



OFFICE OF DIRECTORATE OF RESIDENT INSTRUCTION-CUM-  
DEAN, POST GRADUATE STUDIES  
BIHAR ANIMAL SCIENCES UNIVERSITY  
BIHAR VETERINARY COLLEGE CAMPUS, PATNA – 14

**Prof. (Dr.) Veer Singh**

Ph.D., FIAVP, FNAVS, FNABS, FIAAVR, FISNS, FSPFCA

**DRI-cum-DEAN, PGS**

L. No.: 129/DRI-cum-DEAN, PGS/BASU, Patna

Dated: 15/07/2023

Notice

It is informed to all Ph.D. students of Bihar Veterinary College and Master's students of Sanjay Gandhi Institute of Dairy Technology, batch 2022-23 that the following courses have been offered in 2<sup>nd</sup> semester, as given below. All concerned students of are advised to get them register on 17<sup>th</sup> July, 2023.

**Department of Animal Nutrition**

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	ANN – 701	Modern Concepts in Feeding of Ruminants	2+0 = 2	Dr. Pankaj Kumar Singh Dr. Sankhanath Koley Dr. Sanjay Kumar
2.	ANN – 702	Forage in Animal Nutrition	1+0 = 1	Dr. Kaushalendra Kumar Dr. Dharmendra Kumar Dr. Sankhanath Koley
3.	ANN – 703	Recent Concepts in Feeding of Non-Ruminants	1+0 = 1	Dr. Sanjay Kumar Dr. Pankaj Kumar Singh Dr. Dharmendra Kumar
4.	ANN – 704	Advances in Rumen Metabolism	1+1 = 2	Dr. Sankhanath Koley Dr. Kaushalendra Kumar Dr. Dharmendra Kumar

**Department of Veterinary Anatomy**

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	ANA-701	Myology, angiology, neurology and aesthesiology of equine, canine and porcine	2+1=3	Dr. A.K.Gautam Dr. S.K.Bharti
2.	ANA-706	Theory and applications of electronmicroscopy	1+1=2	Dr.S.K.Bharti
3.	ANA-708	Applied embryology and teratology	1+1=2	Dr. A.K.Gautam Dr. M. K. Sinha

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4.	ANA-710	Gross anatomy of laboratory animals	1+1=2	Dr.S.K.Bharti Dr. A.K.Gautam
5.	ANA-716	Doctoral research	0+20=20	Concerned Advisor

#### Department of Vety. & A.H. Extension Education

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	EXT-701	Organizational Leadership and Management	2+0=2	Dr. Pankaj Kumar Dr. Saroj K. Rajak Dr. Puspendra Kr. Singh
2.	EXT-702	Recent Trends in Research Techniques in Social Sciences	2+1=3	Dr. Saroj K. Rajak Dr. Pankaj Kumar Dr. Puspendra Kr. Singh

#### Department of Veterinary Biochemistry

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	BIOCHEM 502	Techniques in Biochemistry	2+2=4	Dr. Ajeet Kumar,

#### Department of Veterinary Gynaecology & Obstetrics

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	VGO-603	Advances in Andrology and Male Infertility	2+1=3	Dr. D. Sengupta* Dr. Bhavna Dr. Ankesh Kumar
2.	VGO-604	Reproductive Biotechnology	1+1=2	Dr. S. K. Sheetal* Dr. D. Sengupta Dr. Dushyant Yadav
3.	VGO-607	Clinical Practice-II	0+3=3	Dr. Bhavna* Dr. S. K. Sheetal Dr. Ankesh Kumar
4.	VGO-691	Doctoral Seminar -I	1+0=1	Dr. D. Sengupta (Major Advisor)
5.	VGO-699	Doctoral Research	0+8=8	Dr. D. Sengupta (Major Advisor)

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### Department of Veterinary Medicine

