



Indraprastha College for Women

University of Delhi

WORK PLAN FOR ODD SEMESTER 2026

Course Name:	B.A. (Hons.) Psychology
Paper Title:	Biopsychology (Theory)
Unique Paper Code:	2112101103
Semester:	I
Faculty(s):	Dr. Nidhi Malik
Year:	2026

Work Plan			
Unit No.	Learning Objective	Lecture No.	Topics to be Covered
Unit 1	To understand the nature, scope and applications of Biopsychology	1	Introduction of the paper, learning objectives, workplan
		2	Nature of Biopsychology
		3	Scope of Biopsychology
		4	Biopsychology as an Integrative Discipline
		5	Diversity of Biopsychological Research
		6	Diversity of Biopsychological Research
		7	Divisions of Biopsychology
		8	Divisions of Biopsychology
		9	Applications of Biopsychology
		10	Applications of Biopsychology
Unit 2	Learning the structure and functions of neurons, and the processes of action potential and synaptic transmission	11	Neuron as a Basic Unit of Nervous System
		12	Structure of a Neuron
		13	Structure of a Neuron
		14	Functions of a Neuron
		15	Types of Neuron
		16	Generation of Action Potential
		17	Generation of Action Potential
		18	Propagation of Action Potential

		19	Structure of Synapse
		20	Types of Synapses
		21	Process of Synaptic Transmission
		22	Process of Synaptic Transmission
		23	Summary and Revision of Action Potential and Synaptic Transmission
Unit 3	To become familiar with the methods to study the human brain, and to understand the role of CNS in behaviour	24	Overview of the Methods to Study the Brain
		25	EEG
		26	CT Scan and fMRI
		27	Major Divisions of the Nervous System
		28	Protection of the Nervous System
		29	Structure of Spinal Cord
		30	Functions of Spinal Cord
		31	Structure and Functions of Hindbrain
		32	Structure and Functions of Midbrain
		33	Structure and Functions of Forebrain
		34	Structure and Functions of Forebrain
Unit 4	Learning how endocrine glands mediate behaviour	35	Basic Characteristics of Endocrine Glands
		36	Anatomical Location of Major Glands
		37	Characteristics and Types of Hormones
		38	Structure, Functions and Abnormalities of Posterior Pituitary Gland
		39	Structure, Functions and Abnormalities of Anterior Pituitary Gland
		40	Structure, functions and Abnormalities of Adrenal Medulla
		41	Structure, functions and Abnormalities of Adrenal Cortex
		42	Structure, functions and Abnormalities of Thyroid Glands
		43	Structure, functions and Abnormalities of Gonads
		44	Structure, functions and Abnormalities of Gonads
		45	Revision and Doubt Clarification

Syllabus		
Unit	Contents	Contact Hours
1	Introduction: Nature, Scope and Applications of Biopsychology	9
2	Neuron: Structure and Functions of Neurons, Action Potential/ Nerve Impulse, Synaptic Transmission	12

3	Brain and Behaviour: Methods (EEG, CT, fMRI), CNS and Behaviour (Spinal Cord and Brain Functions)	12
4	Endocrine System: Endocrine Basis of Behaviour, Structure, Functions and Abnormalities (Pituitary, Adrenal, Thyroid, Gonads)	12
	Total	45

Text Books/Suggested Readings:

S. No.	Name of Authors/Books/Publishers	Year of Publication/Reprint
1.	Carlson, N. R. <i>Foundations of Physiological Psychology</i> (Latest ed.) Pearson Education	2005
2.	Pinel, J. P. J. (2016). <i>Biopsychology</i> (9th ed.). Pearson Education.	2016
3.	Khosla, M. (2017). <i>Physiological Psychology: An Introduction</i> . Sage Texts.	2017
4.	Leukel, F. (1976). <i>Introduction to Physiological Psychology</i> . Pearson.	1976

Paper Components			
Credits	Lecture (L)	Tutorial (T)	Practical (P)
4	3	1	0
Assessment Scheme			
S.No.	Component	Marking Scheme	Total Marks

1	Internal Assessment - Assignment - Class Test - Attendance		30
		12	
		12	
		6	
2.	Continuous Assessment (Tutorial) - Quiz - Class Activity - Attendance		40
		20	
		15	
		5	
3.	Practical - Continuous Assessment - End term practical examination - Viva		NA
		NA	
		NA	
		NA	
4.	End Semester Examination		90