

ARTS FACULTY

Subject : Psychology (M.A. Semester II)

No.	Core/ Elective /Ict.	Name of Course	Credits	IM	EM	TM	Course/ Paper Code
M.A. Semester - II							
1	CCT-04	Psychological Tests (Practical) (only for Regular Students) OR Counseling Psychology (only for External Students)	04	00	100	100	
2	CCT-05	Statistics in Psychology	04	30	70	100	
3	CCT-06	Advanced Social Psychology- ^{II} I	04	30	70	100	
4	ECT-03	Health Psychology-II OR Cognitive Psychology-II	04	30	70	100	
5	ECT-04	Psychology of Emotion-II OR Advanced Physiological Psychology-II	04	30	70	100	
		Total	20			500	

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SYLLABUS

Subject: PSYCHOLOGY

Course (Paper) Name & No. : Practical Psychology / CCT – 04

(Only For Regular Students)

Course (Paper) Unique Code :

External Exam time Duration :

Name of Course	Semester	Core/Elective/ Allied/Practical / Project	Course/ Paper Code	Course/ Paper Time	Credit	Internal Marks	External Marks	Total exam Marks	External Exam Time Duration
M. A.	2	Practical	CCT-04	Prac. Psy.	04	00	100	100	

Course Objective:

To acquaint students with the procedure of conducting experiments on various subjects of psychology. (Only for regular students)

Any five experiments from the following are to be performed and reported in journal:

- 1 Speed of learning as a function of meaningfulness of material.
- 2 Bilateral transfer of training.
- 3 Retroactive inhibition
- 4 Study of learning curve: Human Maze Learning.
- 5 Transfer of training in Maze Learning
- 6 Zeigarnik Effect
- 7 Effect of intention to learn
- 8 Division of attention. .

Reference Book:

D'Amato, M.R: Experimental Psychology: Methodology, (1970): Psycho-Physic & Learning, New York: Mc Graw Hill.

Garret, H.E. (1951: Great Experiments in Psychology, New York: Appleton century Crafts, Inc Third Edition.

Kuppuswanmi, B. (1954) Elementary Experiments in Psychology, Madras: Oxford University Press

Postman, Leo & Egan, James P. (1949) Experimental Psychology: an Introduction, N.Y: Harper & Row

Underwood, Bentron, J. (1963) : Experimental: An Introduction, Bombay, The Times of India press

Woodworth, Robert S. & Schollosberg, Harlod (1971); Experimental Psychology, Calcutta: Oxford & JBH Publishing Co.

- Garret, H.E (1951): Great Experiments in Psychology, New York: Appleton-Century Crafts, Inc Third Edition
- Kuppuswami, B. (1954) Elementary Experiments in Psychology, Madras: Oxford University Press
- Postman, Leo & Egan, James P. (1949) Experimental Psychology: An Introduction, N.Y: Harper & Row
- Underwood, Benton, J. (1963): Experimental: An Introduction, Bombay, The Times of India Press
- Woodworth, Robert S. & Schlosberg, Harold (1971); Experimental Psychology, Calcutta: Oxford & IBH Publishing Co.

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SYLLABUS

Subject : PSYCHOLOGY

Course (Paper) Name & No. : **Counselling Psychology / CCT-04**

(only for external students)

Course (Paper) Unique Code :

External Exam Time Duration :

Name of Course	Semester	Core/Elective/ Allied/Practical/ Project	Course/ Paper code	Course/ Paper time	Credit	Internal Marks	External Marks	Total Exam Marks	External Exam Time duration
M.A.	II	Core	CCT-04	Counselling Psychology	04	00	100	100	

Course Objective :

1. To acquaint students with the concepts and approaches to the counselling.
2. To familiarize students with the counselling process thoroughly.
3. To acquaint students with modern trends in counselling.

