has become a menace. The 31st may 2019 is observed as the 'World No Tobacco Day' to create awareness about this menace that can inflict the most devastating disease of Cancer too. Hon'ble Vice Chancellor, BASU Dr Rameswar Singh addressed the participants and flagged the rally. Officers, faculty, students and staff of the university participated in the rally and formed a human chain to show the solidarity and determination to against the use tobacco.

Health Camp comprising a team of doctors from the Dentofacial Health Centre, Patna was also organised to check the oral and neck health of the university employees, students. About 100 officers, teachers, students and staff were examined.

2.The World Environment day was celebrated on 5th June 2019 by organizing a plantation programme in collaboration with Forest Department, Govt. of Bihar. About two hundred participants including senior officers and faculty members participated in the programme and planted saplings (made available by the Forest Department) in the campus and adjacent areas.

The NSS Unit of College of Fisheries also organized the World Environment Day by planting more than 300 plants provided by the Department of Forest, Government of Bihar at college campus (College building, Residential complex, Farm Area, Boys' and Girls' hostel).

In a sequel to tree plantation programme on the World Environment Day, a speech covering various relevant issues and challenges having implications for the environment was delivered by Dr Ram Kumar, I/C Dean, School of Biological & Environmental Science, CUB, South Bihar, Gaya on 7th June 2019.

- 3. Meditation helps in unification of mind and body, which is required to avoid the transgression of thoughts into the mind that leads dissatisfaction, distress and dejection. Occupied mind often fails to transform the low energy into high and reduces the unlimited capabilities and potential of human mind. A mismatch in thoughts and actions induces many internal conflicts and cause dissatisfaction, which is impacting the human life negatively. Yoga is one of the ways that helps integration of mind and body to manage inadvertent thoughts and convert them into consummate actions. To motivate the university officers, faculty, students and staffs for adopting yoga for healthy life and sound mind, a speech was organized. A team comprising Mrs Punam, Mr Dinesh Sharma, Col. RM Singh from Prajapita Brahma Kumari Ishwariya Vishvidyalaya delivered speeches and demonstrated different Yog postures and meditation. Hon'ble Vice Chancellor, BASU was the Chief Guest. The programme was immensely motivating and appreciated by the participants.
- **4.**The international Yoga Day was celebrated on 21st June 2019 at BASU with great enthusiasm. About 70 staffs including officers, faculty members, students and staffs participated in Yoga in the morning at 5.30 under the guidance of Mr Dinesh Sharma and Col. RM Singh, the senior members of Prajapita Brahm Kumari IshwariyaVishvidyalaya who came from Delhi and demonstrated different Yog Mudras to train the participants. Hon'ble Vice Chancellor, BASU was the Chief Guest, who keenly participated in the Yoga and became the source of inspiration for others participants. International Yoga Day was also organized at College of Fisheries, Kishanganj in which 50 students, teachers and staff participated.
- **5.**A Run was organized on the World AIDS Day on 1st December 2019 to create awareness about the AIDS and advantages of blood donation among the common citizens. The Run was organized in collaboration of Bihar Aids Control Board, Department of Health, Govt. of Bihar. Fifty participants, mostly students of the BASU participated in the Run that started from the Raj Bhawan and terminated at Gandhi Maidan, Patna where a number of other events were also scheduled.
- **6.**The Swachchhata Abhiyan was organized under the banner of NSS to commemorate the importance of cleanliness. BASU is observing **2019 as a year of 'Clean Campus, Green Campus'**. Dr Rameshwar Singh, Hon.ble Vice Chancellor, BASU inaugurated the campaign and participated in the cleaning programme at BVC Campus, different hostels and nearby places with the Officers,



Faculty members, students and staffs of the university. College of Fisheries also initiated Swachchhata Abhiyan on 27 October, 2018 as its first activity under the aegis of NSS unit within the month of joining of first batch students and faculty in the college followed by another cleaning and plantation on 4th and 30th December, 2018 to maintain a clean campus. All teaching faculty and students participated in the cleanliness program and made the program grand success.

7.Two hundred saplings of timber wood plants were planted in the premises of the university to celebrate the Independence Day on 15th August 2018. Hon'ble Vice Chancellor, BASU. Senior Officers, faculty, students and staff participated in the function. About **100 officers, faculty members, students and staffs actively participated in the 'Van Mahotsava'** to maintain a green Campus and also create awareness about the importance of trees in the ecosystem and mitigating the global warming and climate change.

8.A team of doctors from Vedanta Eye Centre and Research participated in the camp and checked the eyes of the affiliates of BASU on 1st December 2018 in the Conference Hall of Bihar Veterinary College, Patna. The Hon'ble Vice Chancellor, BASU inaugurated the camp and appreciated that efforts of the organizers towards maintaining eye health. In the camp, eyes of 200 students and employees were examined free of cost and appropriate advices were given.

University participation within state

S. No.	Program details	Date	Venue	No. of participants	Achievement/ Outcome
1.	World AIDS Day	1 st December 2018	Gandhi Maidan	50	Awareness about AIDS and advantages of blood donation
2.	Swachchhata Abhiyan	13 th October, 27 th October, 4 th December & 30 th December 2018	BVC Campus & Hostels, Patna and College of Fisheries, kishanganj	70	Clean campus
3.	Van Mahotsav	15 th August 2018	BASU Campus	100	Plantation of 200 saplings of timber wood plants
4.	Free Eye Screening and Checkup camp	1 st December 2018	Conference Hall-1 BVC, Patna	200	Ocular health and fitness of the Officers, faculty, students and staffs of BASU.
5.	World No Tobacco Day	31 st May 2019	Rally and human chain	250	Awareness about harmful effects of tobacco

6.	Tree Plantation on World Environment Day	5 th June 2019	BASU Campus & COF, Kishanganj	250	Green Campus & awareness about environmental issues
7.	World Environment day Speech	7 th June 2019	Conference Hall-II, BVC, Patna	180	Awareness about environment and pollution
8.	Motivational Talk	18 th June 2019	Conference Hall-1 BVC, Patna	250	More enlightened and meditated human resources
9.	International Yoga Day	21st June 2019	NCC Ground BASU, Patna and COF, Kishanganj	100	Trained faculty, staffs and students

Sports

Inter Class and Inter College Sports Meet

Sports and games are accorded high priority in the BASU, which envisages inculcating sportsman spirit in the minds of its students and transform them into leaders who are willing and able to address the challenges of life. To select the university teams for different sports and games, inter class and inter college sport meets were organized during $24^{th}-28^{th}$ December 2018 in the campus of BVC and SGIDT, Patna. Fifty students of both the colleges participated in various sports and games competitions and were selected in the university team of different indoor and outdoor games.

The XIX All India Inter Agricultural University Sports and Games Meet 2018-19

The university team comprising 45 students and 3 officials participated in the XIX All India Inter Agricultural University Sports and Games Meet 2018-19 organized during $2^{nd} - 5^{th}$ January 2019 at Punjab Agricultural University Ludhiana. In spite of being new, the teams of BASU qualified upto 2^{nd} and 3^{rd} rounds in most of the sport events among the participating teams from all across the country.

University participation within state

S. No.	Program details	Date	Venue	No. of participants	Achievement/ Outcome
1.	Inter Class and	24 th -28 th	BVC &	50	Selection of BASU sports
	Inter College	December	SGIDT		team for different indoor &
	Sports Meet	2018	Campus,		outdoor games
			Patna		

University participation outside state

S.	Program details	Date	Venue	No. of	Achievement/
No.				participants	Outcome
1.	The XIX All India	$2^{\text{nd}} - 5^{\text{th}}$	Punjab	45	Enhanced
	Inter Agricultural	January	Agricultural		exposure, team
	University Sports	2019	University,		spirit and
	and Games Meet		Ludhiana		visibility
	2018-19				



National Cadet Corps (NCC)

Bihar Veterinary College (BVC) is one of the oldest Veterinary College of India. Earlier BVC, Patna was not having NCC unit. For the first time NCC unit (1st Bihar armoured Sqn) introduced at BVC, Patna on 1st September 2018. 20 Students of 1st year B.V.Sc& A.H 2018 batch was enrolled as cadets. Dr Gyan Dev Singh, Assistant Professor, Veterinary Clinical Complex, Bihar Veterinary College, Patna is given the responsibility of NCC.

Though aim of NCC is to provide a suitable environment for preparing cadets for a career in defending the motherland, greater emphasis is to enable them to be ideal citizens of the country, excel in any chosen profession and prepare them for selfless service to the nation and provide a disciplined pathway to cadets.

Keeping the above facts in mind the cadets are given rigorous training, lecture, drill practice by expert from NCC HQ. Cadets actively participated in the Independence Day 2018 celebration program and performed parade including march past. The cadets were also involved in many activities like world No Tobacco Day on 31stMay 2019 and in plantation activity on the occasion of World Environment Day.



Hon'ble Vice Chancellor, BASU with Director Research, Director Students Welfare and Dean, BVC inaugurating World No Tobacco Day procession

Hon'ble Vice Chancellor, BASU delivering Republic Day Speech on 26 January 2019





Republic Day March Past by the students of BASU on 26 January 2019



Faculty members, staffs and students of BASU observing Republic Day celebration



BASU students performing cultural programme on Republic Day



Hon'ble Vice-Chancellor, BASU, Patna felicitating Mr Dinesh Sharma of Prajapita Brahma Kumari on the World Yoga Day



Members of BASU family practicing Yoga on the World Yoga Day



NSS Team participating in World Environment Day



Placement Cell

The Placement Cell of Bihar Animal Sciences University (BASU), Patna is upgraded and renovated under NAHEP-IG project. Bihar Animal Sciences University (BASU), Patnaorganised Campus Interview (Campus Placement) for final year students of M.V. Sc. and B.V. Sc. & A.H. programmes of Bihar Veterinary College (BVC), Patna in the year 2018-19. Bihar State Milk Co-operative Federation Ltd. (COMFED), Patna conducted interview on 12th March, 2019. Out of 42 students appeared, 17 students were selected as **Veterinary Professionals.**The Bihar State Milk Co-Operative Federation Ltd. (COMFED) again conducted interview on 20th July, 2019 at Sanjay Gandhi Institute of Dairy Technology (SGIDT), Patna for B. Tech (DT) and M. Tech (DT) programmes in which 13 students appeared for the post **Technical Officers**. The results are being processed by the COMFED.

College wise number of appeared & selected students.

College	Appeared Students (No.)	Selected Students (No.)	Percentage of students selected (%)
Bihar Veterinary College (BVC)	42	17	40.48
Sanjay Gandhi Institute of Dairy Technology (SGIDT)	13	selection in progress	_

Bihar Rural Livelihoods Project (JEEVIKA) Bihar also conducted Campus Interview on 2nd March, 2019 for M.V. Sc. and B.V. Sc. & A.H. programmes of BVC and B. Tech (DT) programmes of SGIDT. Out of 31 students appeared 13 were selected as **Livelihood Specialist (LHS)** on the basis of their performance in group discussion and personal interview.

