UNDERGRADUATE SYLLABUS FOR B.A. PSYCHOLOGY

DEPARTMENT OF PSYCHOLOGY
SCHOOLS OF HUMANITIES & SOCIAL SCIENCES
ASSAM WOMEN'S UNIVERSITY
ROWRIAH, JORHAT, ASSAM 785004

SERIAL NO.	SEMESTER	MODULE NAME	CREDIT HOURS
1.	I	INTRODUCTION TO PSYCHOLOGY AS SCIENCE-I	4
		STATISTICS FOR BEHAVIOURAL SCIENCES-I	4
		ELECTIVE-I	4
		QUALIFYING LANGUAGE -I	4
		ELECTIVE LANGUAGE-I	4
2.	II	INTRODUCTION TO PSYCHOLOGY AS SCIENCE-II	4
		RESEARCH METHODS FOR BEHAVIOURAL SCIENCES-I	4
		ELECTIVE-II	4
		QUALIFYING LANGUAGE-II	4
		ELECTIVE LANGUAGE-II	4
3.	III	BEHAVIOURAL NEUROSCIENCE-I	5
		STATISTICS FOR BEHAVIOURAL SCIENCES-II	4
		THEORIES OF PERSONALITY	3
		CHILD AND ADOLESCENT DEVELOPMENT	4
4.	IV	BEHAVIOURAL NEUROSCIENCE-II	5
		RESEARCH METHODS FOR BEHAVIOURAL SCIENCES-II	4
		INTRODUCTION TO SOCIAL PSYCHOLOGY	3
		EXPERIMENTAL PSYCHOLOGY-LABORATORY WORK + REPORT WRITING-I	4

5.	V	INTRODUCTION TO COGNITIVE PSYCHOLOGY-I	5
		INTRODUCTION TO PSYCHOPATHOLOGY-I	4
		FUNDAMENTALS OF COUNSELLING	3
		EXPERIMENTAL PSYCHOLOGY-LABORATORY WORK + REPORT WRITING-II	4
		PSYCHOLOGICAL TESTING: BASIC THEORITICAL FRAMEWORK	4
6.	VI	INTRODUCTION TO COGNITIVE PSYCHOLOGY-II	5
		INTRODUCTION TO PSYCHOPATHOLOGY-II	4
		PSYCHOLOGY AND WORK Or FOUNDATION IN ALGORTHMIC THINKING AND DESIGN	3
		PSYCHOLOGICAL TESTING: PRACTICUM	4
		PROJECT REPORT	4

SEMESTER-I

BPY/101: INTRODUCTION TO PSYCHOLOGY AS SCIENCE-I

CREDIT HOURS: 04

UNIT I: THE SCIENCE OF PSYCHOLOGY **12 hours**

1. Psychology as Science
2. Brief historical reviews of various Schools of Psychology of the West
3. Methods of Psychological Research
4. Ethical considerations in conducting Psychological research

UNIT II: BIOLOGICAL BASIS OF BEHAVIOUR: **15hours**

1. Organisation of Nervous system: Microscopic and Macroscopic approaches
2. Microscopic approach: Neuron as a special type of cell.
3. Structure & Function of Neurons and Glial Cells
4. Generating the Neural message
5. Neurotransmitters & Synapses
6. Brain Imaging techniques
7. Macroscopic approach: CNS and PNS
8. CNS: Structure and working of the Brain
9. Plasticity & Hemispherical Specialisation
10. Hormones and their effect on behaviour

UNIT III: SENSATION & PERCEPTION **13hours**

1. The Sensory systems of vision, audition
2. Perceptual process
3. Perceptual Constancies
4. The Gestalt Principles
5. Bottom-Up and Top Down theories of perception
6. Perceptual Illusion

UNIT IV: LEARNING **12hours**

1. Principles of Learning; Classical Conditioning and Operant Conditioning
2. Conditioned Emotional Responses
3. Schedules of Reinforcement
4. Physiological basis of Learning: Understanding Feedback mechanisms
5. Cognitive theories of Learning, Observational Learning

UNIT V: MEMORY **12hours**

1. Attention and memory
2. Models of Memory
3. Long Term Memory: Types and Organisation
4. Retrieval Cues
5. Retrieval Failure
6. Reconstructive nature of memory
7. Forgetting

RECOMMENDED TEXTS:

1. Ciccarelli, S. & Meyer, G. E. (2006). Psychology. New Delhi: Pearson Education.
2. Morgan, C. T., King, R. A., Weisz, J. R. and Schopler, J. (1986). Introduction to psychology. McGraw-Hill Book Co.
3. Zimbardo, P. G. and Weber, A. L. (1997). Psychology. N.Y.: Pearson.

BPY/102: STATISTICS FOR BEHAVIOURAL SCIENCES-I

CREDIT HOURS: 04

UNIT I: DATA BASICS **12 Hrs**

1. Introduction and Basic terminologies: Variables, Values and Scores
2. Levels of measurement (kinds of Variables)
3. Frequency Tables: Ungrouped and Grouped Data
4. Frequency Graphs: Histograms and Polygons
5. Shape of Frequency Distribution: Unimodal and Bimodal
6. Symmetrical and Skewed Distribution

UNIT II: MEASURES OF CENTRAL TENDENCY **12Hrs**

1. Importance of Measures of Central Tendency in describing the nature of the Data.
2. Calculation of the measures of Central Tendency
3. Assumed Mean Method for Grouped Data
4. Comparison of Mean, Median and Mode

