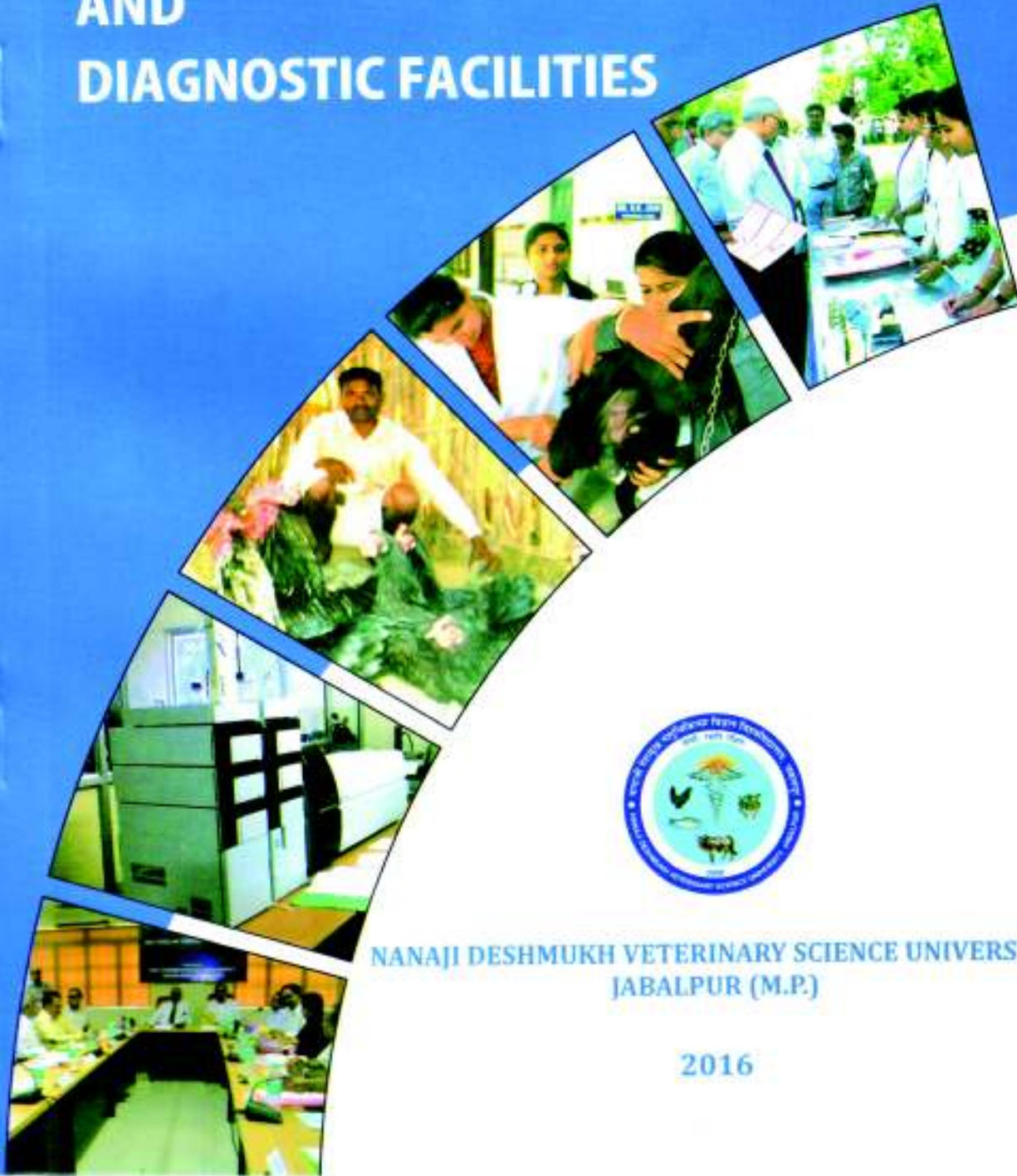


GUIDELINES
ON
**CONSULTANCY SERVICES
AND
DIAGNOSTIC FACILITIES**



**NANAJI DESHMUKH VETERINARY SCIENCE UNIVERSITY
JABALPUR (M.P.)**

2016

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CONSULTANCY SERVICES
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JABALPUR (M.P.)**

