



Progressive Education Society's  
**Modern College of Arts, Science and Commerce**  
**(Autonomous)**  
**Ganeshkhind, Pune 411016**  
[www.moderncollegegk.org](http://www.moderncollegegk.org)

Syllabus for MA PART I Psychology under NEP

## M.A. – I: PSYCHOLOGY

Se m	Mandatory	Electives	RM	OJT/FP
I	1. Cognitive Psychology Basic 2. Introduction to Psychometrics 3. Practical Testing	Personality Assessment	Mixed Methods in Research	
II	1. Cognitive Psychology Advanced 2. In depth Study of Psychometrics 3. Practical Experiments	Bio Neuro Psychology		OJT- In mental health research

## SEMESTER-I

### EP-101: COGNITIVE PSYCHOLOGY: UNDERSTANDING

#### Objectives and learning outcomes:

Understand the origin of cognitive psychology

Explore the knowledge of cognitive psychology

Make students aware with the recent trends in cognitive psychology Help students in relating subject matter of cognitive psychology to daily life

#### Unit-1: Introduction to Cognitive Psychology

##### 1.1. Definition, Nature and Scope of Cognitive Psychology

##### 1.2. History of Cognitive Psychology

##### 1.3. Methods to study cognitive Psychology-I

Observation

Introspection

Experimental

##### 1.4. Methods to study cognitive Psychology-II

Quasi-Experimental

Neuropsychological

#### Unit-2: Exploring Cognitive Psychology

##### 2.1. Definition, Nature and Theories:

(i) **Sensation:** Empiricism, Natural Science, Structuralism, Gestalt, Psychophysical approach, Theories of Color Vision, Theories of Pitch, Extra Sensory Perception

(ii) **Perception:** Bottom Up theories of Perception , Top down perception theories, Computational theories

##### 2.2. Definition, Nature and Theories:

(i) **Attention:** Bottleneck theory, Automatic versus controlled processing, Feature integration theory, Stroop Effect, Signal Detection, Vigilance

(ii) **Pattern Recognition:** Template matching theory, Prototype models, Distinctive-features models and Computational approach

**2.3. Definition, Nature and Theories: Thinking: Associationism, Gestalt, Information Processing**

**2.4. Problem Solving: Problem Space theory, Means-End Hypothesis, Analogy Approach**

### **Unit-3: Exploring Cognitive Psychology**

**3.1. Definition, Nature and Theories :**

(i) **Learning:** Hull's Systematic Behaviour Theory, Lewin's Field Theory of Learning, Tolman's Sign Learning, Gagne's Theory of Learning, Bandura's Social Learning Theory

(ii) **Memory Model :** Unitary, Dual, Multimodal

**3.2. Definition, Nature and Theories: (i) Artificial Intelligence, (ii) Language**

**3.3. Definition, Nature and Theories :** (i) Decision Making and Reasoning (ii) Creativity

**3.4. Memory Improvement Techniques, Cognitive Maps**

### **Unit-4: Recent Trends in Cognitive Psychology**

**4.1. Recent Trends in :** (i) Sensation, (ii) Perception, (iii) Attention

**4.2. Recent Trends in:** (iv) Creativity, (v) Thinking, (vi) Problem Solving

**4.3. Recent Trends in:** (i) Learning, (ii) Memory, (iii) Pattern Recognition

**4.4. Recent Trends in:** (i) Language, (ii) Artificial Intelligence, (iii) Decision Making

### **READINGS:**

1. Anderson, J. R. (2015). *Cognitive psychology and its implications*. New York: Worth Publishers
2. Best, J. B. (1999). *Cognitive Psychology*. USA: Wadsworth Publishing Co.
3. Borude, R.R. *Bodhanikmanasashastra*. Chhaya Prakashani.
4. Galloti, K. M. (2004). *Cognitive psychology in and out of the laboratory*. USA: Thomson Wadsworth.
5. Horton, D. L. and Turnage, T. W. (1976). *Human learning*. ND: Prentice-Hall 6.
- Kellogg, R. T. (2007). *Fundamentals of Cognitive Psychology*. N.D. Sage Publications
7. Matlin, M. (1994). *Cognition*. Bangalore: Harcourt Brace Pub.
8. Singh, Shyam & Singh (2008) *Psychoneuroimmunology*, Global Vision, New

Delhi 9. Sternberg, R. J. (2007). *Cognitive Psychology*. Australia: Thomson Wadsworth. 10. Solso, R. L. (2004). *Cognitive Psychology (6th ed.)*. Delhi: Pearson Education.

