

**GURU JAMBHESHWAR UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
HISAR**

SCHEME OF EXAMINATION,  
Syllabi and Courses of reading

For

**M.Sc. Psychology**

For the session  
2014-16

## **Scheme of Examination**

### **M.Sc. (Psychology) Programme**

Credit requirement for completion of the programme: 125

Programme Core-85

Programme Elective-40

Semester-1   Semester-II   Semester- III   Semester-IV

## Schedule of the Course Semester I

Sr.No.	Code No.	Nomenclature	L*	P**	Credit
1.	MAP-501	Fundamentals of Psychology-1	5	0	5
2.	MAP-502	Theories and Systems of Psychology-1	5	0	5
3.	MAP-503	Social Psychology	5	0	5
4.	MAP-504	Research Methods-1	5	0	5
5.	MAP-505	Statistics in Psychology	5	0	5
6.	MAP-506	Psychology Practical	0	12	6

\* = Lecture

\* = Practical

## **SEMESTER-II**

Sr.No	Code No.	Nomenclature	L	P	Credit
1.	MAP-507	Fundamentals of Psychology-1I	5	0	5
2.	MAP-508	Theories and Systems of Psychology-II	5	0	5
3.	MAP-509	Research Methods-1I	5	0	5
4.	MAP-510	Cognitive Psychology	5	0	5
5.	MAP-511	Personality	5	0	5
6.	MAP-512	Psychology Practical	0	12	6
7.	MAP-513	Community Survey	0	2	1

### SEMESTER-III

Sr.No	Code No.	Nomenclature	L	P	Credit
1.	MAP-514	Psychological Testing and Psychodiagnostics-1 (Compulsory Paper)	5	0	5
2.	MAP-515	Psychology Practical (Compulsory Paper)	0	12	6
	Any four options				
3.	MAP-	Programme-I Elective	5	0	5
4.	MAP-	Programme-II Elective	5	0	5
5.	MAP-	Programme-III Elective	5	0	5
6.	MAP-	Programme-IV Elective	5	0	5
7.	MAP-554	Self Management and Personality Development (Open Elective)	3	0	3

\*To be opted by the students of other departments.

## SEMESTER-IV

Sr.No.	Code No.	Nomenclature	L	P	Credit
1.	MAP-534	Psychological Testing and Psycho diagnostics-II (Compulsory Paper)	5	0	5
2.	MAP-536	Internship	PC		NC
3	MAP-553	Psychology Practical (Compulsory Paper)	0	12	6
	Any four options	The same opted in Semester-III			
4.	MAP-	Programme-1 Elective	5	0	5
5.	MAP-	Programme-II Elective	5	0	5
6.	MAP-	Programme-III Elective	5	0	5
7.	MAP-	Programme-IV Elective	5	0	5

### **SEMESTER-III**

<b>Code No.</b>	<b>Nomenclature of the optional papers</b>
<b>MAP-518</b>	<b>Clinical Psychology -1</b>
<b>MAP-519</b>	<b>Industrial /Organisational Psychology-1</b>
<b>MAP-520</b>	<b>Guidance &amp; Counselling -1</b>
<b>MAP-521</b>	<b>Psychology of Criminal Behaviour-1</b>
<b>MAP-522</b>	<b>Physiological Psychology -1</b>
<b>MAP-523</b>	<b>Cross-Cultural Psychology-1</b>
<b>MAP-524</b>	<b>Applied Social Psychology-1</b>
<b>MAP-525</b>	<b>Neuro-Psychology-1</b>
<b>MAP-526</b>	<b>Exceptional Children -1</b>
<b>MAP-527</b>	<b>Human Resource Management-1</b>
<b>MAP-528</b>	<b>Environmental Psychology-1</b>
<b>MAP-529</b>	<b>Consumer Psychology-1</b>
<b>MAP-530</b>	<b>Sports Psychology-1</b>
<b>MAP-531</b>	<b>Health Psychology-1</b>
<b>MAP-532</b>	<b>Social Gerontology-1</b>
<b>MAP-533</b>	<b>Child Psychology-1</b>

### **SEMESTER-IV**

<b>Code No.</b>	<b>Nomenclature of the optional papers</b>
<b>MAP-537</b>	<b>Clinical Psychology –II</b>
<b>MAP-538</b>	<b>Industrial /Organisational Psychology-II</b>
<b>MAP-539</b>	<b>Guidance &amp; Counselling – II</b>
<b>MAP-540</b>	<b>Psychology of Criminal Behaviour- II</b>
<b>MAP-541</b>	<b>Physiological Psychology – II</b>
<b>MAP-542</b>	<b>Cross-Cultural Psychology- II</b>
<b>MAP-543</b>	<b>Applied Social Psychology- II</b>
<b>MAP-544</b>	<b>Neuro-Psychology- II</b>
<b>MAP-545</b>	<b>Exceptional Children – II</b>
<b>MAP-546</b>	<b>Human Resource Management- II</b>
<b>MAP-547</b>	<b>Environmental Psychology- II</b>
<b>MAP-548</b>	<b>Consumer Psychology- II</b>
<b>MAP-549</b>	<b>Sports Psychology- II</b>
<b>MAP-550</b>	<b>Health Psychology- II</b>
<b>MAP-551</b>	<b>Social Gerontology- II</b>
<b>MAP-552</b>	<b>Child Psychology- II</b>



**Semester – I**  
**(Code: MAP – 501)**  
**Fundamentals of Psychology – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Biological basis of Behaviour: Evolutionary and genetic foundations. Structure and types of neurons. Neural impulse: Origin, Conduction and Measurement. Neurotransmitters.