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ON
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AND
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Vice Chancellor

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Vice Chancellor



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FOREWORD

It gives me immense pleasure to note that Nanaji Deshmukh Veterinary Science University, Jabalpur has formulated the "Guidelines on Consultancy Services & Diagnostic Facilities" with a view to deliver consultancy services and training programmes in the University. The innovations, technologies, diagnostics and other related aspects in the field of Veterinary and Animal Sciences play an important role in context to empower the farmers and livestock owners.

Significant efforts have been made by the University for strengthening the infrastructure and for development of human resource in order to impart laboratory services and training programmes for end-users. I sincerely believe that implementation of aforesaid Guidelines on Consultancy Services & Diagnostic Facilities will provide a gateway for the end-users, entrepreneurs and further strengthen the delivery of services.

Good efforts rendered by the scientists/teachers to bring out this document, are praiseworthy.


(Prayag Dutt Juyal)



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PREFACE

Being Chairman of the committee, it is my privilege and pleasure to present the "Guidelines on Consultancy Services and Diagnostic Facilities" of Nanaji Deshmukh Veterinary Science University, Jabalpur which includes the account in respect of various consultancy and diagnostic facilities provided by the University.

On 3rd November 2009, Nanaji Deshmukh Veterinary Science University came into existence and there-after the University has created a base in areas of research, education and extension by updating the infrastructure, laboratory facilities and human resources. This has provided the technical competence to the staff to deliver consultancy, trainings and laboratory services for end users. The trajectory of this issue is aimed to impart the relevant information on various services and training programmes along with appropriate cost of the services, mode of payment and the application proforma for the users.

I express deep sense of gratitude to our worthy Hon'ble Vice Chancellor Prof. (Dr.) P. D. Juyal, for their support and encouragement. The cooperation of all the scientists and committee members who rendered their whole hearted support in the compilation of this issue, is also sincerely acknowledged.



(Yash Pal Sahni)

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1. Laboratory Services

S.No.	Parameters	Cost (Rs.)	Units Offering the Services	
Haematological Tests				
a.	Haemogram - CBC	150 per sample	Pathology, DI Lab, TVCC	
b.	Haemoglobin	25 per sample		
c.	PCV	25 per sample		
d.	WBC / RBC Count	50 per sample		
e.	ESR	20 per sample		
f.	DLC	50 per sample		
g.	Platelet Count	100 per sample		
h.	Blood Smear Examination for infection	50 per sample		Pathology, Parasitology
i.	Blood Clotting parameters by Coagulostat	150 per sample		
Biochemical Tests				
a.	Total Protein	50 per sample	DRS Lab, DI Lab, TVCC, Pathology	
b.	Albumin	50 per sample		
c.	Fibrinogen	50 per sample		
d.	Cholesterol	50 per sample		
e.	Triglycerides	50 per sample		
f.	Glucose	30 per sample		
g.	BUN	50 per sample		
h.	Creatinine	50 per sample		
i.	Direct Bilirubin	50 per sample		
j.	Total Bilirubin	50 per sample		
Bio-Enzymatic Analysis				
a.	SGOT	60 per sample	DRS Lab, DI Lab, TVCC, Pathology	
b.	SGPT	60 per sample		
c.	AKP	60 per sample		
d.	GGT	60 per sample		
e.	LDH	60 per sample		
f.	CK	60 per sample		
g.	Liver Function Test	300 per sample		
h.	Kidney Function Test	100 per sample		
Urine / Faeces Examination				
a.	Urine Examination Routine	100 per sample	Pathology	
b.	Urine Examination Microscopic	50 per sample	Pathology	
c.	Urine Culture	250 per sample	Microbiology, Pathology	
d.	Faecal Parasitic Examination	50 per sample	Parasitology, Pathology	
Bacteriological / Fungal Examination				
a.	Bacteriological Culture	200 per sample	Microbiology, Pathology	

