Module code	SB-2306		
Module Title	Principles of Animal Physiology		
Degree/Diploma	Bachelor of Science (Biology)		
Type of Module	Major Option		
Modular Credits	4	**Total student Workload**	8 hours/week
		Contact hours	2 hours/week lectures 4 hours/week practicals
Prerequisite	None		
Anti-requisite	None		

Aims

To provide an understanding of the principles and mechanisms of animal physiology which will emphasise the experimental and integrative basis of physiology to show how physiological mechanisms have evolved in response to the selective environmental pressures

Learning Outcomes

On successful completion of this module, a student will be expected to be able to:

Lower order :	10%	- Describe the basic principles underlying animal physiology and describe basic structure function relationships.
Middle order :	10%	- Analyse and understand structure function relationships, homeostasis, feedback regulation, adaptation and acclimation.
Higher order:	80%	- Connect the concepts and approaches to allow hypothesis testing and experimentation leading to novel discoveries.

Module Contents

- Homeostasis
- Biological control systems
- Physiological adaptation
- Metabolism and thermoregulation
- Nutrition and digestion physiology
- Circulation and cardiovascular physiology
- Respiratory systems and respiration physiology
- Movement and muscle physiology
- Nervous systems and neural physiology
- Endocrine systems and chemical coordination
- Reproduction and growth physiology
- Excretory systems
- Osmoregulation

Assessment	Formative assessment	Regular tutorials and problem-based learning session will be conducted.
	Summative assessment	Examination: 0%
		Coursework: 100% - 2 class tests (40%) - 1 mini-project (20%) - 1 written assignment (20%) - 3 practical reports (20%)