**Unit – II:**

Nervous System : Central nervous system and Peripheral nervous system – Brain and human behaviour. Endocrine system and its behavioural implications.

**Unit – III:**

Perception: Nature, Approaches, Determinants of perception.  
Perception of Form and Shape: Contour and Contrast, Figure - Ground differentiation. Perception of space, Movement, and Time.

**Unit – IV:**

Sleep, dream & Consciousness.  
Subliminal perception.  
Extrasensory Perception.

**References :**

1. Carlson, N. (2000). Physiology of Behaviour : Allyn & Bacon.
2. Chaplin T. and Kraweic, T.S. (1979). Systems and Theories of Psychology : Holt Rinehart and Winston.
3. Graham, R.B. (1990). Physiological psychology. California : Wadsworth.
4. Kaltat, J.N. (2001). Biological psychology. California : Wadsworth.
5. Kling, J.W. and Riggs, L.A. (1971) Woodworth and Schlosberg's Experimental Psychology. London : Methuen and Co.
6. Levinthal, C.R. (1991). Introduction to physiological psychology. New Jersey: Prentice Hall.
7. Schiffman, H.R. (1996). Sensation and Perception. New York : John Wiley and Sons.

**Note for the Examiner :**

8 questions shall be set by the examiner.  
5 questions shall be attempted by the student.  
The examiner shall set at least 1 question form each unit.  
All questions carry equal marks.

**Semester – I**  
**(Code: MAP-502)**

**Theories and Systems – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Nature, origin and scope of psychology. Various fields of psychology. Ethical issues in psychology.

**Unit - II :**

Schools of psychology :

Structuralism, Functionalism, Behaviourism, Psycho analysis, Gestalt psychology. Cognitive revolution.

**Unit – III :**

Emotions : Nature and Functions

Theories : James-Lange, Canon-Bard, Schachter Singer, Ekman. Physiological correlates of emotions, Emotional Intelligence.

**Unit-IV :**

Motivation : Nature,

Theories : Psychanalytic, ethological, cognitive, humanistic and attribution.

**References :**

1. Carlson, N.R. and William Buskit (1997). Psychology : The Science of Behaviour. Allyn and Bacon.
2. Chaplin, T. Kraweic, T.S. (1979). Systems and Theories of psychology. Holt Rinehart and Winston.
3. David Hothersall (1995). History of psychology. Ohio : McGraw Hill International.
4. Franken, R.E. (1998). Human Motivation. California Brooks and Cole.
5. Hewes Mary B. (1990). The psychology of Human Cognition. New York : Pergamon Press.
6. Kling, J.W. and Riggs, L.A. (1971). Woodworth and Schlosberg's Experimental Psychology. London : Methuen and Co.
7. Marks, M.H. and William, A. Cronan – Hillix (1988). Systems and Theories in psychology. McGraw Hill International Editions, Psychology Series.
8. Vygotsky, L.S. (1962), Thought and Language, Cambridge, mass. MIT Press.

9. Woleman, Benjamin, B. (1979). Contemporary Theoris and Systems in psychology. Delhi : Freeman Book Co.

10. Woodworth, R.S. (2001). Basic facts in psychology. Atlantic Publishers and Distributors.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question form each unit.

All questions carry equal marks.

**Semester – I**  
**(Code : MAP - 503)**  
**Social Psychology**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Social Psychology : Nature.  
Socialization : Nature, Approaches, Agencies.  
Self : Self Concept, Self Esteem and Self Efficacy.

**Unit – II :**

Social Cognition – Nature and Approaches  
Prejudice and Discrimination : Components of Group Antagonism, Origins of Prejudice and Remedies.  
Attribution – Nature and Theories.

**Unit – III :**

Attitudes : Nature, Strategies and theories of attitude change.  
Leadership : Theories (trait theories, contingency theories, path goal, exchange theories).

**Unit – IV :**

Prosocial Behaviour and Altruism : Nature, pattern of prosocial behaviour and normative expectations.  
Aggression & Violence : Nature, Factors, theories.  
Reducing Aggression and Violence.

**References :**

1. Aronson, E. (1992). The social Animal New York : Freeman.
2. Baron, A. & Byrne, D. (1994). Social Psychology. Understanding Human Interaction, New York : Prentice Hall.
3. Lippa, R.A. (1990) Introduction to Social Psychology Belmont : Wadsworth.
4. Misra, G., (1988). Applied Social Psychology in India, New Delhi : Sage.
5. Myers, D.G. (1994). Exploring Social Psychology New York : Mc Graw-Hill.