Guidelines on Consultancy Services & Diagnostic Facilities

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
b.	Fungal Culture	500 per sample	Microbiology
c.	Skin Scrapping for Fungal and Parasites	50 per sample	Parasitology, Pathology
Hormone Assay			
a.	T4 Hormone Estimation (ELISA)	500 per sample	Physiology, Biochemistry
b.	T3 Hormone Estimation (ELISA)	500 per sample	
c.	Cortisol Hormone (ELISA)	1500 per sample	
d.	Estrogen Hormone (ELISA)	1000 per sample	
e.	Progesterone Hormone (ELISA)	1000 per sample	
Other Services			
a.	Semen Testing (Bacterial)	500	Microbiology
b.	Modified CMT	50 per sample (Large animal) 20 per sample (Small animal)	Microbiology, Medicine

2. Disease Diagnostic Services

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
Disease Diagnosis			
a.	Lateral Flow Assays /Rapid Test Disease Diagnosis	200 per sample	Microbiology, Pathology
b.	ELISA	500 per test	Microbiology, Pathology
c.	Tuberculin / Johnin / Mallein Test	50	Microbiology
d.	Antibiotic Sensitivity Test	500	
e.	Standard Plate Count	500	
f.	Brucellosis (Serological Titre)	250	
g.	Acid Fast Staining / Bacterial Staining / Special Staining	50 per sample	Microbiology, Pathology

3. Feed and Fodder Testing

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
Estimation of Proximate Principles in Animal Feed and Fodder			
a.	Estimation of Moisture	80	Animal Nutrition
b.	Estimation of Crude Protein (CP)	150	
c.	Estimation of Ether Extract (EE)	150	
d.	Estimation of Crude Fibre(CF)	150	
e.	Estimation of Ash	100	
f.	Estimation of Acid Insoluble Ash	100	
g.	Estimation of Proximate Principle	600	
Estimation of Minerals in Animal Feed and Fodder			
a.	Estimation of Calcium	600	Animal Nutrition
b.	Estimation of Phosphorus	250	

Guidelines on Consultancy Services & Diagnostic Facilities

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
c.	Estimation of Iron	250	Animal Nutrition
d.	Estimation of Zinc	250	
e.	Estimation of Copper	250	
f.	Estimation of Manganese	250	
Estimation of Vitamins in Animal Feed and Fodder			
a.	Estimation of Vitamin A	500	Animal Nutrition
b.	Estimation of Vitamin B2	500	
c.	Estimation of Vitamin K3	500	
d.	Estimation of Vitamin E	500	
e.	Estimation of Vitamin C	500	
f.	Estimation of Gross Energy	500	
Estimation of enzymes in Animal Feed and Fodder			
a.	Multienzyme	1000	Animal Nutrition
b.	Cellulase	400	
c.	Xylanase	400	
d.	Pectinase	400	
e.	Phytase	400	
Detection of Toxins in Feed and Fodder			
a.	Aflatoxin	400	Animal Nutrition
b.	Ochratoxin	400	
c.	T-2 Toxin	400	
Estimation of other principles in Animal Feed and Fodder			
a.	Urease activity	300	Animal Nutrition
b.	Iodide	300	
c.	Sulphate	300	
d.	Omega-3 Fatty Acid	1600	
e.	Nitrite	200	
f.	Urea	200	

4. Milk / Meat / Water Testing

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
a.	Testing for Adulteration in Milk per parameter	50 per sample	Livestock Product Technology
b.	Testing for Fat in Milk	50 per sample	
c.	Testing for Solid not Fat in Milk	50 per sample	Veterinary Public Health
d.	Adulteration of Milk per parameter	50 per sample	
e.	Hygienic Quality of Milk, Meat and their Products	500 per sample	
f.	Hygienic / Potability of Drinking Water	300 per sample	