Unit-1 Counselling and Related Fields: Definition of counseling Psycho-therapy - Counselling and Psycho-therapy - Related fields advising-Guidance-Clinical Psychology - Counselling as Hygiology-Counselling as a helping relationship - Counselling as a solution to human problems.

Counselling - Expectations and Goals : Expectation of different - individuals - counselling goals - Achievement of positive mental health - Resolution of Problems — Decision making as a goal of Counselling - Modification of Behaviour as a goal.

Unit-2 Approach to counselling : The directive or authoritarian approach (Psycho-analytic) -Humanistic Approach Behaviouristic - Approach - The existential Point of view - The Minnesota Point of view and the elected Approach.

Counselling Process : Preparation for Counselling - Process of counselling - counselling relationship - counselling -content ad process - steps in the counselling process - variables affecting the counselling process - Portrait of an effective counselling and counselee factors.

Unit-3 Counselling in the Educational setting : Counselling the elementary school child - Counselling in High School & College - The role of teachers

in counselling - Educational Counselling and curriculum - Counselling & Home - Evaluation Programme of educational Counselling - Vocational Counselling - The Process of Vocational Counselling - Distinction between vocational Counselling and Guidance

Special Areas in Counselling : Family group consultation - Counselling with families Concern children as well as parents Counselling with delinquent -Marriage & Pre-marital Counselling - Counselling Women.

Unit-4 Professional preparation and Training for Counselling : Counselor preparation & professional issues - Academic preparation - practical skills - Ethical standards - Legal considerations - Selection & Training of Counselors - Conception of a professional worker - Preparation of Counselors and Important Issues.

Modern Trends in Counselling : Counselling Movement in India & modern time - present status of counseling & Psycho-therapy - Trends in Counselling - Role of Counselor - Career Guidance - The model of Counselling.

Reference Book :

- Bordin, E.S. (1985): Psychological Counselling, N.Y. : Appleton Century Crofts, Inc.
- Curkhuff, R.R. & Berenson, B.G. (1977): Beyond Counselling & Therapy, (2nd edi.), N.Y.: Holt, Rinehart & Winston.
- Fusser, J.M. (1964): Psychological Counselling in India, Bombay: MacMillan Publishing Co., Inc.
- Hansen J.C. (1978): Counselling Process and Procedures N.Y.: MacMillan Publishing Co., Inc.
- Narayanrao, S. (1989): Counselling Psychology, (3rd edi.), N.D. Tata McGraw Hill Book Co. Ltd.,
- Steffler, B. (Ed.) (1965): Theories of Counselling, New York: MacGraw Hill Book Company.
- Tyler, L.E. (1969): The work of a counselor (3rd edi.) N.Y. Appleton Century Crafts.
- Warters, J. (1964): Techniques of Counselling, (2nd edi.), N.Y.: MacGraw Hill Book Company.

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SYLLABUS

Subject : PSYCHOLOGY

Course (Paper) Name & No. : Statistics in Psychology / CCT-05

Course (Paper) Unique Code :

External Exam Time Duration :

Name of Course	Semester	Core/Elective/ Allied/Practical/ Project	Course/ Paper code	Course/ Paper time	Credit	Internal Marks	External Marks	Total Exam Marks	External Exam Time duration
M.A.	II	Core	CCT-05	Statistics in Psychology	04	30	70	100	

Course Objective :

1. Acquire the concepts, terms, and symbols used in data analysis.
2. Learn to formulate research ideas that can be evaluated with statistical analysis.
3. Learn to perform appropriate operations to draw conclusions from data.
4. Become skilled in interpreting and communicating quantitative information via numerical analysis and graphical display.

Unit-1 Introduction of Statistics - Short History - Meaning of Statistic - Characteristics of Statistics -Types of Statistics - Importance of Statistics - Important Function of Statistics - Application and Importance of Statistics in Social Science - Limitations of Statistics - Data or Score - Meaning of Score - Measurement in Psychology & Education - Meaning of Measurement - Uses of Measurement - Levels of Measurement or Scales - Statistical Series.