College wise no. of appeared & selected students and share of selected in appeared students

College	Appeared students (No.)	Selected students (No.)	Percentage of students selected (%)
Bihar Veterinary College (BVC)	20	9	45.00
Sanjay Gandhi Institute for Dairy Technology (SGIDT)	11	4	36.36

Extension Education Activities

Director Extension Education (DEE) is responsible to organize different kinds of extension activities of the university for better outreach to stakeholder. It has been formulating the plan of action for Extension Education activities and training programme for execution through Extension wings and Krishi Vigyan Kendra. Further it has also been engaged in reviewing and monitoring the extension activities. The Directorate also compiles the reports of extension wings and Krishi Vigyan Kendra. Extension Education Council of the University has been constituted to monitor and guide extension activities to be taken up.

Krishi Vigyan Kendra, Jamui has been transferred to Bihar Animal Sciences University by the

Indian Council of Agricultural Research (ICAR) from the administrative control of NGO namely "Shram Bharti, Khadi Gram" with effect from March 06, 2019. The University has been providing needed financial support and technological backstopping to KVK, Jamui. Our University has resolved to strengthen and develop KVK, Jamui as one of the best under ICAR-ATARI Zone IV, Patna. The first Scientific Advisory Committee (SAC) meeting of Krishi Vigyan Kendra, Jamui was held on April 30, 2019 under chairmanship of Dr. Rameshwar Singh, Hon'ble Vice Chancellor, BASU, Patna in which the action plan of KVK, Jamui for the financial year 2019-20 was discussed and approved.

Krishi Vigyan Kendra, Jamui

Jamui a part of South Eastern Bihar is an Agriculture dependent district. More than 82% of district population is depends upon agriculture & allied field which is 12% more than the state average (70%). It contributes about 22% of the district GDP. It reflects the importance of Agriculture in district economy. Rice –Wheat is a major cropping system (08 blocks out of 10) having annual rainfall is 1130 mm. Several villages of Jamui is dominated by SC/ST.





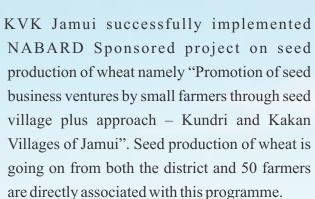


Significant Achievement

- · Rural Youths were trained in Bee Keeping through on campus training programme. Exposure visits of the trained youths were conducted. KVK plays a catalytic role in linking its trained youth with the Dept. of Horticulture and they got the financial support for the state government. The Honey production started and was launched by the then Secretary DARE & DG, ICAR, Dr S. Ayyapan along with different dignitaries launching KVK product as KHADIGRAM SHAHAD at ICAR ATARI Kolkata.
- To keep the farm women of the district in main stream, KVK jamui provided skill of mushroom production at village level. They started Mushroom production at house level. KVK link these farm women with NABARD and they got the financial support and the Mushroom Hub was created. More than 500 farm women were directly benefitted and Jamui got a special name in mushroom production. KVK has established a rural based spawn production laboratory with the financial support of NABARD. It is being run by Mr. Mohan Keshari, a young trained fallow of KVK Jamui in the field of mushroom spwn production. He has recently crowned as best mushroom grower by the Hon'ble MP, Solan, Himanchal Pradesh. Mr. Now a days 6 Mushroom grams were created in the district.
- · KVK Jamui conducted training programmes on improved techniques of grafting. Several Rural Youths came up with the business of Nursery of fruit and ornamental plants. Mr. Ram Prasad, a youth from village Sringarpur established its nursery and earning approx 8-10 lakh/annum.
- · KVK Jamui has successfully covered Cluster Front Line Demonstration on Oilseed and Pulses.

Successfully implemented Tribal Sub Plan in three villages during the reporting period.





- · KVK Jamui initiated the Mechanical Rice Transplanting for the Rice growers of the district through a NABARD sponsored project.
- ·CIMMYT sponsored project on conservation Agriculture. More than 25 zero till drill were



- purchased by the farmers and the area expansion under Zero tillage wheat is now a continuous process. Large scale adoption of Zero Tillage Technique has been reported.
- In a multi locational trial of Rice genotypes for Drought and Aerobic condition was conducted at this centre during the reporting period. This trial was conducted in collaboration of ICAR-Research Complex for Eastern Region, Patna. On the basis of the report of this trial a Rice variety "Swarn Shreya" was released for Drought and Aerobic condition of Bihar.Now, The seed production of this variety is going on by Rice growers of Jamui.
- Training courses on tailoring and stitching were conducted at the village level for the girls. Miss. Golden Kumari, a physically challenged girl from village Manizor of Block: Khaira has started her tailoring centre at village level.
- KVK Jamui has conducted Seminar on "Role of Veterinarians in prevention of disease & protection of livestock" at its KVK premise. 25 veterinarians participated in the programme and share should their views in respect of need of Jamui in this context.
- We have covered two different phases of Krishi Kalyan Abhiyan with 25 villages in each abhiyan. It was named as KKA 1 and KKA 2. Total 153 training programme was conducted in these abhiyan benefitting more than 8000 farmers. Several demonstrations of Rice, Groundnut were conducted in these abhiyan.
- · National Institute of Labour Economics Research and Development (NIRLEP) with NITI Aayog, Government of India evaluated the work of KVK Jamui for the FY 2012-13to 2016-17 and conferred the Arank to this KVK.
- The KVK Jamui has recently been transferred to BASU, Patna and a piece of land (25 Acre) is also allotted by the Government of Bihar for KVK farm. The demonstration units for Vermicompost, Azolla, Poutry, Goatry, Dairy etc will be setup at new farm of the KVK.

Workshop Organized by KVK, Jamui

On the occasion of launching ceremony of "National Animal Disease Control Programme (NADCP) for FMD & Brucellosis and National Artificial Insemination Programme (NAIP)" by the Hon'ble Prime Minister of India on 11th September 2019, a workshop on "Animal productivity through Disease Management as FMD & Brucellosis & Artificial Insemination" was organized at BASU-KVK, Jamui.

Farmers were informed about PM- Kisan Samman Nidhi and the registration of farmers under this programme is also going on. Farmers can get themselves registered to get the benefit of Rs 6000/-year under this Scheme. Dr. A.K. Thakur, Director Extension Education (DEE) added that BASU is providing all needed support & technological backstopping to KVK, Jamui. Dairy, Goatary, Poultry villages were adopted by different colleges of BASU within the jurisdiction of KVK, Jamui.



TRAINING PROGRAMMES Sponsored

S. No.	Date	Title of the course	No. of participants
1.	04.04.2019	Scientific cultivation of Green gram	22
	to 05.04.2019	Table with the last of the	
2.	16.04.2019	Importance of Laser Land Leveler	26
	to 17.04.2019		
3.	24.04.2019	Employment Generation through Soil Test	22
	to 27.04.2019	A A C C C	
4.	15.05.2019	Importance of mulching in vegetables	24
5.	24.05.2019	Method of soil sample collection	20
6.	27.05.2019	Scientific cultivation of Turmeric	23
7.	11.05.2019	Improved Method of Nursery raising of Rise	37
8.	12.05.2019	Improved Method of Nursery raising of Rise	23
9.	08.06.2019	Scientific cultivation of Turmeric	24
	to 09.06.2019		
10.	10.06.2019	Importance & application method of bio- fertilizers in kharif crops	25
11.	12.07.2019 to	Improved method of Mat Type nursery raising of rice	26
	13.06.2019		
12.	18.06.2019	Scientific nursery raising of kharif crops	20
13.	18.06.2019 to 19.06.2019	Production Technology of Extra early pigeon pea in khaif fallow	22
14.	25.06.2019	Importance of Vermi Compost & NADEP compost in crop production.	40
15.	27.06.2019	Improved method of nursery raising of kharif vegetables	25
16.	30.06.2019 to	Use of Zero till Drill in DSR	22
17.	01.07.2019 03.07.2019	Method of Mechanical Rice Transplanting	34
1/.	to	Wichiod of Mechanical Rice Hansplanting	34
18.	04.07.2019 11.07.2019	Improved method of Fruit Plant propagation	20
10.	to	improved incurou of Fruit Flant propagation	20
10	25.07.2019	DD4: 11 :00 11	25
19.	13.07.2019 to 14.07.2019	INM in kharif fodder crops.	27
		Total	482

Total No. of Training Programme: 19 (17 Practicing Farmers + 02 Rural Youths)
Total No. of Participants : 482 (440 Practicing Farmers + 42 Rural Youths)

Adoption of villages by KVK, Jamui

Total 11 villages have been adopted by KVK, Jamui for different activities like organic farming, Mushroom village & seed production etc. as given below-

Name of the Village	Activity
Kewal, Hardi More, Lohsinghna, Bijaiya, Fatehpur	Mushroom gram
Kakkan, Kundari, Sringarpur	Seed production of Wheat
Kedia	Organic Farming
Neem Nawada	Vegetable Production

Dairy Gram

Government of India is committed to double the farmer's income by 2022. Dairying is one of the occupations which have potential for doubling the farmer's income. Commensurating to its one of the major mandates of the university which envisages developing the livelihood of the farmers and other sections having livestock as a source of income Bihar Animal Sciences University, Patna in collaboration with Krishi Vigyan Kendra, Jamui selected Pratappur Village in Lakhanpur Panchayat of Jamui district to adopt and develop a model dairy village. The village was selected in consultation with the scientists of KVK and officials of the Animal Husbandry Department the Pratappur village in Lakhanpur Panchayat of Jamui district was selected and adopted for developing the village as a model dairy gram.

The primary data about the economic background of farmers, existing dairy business knowhow and practices followed and their expectations from the university were elicited by organising a focussed group meeting with the farmer's, officers of the Animal Husbandry Department and scientist of the KVK and SGIDT, Patna. The village has 250 households who are engaged in crop production and dairying. The village has a mixed population of 2000 people of which there are 60 families of Yadavas, 60 families of Muslims, 60 families of Ramani and 60families of majhiies and Paswans, Rest of the 10 families are of Rajputs. The total cultivated are of the village is 350 acres. The village has 100 crossbred cattle and 150 buffaloes. There are two organized commercial dairy farms in the village of which one is engaged in production and marketing of A2 type milk.

So far the team of the BASU scientists have organized Krishak Goshthis (meeting with the farmers) in the village and conducted training to selected rural youth and practicing farmers on balanced and nutritious ration preparation for different group of animals, shelter management, feed management, artificial insemination (A.I.) of animals, fodder production throughout the year, clean



milk production, Improvement of shelf-life of raw milk at village level, Vaccination schedule, Preparation of indigenous milk product for getting maximum profit, testing on milk at village, establishment of Chilling centre, mini dairy processing units, Scientific dairy farming, Formation of Dairy Co-operative Society, etc.