5. Testing for Drug Residues in Milk, Meat and Water

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
Detection of Residues of Antibiotics and Vitamins			
a.	Determination of Meloxicam residues	3000	DRS Lab
b.	Determination of Cefuroxime residues	3000	
c.	Determination of Gentamicin residues	3000	
d.	Determination of Chlortetracycline residues	3000	
e.	Determination of Amoxicillin residues	3000	
f.	Determination of Cloxacillin residues	3000	
g.	Determination of Levofloxacin residues	3000	
h.	Determination of Doxycycline residues	3000	
i.	Determination Vitamin E residues	3000	
Detection of Residues of Metals and Water Pollutants			
a.	Determination of Copper concentration in water	100 per sample	DRS Lab
b.	Determination of Lead concentration in water	100 per sample	
c.	Determination of Zinc concentration in water	100 per sample	
d.	Determination of Cadmium concentration in water	100 per sample	
e.	Determination of Iron concentration in water	100 per sample	
f.	Determination of Mercury concentration in water	120 per sample	
g.	Determination of Selenium concentration in water	120 per sample	
h.	Determination of Arsenic concentration in water	120 per sample	

6. Post Mortem Examination

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
a.	Cattle / Buffalo / Horse	250	Pathology
b.	Pig / Sheep / Goat	50	
c.	Lab Animal	10	
d.	Dog	150	
e.	Birds	10	

7. Histopathological / Cytological Examination

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
a.	Routine Biopsy/ Histopathology	150 per sample	Pathology
b.	Cryostat Histopathology (with IHC wherever possible)	500 per sample	
c.	Cytological Examination	100 per sample	
d.	Aspirated Fluid Analysis	150 per sample	
e.	Microscopic Photographs (Per Slide: 5 Field /Slide)	50	

8. Pharmacy Preparation

S.No.	Preparations	Cost (Rs.)	Indications	Department
a.	Gastric Sedative Powder	250 per 100 gm	Hyperacidity, gastritis, hyperchlorhydria	Pharmacology & Toxicology
b.	Sulphur Ointment	80 per 100 gm	Mange, ringworm, eczema	
c.	Zinc Oxide Ointment	100 per 100 gm	Antiseptic, eczema, superficial wounds	
d.	Iodine Ointment	300 per 100 gm	Inflammation, oedema, rheumatism, arthritis	
e.	PP Lotion	5 per 100 ml	Cleaning of wound and abscess	
f.	Golden Lotion	50 per 100 ml	Mange, ringworm, eczema	
g.	Lugol's Iodine	100 per 100 ml	Metritis, vaginitis	

9. Veterinary Hospital Services

S.No.	Parameters	Cost (Rs.)		Units Offering the Services
		Film and Interpretation	Interpretation	
a.	Radiography Examinations			Surgery & Radiology
	8" x 10"	250	150	
	10" x 12"	300	200	
	12" x 15"	400	300	
	Barium Meal /Enema Contrast Radiography	500	200	
	Intravenous Pyelography	400	250	
	Diathermy, Laser and Therapeutic Ultrasound, NMES	30 per day		
	C- Arm Imaging : Ultrasonography / Color Doppler	60 per exposure		
	Small Ruminant	50		
	Dogs	250		
Laparoscopy	300			
Gastroscopy	400			

Guidelines on Consultancy Services & Diagnostic Facilities

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
b. Routine Surgery*			
	Equine		Surgery & Radiology
	Trivial	200	
	Minor	500	
	Major	1000	
	Large Ruminant		
	Trivial	100	
	Minor	250	
	Major	600	
	Small Ruminant		
	Trivial	30	
	Minor	40	
	Major	80	
	Pet animal (Canine/ Feline)		
	Trivial	100	
	Minor	400	
	Major	800	
*Extra cost of medicines, anaesthetics, suture material and disposables.			
c. Specialized Surgery (in Small Animal)			
	Ophthalmic Surgery (Cataract)	2000	Surgery & Radiology
	Intra Medullary Pining	800	
	Interlocking Nails	1500	
	Bone Plating	2000	
d. Other Procedures			
	Pregnancy Diagnosis		Gynaecology & Obstetrics
	Equine	150	
	Large Ruminant	100	
	Small Ruminant	50	
	Artificial Insemination		
	Large Ruminant	200	
	Canine / Feline	500	
	Castration by Burdizzo		TVCC
	Sheep & Goat	10	
	Cattle & Buffalo	50	
	Nail trimming	50	
	Chemotherapy (excluding medicine)	100 per injection	
e. Treatment			
	Treatment for Pyometra / Metritis /Retention of Placenta		Gynaecology & Obstetrics
	Equine	150	
	Large Ruminant	100	
	Small Ruminant	50	
	Canine / Feline	250	

