

**SRM UNIVERSITY**

**DELHI-NCR, SONEPAT, HARYANA**

**Subject: 23PYBA 201 Subject : BIOPSYCHOLOGY**

**Semester/Year:II/I Branch: Clinical Psychology**

**Staff in Charge: Dr. Anuradha Designation: Associate Prof.**

**SRM UNIVERSITY, DELHI-NCR, SONIPAT, HARYANA**

**Faculty of Humanities and Social Sciences**

**3rd Semester, 2nd Year**

**Subject: 23PYBA201 Subject: Biopsychology Credits :4**

**Semester/Year :II/II Branch: Clinical Psychology**

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**SESSION: 2023-2024**

**Teaching Learning Evaluation Plan**

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| S.No. | Topics | Session Scheduled | Session Held | Pedagogy | Activities | Unit wise learning objective | Unit wise learning outcome | Remarks |
| Unit 1 | **Introduction to Biopsychology**  Nature and scope; History of biopsychology, Methods and ethics in biopsychology; Divisions of biopsychology, Research methods- Lesion Production, Histological Methods, Brain Stimulation and EEG, Trans cranial Magnetic Stimulation, Single Cell Recording Method, Study of living brains- MRI, fMRI, CT Scans and PET Scan | 15 | 18 | Lecture and Discussion  PPT, | 1. Assignments 2. Case studies 3. Class tests | 1. To provide an overview about the purpose of DSM V&ICD IN MOOD DISORDERS 2. To make the students understand the causes of mood disorders and schizophrenia 3. Develop a foundational knowledge of clinical psychology, its historical development and professional ethics   , | 1. After learning this unit, the students will be able to describe the concept of biopsychology. 2. They will become familiarize with the various methods used in biopsychology .like MRI,Fmri,CTscan ec. 3. Students Will be able to understand and apply the knowledge in the identification of brain related problems. |  |
| 2. | **The Nervous System**  Structure and functions of neurons; Neural conduction: Action and Resting Potential, synaptic transmission, Central Nervous System and Peripheral Nervous System: Structure and Function | 15 | 16 | Lecture and Discussion  PPT | 1. Assignments 2. Case studies 3. test | 1. To make the students understand the clinical picture of various disorders. 2. To Get sensitized to the information of psychopathology and dispel myths regarding it | 1. After learning this unit, the students will be able to understand the biology of nervous system. 2. In this unit, the students will be able to understand the importance of functioning of neurons and their role in disorders. 3. Students will be able to able procure the knowledge related to 4. Structure and function of brain and its lobes in managing human behaviour. |  |
| 3. | **Neurotransmitters and Brain Restructuring**  Neurotransmitters and their types, Functional abnormalities of neurotransmitters: dopamine and serotonin hypothesis. Neuroplasticity of Brain (neural degeneration, neural regeneration, and neural reorganization); all supported by Case Studies | 15 | 18 | Lecture and Discussion  presentations | 1. Written Test 2. Presentation 3. Assignment 4. Case studies | 1. Get sensitized to the information of psychopathology and dispel myths regarding the disorder 2. 2.students will be able to differentiate between bipolar I and Bipolar II disorders. | 1. After studying this unit, the students will be able to &   1.They will also be able to gain knowledge about the functional disorders & stress management, depressive disorders and neurodegenerative disorders   1. . 2. Students will be able to develop competency for assessing the psychological functioning and abnormality of individuals through neurological testing . |  |
| 4. | **Neuro-endocrine system**  Endocrine and exocrine glands, Hormones and their functions, methods of studying hormones, Structure, functions and abnormalities of major glands: Pituitary, Pineal, Thyroid, Thymus, Adrenal, Pancreas and Gonads. | 15 | 18 | Lecture and Discussion  PPT | 1. Written Test 2. Presentation 3. Assignments 4. Case studies | 1. To make the students understand the importance of personality disorders.   2.To make the students understand the Characteristics of a test –  3. To make people understand the importance of developmental disorders | After this unit, the students would be able to develop knowledge about the importance of  glandular and nervous system in managing human behaviour.  procure knowledge in maintaining proper diet and behaviour for the regulation of balanced hormones in human body. |  |