UNIT III: MEASURES OF VARIABILITY **15Hrs**

1. Variability: The Spread of Data
2. Centre of Data and Effects of Extreme Values
3. Measures of Variability
4. Quartile Deviations
5. The Shape of Data
6. Box plots and Inter Quartile Range
7. Standard Deviation
8. When to use the various measures of Variability

UNIT IV: INTRODUCTION TO PROBABILITY **15Hrs**

1. Basics of probability
2. Meaning and Importance of Normal Distribution
3. Properties of Normal Probability Distribution
4. Computing Percentile and Percentile Ranks
5. Sample and Population
6. Long Run Average
7. Sampling Distribution
8. Standard Error of Measurement
9. Transforming Raw Scores in Standardized Scores
10. Calculating Z Scores

UNIT V: LINEAR CORRELATION, REGRESSION AND PREDICTION **10Hrs**

1. The meaning of Correlation
2. The Coefficient of correlation
3. Product Moment method
4. The Regression equations
5. Factors affecting the interpretation of r
6. The interpretation of coefficient of correlation

RECOMMENDED TEXTBOOKS:

1. Diez, D., M., Barr, C.,D., Centikaya-Rundel, M. OpenIntro Statistics (2nd Ed.).2012
2. Aron, A., Aron, E.N., & Coups, E.J. (2007).*Statistics for Psychology. (4thEd.)* India:Pearson Education, Prentice Hall.
3. King, B.M. & Minium, E.W. (2007).*Statistical Reasoning in the Behavioral Sciences.(5th Ed.)* USA: John Wiley.
4. Garrett, H.,E.(2009). Statistics in Psychology and Education (6th ed.). Paragon International Publication.
5. Mangal, S.,K.(2010). Statistics in Psychology and Education. (2nd ed.). PHI Learning Pvt. Ltd.
6. Neuman, W.L. (2006). Social Research Methods: Qualitative and Quantitative Approaches (6th Ed.) Boston: Pearson Education.

SEMESTER-II

BPY/201: INTRODUCTION TO PSYCHOLOGY AS SCIENCE-II

CREDIT HOURS: 04

UNIT-I: CONSCIOUSNESS: SLEEP, DREAMS, HYPNOSIS AND DRUGS 16Hrs

1. Meaning of Consciousness
2. Altered state: Sleep and Circadian Rhythms
3. Theories of Sleep: Adaptive theory, Restorative Theory
4. Stages of Sleep
5. Stage Four Sleep Disorders: Night Terrors, Sleepwalking, Somnambulism
6. Dream Interpretation and Activation-synthesis Hypothesis
7. Theories of Hypnosis
8. Altered states: Psychoactive Drugs
9. Physical and Psychological Dependence
10. Drug Types: Stimulants, Depressants, Alcohol, Narcotics, Hallucinogens, Marijuana

UNIT-II: MOTIVATION AND EMOTION 16Hrs

1. Approaches to Understanding Motivation: Instinct Approach, Drive-Reduction Approach, Incentive Approach, Humanistic Approach
2. Hunger: The role of Insulin and Hypothalamus
3. Social Component of Hunger
4. Eating Disorders: Anorexia, Bulimia
5. Physiology of Emotions
6. Emotions and Facial Expressions: classic work of Paul Ekman
7. Labelling Emotions: James-Lange Theory, Cannon-Bard Hypothesis, Schachter-Singer Cognitive Arousal theory
8. Facial Feedback Hypothesis
9. Lazarus and Cognitive- Mediational theory

UNIT-III: SEXUALITY AND GENDER 16Hrs

1. Primary and Secondary Sex Characteristics
2. Gender Roles and Gender Typing: Biological Influences, Environmental Influences, Culture

3. Theories of Gender role Development: Social Learning theory, Gender Schemata Theory
4. Male and Female Gender stereotypes
5. Gender Differences: Cognitive Differences, Social and Personality Differences
6. Human Sexual Behaviour
7. Types of Sexual Behaviour: The Kinsey Report and the Janus Report
8. Sexual Dysfunctions
9. Sexually Transmitted Diseases

UNIT-IV: STRESS AND HEALTH 16Hrs

1. Stress and Stressors
2. Lazarus' Cognitive Appraisal Approach
3. Sources of Stress: Pressure, Frustration, Uncontrollability
4. Nature and Types of Conflict: Approach-Approach, Approach-Avoidance, Avoidance-Avoidance, Multiple Approach-Avoidance
5. Factors in Stress Reaction: The General Adaptation Syndrome
6. Immune System in Stress: Heart Disease, Cancer
7. Personality Types and Reaction to Stress: Type A, Type B, Type C, The Hard Personality
8. Coping with Stress: Problem Focussed, Emotion Focussed, Defense Mechanism, Meditation, Religion and Culture

REFERENCES:

1. Ciccarelli, S. & Meyer, G. E. (2006). Psychology. New Delhi: Pearson Education.
2. Morgan, C. T., King, R. A., Weisz, J. R. and Schopler, J. (1986). Introduction to psychology. McGraw-Hill Book Co.
3. Zimbardo, P. G. and Weber, A. L. (1997). Psychology. N.Y.: Pearson

BPY/202: RESEARCH METHODS FOR BEHAVIOURAL SCIENCES-I

CREDIT HOURS: 04

UNIT-I: SCIENTIFIC INQUIRY **16Hrs**

1. Introduction to Scientific Thinking
2. Scientific Method
3. Generating Testable Ideas: Converting Ideas into Testable Hypothesis
4. The Three "C"s of an Effective Literature Review
5. Ethics in Research: Human Participants and Animals