Guidelines on Consultancy Services & Diagnostic Facilities

S.No.	Parameters	Cost (Rs.)	Units Offering the Services
Treatment for Vaginal / Uterine Prolapse			Gynaecology & Obstetrics
	Equine	500	
	Large Ruminant	200	
	Small Ruminant	40	
	Canine / Feline	300	
Treatment for Dystocia			
	Equine	1000	
	Large Ruminant	500	
	Small Ruminant	40	
	Canine /Feline	500	
f. Fitness Certificate			
	Pet Animals	200	Medicine, TVCC
	Horse	500	
	Goat	100	
	Complete Health Package, Haemogram, LFT, KFT, Sonography and ECG	1000	DI Lab, Surgery & Radiology
g. ICU Facilities			
	ICU	500 per day	
	ECG	200 per day	
	Nebulisation	50 per nebulisation	
	Echocardiography	200 per ECG	
h. Registration Fees			
	Registration fees for TVCC		TVCC
	i. Dog & Cat	50	
	ii. Small Ruminant including Calves up to one month age	05	
	iii. Large Ruminant	20	
	iv. Donkey	10	
	v. Horse	50	
	vi. Bird & other	05	
i. Indoor Admission			
	Indoor Admission Housing/day Large Ruminant, Horse etc.	30	TVCC
	Indoor Advance Deposit *	1000	
	Animal Owner's Indoor Room Rent	100 per day	
	* Refundable at the time of discharge of animal after deduction of dues if any		

10. Services Offered by the Centre for Wildlife Forensic & Health for Wild Animals

S.No.	Test / Service	Cost (Rs.)
a.	Wildlife Health Monitoring	500
b.	Haemogram	300
c.	Urine (Routine)	100
d.	Faecal Sample	50
e.	Blood Protozoan Slide	100
f.	DLC	100
g.	LFT	150
h.	KFT	150
i.	Antigen Rapid Bovine TB Kit	200
j.	TB by PCR (Faecal / Blood / Tissue)	1000
k.	Disease Diagnosis by Serum (ELISA)	500
l.	PCR based Disease Diagnosis	1000
m.	Post Mortem Examination	
a)	Big Cat	1000
b)	Deer	400
c)	Small Carnivores	400
d)	Elephant / Gaur	1000
n.	Forensic Examination	
a)	Hair	500
b)	DNA based (Tissue / Skin Piece / Blood)	2000
c)	Piece of Skin / Antlers	500
d)	Morphometry/ Osteology of Large Bones	500
o.	Treatment	
a)	Big Cat	500
b)	Herbivores (Minor Treatment)	50
p.	Major Surgery	500

11. Cost of Training Programmes

Training Programme	Duration	Eligibility of Participants	Min./Max. No. of Participants	Probable Time of Training	Cost per Person (Rs.)
Livestock Production Management					
a. Commercial Broiler Production b. Commercial Layer Production c. Rural Poultry Production	5 days (for each training)	Farmers/ Entrepreneurs	Max: 25 Min:20 (for each training)	Round the year	1000 (for each training)
Goat Farming / Husbandry Practices	5 days (for each training)	Farmers/ Entrepreneurs / Self Help Group	Max: 25 Min:20 (for each training)	Round the year	1000 (for each training)
Dairy Farming/ Husbandry Practices	5 days (for each training)	Farmers/ Entrepreneurs	Max: 25 Min:20 (for each training)	Round the year	1000 (for each training)
Demonstration of Livestock Farming	1-2 days	Farmers/ Entrepreneurs	Min: 10	Round the year	1000 (for each)
Livestock Poultry Project Preparation/ Advise for School/ Polytech Students	1-2 days	Middle, High and Higher Secondary School students	1-2	Round the year	500 per student
Veterinary Gynaecology and Obstetrics					
Artificial Insemination in Cow	5 days	Diploma in Vety. Sci. & A.H.	5	Oct-Nov-Feb	5000
Pregnancy Diagnosis in Cow	5 days	Diploma in Vety. Sci. & A.H.	5	Oct-Nov-Feb	5000
Animal Nutrition					
Scientific Feeding of Livestock & Poultry	5 days	B.V.S.c & A.H. Diploma in Vety. Sci. & A.H.	Max: 20	Sep-Nov-Feb	7500
Formulations of Balanced Rations for different class of Livestock including Poultry & Canines	5 days	Graduate	Max: 6	Sep-Nov-Feb	5000
Preparation of Area Specific Mineral Mixture for Livestock	5 days	Graduate	Max: 6	Sep-Nov-Feb	5000
Veterinary Medicine					
Diagnosis and Treatment of Mastitis in Ruminant	5 days	Farmers	Max: 10	Oct-Feb	3000
Diagnosis and Treatment of Malassezia Dermatitis	3 days	Veterinarians	Max: 10	Sep-Nov	3000