For future, it has been decided to arrange need based specialised training to different groups of farmers and help them in formulation, execution and dissemination of relevant technologies as well as projects in the selected village. A brief idea about the various government programmes viz. Samagra Gavya Vikash Yojna and Dairy Udyamita Vikash Yojna were also discussed with the farmers. It was also decided to form self-help group in the village and arrange few small machines required for small scale production and packing of Khoa, Chhanna and Paneer which will be beneficial in increasing their profit margin.

Goat Gram and Poultry Gram

Bihar Animal Sciences University, Patna has expanded its extension activities through adoption of the villages as 'Diary Gram', 'Poultry Gram' and 'Goat Gram'. Out of three, the 'Diary Gram' has already been adopted and in order to select Goat Gram and Poultry Gram, two scientists visited KVK, Jamui on 27.09.2019. Dr. Saroj Kumar Rajak, and Dr. Ravi Ranjan Kumar Sinha, Asstt. Professors from Bihar Veterinary College, Patna identified two villages named Lalmtiya and Kaduatari under KVK Jamui for Goat Gram and Poultry Gram, respectively. The village namely 'Lalmatiya' is having about 150 families and Goat population of about 1200 with an average of 8 Goats per family. The village namely 'Kaduatari' is having about 110 families with average poultry size of 15 birds per family. On this occasion, the "Kisan Choupal" was organized at Lalmatiya village and 29 farm women articipated in this choupal. All participants were motivated for scientific goat farming and queries of women regarding goat farming were clarified. At village Kaduatari Farmers-Scientist discussion was organized and famers were motivated and informed about salient features of scientific poultry farming. At this occasion Subject Matter Specialists from KVK Jamui also interacted with farmers and helped in organizing the programme.

Other Activities

S. No.	Date	Activities	No. of participants	Sponsored
01.	30.04.2019	Inaugural function of KVK, Jamui under BASU, Patna	217	BASU, PATNA
02.	14.06.2019	Kisan Mela	207	ATMA-Jamui
03.	21.06.2019	International Yoga Day	70	ICAR-ATARI
04.	12.07.2019	Krisak-Vagyanik Vartalap	102	ICAR-ATARI
05.	21.06.2019	Kisan Goshthi	52	ICAR-ATARI

Extension Activities Carried by Constituent Colleges & Other Unit of BASU Extension Activities Carried Out in Adopted Villages of BASU

Bihar Animal Sciences University, Patna adopted 2 villages in Muzaffarpur district as Poultry Gram. Viz. Chakhelal and Mirzapur. BASU Supplied 1000 chicks and established a farmer's club. BASU is regularly transferring the technology to the farmers, promotion of Backyard Poultry Farming through PSP running under the University.

Village Chakhelal is about 23 KM from district headquarter Muzaffarpur. In first lot After getting training at Bihar Animal Sciences University, Patna, each of 40 women farmers were given 25 chicks.

The vaccination deworming and regular monitoring of the beneficiaries were done by scientist of Bihar Veterinary College, Patna. Awareness cum Health Camp was also organized to motivate the nearby farmers for adoption of backyard poultry farming.

ATMA Muzaffarpur also helped in selection of farmers and organization of Camps. By seeing the success and benefit from Vanraja farming, 34 other women of nearby area and



twelve members from beneficiaries were purchased the birds in different numbers (Total 1500 pieces) from PSP Patna centre of BASU. At present they are regularly in touch with our scientist and they are benefited regularly through backyard poultry farming.

In the feedback farmers claimed that they got an average benefit of Rs. 600-700/- per bird. In last month one youth Mr. Raju Kumar Choudhary started it as organized farm by taking. 500 birds from BASU Patna. He is satisfied with inputs given by BASU as and when required.

Animal Health Camps

An animal health camp was organized through Bihar Animal Sciences University, Patna at Village Khushrupur (Patna) on 31.03.2019. The camp cum Gosthi was organized on the occasion of college, foundation day of Bihar Veterinary College, Patna. The team of scientists and students along with three non-teaching staffs were participated in the progarmme. About 110 farmers were participated in the Kisan Goshthi. The Goshthi was based on question answer session and farmers got answer of the queries by experts of BVC.







A local NGO, Farmer Youth Foundation, Shahri, Barh was actively participated in the camp. The details of animal health camp activities were as follows. In the camp a total of 145 cattle and buffaloes, 47 goat, 9 dogs were treated and 68 stool sample were tested for various endoparasitic diseases.

An animal health camp cum Kisan Goshthi was organized at Mutlupur village of Muzaffarpur

on 12th April, 2019. Hon'ble Vice-Chancellor, BASU, Dr. Rameshwar Singh inaugurated the function. Ex-Vice-Chancellor, Dr. Gopal Ji Trivedi graced the occasion.

A total of 325 Goat, 221 Buffalo and 59 Cattle was treated for various diseases and disorders by the team of scientist from Bihar Animal Sciences University, Patna.



Participation in Kisan Mela





Bihar Animal Sciences University, Patna participated in **Regional Kisan Mela-2019**, held at Bihar Agricultural University, Sabour, Bhagalpur from 23-25 February, 2019. BASU was awarded first position in Best Stall Competition held during the mela. The team was led by Dr. Saroj K. Rajak and Dr. Manoj Kr. Singh, Asstt. Professor from Bihar Veterinary College, Patna. In the Kisan Mela a total of 425 farmers were given clinical advice for their animals. The team members also acted as Judge in the **Animal Show** organized on the occasion.







Training Programmes

Bihar Animal Sciences University, Patna is actively involved in Training to Livestock Farmers and Field Veterinary Officers for their capacity building. Since last one year a total of 36



training progarmmes were held at department of A. H. Extension, BVC in which 1184 Officers of Animal Husbandry department were trained and 130 progressive farmers were training on various topics sponsored by ATMA of different districts. Bihar Animal Sciences University organized four days training on

"Management of Animals in Emergencies"

for the field Veterinary Officers of Animal Husbandry department. A total of 33 batches were trained from June, 2018 to June, 2019. Based on the past experiences, Bihar Animal Sciences University, Patna trained the state veterinarians to rescue the animals during emergencies. Training to veterinarians has been provided on several topics earlier but first-





time training to all field vets for rescue animals during disaster, was provided. Bihar Veterinary College Patna is pioneer in starting Veterinary Emergency Response Unit in India. First VERU was setup in the year 2009 in BVC campus and following the Bihar model now five other states has also established veterinary emergency response unit in their veterinary colleges.





Training of Veterinary officers

Training of Veterinary officers of Animal Husbandry Department was organized. In 36 such training Programmes for Veterinary officers 110 officers were trained in management of animal in an emergency, as detailed below:

		Name of the Association
S. No.	Duration	No. of Trainees
1.	04.06.18 to 07.06.18	35
2.	15.06.18 to 18.06.18	35
3.	20.06.18 to 23.06.18	35
4.	27.06.18 to 30.06.18	36
5.	11.07.18 to 14.07.18	35
6.	16.07.18 to 19.07.18	35
7.	23.07.18 to 26.07.18	35
8.	28.07.18 to 31.08.18	35
9.	16.08.18 to 21.08.18	47
10.	03.09.18 to 08.09.18	41
11.	10.09.18 to 15.09.18	42
12.	17.09.18 to 20.09.18	34
13.	26.09.18 to 29.09.18	35
14.	03.10.18 to 06.10.18	34
15.	07.10.18 to 10.10.18	30
16.	11.10.18 to 14.10.18	35
17.	02.01.19 to 05.01.19	35
18.	07.01.19 to 10.01.19	35
19.	16.01.19 to 19.01.19	35

20.	21.01.19 to 24.01.19	35
21.	28.01.19 to 31.01.19	35
22.	04.02.19 to 07.02.19	35
23.	20.02.19 to 23.02.19	35
24.	25.02.19 to 28.02.19	35
25.	05.03.19 to 08.03.19	33
26.	11.03.19 to 14.03.19	31
27.	24.04.19 to 27.04.19	38
28.	03.05.19 to 06.05.19	37
29.	14.05.19 to 17.05.19	39
30.	20.05.19 to 21.05.19	40
31.	22.05.19 to 25.05.19	38
32.	28.05.19 to 29.05.19	40
33.	03.06.19 to 06.06.19	36
34.	12.06.19 to 15.06.19	41
35.	17.06.19 to 20.06.19	43
36.	26.06.19 to 29.06.19	39

Summary of Extension Activities Kisan Mela /Exhibitions /Outreach Programe

Sl. No.	Name of the Programme	Duration	Place
1.	Sonpur Cattle fair	15-11-17 to 02-12-17	Harihar Kshetra, Sonpur
2.	ASCI- Training Program	20-22 September,	BVC, Patna
	of Master Trainers for 10 job roles	2017	

3.	Agri-Expo, 2018	11-13 January, 2018	ICAR-RCER, Patna
4.	Exhibition on the occasion of 18 th Foundation Day of ICAR-RCER, Patna	20 February, 2018	ICAR-RCER, Patna
5.	Dog Show Cum Competition	25 th February, 2018	Bihar Animal Sciences University, Patna
6.	International Agri-Tech Bihar	09-11 March, 2018	Gandhi Maidan, Patna
7.	Farmers'- Scientists' Interface	17 March, 2018	ICAR-RCER, Patna
8.	Bihar Diwas Programme	22-24 March, 2018	Gandhi Maidan, Patna
9.	Animal Health Camp under Farmer First Project	28 March, 2018	Mehsi, East Champaran
10.	State Agricultural Fair	13-15 April, 2018	Zila School, Mothihari
11.	Sonepur Cattle fair	03-12-18 to 16-12-18	Harihar Kshetra, Sonpur
12.	Regional Kisan Mela- 2019	23-25 February, 2019	Bihar Agricultural University, Sabour
13.	Animal Health camp	31 March, 2019	Khushrupur, Patna
14.	Animal Health camp	01 April, 2019	Manas Diara, Danapur, Patna
15.	Animal Health camp	12 April, 2019	Matlupur, Muzaffarpur



Public Relations Cell

Public relations office of university is functional for last one year, some salient achievements of this office are:

- Established better relations with print and electronic media and other stakeholder for proper branding of the University.
- Published the 1st edition of University Biannual Newsletter "Pashu Vigyan" Vol:1, Issue: 1.
- Published 1st Annual Diary-cum-Directory of University.
- Made the publications of success stories of Major Operations, New technological Up
 gradations, offbeat operations of snakes, birds, tigers etc. in the local media for marking up
 the positive changes in the University by the common masses.
- University is now active in all the social network platforms, i.e. Facebook, Twitter, Instagram and Youtube and is managed and updated from time to time by the Public Relation Cell.
- Started special news bulletin of major events which is being published in Youtube and Facebook pages of the University.
- Proper coverage is being made of all the vents of University, more than 210 news items have been published in last 1 year by different English & Hindi newspapers.
- Publication of advertisement (Tender, Recruitment notice, E-purchase, Auction, etc) of all the departments in stipulated time is done by the Public Relation cell, 55 different advertisements were made published in last 1 year.
- Designing creative's flex, banners, design for website is done.