Measures of Central Tendency - Mean - Median - Mode - Geometric Mean - Harmonic Mean -Combined Mean Characteristics, Uses and Disadvantages of Mean - Characteristics, Uses and Disadvantages of Median - Characteristic, Uses and Disadvantages of Mode.

Unit-2 Relationship Between Hypothesis and Theory of Probability - What is Significant Difference ? Null Hypothesis - Correction for Continuity - Checking the Significance of Difference Between Mean of Two Groups - Testing the Significance of Difference Between Means of Two Large and Independent Groups - Testing the Significance of Difference Between Means of Two Small groups - Critical Ratio Test Vs. t-test - Testing Significance of Difference Between Two Correlated Means - Calculation of SED in Small and Correlated groups - Sendler's A - Test -Duncan's Range Test.

Correlation - Directions of Correlation - Kinds of Correlation - Correlation and Causal Relationship — What is Co-efficient of Correlation - Methods of the Calculation of Coefficient of Correlation - r by Scatter Diagram Method - How to Prepare a Scatter Diagram ? - Uses of Coefficient of Correlation - Reliability of Co-efficient of Correlation.

Unit-3 Derived Scores -Percentage - Z scores - T Scores - Stanine Scores - Sten Scores - C - Scores Regression and Prediction - Difference Between Regression and Correlation - Regression Lines - Regression Equation - Prediction - Standard Errors of Estimate - Accuracy of Group Prediction - Accuracy of Individual Prediction - Accuracy of Group Prediction - Coefficient of Alienation & Prediction - Efficiency of recasting.

Unit-4 Analysis of Variance - Relation Between Analysis of Variance and t-test - Utility of Analysis of Variance - Meaning of Analysis of Variance - Analysis of Variance Technique - Basic Ideas -Some Basic Assumptions in the Use of Analysis of Variance - Homogeneity of Variance -Analysis of Covariance.

Limitations of t-test and Non-parametric Methods - Nature of Parametric Statistics and Non Parametric Statistics - Non-parametric Methods - χ^2 or Chai-square test - Median Test - Sign Test - Sign Rank Test of Difference - The Composite Rank Method - Mann Whitney U Test.

Reference Book :

- Maindonald, J. & Braun, W. J. (2010). Data Analysis and Graphics Using R, 3rd Ed. Cambridge University Press. ISBN-10: 0521762936. ISBN-13: 978-0521762939.
- Garrett, H. E. (1973). Statistics in Psychology & Education - Longmans.
- Jogsan, Y. A., Dhara D. R. and Pandya M. M. (2014). Statistic in the Social Science, Vasuki Publication, Rajkot.

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SYLLABUS

Subject : PSYCHOLOGY

Course (Paper) Name & No. : **Advanced Social Psychology-II / CCT-06**

Course (Paper) Unique Code :

External Exam Time Duration :

Name of Course	Semester	Core/Elective/ Allied/Practical/ Project	Course/ Paper code	Course/ Paper time	Credit	Internal Marks	External Marks	Total Exam Marks	External Exam Time duration
M.A.	II	Elective	CCT-06	Advanced Social Psychology-II	04	30	70	100	

Course Objective :

1. To help students to develop an understanding about one's-self, how people think about, influence and relate to one another
2. To orient them to the dynamics of attraction, love and aggression, and application of the principles of social psychology in different fields.

