**Course code: CP203**

**Course title: Brain, Biochemistry and Behavior**

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| 1. **Course Learning Outcomes: (CLO’s)** | |
| CLO-1 | **Comprehend** the role of different parts of the human brain in development of executive and cognitive functions. (C1) |
| CLO-2 | **Conceptualize** the manifestation of the neurological disorders and behaviors of individuals in light of brain biology. (C3) |
| CLO-3 | **Identify** the importance of food biology in release of neurotransmitters. (C3) |

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|  | | CLO 1 | CLO 2 | CLO 3 |
| **PLO-1**  **Cognitive** | **Psychology Knowledge:** Graduates will be able to comprehend the core concepts of Clinical Psychology—an ability to describe the manifestation of psychological issues |  |  |  |
| **PLO-2**  **Cognitive** | **Conceptualization:** Graduates can formulate and conceptualize psychological problems according to the Bio-Psych-Social and Spiritual Model with respect to cultural practices |  |  |  |
| **PLO-3**  **Psychomotor** | **Basic Assessment Skill Development**: An ability to demonstrate and interpret various assessment modalities. |  |  |  |
| **PLO-4**  **Psychomotor** | **Therapeutic Techniques and Implementation**: Graduates will be able to utilize the therapeutic skills and construct the intervention plan |  |  |  |
| **PLO-5**  **Affective** | **Communication:**  Graduates will be able to communicate and demonstrate practical verbal and written skills |  |  |  |
| **PLO-6 Psychomotor** | **Case studies**: An ability to conceptualize individual clinical cases with diverse ethnic, religious, and cultural backgrounds along with integrated assessment and intervention skills |  |  |  |
| **PLO-7 Affective** | **Ethical considerations**: Graduates will ensure professional ethical guidelines and principles in clinical and community settings. |  |  |  |
| **PLO-8 Psychomotor** | **Research:** An ability to identify the need for significant indicators of mental health in a collectivistic culture to execute scientific research |  |  |  |
| **PLO-9 Psychomotor** | **Community Work**: Graduates will able to engage with different organizations to provide community services including recognition and bridging different resources to fulfill the psychological needs of communities such as marginalized population |  |  |  |
| **PLO-10 Psychomotor** | **Mental Health Awareness:** Graduates will be able to take initiative and design Programs for prevention and promotion of mental health wellness and quality of life in general population. |  |  |  |
| **PLO-11 Cognitive** | **Lifelong Learning**: Able to develop significant professional goals for life and recognize the importance of psychological skills in their personal and professional lives. |  |  |  |

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| 1. **Assurance of Learning and Assessment Items:**   *Specify Assessment Items that will assure student learning through application and achieve objectives of specific PLOs / CLOs* | |
| **Assessment Item** | **Application/ Outcomes**  **PLO / CLO** |
| Assignment 1 | CLO3/ PLO6 |
| Assignment 2 | CLO2/ PLO2 |
| Quiz 1 | CLO1/ PLO1 |
| Quiz 2 | CLO2/ PLO2 |
| Presentation | CLO1/ PLO1 |
| Mid Term | CLO1,CLO3/ PLO1, PLO6 |
| Final Exam | CLO1,CLO2/ PLO1, PLO2,CLO 3 |

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| 1. **Assessment Structure and Grading Policy\*:** | | |
| **Assessment Item(s)** | **Weight (%)** | **When will be assessed** |
| Quiz | 15 | 2 times of semester |
| Assignments | 5 | Twice in a Semester |
| Presentation | 10 | Once in a semester |
| Class Participation | 5 | Throughout the semester |
| Mid Term Exam | 25 | One-time Assessment |
| Final exam | 40 | One-time Assessment |
| **Total** | **100** |  |