## **SEMESTER-I**

### **EP-102: PSYCHOMETRICS: THE SCIENCE OF PSYCHOLOGICAL ASSESSMENT**

#### **Objectives and learning outcomes:**

- Create critical understanding of measurement issues and techniques in psychological inquiry.
- Enable students to develop skills and competencies in test construction and standardization.
- Understand the various biases in psychological testing and assessment.

#### **Unit-1. Perspectives on psychometrics**

- 1.1. Scientific method, realism, truth and psychology
- 1.2. Scientific measurement in psychometrics and measurement in the natural sciences
- 1.3. Measurement models: Classical test theory, Latent variable model, Representational measurement model
- 1.4. The theory of true scores, the statistical true score, the platonic true score, Psychological vs. Physical true score, the true psychometric: trait or function

#### **Unit-2. Process of test construction:**

- 2.1. Knowledge-based and person-based questionnaire
  - 2.1. Objective and open-ended tests, Ethical issues in psychological testing
    - 2.1.1. Norm-referenced and criterion-referenced testing
    - 2.1.2. The correction for guessing in objective knowledge based test
  - 2.2. Item analysis
    - 2.2.1. Classical item analysis statistics for knowledge-based tests
    - 2.2.2. Classical item analysis for person-based tests
    - 2.2.3. Item analysis in criterion-referenced testing, Factor Analysis
- 2.3. Item response theory (IRT), Item characteristic curve (ICC)
- 2.4. Relation of IRT and Classical test theory

### **Unit-3. Standardization of tests**

- 3.1. Reliability: Concept and types of reliability, forms of error; Spearman-Brown correction, cautions in the use of reliability coefficient
- 3.2. Validity: Concepts and types of validity; Political validity; Confusion between validation and validity.
- 3.3. Normalization: Algebraic normalization, graphical normalization
- 3.4. Types of norms

### **Unit- 4. Bias in testing and computer applications**

- 4.1. Forms of bias
  - 4.1.1. Item bias: Identifying item bias
  - 4.1.2. Differential item functioning, item offensiveness
- 4.2. Intrinsic test bias: Statistical models of intrinsic test bias
- 4.3. Extrinsic test bias: Extrinsic test bias and ideology; legal aspects of extrinsic test bias; guidelines in case of test bias
- 4.4. Computerization in psychological Testing, Artificial intelligence and psychological testing

### **READINGS:**

- Borsboom, D. (2005). *Measuring the mind: Conceptual issues in contemporary psychometrics*. UK: Cambridge University Press.
- Chadha, N. K. (2009). *Applied psychometry*. New Delhi, India: Sage.
- Kline, P. (1998). *The new psychometrics: Sciences, psychology and measurement*. London & New York: Routledge.
- Michell, J. (1990). *An Introduction to the logic of psychological measurement*. Hillsdale, MI: Erlbaum.
- Rust, J., & Golombok, S. (2009). *Modern psychometrics: The science of psychological assessment*. London and New York: Routledge.

### **SEMESTER-I**

### **EP-103: RESEARCH METHODOLOGY: Learning Mixed Methods**

## **1. Introduction to research and Statistics**

1.1. Paradigms of research : Quantitative, Qualitative and Mixed

1.2 Nature of Data, Central Tendency and Variance

1.3 Testing Normality

1.4 Parametric and Non Parametric Statistics

## **2. Sampling and Experimental Design**

2.1. Research problem, Sampling and its types

2.2. Types of hypotheses and hypothesis testing

2.3. Experimental Design and its types

2.4 Randomized Control Trials (RCT), Introduction to Multivariate

## **3. Introduction to Qualitative Research Tradition and its Scope**

3.1 Basic assumptions, principles and premises of qualitative research, Brief history of qualitative research.

3.2 The critical understanding of experience within socio-historical context.

3.3 Formulating research questions and developing a semi-structured interview schedule.

3.4 Building research relationships, Researcher's reflexivity, empathy and experiential and theoretical standpoint.

## **4. Methods and Qualitative Data Analysis**

4.1 Introduction to some important methods: narrative inquiry, phenomenological inquiry and Ethnography, grounded theory.

4.2 Identifying and developing narrative structure.

4.3. Coding and memo writing. Theoretical saturation and theoretical sampling.

4.4. Mixed Methods and Research Rigour

### **READINGS:**

Aron, Arthur; Aron, Elaine N.; Coups, Elliot J. (2006). *Statistics for Psychology* (4<sup>th</sup>Edn.). Dorling Kindersley (India) Pvt. Ltd. With Pearson Education Limited.