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	VMD 602	Farm Animal Cardiopulmonary and Urinary System Diseases	2+0=2	Dr. Arvind Kumar Das Dr. Pallav Shekhar
2.	VMD 604	Farm Animal Neonatology	1+0=1	Dr. Ravi Shankar Kumar Mandal
3.	VMD 605	Herd Health Management	2+1=3	Dr. Pallav Shekhar Dr. Mritunjay Kumar Dr. Ranveer Kumar Sinha
4.	VMD 607	Advances in Neurological and Musculoskeletal System Diseases of Canine and Feline	1+0=1	Dr. Mritunjay Kumar
5.	VMD 609	Dermatology and Endocrinology	1+0=1	Dr. Anil Kumar
6.	VMD 613	Emergency and Critical Care Medicine	1+1=2	Dr. Ranveer Kumar Sinha Dr. Arvind Kumar Das
7.	VMD 615	Prevention and Control of Infectious Diseases of Ruminants	2+0=2	Dr. Ranveer Kumar Sinha Dr. Pallav Shekhar
8.	VMD 617*	Clinical Practice – II	0+2=2	Dr. Bipin Kumar Dr. Ranveer Kumar Sinha
9.	VMD 618*	Clinical Practice – III	0+2=2	Dr. Anil Kumar Dr. Mritunjay Kumar
10.	VMD 691	Doctoral Seminar – I	1+0=1	Dr. Pallav Shekhar
11.	VMD 692	Doctoral Seminar – II	1+0=1	Dr. Bipin Kumar

### Department of Animal Genetics and Breeding

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	AGB-701	Molecular Genetics – II	2+0 = 2	Dr. Birendra Kr. Dr. R. K. Singh
2.	AGB-702	Trends in Animal Breeding	2+0 = 2	Dr. Birendra Kr. Dr. J. P. Gupta
3.	AGB-703	Biometrical Genetics - II	2+1 = 3	Dr. R. K. Singh Dr. J. P. Gupta
4.	AGB-706	Animal Cytogenetics and Immunogenetics II	2+0 = 2	Dr. R. K. Singh Dr. Birendra Kr.
5.	AGB-707	Statistical Software in Animal Breeding	1+1 = 2	Dr. J. P. Gupta Dr. R. K. Singh

**Department of Veterinary Physiology**

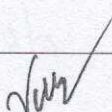
S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	VPY-701	Applied Physiology of Body Fluids & Electrolytes	2+1=3	Dr. Pramod Kumar
2.	VPY-703	Recent trends in ruminant digestion	2+1=3	Dr. Pankaj Kumar Choudhary
3.	VPY-704	Recent trends in neuroendocrinology	2+1=3	Dr. Anandita Srivastava

**Department of Veterinary Parasitology**

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	VPA-603	Entomology and Acarology	2+1=3	Dr. R. K. Sharma Dr. Panakj Kumar Dr. Shyma K.P. Dr. Veer Singh
2.	VPA-604	Advances in Protozoology	2+1=3	Dr. Ajit Kumar Dr. R. K. Sharma Dr. Pankaj Kumar Dr. Shyma K.P
3.	VPA-606	Molecular Diagnostic and Vaccine Development in Parasitology	2+1=3	Dr. Shyma K.P Dr. Ajit Kumar Dr. Pankaj Kumar Dr. R. K. Sharma
4.	VPA-611	Molecular Veterinary Parasitology	2+0=2	Dr. Pankaj Kumar Dr. Shyma K.P Dr. R. K. Sharma Dr. Ajit Kumar

**Department of Livestock Products Technology**

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	LPT 705	Biotechnological Techniques and Quality Control of Livestock Products	1+1=2	Dr. Sushma Kumari
2.	LPT 706	Ethnic and Organic Meat and Milk Products	1+1=2	Dr. Sushma Kumari
3.	LPT 707	Industrial and Entrepreneurial Training	0+2=2	Dr. Sushma Kumari
4.	LPT 708	Current Trends in Disposal and Utilization of waste from Meat and Dairy Industry	1+1=2	Dr. Sushma Kumari
5.	LPT 709	Advances in Egg and Egg Products Technology	1+1=2	Dr. Sushma Kumari
6.	LPT 792	Seminar II	1+0=1	Dr. Sushma Kumari
7.	LPT-799	Research	-	Dr. Sushma Kumari