**Note for the Examiner :**

8 questions shall be set by the examiner.  
5 questions shall be attempted by the student.  
The examiner shall set at least 1 question form each unit.  
All questions carry equal marks.

**Semester – I**  
**(Code: MAP 504)**  
**Research Methods – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Nature of Research in Psychology: criteria of good research  
Steps of research process, selection and formulation of problem  
Hypothesis- Selection and Types of hypothesis  
Errors in testing hypothesis: Type I error & Type II error  
Variables- Nature and Types, Controlling techniques of extraneous variables

**Unit – II :**

Types of Research :  
Experimental, Quasi – experimental, ex-post facto, field studies, cross-cultural.

**Unit – III :**

Methods of data collection  
Observation, Interview and Questionnaire  
Scales of measurement : Nominal, Interval, Ratio and Ordinal  
Ethical issues in data collection

**Unit – IV :**

Sampling – Principles of sampling  
Probability and Non-probability sampling  
Writing a research report

**References :**

1. Cattell R.B. (1996). Handbook of Multivariate experimental Psychology. Rand MC Nancy : Chicago.
2. Elmes, D.G., Kontawitz, B.H., Roediger, H.L. (1985). Research methods in psychology. New York : West.
3. Guy, R.F., Edgley, C.E., Arefat, J. & Allen, D.E. (1987). Social Research Methods. Puzzles and Solutions. Allyn and Bacon : Boston.
4. Kerlinger, F.N. (1964). Foundations of Behavioural Research. New York : Holt Rinehart and Winston.

5. Kothari, C.R. (1987). Research Methodology. New Delhi : Wiley Eastern.
6. Mc Burney, D.H. (1994). Research Methodology. New Delhi : Wiley Eastern.
7. McGuigan, F.J. 1990). Experimental Psychology : IBH Publication.
8. Shaughnessay, J.J. and Zechmeister, E.B. (1990). Research Methods in Psychology. New York : McGraw-Hill.
9. Singh, A.K. (1989). Tests Measurements and Research Methods in Behavioural Sciences. Patna : Bharti Bhawan (Publishers and Distributors).

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question form each unit.

All questions carry equal marks.

**Semester – I**  
**Code MAP – 505**  
**Statistics in Psychology**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

NPC : Characteristics and Applications.

Correlation : Meaning and Methods : Rank order, product moment, bi-serial, point bi-serial,.

**Unit – II :**

Advance Correlation Methods : Partial Correlation

Multiple regression (Linear-Standard & Stepwise, logistic and probit, involving three variables) and prediction.

**Unit – III :**

Non Parametric Statistics : Nature, Assumptions, Difference with Parametric.

Chi-square, sign test, Wilcoxon Signed Rank test, Mann Whitney U Test, Kruskal Wallis one way ANOVA, Friedman two way ANOVA.

**Unit – IV :**

Factor Analysis : General Concepts, Basic Assumptions ; Rotation of factors ; Special problems and issues in factor analysis. Confirmatory factor analysis.

**References :**

1. Balalock, H.M. (1979). Social Statistics. New York : Mc Graw Hill.
2. Garrett, H.E. (1986). Statistics in Psychology and Education. New York : David, Mc Kay Co. Inc.
3. Gullford, J.P., and Fruchter, B. (1978). Fundamental statistical in Psychology and education. New York : Mc Graw Hill.
4. Kanji, G.K. (1993). 100 statistical Tests. New Delhi : Sage.
5. Kiss, H.O. (1996). Statistical Methods for Behavioural Sciences. Boston : Allyn and Baon.

6. Robson C. (1982). Experimental Design and Statistics in Psychology. Middlesex : Penguin.
7. Seigel S. (1956). Non Parametric Statistics. New York : Mc Graw Hill.

**Note for the Examiner :**

8 questions shall be set by the examiner .

5 questions shall be attempted by the students.

The examiner shall set at least 1 question form each unit

All questions carry equal marks.



**Semester – I**  
**(Code : MAP – 506)**  
**Psychology Practical**

Time	:	3:00 Hrs
Credits	:	06
External Marks:		70
Internal Marks:		30

**LIST OF PRACTICALS**

1. Personality.
2. Intelligence.
3. Perception of form/colour/shape.
4. Memory
5. Attention
6. Sociometry
7. Emotions
8. Motivation
9. Altruism
10. Aggression
11. Leadership
12. Attitude
13. Self Concept
14. Interest
15. Attribution.

Any ten experiments/tests are to be conducted out of the list of fifteen areas mentioned in the syllabus. The students will have to perform one experiment/test in the examination, which would be assigned on lottery basis. It would be mandatory to submit a practical record book duly signed by the supervising teachers at the time of practical examination.

**Semester – II**  
**(Code : MAP – 507)**  
**Fundamentals of Psychology – II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Psychophysics : Classical Psychophysics, Problems and Methods.  
Signal Detection Theory : Procedures and Applications.