Bridget, S., & Cathy, L. (Eds.) (2008). *Research methods in the social sciences*. New

Delhi, India: Vistaar Publication.

Broota, K. D. (1989, reprint 2014). *Experimental design in Behavioural Research*. New Age International Pvt. Ltd., New Delhi.

Chadha, N. K. (2009). *Applied psychometry*. New Delhi, India: Sage.

Garrett, Henry E. (2006). *Statistics in Psychology and Education* (1<sup>st</sup> Indian reprint). Surjeet Publications, Delhi-7.

Gliner, J. A., & Morgan, G. A. (2000). *Research methods in applied settings: An integrated approach to design and analysis*. Mahwah, NJ: Lawrence Erlbaum.

Howell, D. C. (2002). *Statistical methods for psychology* (5th ed.). Duxbury, California: Thomson Learning.

Kerlinger, Fred N. (2009). *Foundation of behavioral research* (9<sup>th</sup> reprint). Holt, Rinehart and Winston, Inc. USA. (Surjeet Publications, New Delhi).

Kothari, C. R. (2011). *Research Methodology: Methods and Techniques* (2<sup>nd</sup> revised edition). New Age International Publishers, New Delhi

Mangal, S. K. (2009). *Statistics in Psychology and Education* (2<sup>nd</sup> Edition- 10<sup>th</sup> printing). PHI learning Pvt. Ltd., New Delhi.

McBurney, Donald H.; White, Theresa L. (2007). *Research Methods* (7<sup>th</sup> Edition). Thomson.

Pallant Julie (2010). *SPSS Survival Manual: A step by step guide to data analysis using SPSS* (4<sup>th</sup> Ed.). McGraw-Hill.

Ranjit Kumar (2015). *Research Methodology: A Step by step guide for beginners*. Pearson.

Singh, A. K. (2006). *Tests, Measurements and Research Methods in Behavioural Sciences* (5<sup>th</sup> Edition). Bharati Bhawan: Publishers and Distributors.

Tabachnick, Barbara G.; Fidell, Linda S. (2007). *Using Multivariate Statistics* (5<sup>th</sup> Edn.). Pearson.

Tredoux Colin and Durrheim Kevin (2002). *Numbers, Hypotheses & Conclusions: A Course*



*in Statistics for the Social Sciences*. UCT Press, Lansdowne.SA.

Zechmeister, Jeanne S.; Zechmeister, Eugene B.; Shaughnessy, John J. (2009).*Essentials of Research Methods in Psychology*. Tata McGraw-Hill.

## **SEMESTER-I**

### **EP-104: PSYCHOLOGY PRACTICAL: TESTING**

**Objectives:** To acquaint the students with:

1. The administration of the standardized psychological tests, rapport establishment, interpretation of scores and report writing.
2. The criteria's of evaluating psychological tests
3. Certain counseling skills on the basis of psychological results

### **UNIT-1: GENERAL AND SPECIAL ABILITY TESTS (any three)**

1. Standard Progressive Matrices, Cattell's Culture Fair Test of Intelligence
2. WAIS-IV (India), GATB, GMAT
3. DAT, DBDA, EATB
4. Passi Creativity test
5. Reasoning Ability Test, Cognitive Ability Test

### **UNIT-2: PERSONALITY TESTS (Any two)**

1. NEO-PI-R, 16 PF, MBTI (Form F)
2. Vocational Preference Inventory by J. I Holland
3. Palsane's Adjustment Inventory
4. Thematic Apperception Test (TAT)
5. Attitude and Value Scale

### **UNIT-III: CLINICAL TESTS (Any one)**

1. MMPI
2. Neuropsychological Assessment Battery (NAB)
3. Adult Neuropsychological Questionnaire
4. State-Trait Anger Expression Inventory-2 (STAXI-2)
5. Depression Scale

