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

Name of the Respon	ident:		
Designation:	Р	Phone:	Email:
Name of the Institut	:e:		
Name of the Univers	sity:		
Address of the Instit	ute:		
	 State:		PIN:
	Email:		Website:
	FAX:		Office Phone:
Year of Establishme	nt of the institute:		
Teaching Programm	e Continued on: UG /	Master / PhD / Post	t Doctoral
Total No. of intake c	luring last 10 years: at	: UG level , Mas	ter level, PhD programme, Post Doc
Total No. of student	s passed out during la	st 10 years: from U(G level, Master level, PhD programme, Post Doc

- 2 -Status of present Practical Courses

Practical Courses as per VCI	as per VCI Present Status at different institute level								
Name of the Course	Performed	Performed	Major	problem is	related to	(put '√' mark	s)		
	quite	satisfactorily	Experimental	Infrastr	No. of	Chemicals	Equip		
	satisfactority		sample	ucture	Classes	/ Teagent	ments		
VPB 111								I	
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 t	his semester [k	indly mention	name(s)]	1	1	1	1		
1.								Ļ	
2]	
May suggest any need based practical in this semester if requir	red								

		- 3 -						
Name of the Course	Performed	Performed	Major j	oroblem is	related to ((put '√' mark	s)	Remarks
	quite satisfactorily	satisfactorily	Experimental Animal / sample	Infrastr ucture	No. of Classes	Chemicals / reagent	Equip ments	
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 sen	nester [kindly m	ention name(s)]	1	1		•	1	
1.								
2.								
May suggest any need based practical in this semester if required								
VPB 221				1		-		
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								
								Contd4

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Name of the Course	Name of the CoursePerformedPerformedMajor problem is related to (put)									
	quite	satisfactorily	Experimental	Infrastr	No. of	Chemicals	Equip			
	satisfactorily		Animal /	ucture	Classes	/ reagent	ments	l		
			sample					<u> </u>		
Health parameters of animals- body temperature (skin &								I		
core), pulse, respiration and heart rate								1		
Measurement of environment conditions.										
Any other practical(s) are conducting at your institute in thi	s semester [ki	indly mention	name(s)]							
1.								l		
2.										
May suggest any need based practical in this semester if require	d									

Proposal for Modification of Syllabus

a. Introduction of new course

SN	Name of the course	Whether agreed or not	If agreed, v	vrite	Remarks (please
			Name of the	Credit	provide course details,
			semester		in separate sheet)
Theo	bry				
1	Poultry physiology				
2	Behavior of zoo and wild animals				
3	Clinical physiology				
4					
Prac	tical				
1	Handling and collection of blood from different species of animal/bird				
2	Collection real data through weather instrument				
3					
4					
Dem	onstration			-	
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					

b. Reorientation of syllabus

	Existing			Comments			
Semester	Course Name	Credit	Exclude	Include at		Remarks	Whether
				Semester	Credit		agree or not
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	
111				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	111	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										
Professor	Associate Professor Assist		ant Professor	No. of Contractual Teaches	Total						
	Present No. of Non-Teaching Staffs										
Technician	Lab	Lab Assistant		Clerical staff	Other Office staff						
	Attendant										

SAPI

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Name of the Instrument	Exist or not	Remarks	Name of the Instrument	Exist or not	Remarks
For UG			For various research activities		
Compound Microscope			Atomic Absorption Spectrophotometer		
Colorimeter / Spectrophometer			Thermo cycler		
Sphygmomanometer with stethoscope			Gel doc		
Weather Instruments			Vacuum Concentrator / Centrifugal		
Kymograph			Western Blot Apparatus		
Isolated organ bath			Biological Safety Cabinet / Laminar Flow		
pH meter			CO2 Incubator		
Centrifuge for Hematocrit			Deep Freezer (- 86°) and (- 20° C)		
Clinical centrifuge machine			Electrophoresis Apparatus		
Electronic Analytical Balance			Magnetic Stirrer		
Ultrasonograph			Double Beam UV/VIS Spectrophotometer		
Elisa reader			B. O. D. Incubator		
Electrocardiograph			Bacteriological Incubator		
Physiograph			High Speed Homogenizer		
Water Bath			Mini type centrifuge		
Spirometer			Vortex mixer		
Distillation apparatus			Cooling Centrifuge		
Tissue Chamber			Bio freezer		
Common Balance			Stereo zoom microscope		
Digital Monopan Balance			Phase contrast microscope		
Tail cuff BP apparatus			Inverted microoscope		
Stimulator / Electronic Stimulator			Micro manupulator		
Micropipette			Ultra pure water purification system		
External Pacemaker			Chromatography and Gel Filtration System		
Write the name of other instrument(s) used for practical and o	other research a	octivities			

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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	Date	of	Duration	Name of the PI	Name of the Co-PI(s)	Funding Agency	Nature of	Total outlay	Output
	commencement	completion						project		

Signature of the Respondent with date