**Unit – II :**

Classical and Instrumental Conditioning : Nature, Procedures and Types.  
Operant Conditioning. Verbal Learning, Cognitive Learning, and Latent Learning,  
Observational Programmed Learning.

**Unit – III :**

Creativity : Nature, Dimensions, and Measurement of Creativity. Views of Torrance,  
Getzel, and Guilford. Creativity and intelligence.

**Unit – IV :**

Language and Thought ; Nature and Development..  
Concept formation : Well defined and ill defined concepts, exemplar and prototype models.

**References :**

1. Carlson, N. (2000). Physiology of Behaviour : Allyn & Bacon.
2. Chaplin T. and Kraweic, T.S. (1979). Systems and Theories of Psychology. Holt : Rinehart and Winston.
- 3.. D'Amato, M.R. (1970). Experimental Psychology. New Delhi : Tata McGraw Hill.
4. Hilgard, E.H., and Bower, G.H. (1975). Theories of Learning. Englewood Cliffs : Prentice Hall.
5. Hulse, S.H. Eget H. & Deese, J. (1980). The Psychology of Learning. Tokyo : Mc Graw Hill.
6. Kling J.W. and Riggs, L.A. (1971) Woodworth and Schlosberg's Experimental Psychology. London : Methuen and Co.

7. Matlin, M.W. (1995). Cognition. Bangalore : Prism.
8. Mazur, J.E. (1986), Learning and Behaviour. Englewood Cliff's : Prentice Hall.
9. Morgan, C.T., King R.A. Weisz, J.R., and Schopler, J. (1987). Introduction to Psychology. Singapore : Mc Graw Hill.
10. Schiffman, H.R. (1996). Sensation and Perception. New York : John Wiley and Sons.
11. Sternberg R.J., (1999). Handbook of creativity. Cambridge University Press.

**Semester – II**  
**(CODE: MAP – 508)**  
**Theories and Systems of Psychology – II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Learning : Concept and Theories: Hull, Tolman Spence, Miller and Dollard, Rotter, Mowrer.

**Unit – II :**

Intelligence : Nature and Theories : Spearman, Cattell, Thrustone, Jensen, Sternberg, Gardner, Guilford.

**Unit – III :**

Memory : Concepts and advanced theories:  
Working memory, Monohierarichal (Tulving), PDP (McClelland). Prospective memory.

**Unit – IV :**

Contemporary Trends in Information Processing :  
Artificial intelligence, Information processing theory, Non-conscious information processing theory.

**References :**

1. Galotti, K.M. (1999). Cognitive Psychology in and outside Laboratory. Mumbai: Thomson Asia.
2. Hilgard, E.H. and Bower, G.H. (1975). Theories of Learning. Englewood Cliffs : Prentice Hall.
3. Hulse, S.H., Eget, H. and Deese, J. (1980). The psychology of learning. Tokyo : McGraw Hill.
4. Matlin, M. W. (1995). Cognition. Banagalore: Prism.
5. Morgan, C.T., King, R.A., Weisz, J.R. and Schopler, J. (1987). Introduction to psychology. Singapore : McGraw Hill.
6. Solso, R.L. (1979). Cognitive Psychology. New York: HBJ.

7. Sternberg, R.J. (1984). Mechanisms of Cognitive development. NY : W.H. Freeman & Co.
8. Western, D. (1996). Psychology-Mind Brain, and Culture. New York : Wiely.
9. Woleman, B.B. (1985). Handbook of Intelligence : Theories, measurement and applications. New York : John Wiley.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – II**  
**(Code : MAP – 509)**  
**Research Methods: II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Research Designs : Nature, Purpose, Principles.  
Between subjects-designs : Natural Groups and Matched Groups.  
Statistical Analysis in Independent Groups Design :  
Randomised Groups Design : Statistical Analysis in Randomized Groups Design.

**Unit – II :**

Factorial Designs : Nature and Types - Random, fixed & mixed.  
Analysis in Factorial Design : Two way, three way ANOVA. Nested design, Latin square design ;

**Unit – III :**

Within subjects designs.  
Single and two factors repeated measures designs, Statistical Analysis in Within Subjects Designs. Limitations of within subjects designs.  
Mixed Designs : Two or three factors mixed designs with repeated measures on one factor.  
Trend analysis : Linear, Quadratic and cubic).

**Unit – IV :**

Quasi experimental designs ; single subject design.  
Correlational design : Cross sectional and longitudinal designs.

**References :**

1. Black, T.R. (1988). Quantitative research designs for social sciences. Thousand oaks ; sage.
2. Broota, K.D. (1990). Experimental Designs in Behavioural Research. New Delhi : Wiley Eastern.
3. Campbell, D.T. and Standlay, J.G. (1966). Experimental and quasi-experimental design for research. Chicago : Rand Mc Nally.
4. Edwards, A.L. (1972). Experimental Designs in Psychological Research. New York : Holt Rinehart and Winston.
5. Guilford, J.P. (1963). Psychometric Methods. New York : Mc Graw Hill.

