

Evaluation of Present Status of Physiology Education System in BVSc&AH Course in India

Name of the Respondent: _____

Designation: _____ Phone: _____ Email: _____

Name of the Institute: _____

Name of the University: _____

Address of the Institute: _____

State: _____ PIN: _____

Email: _____ Website: _____

FAX: _____ Office Phone: _____

Year of Establishment of the institute: _____

Teaching Programme Continued on: UG / Master / PhD / Post Doctoral

Total No. of intake during last 10 years: at UG level ____, Master level ____, PhD programme ____, Post Doc ____

Total No. of students passed out during last 10 years: from UG level ____, Master level ____, PhD programme ____, Post Doc ____

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Status of present Practical Courses

Practical Courses as per VCI	Present Status at different institute level						Remarks
	Performed quite satisfactorily	Performed satisfactorily	Major problem is related to (put '√' marks)				
			Experimental Animal / sample	Infrastructure	No. of Classes	Chemicals / reagent	
VPB 111							
Collection of blood samples – separation of serum and plasma – preservation of defibrinated blood							
Enumeration of erythrocytes, leucocytes							
Differential leucocyte count							
Platelet count							
Estimation of haemoglobin							
Haematocrit							
Erythrocyte sedimentation rate							
Packed cell volume							
Coagulation time – bleeding time							
Erythrocyte fragility and viscosity							
Blood grouping							
Recording of ECG							
Measurement of arterial blood pressure (Sphygmomanometry)							
Recording of cardiogram of frog heart							
Study the effect of heat and cold on heart							
Effect of vagus stimuli on heart and Vagal escape							
Factors affecting blood flow through blood vessels							
Urine analysis – physiological constituents ,							
Pathological determinates , Tritable acidity, determination of inorganic phosphorus, urine ammonia and creatinine in urine							
Determination of GFR							
Any other practical(s) are conducting at your institute in this semester [kindly mention name(s)]							
1.							
2.							
May suggest any need based practical in this semester if required							

Contd.3

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Name of the Course	Performed quite satisfactorily	Performed satisfactorily	Major problem is related to (put '√' marks)					Remarks
			Experimental Animal / sample	Infrastructure	No. of Classes	Chemicals / reagent	Equipments	
VPB 121								
Counting of rumen motility, estimation of volatile fatty acids and ammonia in rumen								
Bacterial and protozoal count								
In vitro action of proteolytic enzymes – pepsin and trypsin								
Experimental physiology : Pithing of frog, preparation of nerve muscle								
Recording of twitch response and it's effect								
Effect of heat and cold on muscle curve								
Fatigue, summation, tetanus								
Recording of respiration , Spirometry, recording of various respiratory volumes and capacities including determination of vital capacities								
Recording of rumen / intestinal movements (Demonstration through organ bath)								
Any other practical(s) are conducting at your institute in this semester [kindly mention name(s)]								
1.								
2.								
May suggest any need based practical in this semester if required								
VPB 221								
Estrus and phases of estrous cycle in animals (vaginal mucus).								
Behavioural signs of estrus								
Bioassay of hormones								
Demonstration of hormone estimation								
Rectal palpation of reproductive organs.								
Sperm motility								
Sperm concentration								
Live and dead sperm count								
Abnormal sperm count								
Measurement of growth in various species, measuring surface area of animals								

Contd.4

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Name of the Course	Performed quite satisfactorily	Performed satisfactorily	Major problem is related to (put '√' marks)					Remarks
			Experimental Animal / sample	Infrastructure	No. of Classes	Chemicals / reagent	Equipments	
Health parameters of animals- body temperature (skin & core), pulse, respiration and heart rate								
Measurement of environment conditions.								
Any other practical(s) are conducting at your institute in this semester [kindly mention name(s)]								
1.								
2.								
May suggest any need based practical in this semester if required								

Proposal for Modification of Syllabus

a. Introduction of new course

SN	Name of the course	Whether agreed or not	If agreed, write		Remarks (please provide course details, in separate sheet)
			Name of the semester	Credit	
Theory					
1	Poultry physiology				
2	Behavior of zoo and wild animals				
3	Clinical physiology				
4					
Practical					
1	Handling and collection of blood from different species of animal/bird				
2	Collection real data through weather instrument				
3					
4					
Demonstration					
1	Modern instruments for study of different physiological parameters in animal/birds. e.g pedometers, physiography, spirometer, electrocardiograph, Radio collar, external pacemaker, biomarker, EEG				
2	Study of zoo animal behavior				
3					
4					

Contd.5

b. Reorientation of syllabus

Existing			Exclude	Comments			
Semester	Course Name	Credit		Include at		Remarks	Whether agree or not
				Semester	Credit		
I	Cardio-vascular Physiology, Body fluid, Excretion and Haematology	2+1					
II	Respiration, Digestion, Neuromuscular Physiology	2+1				The Neuromuscular Physiology should be termed as Nervous System and Muscle Physiology	
III	-----			Endocrinology, Growth, Behaviour and Environmental Physiology	2+1	the excluded part may include at III semester. Then the reoriented IV semester may considered as 2+1 credit	
IV	Endocrinology, Reproductive Physiology, Lactation Physiology, Growth, Behaviour and Environmental Physiology	3 +1	Endocrinology, Growth, Behaviour and Environmental Physiology	III	2+1	To distribute the course load equally in all semester the remaining part i.e. Reproductive Physiology, Lactation Physiology will be remained in IV semester	

Manpower

Present No. of Teachers					Remarks
Professor	Associate Professor	Assistant Professor	No. of Contractual Teaches	Total	
Present No. of Non-Teaching Staffs					
Technician	Lab Attendant	Lab Assistant	Clerical staff	Other Office staff	

Teaching Aids used

Name of the aids	Used for the course	Semester	Source (Dept. Developed / Purchased / online etc.)	Remarks
Visual				
Audio				
Audio- Visual				
CCTV / CCTV Microscope				
Model				
Charts				
Animation				
Movie				
Software based programme				
Blood Pressure measuring instrument for animals				
Simulated teaching				
Write the name of other aids used for teaching				

Details of Project / Research Activities**On going**

S.No	Date of commencement	Duration	Name of the PI	Name of the Co-PI(s)	Funding Agency	Nature of project	Total outlay

Completed

S.No	Date of commencement	Date of completion	Duration	Name of the PI	Name of the Co-PI(s)	Funding Agency	Nature of project	Total outlay	Output

Signature of the Respondent with date