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| 1. **Weekly Sessions Plan:** | | | | |
| Week | Course Contents | CLO | Bloom Taxonomy Level | Reference Chapter(s) |
| 1 | Coordination of body   * Biopsychology * Neuro Psychology * Chemistry of Brain * Physiology of Brain * Neuroplasticity * Neurodegeneration | CLO1 | C1 |  |
| 2 | Physiology of Brain   * Protection of Brain * Sections of Brain * Structure and Function | CLO1 | C2 |  |
| 3 | Structure and Function of Brain Parts  Lobes of Brain | CLO1 | C2 |  |
| 4 | Structure of Skull  Cerebrospinal fluid  Ventricular System | CLO1 | C2 |  |
| 5 | Communication of Brain and Behavior   * Structure of Neurons * Action Potential | CLO3 | C3 |  |
| 6 | Synapse and neural pathway | CLO3 | C3 |  |
| 7 | Neurotransmitters  Meningitis and Hydrocephalus | CLO3 | C3 |  |
| 8 | Mid Term Exams |  |  |  |
| 9 | Dementia and it’s types   * Alzheimer’s Disease | CLO2 | C2 |  |
| 10 | Epilepsy | CLO2 | C2 |  |
| 11 | Brain and Sleep | CLO2 | C2 |  |
| 12 | Parkinson’s Disease | CLO2 | C2 |  |
| 13 | Neurological Diseases   * Stroke * Stress | CLO2 | C2 |  |
| 14 | Addiction and It’s Biological Basis | CLO2 | C2 |  |
| 15 | Revision |  |  |  |
| 16 | Final Exams |  |  |  |

**Course code: CP-204**

**Course title: Adulthood Disorders**

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| 1. **Course Learning Outcomes: (CLO’s)** | |
| CLO-1 | **Define** basic key terms of Diagnostic Protocol according to DSM 5. **(C1)** |
| CLO-2 | **Identify** the symptomology and manifestation of psychological disorders based on criteria of DSM 5. **(C2)** |
| CLO-3 | **Conceptualize** the development of clinical disorders under bio-psycho-social and cultural perspective. **(C3)** |
| CLO-4 | **Classify** the associated features of psychological disorders according to the standardized diagnostic protocol of APA. **(C3)** |
| CLO-5 | **Differentiate** the symptomology and manifestation of different psychological disorders in the light of bio-psycho-social and cultural perspective. **(C4)** |

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|  | | CLO 1 | CLO 2 | CLO 3 | CLO 4 | CLO 5 |
| **PLO-1**  **Cognitive** | **Psychology Knowledge:** Graduates will be able to comprehend the core concepts of Clinical Psychology—an ability to describe the manifestation of psychological issues |  |  |  |  |  |
| **PLO-2**  **Cognitive** | **Conceptualization:** Graduates can formulate and conceptualize psychological problems according to the Bio-Psych-Social and Spiritual Model with respect to cultural practices |  |  |  |  |  |
| **PLO-3**  **Psychomotor** | **Basic Assessment Skill Development**: An ability to demonstrate and interpret various assessment modalities. |  |  |  |  |  |
| **PLO-4**  **Psychomotor** | **Therapeutic Techniques and Implementation**: Graduates will be able to utilize the therapeutic skills and construct the intervention plan |  |  |  |  |  |
| **PLO-5**  **Affective** | **Communication:**  Graduates will be able to communicate and demonstrate practical verbal and written skills |  |  |  |  |  |
| **PLO-6 Psychomotor** | **Case studies**: An ability to conceptualize individual clinical cases with diverse ethnic, religious, and cultural backgrounds along with integrated assessment and intervention skills |  |  |  |  |  |
| **PLO-7 Affective** | **Ethical considerations**: Graduates will ensure professional ethical guidelines and principles in clinical and community settings. |  |  |  |  |  |
| **PLO-8 Psychomotor** | **Research:** An ability to identify the need for significant indicators of mental health in a collectivistic culture to execute scientific research |  |  |  |  |  |
| **PLO-9 Psychomotor** | **Community Work**: Graduates will able to engage with different organizations to provide community services including recognition and bridging different resources to fulfill the psychological needs of communities such as marginalized population |  |  |  |  |  |
| **PLO-10 Psychomotor** | **Mental Health Awareness:** Graduates will be able to take initiative and design Programs for prevention and promotion of mental health wellness and quality of life in general population. |  |  |  |  |  |
| **PLO-11 Cognitive** | **Lifelong Learning**: Able to develop significant professional goals for life and recognize the importance of psychological skills in their personal and professional lives. |  |  |  |  |  |