6. Lindqvist, E.F. (1953). Design and Analysis of Experiments in Psychology. Boston : Houghton Mifflin.
7. Maxwell, A.E. (1968). Experimental Designs for behaviour and medical sciences. Holt, Rinehart Winston : New York.
8. Singh, A.K. (1986). Tests, measurements and research methods in Behavioural Sciences, New Delhi.

**Semester – II**  
**(CODE: MAP 510)**  
**Cognitive Psychology**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Origin and current status of cognitive psychology.  
Approaches to cognitive development : Piaget, Vygotsky, and information processing.  
Development of cognitive neurosciences.

**Unit – II :**

Attention and pattern recognition :  
Divided and Selective Attention.  
Biological Basis of Attention.  
Theories of Attention : Automatic Vs Controlled Processing, Feature Integration Theory.  
Concept of Pattern Recognition.

**Unit – III :**

Memory :  
Sensory Memory : Iconic and Echoic.  
Short Term Memory : Capacity, Coding and retrieval.  
Long Term Memory : Coding, Organization retrieval, and forgetting.  
Improving Memory : Mnemonics.

**Unit – IV :**

Problem Solving : Classification of problems, approaches to problem solving. Strategies and factors influencing problem solving.  
Imagery and cognitive maps : Nature and Theoretical Basis of Images, Cognitive Maps.

**References :**

1. Eysenck, W.M. and Keane, M.R. (1990). Cognitive Psychology A Student Handbook. London : Lawrence Erlbaum.
2. Galotti, K.M. (1999). Cognitive Psychology in and outside Laboratory. Mumbai : Thomson Asia.
3. Hewes Mary B. (1990). The Psychology of Human Cognition. New York : Pergamon Press.
4. Matlin, M.W. (1995). Cognition. Bangalore : Prism.
5. Solso, R.L. (1979). Cognition Psychology. New York : HBI.



6. Sternberg, R.J. (1984). Mechanisms of Cognitive Development. New York : W.H. Freeman & Co.
7. Weisberg. R.W. (1980) Memory, Thought, and Behaviour. New York : Oxford.
8. Western, D. (1996) Psychology – Mind, Brain, and Culture. New York : Wiley.
9. Vygotsky, L.S. (1962). Thought and Language. Cambridge, Mass : MIT Press.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – II**  
**(Code : MAP – 511)**  
**Personality**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Nature, Factors affecting Personality – Biological, Psychological and Socio-Cultural.

**Unit – II :**

Trait Approaches to Personality – Allport, Cattell, Eysenck, Five Factor Model.

**Unit – III :**

Theories :

Freud, Jung, Adler, Rogers, Bandura, Kelly, Rollo May.

**Unit – IV :**

Personality Assessment :

Projective Techniques – Thematic Apperception Test, Rorschach Ink Blot test, Holtzman Ink Blot test, Word Association Test, Sentence Completion test .

Questionnaires/ Inventories -16 P.F, EPI, MMPI. Situational Tests.

**References :**

1. Burger, J.M. (1990). Personality. California : Wardsworth.
2. .Byronb. D., and Kalley, N. (1961). Introduction to Personality : Prentice Hall.
3. Engler, B., (1991). Personality Theories : Introduction. Houghton : Mifflin Co. Boston.
4. Hall C.S. : Lindzey, G. (1978). Theories of Personlaity. New York : Wiley Eastern Limited.
5. Libert, R.M. and Spiegler, M.D. (1974). Personality, Strategies for the study of man Dorsey, Illinois : New York.
6. Hogan,R, Johanson,J, and Briggs, S. (1997). Handbook of Personality Psychology New York: Academic Press.
7. John,O.P.,Robins \, R.W &Pervin, L.A. ( 2008).Handbook of Personality: Theory and Research (3<sup>rd</sup> Ed ). NY: Oxford Press.

8. Larsen, R.J & Buss,D.M. (2011)Personality Psychology: Domains of knowledge about human nature. New Delhi: Tata McGraw-Hill.
9. Phares,E.J ( 1991). Introduction to Personality ( 3<sup>rd</sup> Ed).NY: Harper Collin
10. .London, H. and Eyen, J.E. (1978). Dimensions of Personality : Wiley.
11. Parvin L.A. (1979). Personality Theory, Assessment and Research : Wiley.
12. Sarason I.G. (1966). Personality and Objective Approach. New York : Wiley.
13. Stanger, R. (1948). Psychology of Personality : Mc Graw Hill.
14. Wiggin, J.S. ; Renner B.K. ; Clow G.L. ; and Rose R.J. (1971). Psychology of Personality. California : Wesley.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit

All questions carry equal marks.