UNIT-II: VARIABLES AND SAMPLES **16Hrs**

1. Criteria for defining and Measuring Variables: Constructs and Operational Definitions
2. Types of Variables
3. Scales of Measurement
4. Reliability and Validity of a Measurement
5. Sampling from the Population: Why do Researchers Select Samples?
6. Methods of Sampling: Non Probability and Probability Sampling
7. Sampling Error and Standard Error of Mean
8. Potential Biases in Sampling

UNIT-III: CHOOSING A RESEARCH DESIGN **16Hrs**

1. Categories of Research Design
2. Internal and External Validity
3. Demonstrating Cause in an Experimental Design
4. External Validity, Experimentation and Realism

UNIT-IV: NON EXPERIMENTAL RESEARCH DESIGN **16Hrs**

1. Naturalistic Observation: Natural and Contrived Setting, Techniques for Naturalistic Observation
2. Ethics in Naturalistic Observation
3. Qualitative and Existing Data Designs
4. Survey Designs: Types and Rules for writing Survey Items
5. Surveys, Sampling and Non Response Bias

6. Structure of Correlational Design: Relationship between Variables
7. Correlation, Regression and Prediction

REFERENCES:

1. Neuman, W.L. (2006). *Social Research Methods: Qualitative and Quantitative Approaches (6th Ed.)* Boston: Pearson Education.
2. Privitera, G.J. (2014). *Research Methods for Behavioural Sciences.* Thousand Oak, California: Sage Publication.
3. Mangal, S.K., Mangal, S. (2013). *Research Methodology in Behavioural Sciences*. Delhi. PHI Pvt. Ltd.
4. Dyer, C. (2001) *Research in Psychology: A Practical Guide to Research Methodology and Statistics (2nd Ed.)* Oxford: Blackwell Publishers.

SEMESTER-III

BPY/301: BEHAVIOURAL NEUROSCIENCE-I

CREDIT HOURS: 05

UNIT-I: FOUNDATIONS OF BIOPSYCHOLOGY 20Hrs

1. Biopsychology as Neuroscience: Relationship between Biopsychology and other branches of Neuroscience
2. Divisions of Biopsychology
3. Typical Bio psychological research questions and designs
4. Foundations of Biopsychology; Evolution, Genetics and Experience
1. Human Evolution
2. Fundamental Genetics
3. Interaction of Genetic Factors and Experience

UNIT-II: ANATOMICAL & FUNCTIONAL BASIS OF THE NERVOUS SYSTEM 15Hr

1. General Layout of the Nervous system
2. Cells of the Nervous system
3. The Five major Divisions of the Brain
4. Resting Potential and Action Potential
5. Synaptic transmission
6. Pharmacology of synaptic potential

UNIT-III: RESEARCH METHODS IN BIOPSYCHOLOGY 20Hrs

1. Methods of visualizing and stimulating the Living Brain; CT Scan, MRI & fMRI, PET, Transcranial magnetic stimulation
2. Recording human physiological activity; scalp electroencephalography, muscle tension, eye movement, skin conductance, cardiovascular activity
3. Pharmacological Research methods
4. Genetic Engineering
5. Neuropsychological Testing
6. Behavioural methods of Cognitive Neuroscience

UNIT-IV: SENSORY AND MOTOR SYSTEM 25 Hrs

1. The Visual System; Visual Transduction of Light into Neural signals, Seeing Edges, Seeing Colour,
2. Mechanisms of Perception, Conscious Awareness and Attention
3. Principles of Sensory system Organization; Hierarchical Organisation, Functional Segmentation, Parallel Processing
4. Cortical mechanism of Vision and Audition,
5. Somatosensation: Touch and Pain
6. The Chemical sensation: Smell and Taste
7. The Sensorimotor System; Association Cortex, Motor Cortex, Cerebellum and Basal Ganglia, Descending motor pathways

REFERENCE:

1. Pinel. J.G. (2011). *Biopsychology*.(8th Ed.).Pearson International
2. Levinthal, C. F. (1983). *Introduction to Physiological Psychology*. New Delhi: PHI
3. Carlson, N. R. (1990). *Physiology of Behaviour*. Boston: Allyn & Bacon.
4. Carlson, N.R. (2013). Foundations of Behavioural Neuroscience. Pearson International

BPY/302: STATISTICS FOR BEHAVIOURAL SCIENCES-II

CREDIT HOURS: 04

UNIT-I: INTRODUCTION TO HYPOTHESIS TESTING 20Hrs

1. The Hypothesis Testing Process: One-Tailed and Two-Tailed Hypothesis Tests
2. Decision Errors
3. Hypothesis Tests with a Distribution of Means: The *Z* Test
4. Hypothesis Tests About Sample Means of Samples (Z Test) and standard Error
5. Estimation, Standard Error and Confidence Interval
6. Confidence Interval Versus Significance
7. Effect Size: How Big is an Effect on the Population
8. Statistical Power: The Role of Power when Planning a Study

UNIT-II: INTRODUCTION TO t-TEST 14Hrs

1. t-Test for a single sample
2. t-Test for Dependent Means
3. Effect Size and Power for t-Test with Dependent Means
4. Hypothesis Testing with t-Test for Independent Means
5. Effect Size and Power for the t Test for Independent Means

UNIT-III: INTRODUCTION TO ANALYSIS OF VARIANCE 20Hrs

1. Assumptions in analysis of Variance
2. Hypothesis Testing with Analysis of Variance
3. Post Hoc Comparisons
4. Basic Logic of Factorial Designs and Interaction Effect
5. Recognising and Interpreting Interaction Effect
6. Basic Logic of the Two-Way Analysis of Variance
7. Power and Effect Size in Factorial Analysis

