

Lesson Plan for Course:... Endocrinology Code: ZOOADSE03T Credit.....04

- Course coordinator: Subharaj Paul
- **Course Outcome:**
 - **CO1:** The basic objective of this DSE is to deliver the information to new comers on endocrine system with emphasis on the chemical structure of hormone, mechanism of hormone action, endocrine glands and their disorders.
 - **CO2:** To understand the structure of hypothalamus and anterior pituitary and the associated hormones and the related disorders will be explained.
 - **CO3:** Students learn the concepts of endocrine systems and homeostasis and 2 bioassay methods.
 - **CO4:** Students also learn about the reproductive cycle of primates and non-primate mammals.

Course planner:

Sl	Course Topic	Teacher	Class-hour	Remarks*
Jul	Unit1: General idea of Endocrine systems, Classification, Characteristic and Transport of Hormones.	SP	01	Online classroom method and PPT presentation, youtube video- https://www.youtube.com/watch?v=KSclrk_Ako
Aug	Neurosecretions, and Neurohormones	SP	01	
	Unit 2: Structure of pineal gland, Secretions and their functions in biological rhythms and reproduction.	SP	03	
	Schedule for class exam on 28th Aug on Unit-1 in Google classroom.		01	Qu- Answer method.
	Structure and functions of hypothalamus and Hypothalamic nuclei.	SP	02	Study through E-Book (pdf format)
	Regulation of neuroendocrine glands, Feedback mechanisms; Structure of pituitary gland.	SP	04	Online Lecture method and PPT presentation.
	Pituitary Hormones and their functions, Hypothalamo-hypophysial-portal	SP	03	

	system. Disorders of pituitary gland.			
Sep	Unit 3: Peripheral Endocrine Glands: Structure, Hormones, Functions and Regulation of Thyroid gland,	SP	03	
	Parathyroid	SP	02	Study through E-Book (pdf format)
	Pancreas,	SP	02	Lecture method and PPT presentation.
	Schedule for class exam on 25th Sept on Unit-2 in Google classroom.		01	Qu- Answer method.
	Adrenal.	SP	03	
	Assessment: Mid-term Test			
Oct	Ovary and Testis;	SP	03	Oct 22 nd to 17 th Nov
	Hormones in homeostasis, Disorders of endocrine glands.	SP	02	Puja vacation.
	Schedule for class exam on 19th Oct on Unit-3 in Google classroom.		01	Qu- Answer method.
	Unit 4: Mechanism of action of steroidal hormone		01	https://www.youtube.com/watch?v=m9jOXiYdMeY
Nov	Unit 4: Mechanism of action of non-steroidal hormones with receptors.	SP	02	Study through E-Book (pdf format)- https://www.youtube.com/watch?v=Nt2r5R0ZO5U
	Bioassays of hormones using RIA.	SP	01	Online lecture method and PPT presentation. <i>Book-immunology by Kuby</i> https://www.youtube.com/watch?v=hJ8AYS5rpyU
Dec	Bioassays of hormones using ELISA.	SP	01	
	Estrous cycle in rat and menstrual cycle in human;	SP	04	
	Multifaceted role of	SP	02	

Semester:.....

Department of..... Basirhat College

Session:

	Vasopressin & Oxytocin; Hormonal regulation of parturition			
	Schedule for class exam on 21st Dec on Unit-4 in Google classroom.		01	Qu- Answer method.
	Assessment: End-term Test		Total: 43 Hrs	

Resources :

1. Books: Guyton 11th edition, Ganong W. - Review of medical physiology, Kronenberg_ - _Williams_Textbook_of_Endocrinology_11e, endocrinology by Hadley, mammalian endocrinology by Ashoke Kr. Boral.
2. Other resources: internet source such as- Wikipidia, www.britannica.com, youtube.com

*Remarks will specify

- The nature of the class-topic (viz. Theoretical, Practical, and Tutorial).
- Methodology of teaching (whether using ICT, engaging students in group discussion, quiz etc. etc.)
- Different modes of assessment. (Please check UGC evaluation reforms).