University Library

Bihar Animal Sciences University, Patna came into existence on 29th August 2017 with it's headquarter at Patna. Bihar Animal Sciences University, Patna has grown into well established and fully equipped functional University with latest learning techniques. Bihar veterinary college library was from 1927, but from 2017, BVC library converted into University library.

Under BASU University, there are now three constituent Colleges, Bihar Veterinary College, Patna, Sanjay Gandhi Institute of Dairy Technology, Patna and College of Fisheries, Kishanganj, Bihar.

University Library: As a Knowledge Resource Centre

Bihar Animal Sciences University, Patna has grown into well established and fully equipped functional University with latest learning techniques. Similarly, University central Library and individual college libraries are well developed with modern facilities and

updated material so as to provide latest printed and digital information on vast Veterinary Sciences and related disciplines. University library changed itself from a traditional library



Students Reading Hall at University Library

Library Resources:

Central Library has having following collection;

I. Books:

University Library has a total of 22000 books in its collection.

ii. Current Journals Subscription:

University Library Subscribed 20 National journals with some important International

journals for its Users.

iii.Print Volume of Bound Journal:

University Library has a total of 1500 bound periodicals in its collection.

iv. Thesis & Dissertation:

There are more than 729 thesis are available in university Library for users.

v. Newspapers & Magazines:

At present Library is subscribing seven English and Hindi newspapers

- · The Hindu,
- The Times of India
- Hindustan Times
- Hindustan (Hindi)
- Dainik Jagran
- · Aaj,
- Dainik Bhaskar.



Magazines:-

- · Pratiyogita Darpan,
- · Reader Digest,
- · Competition Success Review,
- · Frontline,
- · Sarita (Hindi),
- India Today,
- · Out Look,
- · Science Reporter,
- · Vigyan Pragati (Hindi),
- Employment News etc. are available.

Library Budget and Finances:

Source of Finance:

University Library has its own Budget provision for following activities;

Sl. No.	Activity
1	Book Purchase
2	Journal Subscription(Indian)
3	e-Books
4	e-journals
5	News Paper& Magazine
6	Koha AMC
7	Cloud Service
8	Computer, Printer
9	Furniture & Stationary
10	KIOSK 2 No.
11	RFID Implementation : Under Process

Availability of CeRA (Consortium for e-Resources in Agriculture):

The CeRA covers the journals of Springer Verlag, Annual Reviews, CSIRO Australia and J-gate publishers on Agriculture, Dairy, Veterinary Sciences, Fisheries, Crop Sciences, Socio- economic, Computer Sciences, provides agricultural information of more than 3800 journals through cost—effective manner, Institutes/SAUs including BASU Library.

Krishikosh:

Krishikosh is an Institutional Repository under NARS. This repository is having collection of old and valuable books, records and various documents spread all over the country in different libraries of Research Institutions and State Agricultural Universities (SAUs) including Bihar Animal Sciences university, Patna . BASU library also digitized and made available their old/rare collection on Krishikosh.

1. Library Automation:

Since automation is emerging as boon for present day libraries, BASU library changed itself from a traditional library to a modern library with the adopting ICT for library's automation. University Library uses the below said modules for their housekeeping activities of Library, using Library Automation. Library also uses barcode for their books.

Implementation of KOHA

University Library has implemented KOHA Library automation Software .All the housekeeping activates of library has been performing KOHA. The key features of Koha, which include the following: A full-featured modern ILS, award-winning OSS with no licensing fee, compatible with multiple computer formats, web-based and integrative, copy cataloging, MARC support, tailored cataloging for special libraries, document management, managing online and offline resources, RSS feeds of new acquisitions, emailing and texting notices, printing barcodes, serial management, stock management, web-based OPAC, simple search interface, simple or comprehensive acquisitions, and multi-tasking.

Main Modules Koha

Circulation	Patrons	Advance Search	Lists
Cataloging	Authorities	Serials	Acquisition
Reports	Tools	Koha Administration	About Koha

User Services:

BASU Library providing various general as well as ICT-based services to their users, including the following:-

- >Current Awareness Services
- > Provision of Web access to OPACs
- Online instructions or information of content of Books through whatapp app;
- >Online reader's advisory services through whatapp app.



Circulation services (Issue/Returns):

Circulation services at the Service Desk provide the lending of library materials during all hours of library operation. Service Desk staff and Library professional staff are available to answer questions and help users to locate books and other materials in the library including membership card of all its users and then issue and return Books/Documents.

Reference Service:

Library houses important reference sources like Encyclopedias, Dictionaries, and Handbooks Manuals, Statistics, Yearbooks. The collection ranges from general to subject specific sources. All the reference sources are housed in the Reference section. Users can also contact staff on duty for any assistance.

Reprographic services:

Photocopy facilities is also provided charging nominal charges in the Reading Hall itself to scientists and students on their requisition received from its campuses/Units at nominal charge basis.

Conference/Training Organised:

- Bihar Animal Sciences University, Patna in collaboration with Association of Agricultural Librarians and Documentalists of India (AALDI) organized two days (4-5th September, 2018) National Conference of Agricultural Librarians & Users Community (NCALUC 2018) on the topic "Re-Engineering of Agricultural Libraries and Emerging Technologies: Challenges and Opportunities". About 200 delegates are participated in this event from all the Agricultural universities and also ICAR Institutes across the country.
- · CeRA(Consortium for e-Resources in Agriculture):

Bihar Animal Sciences University, Patna in collaboration with ICAR-DKMA and Informatics Publishing Limited, Bengaluru organized one day hands on Training for Librarians, Faculty, Students, Research Scholars etc. in the Conference Hall of the University on 06thSeptember, 2018.



Function Inaugurated by Vice-Chancellor



CeRA: Participants

KOHA Training:

Bihar Animal Sciences University Library uses Koha an open source Integrated Library Management System for its Library Automation. Staffs training has been given provided by M/S Jivesna, vasundhara, Ghaziabad(U.P)-201012 from time to time.

J-Gate Training:

All the Students, University Library Staffs and Faculties members have been participated in J-gate training.

Research publications:

- 1. Birendra Kumar, Ajit Kumar Sahoo, Pradeep Kumar Ray, P.C. Chandran, SubhashTaraphder, Ananta Kumar Das, SubhasisBatabyal, and ShankerDayal (2019) Evaluation of Environmental Heat Stress on Physical and Hormonal Parameters in Murrah Buffalo. *Journal of Animal Health and Production*, 7 (1): pp. 21-24
- 2. Kumar, B., Dayal, S., Sahoo, A. K., Taraphder, S., Ray, P. K. and Kumari, R., (2018) "Molecular Characterization of Heat Shock Protein 70 gene in riverine buffalo" Four Nucleotide Sequence, Submitted to GenBank NCBI, Accession No. MH814759, MH814760, MH814761, MH814762.
- 3. Kumar, B., Dayal, S., Sahoo, A. K., Taraphder, S., Das, A. K., Batbayal, S., Ray, P. K. and Chandran, P. C. (2018) SSCP typing of Heat Shock Protein 70 gene in Murrah Buffalo. Two Nucleotide Sequence, Submitted to GenBank NCBI, Submission No. 2177657.
- 4. Sanjay Kumar Bharti & Ishwer Singh, International Journal of Chemical Studies Published in International Conference on Food Security and Sustainable Agriculture "Morphological and Morphometrical Studies on The Phalanges and Sesamoid Bones of Blue Bull (*Boselephustragocamelus*)" NAAS SCORE- 5.31 ISSN: 2321-8528, 2018; SP4: 81-85.
- 5. Anil Kumar, Ranveer Kumar Sinha, Archana, GD Singh and Ajeet Kumar. (2019). Clinical management of jaundice in calves associated with bovine anaplasmosis. *Journal of Pharmacognosy and Phytochemistry*.8(3): 2769-2771.
- 6. Ankesh Kumar, Anil Kumar, CS Azad and Ajeet Kumar. (2018).Handling of pre-partum vaginal prolapsed in an advanced pregnant murrah she buffalo (*Bubalus bubalis*) followed by hypocalcaemia: A case report. The Pharma Innovation Journal, 7(4): 732-734.
- 7. G. D. Singh, Ajeet Kumar, Anil Gattani, Ramesh Tiwary, Anil Kumar and Rajesh Kumar. (2018). Surgical Management of Squamous Cell Carcinoma in Medial Canthus of Eye in Horse. Int. J. Curr. Microbiol. App. Sci: Special Issue-7: 4359-4362
- 8. S. K. Singh, S. P. Sahu and P. Kumar. 2018. Effect of Supplementation of Feed Additives in Diet on Growth Performance of Broiler Chicken. *Int. J. Curr. Microbiol. App. Sci.*; 7: 4802-4809.
- 9. Arun Kumar, S.P. Sahu, S.K. Singh, M. Sinha, S.K. Das Arya and Anish Kumar. 2018. Broiler Management and Feeding Practices Adopted by the Farmers of Bihar. *Int.J. Curr. Microbiol. App. Sci.*; 7: 5132-5139.
- 10. S. K. Singh, S. P. Sahu and P. Kumar. 2018. Influence of Supplementation of feed Additives on Carcass Characteristics, Mortality and Economics of Broiler Production. *Int.J. Curr. Microbiol. App. Sci.*; 7: 4810-4817.
- 11. D. K. Singh, S. P. Sahu and N. Teufel. 2019. Increasing dairy cows' productivity through new balanced concentrate feed: a study of Bihar, India. *Ind. J. anim. Nutr.*, Vol.-36 (1): 11-16.