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| 1. **Assurance of Learning and Assessment Items:**   *Specify Assessment Items that will assure student learning through application and achieve objectives of specific PLOs / CLOs* | |
| **Assessment Item** | **Application/ Outcomes**  **PLO / CLO** |
| Assignment 1 | CLO-2,, PLO-2 |
| Assignment 2 | CLO-4, , PLO-6 |
| Quiz 1 | CLO-1, PLO-1, |
| Quiz 2 | CLO-4, PLO-6 |
| Presentation | CLO 3 - PLO-2 |
| Mid Term | CLO-1, CLO-2, CLO-3, |
| Final Exam | CLO-2, CLO-3, CLO-4, CLO-5 |

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| Assignments | 5 | Twice in a Semester |
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| Final exam | 40 | One-time Assessment |
| **Total** | **100** |  |

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|  | | **Weekly Sessions Plan** | | | | |
| **Week** | **Course Contents** | | **CLO** | **Level of**  **Bloom’s Taxonomy** | **Activity** | **Reference Chapter(s)** |
| 1 | Introduction to Adulthood Disorders | | 1 | C1 | Discussion | Weiten, W. (2001). *Psychology: Themes and variations* (5th ed.). Wadsworth/Thomson Learning. |
| 2 | Key Features of Psychotic Disorders | | 1 | C1, | Debate | Weiten, W. (2001). *Psychology: Themes and variations* (5th ed.). Wadsworth/Thomson Learning. |
| 3 | Diagnostic Criteria of Schizophrenia Disorder | | 1,2,3 | C2 | Discussion, | American Psychiatric Association. (2022). *Diagnostic and statistical manual of mental disorders* (5th ed., text rev.). |
| 4 | Etiology of Schizophrenia | | 4,5 | C3 | Discussion, Presentation | Weiten, W. (2001). *Psychology: Themes and variations* (5th ed.). Wadsworth/Thomson Learning |
| 5 | Diagnostic Criteria of Bipolar Disorder | | 1,2,3 | C4 | Lecture, Discussion and Presentation | American Psychiatric Association. (2022). *Diagnostic and statistical manual of mental disorders* (5th ed., text rev.). |
| 6 | Etiology of Bipolar | | 4,5 | C4 | Lecture, Discussion | Weiten, W. (2001). *Psychology: Themes and variations* (5th ed.). Wadsworth/Thomson Learning |
| 7 | Diagnostic Criteria of Depressive Disorders | | 1,2,3 | C3 | Group Activity, Discussion | American Psychiatric Association. (2022). *Diagnostic and statistical manual of mental disorders* (5th ed., text rev.). |
| 8 | Etiology of Depressive Disorders | | 4,5 | C4 | Group Activity, Discussion | Weiten, W. (2001). *Psychology: Themes and variations* (5th ed.). Wadsworth/Thomson Learning |
| 9 | **Mid Term** | |  |  |  |  |
| 10 | Obsessive Compulsive Disorders | | 1,2,3 | C5 | Group Activity, Discussion | American Psychiatric Association. (2022). *Diagnostic and statistical manual of mental disorders* (5th ed., text rev.). |
| 11 | Obsessive Compulsive Disorder - Etiology | | 4 | C3 | Group Activity, Discussion | Weiten, W. (2001). *Psychology: Themes and variations* (5th ed.). Wadsworth/Thomson Learning |
| 12 | Personality Disorders Cluster A, B, C; Conversion Disorder; Eating Disorder (Bulimia Nervosa, Anorexia) | | 4 | C4 | Group Activity, Discussion | * American Psychiatric Association. (2022). *Diagnostic and statistical manual of mental disorders* (5th ed., text rev.). * Weiten, W. (2001). *Psychology: Themes and variations* (5th ed.). Wadsworth/Thomson Learning |
| 13 | Trauma and Stress Related disorder; Sleep Wake Disorders; Anxiety Disorders | | C4 | C4 | Group Activity, Discussion | * Association. (2022). *Diagnostic and statistical manual of mental disorders* (5th ed., text rev.). * Weiten, W. (2001). *Psychology: Themes and variations* (5th ed.). Wadsworth/Thomson Learning |
| 14 | Addiction | | 5 | C5 | Group Activity, Discussion | * Association. (2022). *Diagnostic and statistical manual of mental disorders* (5th ed., text rev.). * Weiten, W. (2001). *Psychology: Themes and variations* (5th ed.). Wadsworth/Thomson Learning |
| 15 | Revision | |  |  |  |  |
| 16 | Final Term | |  |  |  |  |