

Biological Bases of Behavior - Web course

COURSE OUTLINE

Last few years have witnessed unprecedented advances in the areas related to the understanding of brain and its functions.

This course will give comprehensive glimpse of biological bases of behavior which could be of use to all students of psychology, especially those interested in biological psychology, physiological psychology, or neuropsychology.

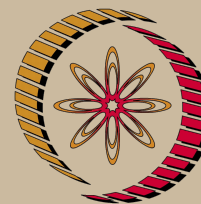
It will elaborate upon the organization and functions of the human nervous system and correlate the behavior outcomes corresponding to them.

Discussions pertaining to psychobiology of learning, memory, emotion, and personality could be of interest to many students of psychology.

The focus on neuropsychological evaluation is one of the major attractions in this course.

COURSE DETAIL

Sl.No.	Topic	Approx. No. of Hours
1.	Human Nervous System: Organization and functions, hindbrain, midbrain and forebrain, spinal cord, cerebral cortex and lobes, hemispheres-dominance, neuroplasticity.	6
2.	Methods for understanding human psychophysiological activity: Invasive & non-invasive techniques.	3
3.	Neural conduction and transmission: Resting membrane potential, Action potential, Synaptic transmission, Neuromuscular transmission.	7
4.	Hormone-behavior relations: Endocrine secretions and its effect on behaviour.	5
5.	Psychobiology of learning, memory, emotion, personalty: Changes at synapse, neural structures involved, biochemical basis.	10
6.	Neuropsychological Evaluation:	9



NP-TEL

NPTEL

<http://nptel.iitm.ac.in>

Humanities and Social Sciences

Pre-requisites:

Basic Psychological Processes.

Additional Reading:

1. Fluharty, S.J. & Grill, H. (2004). Progress In Psychobiology and Physiological Psychology. Elsevier Science & Technology.

Hyperlinks:

1. <http://www.all-about-psychology.com/biological-psychology.html>

Coordinators:

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	Tools used for neuropsychological assessments.	
	Total Lectures	40

References:

1. Carlson, N. R. (2008). Foundations of Physiological Psychology (7th edition), Allyn & Bacon.
2. Levinthal, C. F. (2008). Introduction To Physiological Psychology, Prentice Hall (Higher Education Division, Pearson Education).