## Department of Livestock Production Management

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	LPM-702	Recent Developments in Small Ruminants Production Management	2+1=3	Dr. S. P. Sahu Dr. R. K. Nirala
2.	LPM-704	Livestock and Environment	1+0=1	Dr. R. R. K. Sinha Dr. R. K. Nirala
3.	LPM-706	Recent Developments in Welfare of Farm Animals	1+0=1	Dr. Sanjay Kumar Dr. R. R. K. Sinha
4.	LPM-708	Precision Livestock Farming	1+1=2	Dr. D. N. Singh Dr. R. R. K. Sinha
5.	LPM-792	Seminar –II	1+0=1	Dr. S. P. Sahu
6.	LPM-799	Research	0+18=18	Dr. R. R. K. Sinha Dr. S. P. Sahu

## Department of Veterinary Surgery & Radiology

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	VSR-602	Clinical Practice-II	0+2=2	Dr. Mithilesh Kumar Dr. Archana Kumari
2.	VSR-607	Advances in Diagnostic Imaging Techniques	2+1=3	Dr. G.D Singh Dr. Rajesh Kumar
3.	VSR-608	Advances in Orthopedics	2+1=3	Dr. Ramesh Tiwary Dr. Mithilesh Kumar

## Department of Veterinary Microbiology

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	VMC 601	Advances in Veterinary Bacteriology	2+1	Dr. Manoj Kumar Dr. Pankaj Kumar
2.	VMC 602	Advances in Veterinary Mycology	2+1	Dr. Pankaj Kumar Dr. Manoj Kumar
3.	VMC 603	Bacterial Genetics	2+0	Dr. Manoj Kumar Dr. Pankaj Kumar
4.	VMC 606	Advances in Veterinary Virology*	2+1	Dr. Pankaj Kumar Dr. Manoj Kumar
5.	VMC 607	Molecular Viral Pathogenesis	2+1	Dr. Manoj Kumar Dr. Pankaj Kumar
6.	VMC 608	Structure Function Relationship of DNA and RNA Viruses	2+0	Dr. Pankaj Kumar Dr. Manoj Kumar
7.	VMC 611	Advances in Veterinary Immunology	2+1	Dr. Manoj Kumar Dr. Pankaj Kumar

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**Department of Veterinary Pathology**

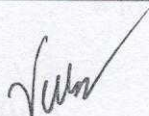
S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	VPL 601	Molecular and Ultrastructural Basis of Cell Injury*	2+1=3	Dr. Kaushal Kumar Dr. Sanjiv Kumar
2.	VPL 602	Molecular Basis of Inflammation	1+1=2	Dr. Imran Ali Dr. Kaushal Kumar
3.	VPL 604	Immunopathology*	2+1=3	Dr. Sanjiv Kumar Dr. Deepak Kumar
4.	VPL 608	Research Methodology in Pathology*	1+0=1	Dr. Deepak Kumar Dr. Imran Ali

**Department of Veterinary Public Health & Epidemiology**

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>Ph. D. Courses</b>				
1.	VPE – 607	Advances in Environmental Hygiene	2+1 = 3	Dr. Anjay Dr. Bhoomika Dr. P. Kaushik
2.	VPE – 608	Herd Health Management and Disease Economics	2+1 = 3	Dr. P. Kaushik Dr. Seuli saha roy Dr. Anjay
3.	VPE – 609	Epidemiology of Trans-boundary, Non-infectious and Chronic diseased	2+1 = 3	Dr. Seuli Saha Roy Dr. Bhoomika Dr. P. Kaushik
4.	VPE – 610	Ecology and Animal/ Human Health	2+0 = 2	Dr. Bhoomika Dr. P. Kaushik Dr. Anjay
5.	VPE – 612	Surveys, Surveillance and Data Management	2+1 = 3	Dr. Seuli Saha Roy Dr. P. Kaushik Dr. Anjay

**Department of Veterinary Pharmacology & Toxicology**

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>M.Tech. Courses</b>				
1.	VPT-603	Pharmacology of Herbal Drugs	2+1=3	Dr. Kumari Anjana* Dr. Nirbhay Kumar Dr. G.K. Choudhary
2.	VPT-607	Immunopharmacology and Immunotoxicology	2+0=2	Dr. Rashmi Rekha Kumari* Dr. R.K. Nirala
3.	VPT-608	Molecular Toxicology	3+0=3	Dr. Nirbhay Kumar* Dr. Kumari Anjana Dr. Rashmi Rekha Kumari
S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name