- 12. R.S.D. Barman, M. K. Chaudhary, R. R. K. Sinha, Anjay, R. K. Verma and D. K. Jha, 2018. To Compare the Effect of Different Shade Materials on the Physiological and Biochemical Variables in Buffalo Calves in Summer Season. *International Journal of Livestock Research*, eISSN: 2277-1964 NAAS Score -5.36. Vol 8 (09) Sep'18
- 13. Kaushalendra Kumar, Chandramoni, Sanjay Kumar, R.R.K.Sinha and P.K.Singh. 2018. Feeds, Fodder and Livestock Resources of Bihar- An Overview. *Souvenir published by ANACON-2018*.
- 14. Kumar, K., Kumar, D., Singh, PK., Kumar, P., Kumar, A., and Shekhar, P. (2018). Non-infectious diseases: Milk Fever-A Review. National conference on Dairy Enterprises for sustainable development.26 27 Nov. 2018. Patna; Page: 50-55.
- 15. Kumar, D., Kumar, K. and Singh, M. K. (2018). Differential Diagnosis for tuberculosis in Indian Cattel- An Overview. National conference on Dairy Enterprises for sustainable development.26-27 Nov. 2018. Patna; Page: 75-76.
- 16. Imran Ali, S.K. Panda*, S. Pati, A.P. Acharya, S.K. Mishra1, G.R. Jena, G.P. Mohanty, L. Mohanty, S. Das and D. Kumar, Patho-morphological and genotoxic changes in induced Aflatoxicosis in White Pekin Ducks (*Anas platyrhynchos domesticus*) International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 8 Number 05 (2019)
- 17. Imran Ali, SK Panda, S Pati, SK Mishra, GP Mohanty, GR Jena, AP Acharya, PR Sahoo, L Mohanty, N Mishra, D Kumar and A Sarkar Growth performance and hemato-biochemical alterations in induced aflatoxicosis in white pekin ducks (*Anas platyrhynchos domesticus*) Journal of Entomology and Zoology Studies 2019; 7(3): 1291-1295
- 18. PallavShekhar, G.D.Singh, Sushil Kumar, Arvind Kumar Singh, SoumenChoudhary and Amita Shukla (2018). Wobbler syndrome in Labrador and Rotweiller pups: An emerging concern in canines: a review. International Journal of Science, environment and Technology.
- 19. Ranveer Kumar Sinha, Bibha Kumari, Anil Kumar, Ankesh Kumar And C.S. Azad. (2019). Sorghum Poisoning in Cattle and its Therapeutic Management. *Journal of AgriSearch*, 6(Special Issue): 108-109.
- 20. Ranveer Kumar Sinha, Bibha Kumari and Bipin Kumar (2018). Haemorrhagic Septicaemia in Buffaloes and its Therapeutic Management A Report of 3 Cases. *International Journal of Current Microbiology and Applied Sciences (IJCMAS)*, Special Issue 7:2633 2636
- 21. Bipin Kumar, D.B. Mondal and M.V. Jithin Oxidant markers and their impact on antioxidant status and erythrocyte fragility in theileriasis in calves. Indian J. Anim. Res. 2018.
- 22. Bipin Kumar, D. B. Mondal and M. V. Jithin. IPrevalence of Babesiosis in Cattle in Patna Region, India. nt. J. Curr. Microbiol. App. Sci (2018) Special Issue-7: 5167-5174.
- 23. Sinha M, Chandramoni, Singh PK, Kumar K., Kumar S, Arya, SK, Sarthi, RP Armanullah, M Kumar A, Yadav S Mandal AK, (2018). Effect of wild vetch (*Vicia sativa*) seed feeding



- on the growth performance and economics of Goats, *International Journal of Current Microbiology and Applied Sciences* 7: 1445-1450
- 24. Singh, PK., Kumar, A., Tiwari, D.P. Kumar, A Palod J (2018). Effect of graded levels of dietary turmeric (*Curcuma longa*) powder on performance of broiler chicken, *Indian Journal of Animal Nutrition*. 35 (4): 428-435
- 25. Sanjay Kumar, JP Sehgal, AK Puniya and Rajni Kumari (2018). *In-vitro* biodegradation of wheat straw and wheat straw based total mixed ration using zoospores of different elite ruminal fungi, Journal of Agrisearch, **5(4)**:269-275
- 26. Kumar, Ajit, Mandal, S.C., Baidya, S., Jas, R., Pandit, S., Batabyal, S. and Sar, T.K. (2019). Staining of some platyhelminthes by henna leaves and China rose flowers: An effort to develop eco-friendly stains. Paper presented in 19th Indian Veterinary Congress & XXVI Annual Conference of IAAVR on "Innovative progress in animal health and production for safe and secured food under one health perspective" held 1-2 Feb, 2019, WBUAFS, Kolkata.
- 27. Debbarma, A., Pandit, S., Jas, R., Baidya, S., Bachan, M. and Kumar, Ajit. (2019). Impact of naturally tick-borne haemoparasitic disease on serum biochemical profile in cattle of West Bengal, India. 3rd Regional Science & Technology Congress held 18-19 December, 2018 at Bidhannagar College, Kolkata
- 28. P. Kumar, S. V. Singh, S. Kumar. 2019. "Impact of subcutaneous injection of Melatonin on growth performance of growing Murrah buffaloes through amelioration of summer stress". Biological Rhythm Research, (Accepted).
- 29. Ankesh Kumar and CS Azad (2018). Therapeutic management of pyometra in a bitch. *The Pharma Innovation Journal* 2018:7(11)565-566
- 30. Ankesh Kumar (2018). Conception of a cow following administration of haematinic drug with vitamin in anaemic condition. *The Pharma Innovation Journal* 2018:7(12)292-293.
- 31. Anil Kumar, M K Singh, G D Singh1, Nikee Kumari And Shashi Kala (2019). Bovine Theileriosis and Its Therapeutic Management in Crossbred Cows- A Clinical Study In 3 Cases. *Journal of AgriSearch*, 6(Special Issue):119-121.
- 32. Anil Kumar, PallavShekhar, G.D. Singh, Ramesh Tiwary and Ajit Kumar (2019). Canine ehrlichiosis in a dachshund dog and itstherapeutic management. *Indian Journal of Canine Practice, Volume 11 (1):25-26.*
- 33. Ramesh Tiwary, Hareram, Anil Kumar, Archana Kumari, M Ksingh And N Ksingh (2019). Surgical Management of Coenurosis (Gid) in a kid. *Journal of AgriSearch*, 6(Special Issue):93-94.
- 34. Purushottam Kaushik, Anjay, Savita Kumari, ShankerDayal and Sunil Kumar. (2018). Antimicrobial resistance and molecularcharacterisation of *E. coli* from poultryin Eastern India. VeterinariaItaliana, 54 (3): 197-204.

- 35. Kumar, N. and Kumar, R. (2018). Screening of antibiotic residues in cow and buffalo milk samples of Nalanda district, Bihar. *In*: 18th Annual Conference of ISVPT and National Symposium on "One Health: Veterinary Pharmacology & Toxicology approaches held at College of Veterinary Science & A.H., Anand Agricultural University, Anand 388001, Gujrat from 5-7 December, 2018. pp 249-250.
- 36. Kumari Anjana, Mody S.K., Nirala R. K. and Archana. Comparative studies of minimum inhibitory concentration of conventional and moxifloxacin against common pathogenic strains. In XXXII Annual Convention-cum-Conference of Indian Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious Diseases (IAVMI) Organized by Bihar Animal Sciences University, Patna, during Feb. 4-6, 2019.
- 37. Kumari Anjana, S.K.Mody, R K Nirala and Archana. Safety of long acting moxifloxacin following intramuscular administration in goats. In National seminar on "Current Scenario and Future Strategies for Augmenting Productivity in Small Ruminants" Organized by Bihar Animal Sciences University, Patna, & Indian society for Sheep and Goat Production and utilization (ISSGPU), during Feb. 14-16, 2019.
- 38. Rakesh K, *Kumar Sanjeev* and Binita Rani (2018). Technological Innovations in the manufacture of Traditional fermented Dairy Products: A Review (ISSN:2319-7706, special issue-7 4657-4665) In: International Journal of Current Microbiology and Applied Sciences, NAAS Journal Rating: 5.38
- 39. Binita R., Rakesh K., K. Anjani and *Kumar Sanjeev* (2018) Control of Diarrhoea by Probiotic Fermented Food Blend (ISSN:2319-7706, International Journal of Current Microbiology and Applied Sciences special issue-7, pp. 3024-3030)
- 40. Binita Rani, Rakesh Kumar, Anjani Kumar and Sanjeev Kumar (2018). Effect of whey protin concentrate on manufacturing of nonfat fermented milkInternational Journal of Current Microbiology and Applied Sciences Special Issue-7: 3024-3030
- 41. Bisoi, P. K., Rakesh Kumar, Binita Rani, Singh, B. K, Barman, A. K. and Maity T.K. (2018). Effect of whey protin concentrate on manufacturing of nonfat fermented milk. International Journal of Microbiology Research Volume 10 (4): 1132-1134.
- 42. Awadhesh K. Jha, Sonia Kumari, J. Badshah, Rakesh Kumar and Binita Rani(2018). Chickpea in Rainfed Rice Fallows of India: Opportunities for Income and Employment Generation. *Int.J. Curr. Microbiol. App. Sci* (2018) Special Issue-7: 2996-3002.
- 43. Sonia Kumari, A.K Jha, Rakesh Kumar and Rajnikant (2018). Role of Microbial Biotechnology in Sustainable Agriculture and Environment. Role of Microbial Biotechnology in Sustainable Agriculture and Environment. Chemical Science Review and Letters. 7(25): 184-189.
- 44. Rakesh Kumar, Binita Rani, Sonia Kumari and A.K. Jha (2019). Effect of feeding symbiotic products on the serum cholesterol, HDL cholesterol and non- HDL cholesterol level of albino rats. Indian journal of Animal Research, 53 (3) 2019: 321-326 Online ISSN:0976-0555.
- 45. Sonia Kumari, AwdheshK.Jha and A.K.Singh. (2019) Isolation and Characterization of temperature and ethanol tolerant strain of *Saccharomyces cerevisiae* strains from naturally fermented juices in print Biotechnology Research Asia, Vol. 16(1).



- 46. Sonia Kumari, Leelawati, Rajni Kant and Upendra Singh.2017. Effect of Mixed Bioinocula on Growth and Efficiency of Azotobacter Species. International Journal of current Microbiology and Applied Science.6(10):I-13)
- 47. Rakesh Kumar, Binita Rani, Kavita Dalmia and B.K. Singh 2018. Effect of microwave radiation on shelflife of Barfi: Int J Curr Microbiol App Sci, 7 (2): 193-199.
- 48. P.K. Bisoi, Rakesh Kumar, Binita Rani and B.K. Singh 2018. Effect of Administration of Fatless Probiotic Food Containing Whey Protein Concentrate on the Faecal Count, Blood Cholesterol level and Growth Performance of Albino Rats: Int J Curr Microbiol App Sci, 7 (2): 200-209.
- I. Sanjeev Kumar, Suryamani Kumar, Rakesh Kumar and Sunil Kumar (2018). Recent Development of Dried Fermented Milk Products: A Review, International Journal of Current Microbiology and Applied Sciences, Special Issue-7: 2715-2726. ISSN: 2319-7706
- II. Rakesh Kumar, Sanjeev Kumar, Binita Rani and Suryamani Kumar (2018). Technological innovation in manufacture of Traditional fermented milk product: A Review, International Journal of Current Microbiology and Applied Sciences. Special Issue-7: 4657-4665. ISSN: 2319-7706.
- ii) Books and Book chapter
- 1. Kumari Sonia, Jha A.K, Rajanikant and Kumar Sanjeev (2018).Book chapter titled "Probiotics: Eat Microbes for A healthy Life" edited book title "Research in Microbiology (Volume 1) by AkiNik Publications, New Delhi,
- 2. Sonia Kumari, Awadhesh K.Jha, Rajnikant and Sanjeev Kumar. Probiotic: Eat microbes for a healthy life: In Research in Microbiology. Akinik Publications Chapter-3, Page 27-41.
- 3. Awadhesh K.Jha, R.K.P. Singh, and Sonia Kumari. Economic losses and Micro-Priorities for Livestock R&D for Bihar. In Research in Economics. Akinik Publication Chapter -6. Page. 69-100.
- 4. K. Sonia and Jha. K. Awadhesh. Role of ICT in Library Management. In Re-Engineering of Agricultural Libraries and Emerging Technologies: Challenges and Opportunities. (eds: Rathinasabapathy. G,Hans Raj, Veeranjaneyulu K, and Bharti V.K. National conference of Agricultural Libraries(NCALUSC-2018.4-5 September). BSP Publication. ISBN: 9789388305358. Page no 221-226.
- 5. Jha, Awadhesh K, Singh, RKP and Kumari, Sonia. 2018. Economic Losses and Micropriorities for Livestock R&D for Bihar. Chapter-6 in eds. Current Research in Economics (Volume 1), pp.75-110, AkiNik Publications, New Delhi.
- 6. Kumari, Sonia, Jha Awadhesh K, Rajanikant and Kumar sanjeev. 2018. Eat Microbes for healthy Life. In Kumar, Adesh (eds.), Research in Microbilogy (vol.1), pp. 25-51. EkiNik Publications, New Delhi.
- 7. Kumari, Sonia and Jha, Awadhesh K. Role of ICT in Library Management. 2018. In Re-Engineering of Agricultural Libraries and Emerging Technologies: Challenges and Opportunities. (eds: Rathinasabapathy. G,Hans Raj, Veeranjaneyulu K, and Bharti V.K. National conference of Agricultural Libraries(NCALUSC-2018.4-5 September). BSP Publication. ISBN: 9789388305358. Page no 221-226.