UNIT-IV: CHI-SQUARE TEST 10Hrs

1. When to resort to Chi- Square Test
2. Assumptions for Chi-Square Test
3. Effect Size and Power for Chi-Square Test for Independence

REFERENCES:

1. Diez, D., M., Barr, C.,D., Centikaya-Rundel, M. OpenIntro Statistics (2nd Ed.).2012
2. Aron, A., Aron, E.N., & Coups, E.J. (2007).*Statistics for Psychology. (4thEd.)* India:Pearson Education, Prentice Hall.
3. King, B.M. & Minium, E.W. (2007).*Statistical Reasoning in the Behavioural Sciences.(5th Ed.)* USA: John Wiley.
4. Garrett, H.,E.(2009). Statistics in Psychology and Education (6th Ed.). Paragon International Publication.
5. Mangal, S.,K.(2010). Statistics in Psychology and Education. (2nd Ed.). PHI Learning Pvt. Ltd.
6. Privitera, G.J. (2014). *Research Methods for Behavioural Sciences.* Thousand Oak, California: Sage Publication.

BPY/304: THEORIES OF PERSONALITY

CREDIT HOURS: 03

UNIT I: CLASSICAL PSYCHODYNAMIC THEORIES OF PERSONALITY 16Hrs

1. Sigmund Freud's Classical Psychoanalytic Theory
2. Carl Jung's Analytic Theory

UNIT-II: NEO-FREUDIAN THEORIES OF PERSONALITY 16Hrs

1. Alfred Adler
2. Eric Fromm
3. Karen Horney
4. Harry stack Sullivan

UNIT-III: CONTEMPORARY THEORIES OF PSYCHOLOGY 16Hrs

1. Erikson's Psychosocial Theory of Personality Development
2. Henry Murray's Personology
3. Gordon Allport
4. Carl Roger's Person Centred Theory

REFERENCE:

1. Hall, C.S., Lindzey, G., Campbell, J.B., (2013).Theories of Personality. (4th Ed.). New Delhi. Wiley & Sons, Inc.
2. Schultz. (2103). Theories of Personality. (10th Ed.). Cengage
3. Cloringer, S.C., (2013). Theories of Personality: Understanding Persons. (6th Ed.). Pearson International

BPY/303: CHILD AND ADOLESCENT DEVELOPMENT

CREDIT HOURS: 04

UNIT-I: INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY 12HRs

1. Understanding Development as distinct from Physical Growth and Maturation
2. A brief review of Developmental stages from Historical Perspective
3. Research Strategies: Basic Methods And Designs
4. Themes in the Study of Human Development: Nature/Nurture, Active/Passive, continuity/Discontinuity
5. Development in Indian Context

UNIT-II: STAGES OF DEVELOPMENT 15Hrs

1. Prenatal development
2. Birth and Infancy
3. Early childhood
4. Middle childhood
5. Adolescence

UNIT-III: DOMAINS OF DEVELOPMENT 24Hrs

1. Cognitive development: perspectives of Piaget Stage theory and Vygotsky's Sociocultural Perspective
2. Stages of Language development
3. Emotional development Temperament and Attachment
4. Development of the Self Concept: Self Esteem and Achievement Motivation and Academic Self Concept
5. The concept of Self in Middle Childhood and Adolescence: Cultural Influences
6. Sex Differences and Gender role Development
7. Aggression, altruism and Moral development

UNIT-IV: CONTEXT FOR DEVELOPMENT 13Hrs

1. Family and parenting
2. Peers

3. Media
4. Schooling
5. Socio-cultural context

REFERENCES:

1. Shaffer, D., Kipp, K. (2014). *Developmental Psychology: Childhood and Adolescence* (9th Ed.). Belmont. Wadsworth
2. Papalia, D. E., Olds, S.W. & Feldman, R.D. (2006). *Human development* (9th Ed.).New Delhi: McGraw Hill.
3. Saraswathi, T.S. (2003). *Cross-cultural perspectives in Human Development: Theory, Research and Applications*. New Delhi: Sage Publications.
4. Misra, G. (2009). *Psychology in India, Vol 1: Basic Psychological Processes and Human Development*. India: Pearson.

SEMESTER-IV

BPY/401: BEHAVIIOURAL NEUROSCIENCE-II

CREDIT HOURS: 05

UNIT-I: BRAIN PLASTICITY **20Hrs**

1. Phases of Neurodevelopment
2. Post natal cerebral development in Human Infants
3. Effects of Experience on Early Development, Maintenance and Reorganisation of Neural Circuits
4. Disorders of Neurodevelopment: Autism and William's Syndrome
5. Brain Damage and Neuroplasticity
6. Causes of Brain Damage: Brain Tumours, Cerebrovascular Disorders, Closed Head Injuries,
7. Neuropsychological diseases: Epilepsy, Parkinson's Disease, Huntington's Disease, Multiple Sclerosis, Alzheimer's Disease
8. Animal Models of Human Neuropsychological Diseases
9. Neuroplastic Response to Nervous system Damage: Degeneration, Regeneration, Reorganisation and Recovery
10. Neuroplasticity and Treatment of Nervous System Damage

UNIT-II: LEARNING, MEMORY AND AMNESIA **20Hrs**

1. Amnesiac effects of Bilateral Medial Temporal Lobectomy
2. Amnesia of Korsakoff's syndrome
3. Amnesia of Alzheimer's Disease
4. Neuroanatomy of Object-Recognition Memory
5. The Hippocampus and Memory for Spatial Locations
6. Memories Storage
7. Synaptic mechanism of Learning and Memory