Unit-1 Socialization and Social Interaction

- Introduction
- Meaning and definition of socialization
- Nature of socialization process
- Contribution of family towards socialization
- Contribution of culture towards socialization
- Meaning of social interaction
- Types of social interaction
- Tools of social interaction : (1) Suggestion, (2) Followership, (3) Sympathy (4) Social Accessibility

Unit-2 Prejudice

- Introduction
- Definition of prejudice
- Nature of (characteristics) prejudice
- Formation of prejudice
- Methods of reducing prejudice
- Components of prejudice

Unit-3 Psychological Group

- Introduction
- Definition of psychological group
- Characteristics of psychological groups
- Types of psychological group
 - (1) Direct groups and indirect groups
 - (2) Primary groups and Subsidiary groups
 - (3) Personal groups and Other groups
 - (4) Member groups and Reference groups
 - (5) Miscellaneous groups

Unit-4 Public Opinion and Propaganda

- Introduction
- Meaning of public opinion
- Formation of public opinion
- Change in public opinion
- Meaning of propaganda
- Propaganda necessary or unnecessary
- Techniques of propaganda

Reference Book :

- Baron, Robert A. and Byrne, D. (2001). Social Psychology (8th edition) Reprint, New Delhi: Prentice-Hall of India Pvt Ltd.
- Brehm, S.S. and Kassir, S.N. (1996). Social Psychology (3rd edition). USA: Houghton Mifflin Company.
- Crisp, R.J. and Turner, R.N. (2007). Essential Social Psychology. New Delhi: Sage Publications. Myers, D.G. (2002). Social Psychology (7th international edition). New York: McGraw-Hill Companies
- Dr. B.A. Parikh - Advanced Social Psychology
- Dr. I.D. Gujarati - Social Psychology.

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SYLLABUS

Subject : PSYCHOLOGY

Course (Paper) Name & No. : **Health Psychology-II / ECT-01**

Course (Paper) Unique Code :

External Exam Time Duration :

Name of Course	Semester	Core/Elective/ Allied/Practical/ Project	Course/ Paper code	Course/ Paper time	Credit	Internal Marks	External Marks	Total Exam Marks	External Exam Time duration
M.A.	II	Elective	ECT-01	Health Psychology-II	04	30	70	100	

Course Objective :

To acquaint students with

1. Health behavior, health habits
2. Health enhancing behavior
3. Advancing and terminal illness
4. AIDS and Cancer

Unit-1 Using Health Services : Recognition and Interpretation of Symptoms - Who Uses Health Services? - Misusing Health Services - The Patient in the Hospital Setting.

Patient-Provider Relations : What is Health Care Provider? - Nature of Patient-Provider Communication - Results of Poor Patient-Provider Communication - Improving Patient-Provider Communication and Reducing Non-adherence - Placebo as Healer.

Unit-2 Psychological Issues in Advancing and Terminal Illness : Death Across the Life Span - Psychological Issues in Advancing Illness - Are There Stages in Adjustment to Dying? - Psychological Management of the Terminally III - Alternatives to Hospital Care for the Terminally III.

Unit-3 Psychoneuroimmunology: The Immune System - Assessing immunocompetence - Stress and Immune Functioning.

AIDS : Risk Factors-Effects and Treatment of AIDS -The Psychosocial Impact of AIDS -Psychosocial Interventions for AIDS.

CANCER : The Prevalence and Types of Cancer- Causes of Cancer- Diagnosing and Treating Cancer - The Psychosocial Impact of Cancer.

Unit-4 Pain and Its Management : Significance of Pain - Clinical Issues in Pain Management- Pain Control Techniques.

Management of Chronic Pain : Pain Management Programs.

Management of Chronic Illness : Quality of Life- Emotional Responses to Chronic Illness - Coping with Chronic Illness - Rehabilitation and Chronic Illness - Psychological Interventions and Chronic Illness.

Reference Book :

- Edward P. Sarafino : Health Psychology, John Wiley & Sons. Inc.
- Linda Brannon and Jess Feist. (2007) Introduction to Health Psychology, Thomson: Indian Edition
- Shelley E. Taylor: Health Psychology. Tata McGraw Hill. Seventh Edition.