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Training Programme	Duration	Eligibility of Participants	Min./Max. No. of Participants	Probable Time of Training	Cost per Person (Rs.)
Veterinary Surgery & Radiology					
Diagnostic Imaging Techniques in Small Animals	5 days	B.V.Sc. & A.H.	Max:10, Min:5	Oct -Feb	5000
Small Animal Orthopaedic Surgery	5 days	B.V.Sc. & A.H.	Max:10, Min:5	Oct -Feb	10000
Small Animal Soft Tissue Surgery	5 days	B.V.Sc. & A.H.	Max:10, Min:5	Oct -Feb	7500
Large Animal Surgery	5 days	B.V.Sc. & A.H.	Max:10, Min:5	Oct -Feb	10000
Veterinary Public Health					
Detection of Adulteration in Milk	5 days	B.Sc./ Diploma in Veterinary Science	Max: 10	Oct-Nov May-June	5000
Bacteriological Quality of Milk & Meat Products	5 days	B.Sc./ Diploma in Veterinary Science	Max: 10	Oct-Nov May-June	5000
Veterinary Microbiology					
Isolation, Identification and Antibiotic Sensitivity of Bacteria	5 days	B.V.Sc./M.Sc. Microbiology	Max: 10	Aug-Dec	5000
Basic Techniques in Immunology	5 days	B.V.Sc./M.Sc. Microbiology	Max: 10	Aug-Dec	5000
Sterilization and Media Preparation for Bacteriological Work	5 days	Science Students (Higher Secondary / Graduates)	Max: 10	Aug-Dec	3000
Veterinary Pathology					
Blood & Urine Examination of Animal	5 days	B.Sc./ Diploma in Veterinary Science	Max: 6	May-Nov	2000
PM Examination of Large & Small Ruminant	5 days	B.V.Sc./ Diploma in Veterinary Science	Max: 6	May-Nov	2000
Veterinary Parasitology					
Diagnosis and Control of Important Parasites	5 days	Veterinarians/ Entrepreneurs	Max: 10	Feb-Mar Nov-Dec	3000
Prevention and Control of Economically Important Parasitic Disease of Ruminants	5 days	Farmers	Max : 10	Feb-Mar Nov-Dec	3000