UNIT-III: LATERALIZATION, LANGUAGE AND THE SPLIT BRAIN **20Hrs**

1. Cerebral Lateralization of function: the case of Aphasia and Apraxia
2. Test of Cerebral Lateralization
3. Speech Laterality and Handedness
4. Sex Difference in Brain Lateralization
5. Split Brain Research of Myers and Sperry

6. Independence of Split Hemispheres: Current Perspectives
7. Difference between Left and Right Hemisphere
8. Evolutionary perspective of Brain Lateralization and Language
9. Cortical Localization of Language: Wernicke-Geschwind Model
10. Cognitive Neuroscience of Language
11. Cognitive Neuroscience of Dyslexia: Deep and Surface Dyslexia

UNIT-IV: BIOPSYCHOLOGY OF EMOTION, STRESS AND HEALTH 20Hrs

1. Early landmarks in Biopsychological Investigation of Emotions
2. Emotions and the Autonomic Nervous system
3. Emotions and Facial Expressions
4. Types of Aggressive and Defensive Behaviour
5. Aggression and Testosterone
6. Neural Mechanism of Fear Conditioning: Probing the Amygdala
7. Contextual Fear Conditioning and the Hippocampus
8. Stress and Health
9. Psychoneuroimmunology: Stress, the Immune system and the Brain
10. Stress and the Hippocampus
11. Cognitive Neuroscience of Emotions: Amygdala, Medial Prefrontal Lobe, Lateralisation
12. Individual Differences in Neural Mechanism of Emotions

REFERENCE:

5. Pinel. J.G. (2011). *Biopsychology*.(8th Ed.).Pearson International
6. Levinthal, C. F. (1983). *Introduction to Physiological Psychology*. New Delhi: PHI
7. Carlson, N. R. (1990). *Physiology of Behaviour*. Boston: Allyn & Bacon.
8. Carlson, N.R. (2013). Foundations of Behavioural Neuroscience. Pearson International

BPY/402: RESEARCH METHODS FOR BEHAVIOURAL SCIENCES-II

CREDIT HOURS: 04

UNIT-I: QUASI EXPERIMENTAL AND EXPERIMENTAL DESIGNS 16Hrs

1. An Overview of Quasi Experimental Design
2. One Group Design, Non Equivalent Control Group Design, Time Series Design, Developmental Designs
3. An Overview of Single Case Experimental Design
4. Single-Case Baseline-Phase Design
5. Validity, Stability, Magnitude and Generality

UNIT-II: BETWEEN SUBJECT EXPERIMENTAL DESIGN 16Hrs

1. Experimental Versus Control Group
2. Manipulation of the Independent Variable
3. Variability and the Independent Variable
4. Comparing Two or More Independent Samples
5. Measuring the Dependent Variable
6. Advantages and Disadvantages of Between Subject Designs

UNIT-III: WITHIN SUBJECT EXPERIMENTAL DESIGN 16Hrs

1. Conducting Experiments: Within Subject Design
2. Controlling Time Related Factors
3. Comparing Two or More Related Samples
4. An Alternative to Pre-Post Design: Solomon Four-Group Design
5. Comparing Between Subject and Within Subject Design

UNIT-IV: FACTORIAL EXPERIMENTAL DESIGN 16Hrs

1. Testing Multiple Factors in the same Experiment
2. Selecting Samples for a Factorial Design
3. Types of Factorial Design
4. Main Effect and Interaction Effect
5. Reasons for including Two or More Factors in an Experiment
6. Higher-Order Factorial Design

REFERENCES:

5. Neuman, W.L. (2006). *Social Research Methods: Qualitative and Quantitative Approaches (6th Ed.)* Boston: Pearson Education.
6. Privitera, G.J. (2014). *Research Methods for Behavioural Sciences.* Thousand Oak, California: Sage Publication.
7. Mangal, S.K., Mangal, S. (2013). *Research Methodology in Behavioural Sciences*. Delhi. PHI Pvt. Ltd.
8. Dyer, C. (2001) *Research in Psychology: A Practical Guide to Research Methodology and Statistics (2nd Ed.)* Oxford: Blackwell Publishers.

BPY/403: INTRODUCTION TO SOCIAL PSYCHOLOGY

CREDIT HOURS: 03

UNIT-I: BASIC FRAMEWORK OF SOCIAL PSYCHOLOGY 16Hr

1. Definition, Nature, Origin and Development
2. Understanding Others: Non Verbal Communication, Attribution, Impression Formation and Impression Management
3. Social Psychology in Indian context
4. Application

UNIT-II: UNDERSTANDING AND EVALUATING THE SOCIAL WORLD 16Hrs

1. Social cognition: Schemas and Heuristics
2. Potential Sources of Error in Social Cognition
3. Attitude Formation
4. The fine art of Persuasion
5. Cognitive Dissonance

UNIT-III: ASPECTS OF SOCIAL INTERACTION AND INFLUENCE 16Hrs

1. Interpersonal attraction.
6. Prosocial behaviour: Helping Others
7. Aggression: Nature, Causes, and Control
8. Conformity: Group Influence in Action

REFERENCES:

1. Baron. R.A., Byrne, D & Bhardwaj. G (2010).*Social Psychology* (12th Ed).New Delhi: Pearson
2. Fiske, S, Taylor, S. (2008) Social cognition: From Brain to Culture.
3. Taylor,S.E., Peplau,L.A. & Sears,D.O. (2006). *Social Psychology* (12th Ed). New Delhi: Pearson.
4. Misra, G. (1990) .*Applied Social Psychology*. New Delhi: Sage.