**Semester – II**  
**(Code: MAP – 512)**  
**Psychology Practical**

Time	:	3:00 Hrs
Credits	:	06
External Marks:		70
Internal Marks:		30

**List of Practicals**

1. Personality
2. Thinking and Concept Formation.
3. Pattern Recognition.
4. Motivation.
5. Aptitude.
6. Emotional Intelligence.
7. Adjustment
8. Reaction Time
9. Aggression / Hostility
10. Self Concept
11. Concept Formation
12. Psycho Physics
13. Learning
14. Problem Solving
15. Creativity

Any ten experiments/tests are to be conducted out of the list of fifteen areas mentioned in the syllabus.

The students will have to perform one experiment/test in the examination which would be assigned on lottery basis. It would be mandatory to submit a practical record book duly signed by the supervising teachers at the time of practical examination.

**Semester – II**  
**(Code: MAP – 513)**  
**Community Survey**

It is mandatory for all the students to conduct a community survey and prepare the report on that as guided by the faculty of the department. The themes of community survey may include any of the following: behavioral problems, learning disability, health issues, violence, gender discrimination, organizational issues and the like.

Evaluation and viva of community survey report will be done at the time of practicals. Each student is required to submit the community survey report separately.

**Semester – III**  
**(Code : MAP – 514)**  
**Psychological Testing and Psychodiagnostics - I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Psychological Tests: Historical antecedents. Characteristics, types and applications. Sources of biasness in Psychological Testing. Ethics of Psychological Testing.

**Unit -II**

Construction and Standardization of Psychological Tests  
General steps of test construction: Preparation for Item writing, item analysis, reliability, validity. Development of norms, Item analysis for speed test; cross validation.

**Unit -III**

Psychometric properties of tests:  
Reliability: Meaning, sources of error, methods of estimate.  
Validity: meaning, validation procedures.  
Theory of measurement error: Domain sampling model, Model of parallel tests.

**Unit -IV**

Personality Tests: Cattell's 16 PF, EPQ-R, Neo-five factors.  
Intelligence Tests: WAIS, Raven's Standard and Colour progressive Matrices, Bhatia battery.  
Measurement of aptitude, Interest and attitude.

**References :**

1. Aiken, L.R. (1994). Psychological Testing and Assessment. Boston : Allyn and Bacon.
2. Anastasi, A. and Urbina, S (1997). Psychological Testing. (7<sup>th</sup> edition) upper saddle River (NJ) : Prentice Hall.
3. Freeman, F.S. (1974). Theory and practice of psychological testing. New Delhi : Oxford and IBH.
4. Friedenber, L. (1995). Psychological Testing : Design, Analysis and use Boston : Allyn and Bacon.

5. Guilford, J.P. (1954). Psychometric Methods (2<sup>nd</sup> Ed.). New York : McGraw Hill.
6. Wechsler, D. (1958). The measurement and appraisal of adult intelligence. Baltimore : Williams and Wilkins.
7. Weiner, I.B. (1976). Clinical methods in psychology. New York : Wiley inter science publication.
8. Weiner (1995). Rorschach : A comprehensive system. (Exner). Canada: John Wiley.

**Note for the Examiner :**

8 questions shall be set by the examiner

5 questions shall be attempted by the student

The examiner shall set at least 1 question from each unit

All questions carry equal marks.

**Semester – III**  
**(Code: MAP – 515)**  
**Psychology Practical**

Time	:	3:00 Hrs
Credits	:	06
External Marks:		70
Internal Marks:		30

**List of Practicals :**

1. Anxiety / Depression
2. Work Motivation
3. Stress
4. Personality
5. Bio-feed back
6. Ergo graph / leadership
7. Cognitive assessment
8. Job Satisfaction
9. Personality : Projective Techniques
10. Personality : Objective tests / questionnaires
11. Role conflict
12. Attitude
13. Temperament
14. Human Resource Management
15. Intelligence.

Any ten experiments / tests are to be conducted out of the list of practicals mentioned in the syllabus.



The students will have to perform one experiment / test in the examination which would be assigned on lottery basis. It would be mandatory to submit a practical record book duly signed by the supervising teachers at the time of practical examination.

**Semester – III**  
**(Code : MAP – 518)**  
**Clinical Psychology - I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Nature and Scope of Clinical Psychology, Role of clinical Psychologist, Ethics, training of clinical psychologist, Status of clinical psychology in India

**Unit -II**

Classification systems of behavioural aberrations and mental disorders: ICD & DSM, History and present status.  
Theoretical background / approaches to psychopathology: Biological, Psychological and Social.