Supportive Course				
1.	STAT 511	Experimental Designs	2+1=3	Dr. Bhola Nath
2.	STAT 512	Basic Sampling Techniques	2+1=3	Dr. Bhola Nath Dr. Birendra Kr. Dr. J. P. Gupta
3.	MCA 501	Computers Fundamentals and programming	2+1=3	Dr. R. K. Singh Dr. Soni Kumari
4.	MCA 511	Introduction to communication Technologies, computer Networking and Internet	1+1=2	Dr. Bhola Nath, Dr. Shiv Raj Singh
5.	MCA 512	Information Technology in Agriculture	1+1=2	Dr. Shiv Raj Singh, Dr. Bhola Nath
PGS Course				
1.	PGS 501	Library and Information Services	0+1=1	Dr. Manoj Kumar Sinha
2.	PGS-502	Technical Writing and Communication Skills	0+1=1	Dr. Pankaj Kumar, (Extension) Dr. Saroj K. Rajak Dr. Puspendra Kumar Singh
3.	PGS- 503	Intellectual Property and its Management	1+0=1	Dr. Pankaj Kumar, (Extension) Dr. Saroj K. Rajak Dr. Puspendra Kumar Singh
4.	PGS- 505	Agricultural Research, Research Ethics and Rural Development Programmes	1+0=1	Dr. Saroj K. Rajak Dr. Pankaj Kumar, (Extension) Dr. Puspendra Kumar Singh

### Department of Dairy Microbiology

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
M.Tech. Courses				
1.	DM 514	Microbiology of Fluid Milk and Dairy Products	2+1=3	Dr. Sonia Kumari Dr. Rakesh Kumar
2.	DM 522	Microbial Safety and Quality	2+2=4	Dr. Rakesh Kumar Dr. Sonia Kumari
3.	DM 523	Microbiology of Cheese and Fermented Dairy Foods	2+1=3	Dr. Sonia Kumari Dr. Rakesh Kumar
4.	DM 525	Research Techniques	2+1=3	Dr. Seuli Saha Roy Dr. Pankaj Kumar Dr. Rakesh Kumar

**Department of Dairy Chemistry**

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>M.Tech. Courses</b>				
1.	DC 521	Chemistry of Milk Proteins	3+1=4	Dr. Binita Rani Dr. Anuradha Kumari Dr. B K Bharti
2.	DC-522	Chemistry of Processed Dairy Foods	3+1=4	Dr. B K Bharti Dr. Anuradha Kumari Dr. Binita Rani
3.	DC-524	Research Techniques	1+2=3	Dr. Ajeet Kumar Dr. B. K. Bharti Dr. Binita Rani

**Department of Dairy Technology**

S. No.	Course No.	Course Title	Credit Hrs.	Instructor's Name
<b>M.Tech. Courses</b>				
1.	DT – 513	Rheology of Dairy and Food Products	2+1=3	Dr. Diwakar Mishra Mr. Suryamani Kumar Dr. Sanjeev Kumar
2.	DT – 521	Membrane Processing for Dairy Applications	2+1=3	Dr. Sanjeev Kumar Dr. Jui Lodh Dr. B.K. Singh
3.	DT – 522	Advances in Dairy and Food Packaging	2+1=3	Mr. Suryamani Kumar Dr. Diwakar Mishra Dr. Jui Lodh Dr. B.K. Singh

**Sd./-**

DRI-cum-DEAN, PGS

Memo No.: 117.../DRI-cum-DEAN, PGS/BASU, Patna

Dated: 15/07/2023

**Copy forwarded to:**

1. The Registrar, BASU, Patna for kind information and record.
2. Overall Controlling Officer, ICT, BASU, Patna to upload on university website under DRI-cum-DEAN, PGS "Notice for Students.
3. All HoDs, BVC, Patna for information and necessary action.
4. PG Coordinator, BVC/ SGIDT, Patna for information.

  
DRI-cum-DEAN, PGS

C.C.: Secretary to Vice Chancellor for kind information of Hon'ble Vice Chancellor, BASU, Patna