BPY/404: EXPERIMENTAL PSYCHOLOGY: PRACTICUM 64Hrs

CREDIT HOURS: 04

1. Historical background of Experimental Psychology and relationship with other sciences
2. Methods of Experimental Psychology
3. Report Writing

----------**LIST OF EXPERIMENTS**----------

1. Distraction
2. Span
3. Division
4. Muller Lyer Illusion
5. Horizontal vertical Illusion
6. Organization in perception
7. Set in Perception

REFERENCES:

1. Woodworth, R.S, Schlosberg, H. (1971). *Experimental Psychology*. New Delhi. Oxford & IBH Publishing Co.
2. Rajamanickam, M. (2004). Experimental Psychology with Advanced Experiments. (Vol. I & II). New Delhi. Concept Publishing Co. Pvt. Ltd.

SEMESTER: V

BPY/501: INTRODUCTION TO COGNITIVE PSYCHOLOGY-I

CREDIT HOURS: 05

UNIT-I: PERCEPTION AND ATTENTION **20Hrs**

1. The computational Brain
2. Perceptual Span
3. Iconic and Echoic Storage
4. Function of Sensory Stores
5. Attention: Processing Capacity and Selective Attention
6. Models of Selective Attention
7. The Neurocognition of Attention

UNIT-II: PATTERN RECOGNITION **20Hrs**

1. Visual Pattern Recognition
2. Gestalt Theory
3. Bottom-Up versus Top-Down Processing
4. Template Matching
5. Feature Analysis
6. Prototype Matching
7. Form Perception

UNIT-III: MEMORY: STRUCTURE AND PROCESSES **20Hrs**

1. Neurocognition of STM, Capacity of STM, Coding of Information in the STM, Retrieval from STM
2. Neurocognition of LTM, Storage and Structure of LTM, Autobiographical Memories
3. Eyewitness Testimony
4. Models of Memory: Waugh and Norman, Atkinson and Shiffrin, Levels of Recall (LOR), Levels of Processing (LOP), Self-Reference Effect, Episodic and Semantic Memory
5. A Connectionist Model of Memory: Parallel Distributed Processing

UNIT-IV: MENTAL REPRESENTATIONS: MEMORY AND IMAGERY 20Hrs

1. Semantic Memory: Cognitive Models
2. Representation of Knowledge: Neurocognitive Considerations
3. Memory consolidation
4. Connectionism
5. Mental Imagery and Cognitive Psychology: Dual Coding, Conceptual-Propositional Hypothesis, Functional-Equivalency Hypothesis
6. Cognitive Maps

REFERENCES:

1. Solso, R. L. (2006). *Cognitive Psychology*. New Delhi. Pearson Education
2. Solso, R., (2008). Experimental Psychology: A Case Approach (7th ed.). Pearson.
3. Eysenck, M., & Keane, M. (2010). Cognitive psychology: A student's handbook (6th ed.). Psychology Press.
4. Harré, R. (2000). Cognitive Science: A Philosophical Introduction. Sage: London.

BPY/502: INTRODUCTION TO PSYCHOPATHOLOGY-I

CREDIT HOURS: 04

UNIT-I: ELEMENTS OF MALADAPTIVE BEHAVIOUR **16Hrs**

1. Range of Abnormal Behaviour: Historical perspectives to Current Concepts
2. Seeking Help For Abnormal Behaviour
3. Theoretical Perspectives: Biological, Psychodynamic, Behavioural, Cognitive, Humanistic-Existential Perspective
4. The Community-Cultural Perspective
5. Classification and Assessment

UNIT-II: ANXIETY DISORDERS AND DISSOCIATIVE DISORDER **16Hrs**

1. Panic disorders & agoraphobia: Specific phobias, Social phobia
2. Generalized anxiety disorder
3. Obsessive compulsive disorders
4. Dissociative Amnesia, Dissociative Identity Disorder

UNIT-III: DEVELOPMENTAL DISORDERS **16Hrs**

1. Mental Retardation
2. Autism
3. ADHD
4. Learning Disabilities

UNIT-IV: PERSONALITY DISORDER **16Hrs**

1. Types of Personality Disorder
2. Onset, Symptoms and Prevalence
3. Diatheses-Stress Model
4. Trait Model

REFERENCE:

1. Carson R.C., Butcher J.N., Mineka, S., & Hooley J.M. (2007). *Abnormal Psychology.* (13th Ed.).ND: Pearson Education.
2. Barlow David H. & Durand,V.Mark (1995) *Abnormal Psychology*, Brooks/Cole Publishing Co.
3. Sarason, I.,G., Sarason, B. (2009). Abnormal Psychology: The Problems of Maladaptive Behaviour. (11th ed.) PHI Learning Pvt. Ltd.