**Unit -III**

Anxiety Disorders : Separation Anxiety Disorder, Selective Mutism, Specific Phobia, social Anxiety Disorder(Social Phobia), Agoraphobia, Panic Disorder, generalized Anxiety disorder,  
Personality Disorders

**Unit -IV**

Schizophrenia Spectrum and Other psychotic Disorders: Schizotypal personality disorder, Delusional disorder, Brief psychotic disorder, Schizophreniform disorder, Schizophrenia, Schizoaffective Disorder, Catatonia

Eating Disorders: anorexia Nervosa, Bulimia Nervosa, Binge-Eating Disorder

**References :**

1. American psychiatric Association (2013), Diagnostic and statistical manual of mental Disorders (5<sup>th</sup> ed.) American Psychiatric publishing, Arlington, VA
2. Comer, R.J.(2010) Abnormal Psychology ( 7<sup>th</sup> ed), Worth Publishers, Newyork.
3. Freeman, A., Felgoise, S.H. and Davis, D.D.(2008) Clinical Psychology: integrating science and practice, John Wiley & Sons, New Jersey.
4. Jeffrey, S.N., Spencer, A.R., and Beverly, G.(2014) Abnormal Psychology in a changing world, Pearson Edu., Boston.
5. Nietzel, M.T.and Bernstein, D.A.(1987) Introduction to clinical Psychology : New Jersey: Prentice Hall.
6. Trull, T.J.(2005) Clinical Psychology (7<sup>th</sup> ed.) Wadsworth Cengage learning. Australia.
7. World Health Organization, (1992). The ICD -10 classification of mental and behavioural disorders: clinical descriptions and diagnostic guidelines. WHO Press. Geneva

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code: MAP – 519)**

**Industrial/Organizational Psychology – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Industrial/Organizational Psychology : Nature, history and scope. Research strategies : methods & procedures. Ethics in Industrial/organizational Psychology.

**Unit -II**

Personnel selection and development: Procedures and Assessment methods for selection. Testing in organizations. Concept of human resource development.

**Unit -III**

Performance Appraisal : Necessity.  
Performance criteria,  
Methods of Assessment  
Job Satisfaction : Theory, research and measurement.

**Unit -IV**

Training of Personnel : Nature, Principles and Methods.  
On the job and of the job training methods.  
Evaluation of training programme.

**Reference :**

1. Blumm M.L. and Nylor, J.C. (1968). Industrial Psychology. N.Y. : Harper & Row.
2. Davis. K. (1981). Human Behaviour at Work. New Delhi : Tata Mc Graw Hill.
3. Dunnet, M.D. (Ed.). (1992). Handbook of Industrial and Organizational Psychology. Chicago : Raud McNally.
4. Ganguli, H.C. (1966). The Industrial worker Psychological Studies. Delhi : Siddharth.
5. Ghiselli, E.E. and Brown C.W. (1955). Personnel and Industrial Psychology : McGraw Hill.

6. Hershey, R.E. and Blanchard, T. (1977.) The Management of organizational behaviour, New Delhi : Prentice Hall.
7. Saal, F.E. and Knight P.A. (1995) Industrial / Organizational Psychology, Sciences & Practice. Pacific Grove : Brooks / Cole.
8. Luthans. F. (1986). Organizational Behaviour. New York : Mc Graw Hill.
9. Mohanty G. (1990). Industrial and Organizational psychology New Delhi: Oxford and IBH.
10. Spector, P.E. (1996). Industrial and Organizational Psychology Research & Practice. New York : Wiley (Relevant chapter).

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code: MAP – 520)**  
**Guidance and Counselling – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Guidance and Counselling: Historical Perspective, Objectives and Principles of guidance and counselling.

Types of Guidance: Personal, Educational and Vocational.

Necessary personal characteristics/qualities of effective counsellors.

**Unit -II**

Counselling Procedure.

Organization and Conduct of guidance.

The group approach in guidance.

Counselling in individual situation.

Observation for counselling purpose.

**Unit -III**

Characteristics/dimensions of counselling relationship.

Relationship Techniques: Rapport techniques, Reflection of feelings.

Terminating skills.

**Unit -IV**

Special relationship problems: Transference, Countertransference, Resistance, Silence.

Supportive therapies: milieu therapy, Holistic approach to therapy: Yoga, Meditation, bio-feedback.

**References:**

1. Bernard, H.W. and Fullmer, D.W. (1977). Principles of Guidance. New York : Crowell.
2. Burnard, Philips (1989). Counselling skills for Health Professional. Madras: Chapman and Hall.
3. Crow, L.D. and Crow, A. (1962). Introduction to Guidance. New Delhi: Imersia Pub.
4. Gelso, G. J. and Fretz B.R. (1995). Counselling psychology, Bangalore : Prism.
5. Jones, J.F. (1970). Principles of Guidance. NY : McGraw Hill.
6. Lynn, S.J. and Garske, J.P. (1985). Contemporary Psychotherapies, and methods. Ohio, Bell and Howell.

7. Rao, N. (1994). Counselling and Guidance, New Delhi : Tata MC Grw Hill.
8. Traxler, M. and North, R.D. (1967). Techniques of Guidance. New York : Horper and Raw.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code : MAP – 521)**  
**Psychology of Criminal Behaviour – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Nature & historical perspective of criminal behaviour. Techniques of studying criminal behaviour. Various approaches of classification of crime.

**Unit -II**

Causal analysis of crime :  
Biological approaches.  
Sociological approaches.  
Psychological approaches.

**Unit -III**

Special offender categories :  
Juvenile Delinquency.  
Narcotic offenders.  
Homicide & suicide.  
Mentally disabled offenders and Terrorists.