### **UNIT-IV: OTHER TESTS (ANY Two)**

1. FIRO-B/ BIRO-P
2. Assessment of Subjective Well Being

3. Career and Family Value Scale
4. Family Environment Scale
5. Self-Concept

**READINGS:**

1. Anastasi, A. & Urbina, S. (1997). Psychological testing. N.D.: Pearson Education.
2. Kaplan, R.M. & Saccuzzo, D.P. (2007). Psychological Testing: Principles, Applications, and Issues. Australia: Thomson Wadsworth.
3. Gregory, R.J. (2005). Psychological testing: History, principles and applications. New Delhi: Pearson Education.
4. Singh, A.K. (2006). Tests, Measurements and Research Methods in Behavioural Sciences. Patna: Bharati Bhavan.
5. Freeman, F.S. 3rd ed. (1965). Psychological testing. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd.
6. Cronbach L. J. (1984). Essentials of Psychological Testing (4th Ed)
7. Anastasi A. (1988). Psychological Testing. New York: McMillan
8. Murphy, K. R., Davidshofer, R. K. (1988): Psychological testing: Principles and applications. New Jersey: Prentice Hall Inc.
9. Nunnally, J.C. and Bernstein, I.H. (1994). Psychometric theory (3rd ed). NY: McGraw-Hill. 10. Aiken L.R. (1996) Rating Scales and Checklists: Evaluating Behavior, Personality and Attitudes.
11. Buros, O. (ed). (1965, 1972). The mental measurement. Yearbook, NJ: Gryphon Press.
12. Ghiselli, E. E., Campbell, J. P. & Zedek, S. (1981). Measurement theory for the behavioural sciences. W.H. Freeman.
13. Chadha, N. K. (1996). Theory and practice of psychometry. N. D.: New Age International Ltd.
14. Stanley, J.C. and Hopkins, K.D. (1978). Educational and psychological measurement and evaluation. ND: Prentice-Hall of India.
15. Guilford, J.P. (1975). Psychometric methods. ND: Tata McGraw-Hill. 16. Test manuals of respective tests.

**ELECTIVE: PERSONALITY ASSESSMENT**

**Chapter 1 Behavioural Assessment**

**1.1 Stress Interviews and their Analysis**

- 1.2 Competency Tools and Analysis
- 1.3 Understanding Simulation Techniques
- 1.4 Advantages and Disadvantages

## Chapter 2 Personality Assessment for Team Building

- 2.1 Understanding Team Personality Tests
- 2.2 Enneagram and DiSC, MBTI, and their Analysis
- 2.3 Career Values Assessment
- 2.4 Importance in Onboarding at Workplaces

## Chapter 3 Examining Self Awareness

- 3.1 Emotional Intelligence and Emotional Quotient Testing
- 3.2 NLP and Self Awareness Tools
- 3.3 Writing Personal Journals and its Analysis.
- 3.4 Writing Life Stories and its Analysis

## Chapter 4 Personality Assessment for Goal Setting

- 4.1 Setting SMART Goals
- 4.2 Anticipating and Overcoming Obstacles
- 4.3 Skill Assessment through SWOC
- 4.4 Time Management and Financial Management

# SEMESTER II

**SEMESTER-II- EP-201: COGNITIVE PSYCHOLOGY: ADVANCES AND APPLICATION**

**Unit-1: Advance in Cognitive Psychology- I**

Department of Psychology,  
Modern College of Arts, Science and Commerce, Autonomous,  
Ganeshkind, Pune

- 1.1. Definition and Nature: Consciousness
- 1.1. Definition and Nature: Critical Thinking, Metacognition
- 1.2. Definition and Nature: Neuropsychology
- 1.3. Conceptual Understanding:
- 1.4. Application : Brain Assessment Tools : CT Scan, MRI, fMRI, PET Scan

### **Unit-2: Advances in Cognitive Psychology-II**

- 2.1. Neuro Linguistic Programming
- 2.2. Gender Differences and Cognitive Abilities
- 2.3. IQ, EQ and Creative Thinking, Critical Thinking
- 2.4. Reading, Writing, Speaking and Cognitive Phenomenon

### **Unit-3: Applications of Cognitive Psychology- I**

- 3.1. Application in Clinical Psychology : Brain and Behaviour Problems; Psychotherapies
- 3.2. Application in Clinical Psychology: Application in Education Psychology: (i) Child development (ii) Learning styles
- 3.3. Application in Education Psychology: (i) Forgetting (ii) Moral development
- 3.4. Application: Cognitive Stages of Development and Teaching methods/techniques

### **Unit-4: Applications of Cognitive Psychology- II**

- 4.1. Application in Forensic Psychology : (i) Cognitive interview (ii) Lie Detector
- 4.2. Application in Forensic Psychology: (iii) Eyewitness testimony (iv) Face Recognition, Identity Kit
- 4.3. Application in Computer Science: Neural Networking
- 4.4. Application in Computer Science : Information processing, Signal Detection Theory