BPY/503: FUNDAMENTALS OF COUNSELLING

CREDIT HOURS: 03

UNIT-I: FOUNDATIONS OF COUNSELLING **12Hrs**

1. History and Trends in Counselling
2. Personal and Professional Aspects of counselling
3. Ethical and Legal Aspects of Counselling
4. Counselling in a Multicultural Society

UNIT-II: THE COUNSELLING PROCESS **12Hrs**

1. Building Counselling Relationship
2. Working in a Counselling Relationship: Initial Interview, Assessment
3. Termination of Counselling Relationship

UNIT-III: COUNSELLING THEORIES AND TECHNIQUES **12Hrs**

1. Individual Counselling Theory and Techniques: Psychoanalytic, Humanistic, Behavioural, Cognitive Approaches
2. Group techniques
3. Counselling and Technology

UNIT-IV: DIVERSE FIELD OF APPLICATION **12Hrs**

1. Career Counselling
2. Marriage and Family counselling
3. School Counselling
4. Abuse and Disability Counselling
5. Mental Health and Community Counselling
6. Workplace Counselling

REFERENCE:

1. Gladding, S.T. (2009). *Counselling: A comprehensive profession* (6th Ed.). New Delhi: Pearson India.
2. Feltham, C and Horton, I. (2000). *Handbook of Counselling and Psychotherapy*. London: Sage.
3. Kottler, J. , Shepard, D. (2014). Introduction to Counselling: Voices from the Field. (8th Ed.). Stamford. CT. Cengage.

BPY/504: EXPERIMENTAL PSYCHOLOGY-II 64Hrs

CREDIT HOURS: 04

1. Motor learning
2. Insight & Trial & Error Learning
3. Transfer of learning: Habit Interference
4. Retroactive Inhibition & Proactive inhibition
5. Memory for names & faces
6. Paired Associate Learning
7. Facial expressions (group experiment)
8. Student stress Scale
9. Anger Expression
10. Levels of Aspiration

REFERENCE:

3. Woodworth, R.S, Schlosberg, H. (1971). *Experimental Psychology*. New Delhi. Oxford & IBH Publishing Co.
4. Rajamanickam, M. (2004). Experimental Psychology with Advanced Experiments. (Vol. I & II). New Delhi. Concept Publishing Co. Pvt. Ltd.

BPY/505: PSYCHOLOGICAL TESTING: BASIC THEORITICAL FRAMEWORK CREDIT HOURS: 04

UNIT-I: TEST AND THE TESTING PROCESS **16Hrs**

1. Definition of a Test: Types and Uses
2. Brief History of Psychological Testing
3. Standardized Procedures in Test Administration
4. Influence of the Examiner
5. Background and Motivation of the Examinee
6. Issues in Scoring

UNIT-II: NORMS, RELIABILITY AND VALIDITY **16Hrs**

1. Raw Score Transformation: stanines, Stens and C Scale
2. Norm Group Selection
3. Sources of Measurement Error
4. Measurement Error and Reliability
5. The Correlation Coefficiant
6. Types of Reliability
7. Basic Concept of Validity of a Test
8. Types of Validity

UNIT-III: TESTS OF INTELLIGENCE AND APTITUDE **16Hrs**

1. Intelligence Testing
2. Aptitude Testing
3. Test of Learning And Memory

UNIT-IV: ATTITUDE AND PERSONALITY TESTS **16Hrs**

4. Attitude, Interest and Value Assessment
5. Personality Testing

REFERENCE:

1. Gregory, R.J.(2008). Psychological Testing.(2nd Ed.). New Delhi. Dorling Kindersley
2. Kaplan, R.M, SAccuzzo, D.P, (2013). Psychological Testing: Principles, Application and Issues. (8th Ed.). Belmont.CA. Wadsworth
3. Anastasi, A., Ubrina, S.,(2009). Psychological Testing. (7th Ed.). New Delhi. PHI Pvt. Ltd.
4. Goldstein, G., Hersen, M,. (2000). Handbook Of Psychological Assessment. Elsevier

SEMESTER-VI

BPY/601: INTRODUCTION TO COGNITIVE PSYCHOLOGY-II

CREDIT HOURS: 05

UNIT-I: LANGUAGE AND DEVELOPMENT OF COGNITION 20Hrs

1. Language: Structure and Abstraction
2. Psycholinguistic Aspects of Language
3. Cognitive Psychology and Language: Abstraction of Linguistic Ideas
4. Knowledge and Comprehension
5. Propositional Representation of Text and Reading
6. Language and Neurology
7. Text Processing: Eye Tracking
8. Lexical Decision Task (LDT)
9. Word Recognition: A Cognitive- Anatomical Approach
10. Comprehension

UNIT-II: COGNITIVE DEVELOPMENT 20Hrs

1. Life Span Development
2. Assimilation and Accommodation: Piaget
3. Mind in Society: Vygotsky
4. Neurocognitive Development: Early Neural Development, Lateralisation Studies
5. Cognitive Development: Intelligence and Abilities
6. Development of Information-Acquisition Skills
7. Higher Order Cognition in Children
8. Prototype Formation among Children

UNIT-III: THINKING AND HUMAN INTELLIGENCE 20Hrs

1. Thinking and Concept Formation: Association, Hypothesis Testing
2. Inductive and Deductive Reasoning
3. Syllogistic Reasoning
4. Decision Making in the Real World: Estimating Probabilities, Decision Frames, Representativeness
5. Bayes' Theorem and Decision Making
6. Problem Solving: Internal Representation of the Problem
7. Creativity and Functional Fixity

8. Investment theory of Creativity
9. Human Intelligence: Cognitive Theories of Intelligence
10. Neurocognition and Intelligence

UNIT-IV: ARTIFICIAL INTELLIGENCE (AI) 20Hrs

1. AI and PDP
2. Machines and Mind: The Imitation Game and The Chinese Room
3. Perception and AI
4. Language and AI
5. Problem Solving, Game Playing and AI
6. AI and Arts
7. The Future of AI

REFERENCE:

1. Solso, R. L. (2006). *Cognitive Psychology*. New Delhi. Pearson Education
2. Solso, R., (2008). Experimental Psychology: A Case Approach (7th ed.). Pearson.
3. Eysenck, M., & Keane, M. (2010). Cognitive psychology: A student's handbook (6th ed.). Psychology Press.
4. Harré, R. (2000). Cognitive Science: A Philosophical Introduction. Sage: London.