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SYLLABUS

Subject : PSYCHOLOGY

Course (Paper) Name & No. : Cognitive Psychology-II / ECT-03

Course (Paper) Unique Code :

External Exam Time Duration :

Name of Course	Semester	Core/Elective/ Allied/Practical/ Project	Course/ Paper code	Course/ Paper time	Credit	Internal Marks	External Marks	Total Exam Marks	External Exam Time duration
M.A.	II	Elective	ECT-03	Cognitive Psychology-II	04	30	70	100	

Course Objective :

1. To provide students with a general overview of research on human cognitive abilities
2. To expose students to recent findings and ideas concerning the neural bases of cognitive functions, particularly to those provided by neuropsychology and functional neuroimaging research.
3. To train students in reading original articles in experimental cognitive psychology.

Unit-1 Meaning of Memory and Its Components or Stages - Types of Memory - Sensory Memory -Types of Sensory Memory - A Comparative Study of Iconic Memory and Echoic Memory -Short Term Memory or STM - Long Term Memory or LTM - Major Types of Long Term Memory: Episodic Memory and Semantic Memory - Motivation and Long Term Memory - A Comparative Study of LTM and STM: Differences - Methods of Measuring Memory - Nature of Remembering.

Nature of Forgetting - Forgetting Curve or Ebbinghaus Curve - Determinant's or Causes of Forgetting - Theories of Forgetting - Decay Theory or Disuse Theory - Perseveration -Consolidation Theory - Interference Theory - Two Factor Theory- Autobiographical Memory Retrospective Memory and Prospective Memory - Measure of Improving Memory or Memory Training.

Unit-2 Definition and Nature of Intelligence - Types of Intelligence - Mental Age - Intelligence Quotient - Measurement of Intelligence -Binet Test- Evaluation of Intelligence Scales - Raven's Progressive Matrices - Goddough Draw - a - Man Test - Peabody Picture Vocabulary Test or PPVT - Cattell's Culture - Free Intelligence Test - The Kaufman Assessment Battery for

Children or K - ABC - Some Important Indian Intelligence Tests - Uses of Intelligence Tests - Types of Intelligence Tests.

Theories of Intelligence - Spearman's Two Factor Theory - Thurston's Group p Factor Theory - Multi Factor Theory - Hierarchical Theory - Cattell's Theory - Gardner's Theory of Multiple Intelligence - Piaget's Theory - Sternberg's Triarchic Theory - General Conclusions Regarding Theories of Intelligence.

Unit-3 Definition and Nature of Thinking - Types of Thinking - Thinking and Imagination - Role of Language in Thinking - Role of Set in Thinking - Role of Trial and Error In Thinking - Role of Images in Thinking - Theories of Thinking - Theories of Cognitive Development - Piaget's Theory of Cognitive Development - Bruner's Theory of Cognitive Development - Information Processing Theories of Cognitive Development - Meaning and Nature of Problem Solving - Methods or Strategies of Solving the Problem - Factors Influencing Problem Solving - Steps or Problem Solving - Sex Differences in Problem Solving Ability - Individual Differences in Cognitive Style; Nature and Importance of Concept - Types of Concept - Factors Influencing Concept Formation - Methods or Procedure of Concept Learning.

Unit-4 Definition and Nature of Creativity - Stages of Creative Thinking - Characteristics of Creative Thinker - Measurement of Creativity - Aspects of Creativity - Encouraging or Fostering Creativity - Artificial Intelligence. Meaning and Nature of Reasoning - Decision Process and Judgement - Difference Between Reasoning and Decision Making - Difference Between Decision Making and Judgment - Major Heuristics in Decision Making Bases and Errors in Decision Making - Framing and Decision Making - Some Guidelines for Taking Better Decision.

Reference Book :

- Antonio R. Damasio (1994). Reprinted (2005). Descartes' Error: Emotion, Reason and the Human Brain, Penguin Book. ISBN: 014303622X.
- Banich, Marie T. (2004). Cognitive Neuroscience and Neuropsychology. Houghton Mifflin Company. ISBN: 06 18 122109.
- Jogsan, Y.A. & Jayesh N. Bhalala (2014). Cognitive Psychology, Akshar Publication, Ahmedabad.
- Solso, MacLin & MacLin (2005). Cognitive Psychology (7th ed.). Allyn & Bacon.