### **READINGS:**

- 1. Anderson, J. R. (2015). Cognitive psychology and its implications. New York: Worth Publishers

2. Best, J. B. (1999). *Cognitive Psychology*. USA: Wadsworth Publishing Co.
3. Borude, R.R. *Bodhanikmanasashastra*. Chhaya Prakashani.
4. Galloti, K. M. (2004). *Cognitive psychology in and out of the laboratory*. USA: Thomson Wadsworth.
5. Horton, D. L. and Turnage, T. W. (1976). *Human learning*. ND: Prentice-Hall 6.
- Kellogg, R. T. (2007). *Fundamentals of Cognitive Psychology*. N.D. Sage Publications
7. Matlin, M. (1994). *Cognition*. Bangalore: Harcourt Brace Pub.
8. Singh, Shyam & Singh (2008) *Psychoneuroimmunology*, Global Vision, New Delhi
9. Sternberg, R. J. (2007). *Cognitive Psychology*. Australia: Thomson Wadsworth.
10. Solso, R. L. (2004). *Cognitive Psychology (6th ed.)*. Delhi: Pearson Education.

## **SEMESTER-II**

### **EP-202: PSYCHOMETRICS: APPLICATIONS**

#### **Objectives:**

- Understand how psychological tests are used for the purpose of assessment, guidance and enhancing the effectiveness of teaching-learning process.
- Understand the use and interpretation of various psychological tests used in the educational field.
- Understanding the use of psychological tests are used for better health, adjustment and related Counseling.
- Understand the use of psychological tests in clinical and organizational settings

#### **Unit-1: Applications of Psychological Testing in Educational Setting**

- 1.1. Tests of ability: General Aptitude Test Battery (GATB), Fairview Social Skills Scale (FSSS), Torrance test of creative thinking (TTCT), Differential Ability Test (DAT)
- 1.2. Tests of Intelligence: Standard Progressive Matrices (SPM), Wechsler Intelligence Scale for Children (WISC), Social Intelligence Scale (SIS)
- 1.3. Interest Inventory: Strong-Campbell Interest Inventory (SCII), Career Interest Inventory
- 1.4. Creativity Tests: Passi Test of Creativity, Verbal Test of Scientific Creativity

#### **Unit-2: Applications of Psychological Testing in Counseling and Guidance**

- 2.1. Child-Rearing Practices: Child-rearing Practices Questionnaire,
- 2.2. Self-concept Scales: Tennessee Self-Concept Scale, Self-Concept Inventory
- 2.3. Adjustment Tests: College adjustment and study skills inventory, Family Environment Scale (FES)
- 2.4. Attitude Tests: Brief Criminal Attitude Scale (BCATS), ???

### **Unit-3: Applications of Psychological Testing in Clinical Setting**

- 3.1. Tests of Personality-I: Sixteen Personality Factor (16 PF) Questionnaire, Thorndike Dimensions of Temperament, Myers-Briggs Type Indicator (MBTI)
- 3.2. Tests of Personality-II: Structured Clinical Interview, Choice Dilemmas Questionnaire (CDQ), Kundu's Neurotic Personality Inventory (KNPI)
- 3.3. Rosenzweig Picture-Frustration study for children, State-Trait Anger Test, AnxietyScale, TAT
- 3.4. Minnesota Multiphasic Personality Inventory (**MMPI**), Rorschach and Rotter Incomplete Sentence **Test**

### **Unit-4: Applications of Psychological Testing in Organizational Setting**

- 4.1. On the Job: Minnesota Satisfaction Questionnaire, Overall Job Satisfaction Scale, Organizational Commitment Scale, Organizational Effectiveness Scale
- 4.2. Motivation: Intrinsic Job Motivation Scale, Motivation Scale
- 4.3. Leadership Opinion Questionnaire, Workers Attitude Scale, BIRO-P / FIRO-B
- 4.4. Occupational StressIndex, Interpersonal Trust Scale HRD Function Questionnaire/ EQ Test

### **READINGS:**

- Aiken L.R. (1996) Rating Scales and Checklists: Evaluating Behavior, Personality and Attitudes
- Anastasi, A. & Urbina, S. (1997). Psychological testing. N.D.: Pearson Education.
- Chadha, N. K. (1996). Theory and practice of psychometry. N. D.: New Age International Ltd.
- Cronbach, L. J. 5th ed. (1990). Essentials of psychological testing. New York: HarperCollins Publishers
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Nunnally, J.C. (1981). Psychometric theory. ND: Tata McGraw-Hill.