BPY/602: INTRODUCTION TO PSYCHOPATHOLOGY-II

CREDIT HOURS: 04

UNIT-I: SCHIZOPHRENIA **16Hrs**

1. Clinical Description; Schizophrenia subtypes
2. Causes: Biological dimensions, psychological and Social Contributions
3. Prognosis

UNIT-II: MOOD DISORDER **16Hrs**

1. Clinical Descriptions of Mood Disorders; Depressive Disorders; Bipolar Disorders
2. Causes of Mood disorder
3. Treatment

UNIT-III: DIATHESIS-STRESS MODEL **16Hrs**

1. The Impact of Stress on Physiological Parameters (Coronary Heart Disease and Essential Hypertension)
2. Substance-Related Disorder

UNIT-IV: INTERVENTION AND MANAGEMENT **16Hrs**

1. Biological
2. Psychoanalytic
3. Cognitive-Behavioural

REFERENCE:

4. Carson R.C., Butcher J.N., Mineka, S., & Hooley J.M. (2007). *Abnormal Psychology.* (13th Ed.).ND: Pearson Education.
5. Barlow David H. & Durand,V.Mark (1995) *Abnormal Psychology*, Brooks/Cole Publishing Co.
6. Sarason, I.,G., Sarason, B. (2009). Abnormal Psychology: The Problems of Maladaptive Behaviour. (11th ed.) PHI Learning Pvt. Ltd.

BPY/603: PSYCHOLOGY AND WORK

CREDIT HOURS: 03

UNIT-I: INTRODUCTION TO BASIC FRAMEWORK OF INDUSTRIAL PSYCHOLOGY 12Hrs

1. Brief History of I/O Psychology
2. Pioneers in Personnel Selection: The Hawthorne Studies and Motivational Issues
3. Current Status of I/O Psychology
4. I/O Psychology in the Indian Context

UNIT-II: DEVELOPMENT OF HUMAN RESOURCES 12Hrs

1. Employee Selection Principles and Techniques
2. Fair Employment Practices
3. Job Analysis
4. Biographical Information
5. Interviews: Structured and Situational
6. Performance Appraisal

UNIT-III: MOTIVATION, JOB SATISFACTION & JOB INVOLVEMENT 12Hrs

1. Content Theories of Motivation
2. Process Theories of Motivation
3. Job Satisfaction and On the Job Behaviour
4. Motivation, Satisfaction and Pay
5. Job Involvement and Organisational Involvement

UNIT-IV: THE ORGANISATION OF ORGANISATION 12Hrs

1. Bureaucracy: The Classic Organizational Style
2. Participatory Democracy: The Modern Organization Style
3. Quality of Work-Life Programs
4. Socialization of New Employees
5. Organizational Culture

6. Person-Organization Fit
7. Informal Groups: Organization within Organization
8. Labour Unions

REFERENCE:

1. Schultz, D., Schultz, S. E., (2008). *Psychology and Work Today*. (8th Ed.). New Delhi. Pearson Education
2. Greenberg, J. & Baron, R.A. (2007). *Behaviour in Organizations* (9th Ed.). India: Dorling Kindersley.
3. Luthans, F. (2009). *Organizational behavior*. New Delhi: McGraw Hill
4. Pareek, U.(2010). *Understanding organizational behaviour.* Oxford: Oxford University Press.

BPY/603: FOUNDATION IN ALGORITHMIC THINKING AND DESIGN

CREDIT HOURS: 03

UNIT-I: BASIC COMPONENTS OF COMPUTER **5Hrs**

1. Input Output Devices
2. Central Processing Unit
3. Memory

UNIT-II: INTRODUCTION TO SOFTWARE **10Hrs**

1. Computer Programs
2. Software
3. Programming Languages

UNIT-III: INTRODUCTION TO ALGORITHM **10Hrs**

1. Algorithm
2. Flowchart
3. Pseudocode

UNIT-IV: PROGRAMMING PARADIGM **5Hrs**

1. Structured and Unstructured Programming
2. Procedure Oriented Programming
3. Object Oriented Programming

UNIT-V: INTRODUCTION TO C PROGRAMMING **12Hrs**

1. Basic constructs
2. Loops
3. Functions
4. Structure and Union

UNIT-VI: INTRODUCTION TO C++ **6Hrs**

1. Basic constructs
2. Object oriented characteristics of C++
3. Packages

REFERENCE:

1. Sinha, P.K., Foundation of Computing
2. Byron Gottfried, Programming with C
3. Balagurusamy, E., Object Oriented Programming with C++

BPY/604: PSYCHOLOGICAL TESTING: PRACTICUM

64Hrs

CREDIT HOURS: 04

ANY THREE:

1. INTELLIGENCE TESTING
2. APTITUDE TESTING
3. TEST OF MEMORY
4. ATTITUDE SCALE
5. PERSONALITY TEST

BPY/605: PROJECT WORK

CREDIT HOURS: 04

1. A.P.A style of writing should be followed
2. The relevance of the research question should be clearly established from review of relevant literature.
3. Method, Design and Criteria for inclusion and Exclusion should be Clearly stated
4. Findings and results should follow discussion and conclusion
5. Three copies of the Project Report should be submitted, one each to the Supervisor, at the Department, as well as at the University Library respectively.