Extension

a. Extension Publication

- 1. Kumar S. (2018). Empowering women dairy farmers through scientific dairy farming practices (Vol. 88 (10): 1203–1206) In: Indian Journal of Animal Sciences NAAS Journal Rating: 6.19
- 2. Singh, N.K., *Kumar Sanjeev* and Kumar B.K. (2018) Impact of FLD of KVK on the yield of paddy (Sahbaghi) in Nalanda district of Bihar. (Vol: 7 (3): 3606-3610). International Journal of current microbiology and applied science NAAS Journal Rating: 5.38
- 3. Sinha RRK, Bharti, S.K., Kumar, K, K, Rajesh, Kumar, sanjeev(2018).Dugdhdetigayonkidekbhal (Vol.2, Issue No.6) DugdhaSarita published by IDA, New Delhi Nov-Dec, 2018 Pp 16-18
- 4. Kumar, S, S Rameshwar, Ku Rajani, Kumar Sanjeev. (2018) Kritrim Garwadhan se naselsudhar (Hindi Article) Dugdha Sarita published by IDA, New Delhi March-April ,2018 Pp 36-38
- 5. Kumar Sanjeev(2018) Dairy Vaivasai me Bacharo-BachariokaVigyanikPravandhan (Hindi Article) Krishi- PurviKiran published by ICAR-ATARI, Kolkata Vol. 4, Year 2018Jan, 2018 pp 12-14
- 6. Kumar Sanjeev et.al. (2019). Khoa and khoa based Mithaiyan (Hindi Article) In: KrishiManjushaVol 2, 2019.
- 7. Binita Rani and Rakesh Kumar(2018) Entrepreneurship Development through Mushroom Production. Souvenir published in International Conference on Rural Livelihood Improvement by Enhancing Farmers Income through Sustainable Innovative Agri. And Allied Enterprises at BIT, Patna on 30 Oct-1 Nov., pp
- 8. Binita Rani, Rakesh Kumar and Anjani Kumar(2018) Control of Diarrhoea by Probiotic Fermented Food Blend. Souvenir published in National Conference on Dairy Enterprises for Sustainable Development, 26-27 November, 2018 by DTA Bihar and SGDIT, Patna at BAMETI, Patna, pp.46-49
- 9. Rakesh Kumar, Binita Rani and Badshah, J.(2018) An Innovative Approach to Utilize Eastern India's Agricultural Produce in Synbiotic Food Formulations for Nutritional and Livelihood Security. Souvenir published in National Conference on Dairy Enterprises for Sustainable Development, 26-27 November, 2018 by DTA Bihar and SGDIT, Patna at BAMETI, Patna,pp.37-40
- 10. J.Badshah, Binita Rani and Rakesh Kumar. (2018)Management of Green House Gases and Carbon Footprint in Dairy Enterprises. Souvenir published in National Conference on Dairy Enterprises for Sustainable Development, 26-27 November, 2018 by DTA Bihar and SGDIT, Patna at BAMETI, Patna, pp.70-74
- 11. Rakesh Kumar, Binita Rani, Singh BK and Manoj Kumar (2019) Effect of feeding synbiotic products on the faecal flora of albiro rats. Souvenir published in xxxii Annual conference of Indian Association of Veterinarymicrobiologists, immunologists and specialists in infectious diseases (IAVMI) 2019 on 4-6 February, 2019 at BASU, Patna, pp-108



- Session in National Seminar on "Current Scenario and Future Strategies for augmenting productivity of small ruminants "organized by Indian Society for Sheep and Goat production and utilization CSWRI, Avikanagar, held from 14-16 February, 2019 at BASU, Patna, Bihar, India.
- **9. Dr. Sanjeev Kumar** received Patent (Application No. 128) for Development of Technology for manufacture of Feta cheese from buffalo milk using microbial rennet granted by Indian Patent office, New Delhi in 2019.
- **10. Best Poster Presentation Award, Dr. Sanjeev Kumar Received** Best Poster Presentation Award (2nd) during National conference on Challenges and Opportunities for the New Generation Dairy foods in India at CDT, SVVU, Tirupati in year 2018.
- **11. Outstanding Ph.D thesis Award,** Dr. Bipin Kumar Singh received, outstanding Ph.D. thesis award by Society for Agriculture Innovation and Development, Ranchi in 5th National Conference on Livelihood and Food Security in year 2018.
- **12. Distinguished Dairy Professional Award, Dr. Rakesh Kumar received** Distinguished Dairy Professional Award" for outstanding contribution in the field of Dairy Science and Technology in National Conference on "Dairy Enterprises for Sustainable Development" organised by Dairy Technocrats' Association, Bihar, Sanjay Gandhi Institute of Dairy Technology, BASU, Patna in year, 2018.
- **13. Best Teacher Award–2017, Dr. Rakesh Kumar received** Best Teacher Award–2017" by Society of Upliftment of Rural Economy, Varanasi in collaboration with BAU Sabour, DRPCAU Pusa, BASU Patna, ICAR- ATARI, Patna during on the eve of International Conference on "Enhancing Farmers' income through sustainable Innovative Agri and Allied Enterprises" at BIT Patna in year, 2018.
- **14. Best teacher award (SURE), Dr. Sonia Kumari received** Best teacher award (SURE) in International Award in International conference in the International Conference on Rural Livelihood Improvement for Enhancing Farmers Income through Sustainable Innovative Agri and Allied Enterprises in year, 2018.
- **15. Distinguished Scientist Award 2017,** Dr. Binita Rani received Distinguished Scientist Award 2017 in International Conference on Rural Livelihood Improvement by Enhancing Farmer's Income through Sustainable Innovative Agri and Allied Enterprises in year, 2018.
- **16. Distinguished Dairy Professional Award,** Dr. Binita Rani received Distinguished Dairy professional Award for outstanding contributation in the field of Dairy Extension & teaching on the occasion of National Conference on "Dairy Enterprises for Sustainable Development" organized by Dairy Technocrats' Association, Bihar, SGIDT, BASU, Patna in year, 2018.



12. Binita Rani, Rakesh Kumar, Bipin Kumar Singh and Anjani Kumar (2019) Enhancing Socio Economic status of Dairy Farmers by Probiotic Fermentation of Indigerously Developed Food. Souvenir published in 47th Dairy Industry Conference, 2019 on Innovative Approach for Enhancing Dairy Farmers Income on 7-9February, 2019 at Convention Centre, Patna, pp.216.

Award and Honours

Teacher of Bihar Animal Sciences University were awarded following awards in appreciation of their hard work in the field of Teaching and Research

- 1. Dr Manoj Kumar has been conferred with Bihar Govt. "Certificate of Commendation" from Environment, Forest & Climate Change Department, Bihar, Patna for control of outbreak of Avian Influenza "World Environment Day, 2019".
- 2. Dr. S. P. Sahu received Distinguished Scientist Award-2016 for outstanding contribution in the field of Veterinary Science and Animal Husbandry on the occasion of International Conference on Rural livelihood improvement for enhancing farmers' income through sustainable innovative Agri and Allied enterprises held from 30th October-1st November, 2018 at BIT Mesra Campus, Patna.
- 3. Dr. Sushma Kumari received 1st Prize in Oral Presentation on "Waste to wealth: Development of value added products from goat rumen meat; Patna during 14-16 Feb. 2019.
- 4. Dr Savita Kumari, received Women Scientist Award-2017 on the occasion of International conference on Rural Livelihood Improvement by enhancing Farmer's Income through sustainable Innovative Agri and Allied Enterprises (RLISAAe) during 30th October to 01st November 2018, by Society for upliftment of Rural Economy, Varanasi, India.
- 5. Dr. Kaushal Kumarhas received **Distinguished Dairy Professional Award** for outstanding contribution in the field of Dairy Research and education on the occasion of National conference on Dairy Enterprises for sustainable development during 26 -27 Nov. 2018 at BAMETI. Patna.
- **6. Best Teacher Award 2016** received by **Dr. Kaushalendra Kumar** for his outstanding contribution in the field of Veterinary Science and Animal Husbandry on the occasion International Conference on "Rural Livelihood Improvement for Enhancing Farmers Income through Sustainable Innovative Agri and Allied Enterprises" (RLISAAe) organized by Society for Upliftment of Rural Economy (SURE), Varanasi, held from 30th October to 1st November, 2018 at BIT Mesra Campus, Patna, Bihar, India.
- 7. Dr. Kaushalendra Kumar received best Poster Presentation Award (Second Place) during Technical Session in National Seminar on "Current Scenario and Future Strategies for augmenting productivity of small ruminants "organized by Indian Society for Sheep and Goat production and utilization CSWRI, Avikanagar, held from 14-16 February, 2019 at BASU, Patna, Bihar, India.
- 8. Dr. Sanjay Kumar received Best Oral Presentation Award (First Place)during Technical