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SYLLABUS

Subject : PSYCHOLOGY

Course (Paper) Name & No. : **Psychology of Emotion-II / ECT-04**

Course (Paper) Unique Code :

External Exam Time Duration :

Name of Course	Semester	Core/Elective/ Allied/Practical/ Project	Course/ Paper code	Course/ Paper time	Credit	Internal Marks	External Marks	Total Exam Marks	External Exam Time duration
M.A.	II	Elective	ECT-04	Psychology of Emotion-II	04	30	70	100	

Course Objective :

1. To acquaint students with various theories of emotions
2. To provide an understanding of linkage between culture and various aspects of emotions.
3. To help students gain insight into emotional behavior of self and others.

Unit-1 Theories of Emotion: James - Lange Theory, Cannon - Bard Theory, Schachter's Two - Factor Theory, Cognitive Appraisal Theory of Lazarus, Facial Feedback Hypothesis, Lindsley's Activation Theory, Papez-McLean Theory, Major Arguments of Evolutionary Theories, Robert Plutchik's Psycho-Evolutionary Theory.

Unit-2 Non-Verbal Communication and Emotion : Meaning of Non-Verbal Communication, Types of Non-Verbal Communication - Paralanguage, Proxemics, Body Language- Gestures, Postures, Gazes, Stares, Startle Pattern, Facial Expressions; Culture and Emotional Expression - Definition and Nature of Culture, Cultural Differences in Emotion and Cultural Similarities in Emotion.

Unit-3 Emotional Disorders: Stress and Emotion Disorders - Meaning of Stress, Sources of Stress, Effects of Stress, Emotional Responses to Stress; Anxiety Disorders - Generalized Anxiety Disorder, Panic Disorder, Phobia, Obsessive - Compulsive Disorder; Mood Disorders -Depressive Disorder; Bipolar Disorders, Theories of Depression.

Unit-4 Managing Emotion: What is Emotion Management? Managing Anger and Hostility, Managing Anxiety and Fear, Managing Depression; Managing

Emotion by Developing Emotional Intelligence -Models of Emotional Intelligence - The Mayer Salovey Model, Goleman Model, Bar-On Model; Intelligence at Work; Assessment of Emotional Intelligence - Ability Measures, Self-Report Measures and Observer Rating Scales; Developing Emotional Intelligence.

Reference Book :

- Bar-On, R. & Parker, J.D.A. (2000). Handbook of Emotional Intelligence, San Francisco : Jossey-Bass.
- Cooper, R. (1996). Executive EQ: Emotional Intelligence in Leadership and Organizations. NY: Berkley Publishing Group.
- Ekman, P., Friesen, W.V. & Ellsworth, P. (1972). Emotion in the Human Face. Pergamnon, New York: Oxford
- Goleman, D. (1995). Emotional Intelligence: Why It Can Matter More than IQ. New York : Bantom Books.
- Goleman, D. (1998). Working with Emotional Intelligence. New York : Bantom Books.
- Gross, J. J. (2009). Handbook of Emotion Regulation. New York: Guilford Press.
- Patel, M. K. (2008). Psychology of Emotion. Rajkot: Saurashtra University Press
- Salovey, P. & Sluyter, D. (1997). Emotional Development and Emotional Intelligence: Implications for Educators. New York: Basic Books.
- Scherer, K.R. & Ekman, P. (1984). Approaches to Emotion. New Jersey: Lawrence Erlbaum Associates.
- Strongman, K.T. (2000). The Psychology of Emotion : Theories of Emotion in Perspective (4th Eds.). New York: John Wiley & Sons.