Guidelines on Consultancy Services & Diagnostic Facilities

Training Programme	Duration	Eligibility of Participants	Min./Max. No. of Participants	Probable Time of Training	Cost per Person (Rs.)
Veterinary Anatomy					
Refresher Course on Applied Anatomy in relation to Clinical Practice	3 days	B.V.Sc & A.H.	Max: 10	February	1500
Directorate of Research Services					
Hands-on Training on Panchgavya Utpad	3 days	Farmers	Max: 10	June-August	300
Hands-on Training on Analytical Instruments (HPLC, HPTLC, AAS, PCR, RT-PCR)	5 days	Science Graduates	Max:10	June-August	2500
Importance of Drug Residues and Resistance	5 days	Science Graduates	Max:10	June-August	2500
Center for Wildlife Forensic And Health					
Collection, Presentation, Dispatch and Documentation of Biological Sample for Laboratory Investigation	1 day	Ranger Officers and their Subordinates	Max: 20	Winter	4000
Advances in Wildlife Forensic Health Management	1 day	Field Veterinary Officers	Max: 20	Dec-Jan	5000
Animal Biotechnology Centre					
Hands-on Training on DNA based Molecular Techniques	7 days	Science Graduates	Min: 5	Jan - Oct	15000
Hands-on Training on Gene Expression	10 days	Science Graduates	Min: 5	Jan - Oct	20000
Hands-on Training on Molecular Markers	10 days	Science Graduates	Min: 5	Jan - Oct	20000
Training on Animal Cell Culture techniques	10 days	Science Graduates	Min: 5	Sep - Dec	15000
Training on <i>In-vitro</i> Fertilization	10 days	Science Graduates	Min: 5	Sep - Dec	35000
Training on Intra Cytoplasmic Sperm Injection	10 days	Science Graduates	Min: 5	Sep - Dec	50000

Guidelines on Consultancy Services & Diagnostic Facilities

Training Programme	Duration	Eligibility of Participants	Min./Max. No. of Participants	Probable Time of Training	Cost per Person (Rs.)
Training on Embryo Biotechnology	14 days	Science Graduates	Min: 5	Sep - Dec	75000
Training on Molecular Techniques	1 month	Students on deputation from recognised University / Institutes	Min: 5	As and when required	10000
Hands-on Training on Sequencing by Next Generation Sequencer Ion PGM Torrent	10 days	Science Graduates	Min: 5	Feb - Nov	35000
Cell Cycle Analysis by Flow Cytometry	7 days	Science Graduates	Min: 5	Sep - Dec	10000
Cell Analysis and Sorting by Flow Cytometry	7 days	Science Graduates	Min: 5	Sep - Dec	10000
Dissertation					
Dissertation for Students on deputation from other recognized Universities / Institutions				Upto 6 months	35000

* Rates of investigations/ tests can be revised whenever deemed to be necessary.

12. Procedure and Financial Guidelines:

1. The client intending any type of service / laboratory facility / training, shall have to submit an application to Head of the Department / College / Centre concerned to get the services/ trainings to be performed.
2. On receipt of request in the prescribed proforma and requisite payment from the customer(s), Head of the Department concerned shall get performed desired work within targeted period.
3. Transaction of receipt and expenditure shall be booked in budget head prescribed by the Comptroller of the Vishwa Vidyalaya.
4. The progress report of performed works duly signed by Head of the Department / College/ Centre shall be submitted quarterly to In-charge, Consultancy Processing Cell / Monitoring Cell of the Vishwa Vidyalaya.
5. Seventy Five per cent of the annual receipts generated shall be retained by the concerned unit to meet out the expenditure incurred on consumables, raw materials, equipments, services etc. Remaining 25 per cent will be deposited in the University account.

13. APPLICATION PROFORMA (For Training Programme)

1. Name of the Candidate / Client : _____
2. Title of Training : _____

3. Name of the Organization : _____
where applicant is working _____
4. Particulars of candidate : _____
 - a) Date of Birth : _____
 - b) Educational Qualifications : _____
 - c) Present Post : _____
 - d) Experience : _____
 - e) Address for Correspondence : _____
 - f) Phone: _____ Fax: _____ Mobile: _____
E-mail: _____
5. Details of Course Fee remitted: Draft No. _____ Date: _____
Name of Bank: _____
6. Full Particulars of Nominating : _____
Authority _____

Signature of Candidate

Counter Signature of Nominating
Authority with Seal

14. APPLICATION PROFORMA (For Consultancy Services)

1. Name of Laboratory	:	_____
2. Test / Service		_____ _____
3. Code No. of Sample	:	_____
4. Date of Submission	:	_____
5. Name and Address of Client / Applicant	:	_____ _____
6. Details of Work to be undertaken	:	_____ _____ _____
7. Fee / Cost (Rs.)	:	_____

Signature of Client

Signature of Head of the Unit



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