Annexure – I Faculty Positions

Sanjay Gandhi Institute of Dairy Technology

S. No.	Name	Designation
1.	Dr. Balbir Singh Beniwal	Dean (Dairy Technology)
2.	Dr. Arvind Kumar Thakur	University Professor(Dairy Extension)
3.	Dr. Jahangir Badshah	University Professor(Dairy Engineering)
4.	Dr. Krishna Murari	Assistant Professor (Dairy Engineering)
5.	Dr. Sanjeev Kumar	Associate Professor(Dairy Technology)
6.	Dr. Rakesh Kumar	Associate Professor (Dairy Microbiology)
7.	Dr. Binita Rani	Associate Professor (Dairy Chemistry)
8.	Dr. Sonia Kumari	Assistant Professor, (Dairy Microbiology)
9.	Dr B. K. Singh	Assistant Professor, (Dairy Technology)
10.	Dr. B.K. Bharti (Study leave)	Assistant Professor (Dairy Chemistry)
11.	Dr. Awadhesh Kumar Jha	Assistant Professor (Dairy Business Management
12.	Mr. Suryamani Kumar (Study leave)	Assistant Professor (Dairy Technology)

Annexure – II (Staff position)

S. No.	Name of Employees	Designation
1	Dr. Arun Kumar	Assistant Comptroller
2	Sh. Binod Singh	U.D.C
3	Sh. A.K. Choudhary	U.D.C
4	Sh. C.D. Tiwary	U.D.C
5	Sh. Amardeep Singh	Tech. Assistant
6	Sh. S.K. Nirala.	Tech. Assistant
7.	Smt. Kumari Rashmi	Tech. Assistant
8.	Sh. Yogendra Safi	Tech. Assistant
9.	Sh. Pankaj Kumar	Tech. Assistant
10.	Sh. Manish Kumar	Tech. Assistant
11.	Smt. Anamika Ranjan	Tech. Assistant

12.	Sh. R.K. Mishra	Tech. Assistant
13.	Sh. Uma Kant	Tech. Assistant
14.	Sh. Upendra Kr. Singh	Tech. Assistant
15.	Sh. Alok Kumar	Tech. Assistant
16.	Sh. Sanjay Kr. Singh	Tech. Assistant
17.	Sh. Sanjay Kumar	Tech. Assistant
18.	Sh. Ashok Kumar	Driver
19.	Sh. Dilip Kumar Singh	Driver
20.	Sh. Shyam Kishore	Electrician
21.	Sh. Sanjeev Kumar	Mechanic (Ref.)
22.	Sri. Arun Kumar	Store Clerk
23.	Sri. Mukesh Kumar	Store Clerk
24.	Sri. Raj Kumar	Store Clerk
25.	Sh. Prabhash Kr. Singh	Dup. Operator
26.	Md. Kaiser	Lab. Attendant
27.	Sh. Awadhesh Pd. Singh	Lab. Attendant
28.	Sh. Lalan Pd. Singh	Lab. Attendant
29.	Sh. Sharwan Kumar	Lab. Attendant
30.	Sh. Udesh Tanti	Choukidar
31.	Sh. Chandsi Prasad	Lab. Attendant
32.	Md. Ansar	Lab. Attendant
33.	Smt. Rinki Kumari	Lab. Attendant
34.	Sri. Brahmdeo Thakur	Lab. Attendant
35.	Sri. Uday Paswan	Lab. Attendant
36.	Sri Mahavir Prasad	Lab. Attendant
37.	Sh. Baunu Pasawn	Lab. Attendant
38.	Sh. Khela Pasawn	Lab. Attendant
39.	Sh. Naresh Mandal	Lab. Attendant
40.	Sri. Sikandar Yadav	Lab. Attendant
41.	Sri. Rajendra Yadav	Lab. Attendant
42.	Sri. Raj Kishore Rai	Lab. Attendant

		SCHOOL SECTION CONTRACTOR CONTRACTOR
43.	Sri. Chhote Lal Mandal	Lab. Attendant
44.	Sri. Pardip Pandit	Lab. Attendant
45.	Sri. Virendra Yadva	Lab. Attendant
46.	Sri. Shukhdeo Ram	Lab. Attendant
47.	Sri. Sugriv Yadav	Lab. Attendant
48.	Sri. Bal Krishna Yadav	Lab. Attendant
49.	Sri. Ram Sipahi Yadav	Lab. Attendant
50.	Sri. Kishun Paswan	Lab. Attendant
51.	Sri. Binod Prasad Yadav	Lab. Attendant
52.	Sri. Kesho Yadav	Lab. Attendant
53.	Sri. Navin Kumar Ram	Lab. Attendant
54.	Sri. Bajrangi Paswan	Lab. Attendant
55.	Sri. Anil Thakur	Lab. Attendant
56.	Smt. Jaya Devi	Lab. Attendant
57.	Sri. Raja Malakar	Lab. Attendant
58.	Sri. Ramji Yadav	Lab. Attendant
59.	Md. Mumtaj	Lab. Attendant
60.	Sri Shiv Narayan Mandal	Lab. Attendant
61.	Sri. Ramnarayan Mahto	Lab. Attendant
62.	Sri. Munilal Mahto	Lab. Attendant
63.	Sri. Balkishun Das	Lab. Attendant
64.	Sri. Bablu Kumar	Peon
65.	Sri. Bishnudeo Singh	Peon
66.	Sri. Naresh Rai	Peon
67.	Sri. Bahadur Paswan	Peon
68.	Sri. Ranjeet Kumar	Peon
69.	Sri. Gariban Yadav	Helper Cleaner
70.	Sri. Ram Swaroop Mandal	Helper Cleaner
71.	Sri. Dilip Kumar Yadav	Helper Cleaner
72.	Miss Afreen Khanam	Lab. Attendant

Bihar Veterinary College

S. No.	Name	Designation
1.	Dr J K Prasad	Dean
2.	Dr. K.G. Mandal,	Univ. Professor, AGB
3.	Dr. Birendra Kumar,	Asstt. Prof., AGB
4.	Dr. R K Singh,	Asstt. Prof, AGB
5.	Dr. Chandramoni,	Professor cum Chief Scientist, ANN
6.	Dr. Pankaj Kumar Singh,	Asstt. Prof, ANN
7.	Dr. Kaushalendra Kumar	Asstt. Prof, ANN
8.	Dr. Sanjay Kumar ,	Asstt. Prof, ANN
9.	Dr. Gyan Dev Singh,	Asstt. Prof, Clinical Complex
10.	Dr. Anil Kumar,	Asstt. Prof, Clinical Complex
11.	Dr. Ankesh Kumar,	Asstt. Prof, Clinical Complex
12.	Dr. S.P.Sahu	Asstt. Prof, LPM
13.	Dr .Ravi Kant Nirala,	Asstt. Prof, LPM
14.	Dr. Ravi Ranjan.Kumar Sinha	Asstt. Prof, LPM
15.	Dr. Sanjay Kumar	Asstt. Prof., LPM
16.	Dr. Amrendra Kishore	Asstt. Prof., LPM
17.	Dr. Sushma Kumari	Asstt. Prof., LPT
18.	Dr. Pankaj Kumar (Exten.)	Asstt. Prof., VAHE
19.	Dr. Saroj Kumar Rajak	Asstt. Prof., VAHE
20.	Dr. S.K. Bharti	Asstt. Prof., VAN
21.	Dr. N. K. Singh,	Asstt. Prof., VAN
22.	Dr. A.K.Gautam,	Asstt. Prof., VAN
23.	Dr. Manoj Kr. Singh,	Asstt. Prof., VAN
24.	Dr. Manoj Kumar Sinha	Asstt. Prof, VAN