## **SEMESTER-II**

### **EP-204: PSYCHOLOGY PRACTICAL: EXPERIMENTS**

#### **Objectives:**

To acquaint the students with:

1. The various areas of experimentation in psychology
2. Skills required in conducting experiments in psychology
3. Applications of experimental design and report writing style

#### **UNIT:1 EXPERIMENTS ON LEARNING (ANY THREE)**

1. Problem solving ( Hanoi's Tower, Heart & Bow Puzzle, Wiggly Blocks)
2. Method of serial anticipation
3. Conditioning: Verbal or hand withdrawal
4. Retroactive or proactive interference
5. Paired Associate learning
6. Bilateral transfer in Mirror Tracing/maze learning

#### **UNIT-2: EXPERIEMENTS ON MEMORY (ANY TWO)**

1. Forgetting
2. Short term Memory
3. Effect of Mnemonic strategy on memory
4. The effect of coding on memory
5. Immediate memory
6. Memory for Associated and Un-associated pairs of words
7. Recall and Recognition

#### **UNIT-3: EXPERIMENTS ON MOTIVATION AND EMOTION (ANY Two)**

1. Determining aspiration level
2. Knowledge of Result (KoR)
3. Zeigarnik Effect
4. Goal Setting
5. Effect of anxiety on performance



## **UNIT-5: EXPERIMENTS ON COGNITIVE PROCESS (ANY One)**

1. Perceptual Defense
2. Concept formation
3. Mental imagery
4. Rational Learning
5. Stroop effect in serial learning
6. Time perception
7. Measurement of illusion

### **READINGS:**

1. Rajamanickam, M. (2005). Experimental Psychology: with Advanced Experiments, Volume 1 & 2. New Delhi: Concept Publishing Company.
2. Mohsin, S. M. (1975). Experiments in psychology. Orient Longman.
3. Mohanthy. Experiments in psychology.
4. Parameshwaran, E. G. & Rao, B. T. (1968). Manual of experimental psychology. Bombay: Lalvani Publishing House.
5. Tinker, M.A. & Russell, W.A. Introduction to methods in experimental psychology. Appleton – Century Crofts.
6. Jalota, S. (1962). Experiments in psychology. Asia Publishing House.
7. Galloti, K. M. (2004). Cognitive psychology in and out of the laboratory. USA: Thomson Wadsworth.
8. Sternberg, R.J. (1996). Cognitive psychology. NY: Harcourt Brace College Publishers.
9. Guenther, R.K. (1998). Human cognition. NJ: Prentice-Hall.
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11. Berkowitz, L. (1974). Advanced experimental social psychology. Academic Press.
12. Debold, R.C. (1968). Manual of contemporary experiments in psychology. Prentice-Hall.
13. Fergusson, E. D. (1976). Motivation: An experimental approach. Holt Rinehart & Winston.
14. Friedenberg, J., Silverman, G. (2006). Cognitive science: An introduction to the study of mind. London: Sage Publications.
15. Collins, M. & Drever, J. (1930). Experimental Psychology. London: Methuen & Co. Ltd.
16. Snodgrass J. G., Levy-Berger, Hyden (1985). Human Experimental Psychology. New York: Oxford University Press.
17. Kuppaswamy, B. (1952). Elementary Experiments in Psychology. London: Oxford University Press.

## **ELECTIVE: BIOPSYCHOLOGY**

### **Chapter 1 Brain in Context**

Department of Psychology,  
Modern College of Arts, Science and Commerce, Autonomous,  
Ganeshkind, Pune

## 1.1 Introduction to Biopsychology

### 1.2 Nervous System Structure

### 1.3 Nervous System Functions

### 1.4 Cells and Circuits

## Chapter 2 Nervous System Essential Functioning

### 2.1 Sensation, Perception and Adaptation

### 2.2 Sleep, Wakefulness and Conscious Awareness

### 2.3 Response Mechanism and Movement

### 2.4 Nervous System and Endocrine System

## Chapter 3 Neurochemistry

### 3.1 Understanding Basic Neurochemistry

### 3.2 Neuropharmacology and Neuroleptic/ Antipsychotic Drugs

### 3.3 Neurodevelopment, Neuroplasticity

### 3.4 Neurochemical Interventions and Drug addiction

## Chapter 4 Biopsychology in Action

### 4.1 Emotional Expression and Regulation

### 4.2 Affiliative and Reproductive Strategies

### 4.3 Learning, Memory and Decision Making

### 4.4 Mental Illness and Biopsychology,