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SYLLABUS

Subject : PSYCHOLOGY

Course (Paper) Name & No. : **Advanced Psychological Psychology-II / ECT-04**

Course (Paper) Unique Code : *Physiological*

External Exam Time Duration :

Name of Course	Semester	Core/Elective/ Allied/Practical/ Project	Course/ Paper code	Course/ Paper time	Credit	Internal Marks	External Marks	Total Exam Marks	External Exam Time duration
M.A.	II	Elective	ECT-04	Advanced Physiological Psychology-II	04	30	70	100	

Course Objective :

At the end of course students will be able to:

1. Understand the physiology of cognitive functions
2. Understand the physiology of motivation
3. Understand the physiology of arousal and sleep

Unit-1 Bio Psychology of Arousal: Physiological Correlates of Arousal, EEG as the Measure of Arousal, Factors Affecting Consciousness; Sleep- Rhythms of Sleeping and Waking, Physiological Conception of Wake and Sleep, Conception of Sleep, Temporal Patterns of Slow Wave sleep and REM Sleep, REM Sleep and Dreaming, Neural Mechanism and Biochemistry of Slow Wave sleep and REM Sleep, The Functions of Sleep and REM, Disorders of Arousal and Sleep, Narcolepsy, Insomnia, Other Disorders of Sleep such as Somnambulism, Night-Terrors and Sleep apnea; Circadian Rhythms and Clocks-Neural Control Over Circadian Rhythms.

Unit-2 Chemical Sense and the Mechanism of Eating and Drinking: The Chemical Sense of Taste and Smell; Hunger and Eating- Peripheral Factors in Eating, Hypothalamic factors in Eating-The Ventral Medial Hypothalamus, Lesion Syndrome-Theories of Why the VMH Syndrome Occurs, The Biochemistry of Hypothalamus Stimulation; The Problem of Human Obesity- Current Factors on the Condition of Obesity- Set Point Conception of Human Obesity. Mechanism of Drinking- Peripheral Factors in Water Regulation- Central Factors in Water Regulation-Cellular Dehydration Thirst-Hypovolemic Thirst.

Unit-3 Learning: Physiological Changes during Learning- Environmental Complexity and the Brain-Electrophysiological Changes During Learning Process; The Anatomical Requirement for Learning -Complex learning and the Neocortex- Complex Visual Processing and the Inferotemporal Cortex - Information Processing and the Prefrontal Cortex- The role of the Cerebellum in Classical Conditioning , Learning to Change Physiological Process in the Body-Biofeedback Training of Autonomic Response- Biofeedback Training of EMG and EEG Signals.

Unit-4 Mechanism for Remembering: Concept of Short Term and Long Term Memory, The Anatomy of Human Memory; Studies of Memory and Amnesia in Animals -Testing the Consolidation Hypothesis -Alternatives of 'Classical Consolidation Theory ; Physiological Mechanism of Memory in the Brain- Long Term Potential- Protein Synthesis- Effects of Protein Enzymes- The Chronological Hypothesis; Triggers for Memory Retrieval- The Optional -Hologram Hypothesis - The Phenomenon of State-Dependent Learning Amnesia, Dementia and Alzheimer's Disease.

Reference Book :

- Levinthal, C.F. (2005). Introduction to Physiological Psychology. New Delhi: Prentice Hall of India pvt.
- Carlson, N.R. (2000). Physiology of Behavior. Boston Allyn & Bacon.
- Pinel, J.P.J. (2000) Bio Psychology. Boston Allyn & Bacon.
- Kalat, J.W. (2004). Biological Psychology (8th Edition) Belmont: Wadsworth Thompson Learning.
- Kandel, E.R, Schwartz, J.H. & Jassel, T.M. (2000). Principles of Neural Science (4th Ed). New York : McGraw hill
- Goldstein, E.B. (2013). Sensation and Perception. Belmont: Wadsworth/ Thompson Learning.
- Kolb, B. & Whishaw, I.Q.C. (2012) An Introduction to Brain and Behavior (4th ed). New York Worth Publishers.