25. Dr. Dr. Dr. payaman Sengupta Asstt. Prof. VGO 26. Dr. C.S. Azad Asstt. Prof. VGO 27. Dr. Pallav Shekhar Asstt. Prof. VMD 28. Dr. Bijin Kumar Asstt. Prof. VMD 29. Dr. Arvind Kr. Das Asstt. Prof. VMD 30. Dr. Ranveer Kr. Sinha Asstt. Prof. VMD 31. Dr. Manoj Kumar Asstt. Prof. VMC 32. Dr. Sudha Kumari, Asstt. Prof. VMC 33. Dr. Savita Kumari, Asstt. Prof. VMC 34. Dr. Pankaj Kumar, Asstt. Prof. VMC 35. Dr. S. R. P. Sinha, Univ. Professor 36. Dr. Pankaj Kumar (Para) Asstt. Prof. VPA 37. Dr. R.K. Sharma Asstt. Prof. VPA 38. Dr. Ajit Kumar Asstt. Prof. VPA 39. Dr Anil Gattani Asstt. Prof. VPB 40. Dr. Ajeet Kumar Asstt. Prof. VPB 41. Dr. Purushottam Kaushik Asstt. Prof. VPH 42. Dr. Anjay Asstt. Prof., VPP 43. Dr. Kaushal Kumar <t< th=""><th></th><th></th><th></th></t<>			
27. Dr. Pallav Shekhar Asstt. Prof, VMD 28. Dr. Bipin Kumar Asstt. Prof, VMD 29. Dr. Arvind Kr. Das Asstt. Prof, VMD 30. Dr. Ranveer Kr. Sinha Asstt. Prof, VMD 31. Dr. Manoj Kumar Asstt. Prof, VMC 32. Dr. Sudha Kumari, Asstt. Prof, VMC 33. Dr. Savita Kumari, Asstt. Prof, VMC 34. Dr. Pankaj Kumar, Asstt. Prof, VMC 35. Dr. S. R. P. Sinha, Univ. Professor 36. Dr. Pankaj Kumar (Para) Asstt. Prof, VPA 37. Dr. R.K. Sharma Asstt. Prof, VPA 38. Dr. Ajit Kumar Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof, VPP 44. Dr. Eapak Kumar Asstt. Prof, VPP 45. Dr. Deepak Kumar Asstt. Prof, VPT 46. Dr. Sanjiv Kumar Asstt. Prof, VPT	25.	Dr. Dipyaman Sengupta	Asstt. Prof, VGO
28. Dr. Bipin Kumar Asstt. Prof, VMD 29. Dr. Arvind Kr. Das Asstt. Prof, VMD 30. Dr. Ranveer Kr. Sinha Asstt. Prof, VMD 31. Dr. Manoj Kumar Asstt. Prof, VMC 32. Dr. Sudha Kumari, Asstt. Prof, VMC 33. Dr. Savita Kumari, Asstt. Prof, VMC 34. Dr. Pankaj Kumar, Asstt. Prof, VMC 35. Dr. S. R. P. Sinha, Univ. Professor 36. Dr. Pankaj Kumar (Para) Asstt. Prof, VPA 37. Dr. R.K. Sharma Asstt. Prof, VPA 38. Dr. Ajit Kumar Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPB 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof, VPP 44. Dr. Imran Ali Asstt. Prof, VPP 45. Dr. Deepak Kumar Asstt. Prof, VPP 46. Dr. Sanjiv Kumar Asstt. Prof, VPT 48. Dr. Archana Asstt. Prof, VPT<	26.	Dr. C.S.Azad	Asstt. Prof, VGO
29. Dr. Arvind Kr. Das Asstt. Prof, VMD 30. Dr. Ranveer Kr. Sinha Asstt. Prof, VMD 31. Dr. Manoj Kumar Asstt. Prof, VMC 32. Dr. Sudha Kumari, Asstt. Prof, VMC 33. Dr. Savita Kumari, Asstt. Prof, VMC 34. Dr. Pankaj Kumar, Asstt. Prof, VMC 35. Dr. S. R. P. Sinha, Univ. Professor 36. Dr. Pankaj Kumar (Para) Asstt. Prof, VPA 37. Dr. R.K. Sharma Asstt. Prof, VPA 38. Dr. Ajit Kumar Asstt. Prof, VPB 40. Dr. Ajiet Kumar Asstt. Prof, VPB 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof, VPP 44. Dr. Imran Ali Asstt. Prof, VPP 45. Dr. Deepak Kumar Asstt. Prof, VPP 46. Dr. Sanjiv Kumar Asstt. Prof, VPT 48. Dr. Archana Asstt. Prof, VPT 49. Dr. Rashmirekha Kumari, Asstt. Pr	27.	Dr. Pallav Shekhar	Asstt. Prof, VMD
30. Dr. Ranveer Kr. Sinha 31. Dr. Manoj Kumar Asstt. Prof, VMC 32. Dr. Sudha Kumari, Asstt. Prof, VMC 33. Dr. Savita Kumari, Asstt. Prof, VMC 34. Dr. Pankaj Kumar, Asstt. Prof, VMC 35. Dr. S. R. P. Sinha, Dr. Pankaj Kumar (Para) Asstt. Prof, VPA 36. Dr. Pankaj Kumar (Para) Asstt. Prof, VPA 37. Dr. R.K. Sharma Asstt. Prof, VPA 38. Dr. Ajit Kumar Asstt. Prof, VPA 39. Dr Anil Gattani Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPB 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	28.	Dr. Bipin Kumar	Asstt. Prof, VMD
31. Dr. Manoj Kumar 32. Dr. Sudha Kumari, 33. Dr. Savita Kumari, 34. Dr. Pankaj Kumar, 35. Dr. S. R. P. Sinha, 36. Dr. Pankaj Kumar (Para) 37. Dr. R.K. Sharma 38. Dr. Ajit Kumar 39. Dr Anil Gattani 40. Dr. Ajeet Kumar 40. Dr. Purushottam Kaushik 40. Dr. Anjay 41. Dr. Purushottam Kaushik 42. Dr. Anjay 43. Dr. Kaushal Kumar 43. Dr. Kaushal Kumar 43. Asstt. Prof., VPB 44. Dr. Imran Ali 45. Dr. Deepak Kumar 45. Dr. Nirbhay Kumar 45. Dr. Nirbhay Kumar 45. Dr. Rashmirekha Kumar 45. Dr. Rashmirekha Kumari, 45. Dr. Rashmirekha Kumari, 45. Dr. Ramesh Kr. Nirala 50. Dr. Arstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala 53. Dr. Matthesh Kumar Asstt. Prof., VPT 54. Dr. Archana Asstt. Prof., VPT 55. Dr. Ramesh Tiwary Asstt. Prof, VSR Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	29.	Dr. Arvind Kr. Das	Asstt. Prof, VMD
32. Dr. Sudha Kumari, Asstt. Prof, VMC 33. Dr. Savita Kumari, Asstt. Prof, VMC 34. Dr. Pankaj Kumar, Asstt. Prof, VMC 35. Dr. S. R. P. Sinha, Univ. Professor 36. Dr. Pankaj Kumar (Para) Asstt. Prof, VPA 37. Dr. R.K. Sharma Asstt. Prof, VPA 38. Dr. Ajit Kumar Asstt. Prof, VPA 39. Dr Anil Gattani Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPH 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof., VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 50. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VSR 54. Dr. Archana Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	30.	Dr. Ranveer Kr. Sinha	Asstt. Prof, VMD
33. Dr. Savita Kumari, Asstt. Prof, VMC 34. Dr. Pankaj Kumar, Asstt. Prof, VMC 35. Dr. S. R. P. Sinha, Univ. Professor 36. Dr. Pankaj Kumar (Para) Asstt. Prof, VPA 37. Dr. R.K. Sharma Asstt. Prof, VPA 38. Dr. Ajit Kumar Asstt. Prof, VPB 39. Dr Anil Gattani Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPB 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof, VPP 44. Dr. Imran Ali Asstt. Prof, VPP 45. Dr. Deepak Kumar Asstt. Prof, VPP 46. Dr. Sanjiv Kumar Asstt. Prof, VPT 47. Dr. Nirbhay Kumar Asstt. Prof, VPT 48. Dr. Archana Asstt. Prof, VPT 50. Dr. Anjana Kumari, Asstt. Prof, VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, V	31.	Dr. Manoj Kumar	Asstt. Prof, VMC
34. Dr. Pankaj Kumar, Asstt. Prof, VMC 35. Dr. S. R. P. Sinha, Univ. Professor 36. Dr. Pankaj Kumar (Para) Asstt. Prof, VPA 37. Dr. R.K. Sharma Asstt. Prof, VPA 38. Dr. Ajit Kumar Asstt. Prof, VPA 39. Dr Anil Gattani Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPB 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof., VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	32.	Dr. Sudha Kumari,	Asstt. Prof, VMC
35. Dr. S. R. P. Sinha, Univ. Professor 36. Dr. Pankaj Kumar (Para) Asstt. Prof, VPA 37. Dr. R.K. Sharma Asstt. Prof, VPA 38. Dr. Ajit Kumar Asstt. Prof, VPA 39. Dr Anil Gattani Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPB 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof., VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPT 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Ass	33.	Dr. Savita Kumari,	Asstt. Prof, VMC
36. Dr. Pankaj Kumar (Para) 37. Dr. R.K. Sharma Asstt. Prof, VPA 38. Dr. Ajit Kumar Asstt. Prof, VPA 39. Dr Anil Gattani Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPB 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof., VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR Asstt. Prof, VSR	34.	Dr. Pankaj Kumar,	Asstt. Prof, VMC
37. Dr. R.K. Sharma 38. Dr. Ajit Kumar 39. Dr Anil Gattani 40. Dr. Ajeet Kumar 40. Dr. Ajeet Kumar 41. Dr. Purushottam Kaushik 42. Dr. Anjay 43. Dr. Kaushal Kumar 43. Dr. Kaushal Kumar 44. Dr. Imran Ali 45. Dr. Deepak Kumar 46. Dr. Sanjiv Kumar 47. Dr. Nirbhay Kumar 48. Dr. Archana 48. Dr. Archana 48. Dr. Rashmirekha Kumari, 50. Dr. Anjana Kumari, 51. Dr. Ramesh Kr. Nirala 52. Dr. Pramod Kumar Asstt. Prof., VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archana Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	35.	Dr. S. R. P. Sinha,	Univ. Professor
38. Dr. Ajit Kumar 39. Dr Anil Gattani 40. Dr. Ajeet Kumar 41. Dr. Purushottam Kaushik 42. Dr. Anjay 43. Dr. Kaushal Kumar 45. Dr. Deepak Kumar 46. Dr. Deepak Kumar 47. Dr. Nirbhay Kumar 48. Dr. Archana 48. Dr. Archana 48. Dr. Archana 48. Dr. Rashmirekha Kumari, 48. Dr. Rashmirekha Kumari, 50. Dr. Anjana Kumari, 51. Dr. Ramesh Kr. Nirala 52. Dr. Pramod Kumar Asstt. Prof., VPT 53. Dr. Mithilesh Kumar Asstt. Prof., VPT 54. Dr. Archana Kumari Asstt. Prof., VPT Asstt. Prof., VSR	36.	Dr. Pankaj Kumar (Para)	Asstt. Prof, VPA
39. Dr Anil Gattani Asstt. Prof, VPB 40. Dr. Ajeet Kumar Asstt. Prof, VPB 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof., VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archana Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	37.	Dr. R.K. Sharma	Asstt. Prof, VPA
40. Dr. Ajeet Kumar Asstt. Prof, VPB 41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof., VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archana Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	38.	Dr. Ajit Kumar	Asstt. Prof, VPA
41. Dr. Purushottam Kaushik Asstt. Prof, VPH 42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof., VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof., VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	39.	Dr Anil Gattani	Asstt. Prof, VPB
42. Dr. Anjay Asstt. Prof, VPH 43. Dr. Kaushal Kumar Asstt. Prof., VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Sol. Dr. Anjana Kumari, Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archana Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	40.	Dr. Ajeet Kumar	Asstt. Prof, VPB
43. Dr. Kaushal Kumar Asstt. Prof., VPP 44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archana Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	41.	Dr. Purushottam Kaushik	Asstt. Prof, VPH
44. Dr. Imran Ali Asstt. Prof., VPP 45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Solution Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archaa Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	42.	Dr. Anjay	Asstt. Prof, VPH
45. Dr. Deepak Kumar Asstt. Prof., VPP 46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	43.	Dr. Kaushal Kumar	Asstt. Prof., VPP
46. Dr. Sanjiv Kumar Asstt. Prof., VPP 47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	44.	Dr. Imran Ali	Asstt. Prof., VPP
47. Dr. Nirbhay Kumar Asstt. Prof., VPT 48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	45.	Dr. Deepak Kumar	Asstt. Prof., VPP
48. Dr. Archana Asstt. Prof., VPT 49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	46.	Dr. Sanjiv Kumar	Asstt. Prof., VPP
49. Dr. Rashmirekha Kumari, Asstt. Prof., VPT 50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	47.	Dr. Nirbhay Kumar	Asstt. Prof., VPT
50. Dr. Anjana Kumari, Asstt. Prof., VPT 51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	48.	Dr. Archana	Asstt. Prof., VPT
51. Dr. Ramesh Kr. Nirala Asstt. Prof., VPT 52. Dr. Pramod Kumar Asstt. Prof, VPT 53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	49.	Dr. Rashmirekha Kumari,	Asstt. Prof., VPT
52.Dr. Pramod KumarAsstt. Prof, VPT53.Dr. Mithilesh KumarAsstt. Prof, VSR54.Dr. Archna KumariAsstt. Prof, VSR55.Dr. Ramesh TiwaryAsstt. Prof, VSR	50.	Dr. Anjana Kumari,	Asstt. Prof., VPT
53. Dr. Mithilesh Kumar Asstt. Prof, VSR 54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	51.	Dr. Ramesh Kr. Nirala	Asstt. Prof., VPT
54. Dr. Archna Kumari Asstt. Prof, VSR 55. Dr. Ramesh Tiwary Asstt. Prof, VSR	52.	Dr. Pramod Kumar	Asstt. Prof, VPT
55. Dr. Ramesh Tiwary Asstt. Prof, VSR	53.	Dr. Mithilesh Kumar	Asstt. Prof, VSR
	54.	Dr. Archna Kumari	Asstt. Prof, VSR
56. Dr. Rajesh Kumar Asstt. Prof, VSR	55.	Dr. Ramesh Tiwary	Asstt. Prof, VSR
	56.	Dr. Rajesh Kumar	Asstt. Prof, VSR