**Unit -IV**

Psychology of Police :  
Attitude towards police, selection, training and development of police personnel. Role conflicts among police personnel and other correctional staff.

**References :**

1. Abrahamson, D. (1960). Psychology of crime. New York : Columbia University Press.
2. Chokalingan, K. (1991). Readings in Victimology Madras : Rair Raj Publications.
3. Feldman, M.P. (1977). Criminal Behaviour : A psychological analysis. London : Wiley.
4. Goyal, R.K (1992). Reforms in Jails, Chandigarh : India.
5. Kushner, W.W. (1988). The future of terrorism. Delhi: Sage.
6. Reid, S.T. (1979). Crime and Criminology. New York : Holt Rinehart and Winston.
7. Sirohi, J.P.S, (1983). Criminology and Criminal Administration. Allahabad : Law Agency.
8. Trojanowicz, C. (1978). Juvenile delinquency : concepts and controls. Englewood cliffs, Prentice Hall.
9. Walters G.D. (1994). Drug and crime in life style perspective. New Delhi : Sage.



**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code : MAP – 522)**  
**Physiological Psychology – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Nature, History and Scope of Physiological Psychology.

Research techniques : Ablation and Lesion, electrical activity of brain, electrical brain stimulation, Neuroanatomical and chemical techniques.

**Unit – II**

Cell and Neurons. Structure, types and Functions of neurons.

Conduction of Nerve impulse, synaptic transmission. Receptors effectors and adjuster mechanisms.

**Unit – III**

Organization of nervous system. C.N.S. : structure and functions. Peripheral Nervous System : Spinal and Cranial Nervous structure and functions. A.N.S. : sympathetic and parasympathetic : structure and functions. Endocrine system: chemical and glandular.

**Unit – IV**

Muscular System : Structure, types and functions of muscles. Movement : the motor unit, reflex mechanism, pyramidal and extra pyramidal motor systems.

**Reference :**

1. Carlson, N. (1991). *Biology of Behavior*. Boston : Allyn and Bacon.
2. Graham, R.B. (1990). *Physiological Psychology*. California : Wadsworth.
3. Grossman, S.P. (1967). *A Text book of Physiological Psychology*. New York : Siley.
4. Hoyenga, K.B. and Hoyenga, K.T. (1998). *Psychobiology : The neuron and Behavior*. California : Brooks/Cole.
5. Kalat, J.N. (2001). *Biological Psychology*. California : Wadsworth.
6. Levinthal, C.R. (1991). *Introduction of Physiological Psychology*. New Jersey : Prentice Hall.
7. Pinel, Johan, P.J. (1990). *Biopsychology*. Boston : Allyn and Bacon.

8. Rosenzweig, M.R. and Liemen, A.L. (1989). Physiological Psychology. New York : Random House.
9. Rosenzweig, M.R., Leiman, A.L. and Breed love, S.M. (1999). Biological Psychology : An Introduction to Behavioral, cognitive and Clinical Neuro Science. 2<sup>nd</sup> edition Massachusetts : Sinauer.
10. Singh, I.B. (1982). A Text book of Human Neuroanatomy. Delhi : Vikas.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code: MAP – 523)**  
**Cross – Cultural Psychology – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Culture and Behaviour :

Nature of Culture, Cultural relativity and universality of human behaviour, Mechanisms of cultural transmission.

Methodology of Cross Cultural Psychology : Comparability and equivalences, universals, Emics and Ethics, Sampling and Measurement issues, Back translation, and decanting.

**Unit – II**

Culture and Social Cognition : Culture and self-concept : Cultural Influences on perception; Schemas and their effects, Cultural Activism, Cultural Utopia.

**Unit – III**

Culture and Emotion : Basic emotions, Dimensional and componential models, subjective experiences, Appraisal, Physiological reactions and Emotional Expressions.

**Unit – IV**

Culture and Organizations : Work values, commitment, Communication and interpersonal dynamics, Managerial techniques, organizational development and change, conflict negotiations.

**Reference :**

1. Berry, J.W., Poortinga, Y.H. Gall, M.H. & Dasen, P.R. (1992). Cross-cultural psychology : Research And Applications. New York : Cambridge University Press.
2. Berry, J.W. et.al. (1997). Handbook of cross-cultural psychology (2<sup>nd</sup> Edition) (Vol. 1-3). Boston : Allyn & Bacon.
3. Brislin, R. (1990). Applied cross-cultural psychology. Newbury Park : Sage.
4. Gall, M.H., Dasen, P.R., Berry, J.W. & Poortinga, Y.H. (1999). Human behaviour in global perspective. Boston : Allyn & Bacon.

5. Smith, B.P. and Bond, M.H. (1998). *Social Psychology (Across Cultures)*. New Delhi : Prentice Hall.
  
6. Triandis, H.C., et.al. (1980). *Handbook of Cross-cultural Psychology*, Vol. 1-6. Boston : Allyn & Bacon.
  
7. Worchel, S. Cooper, J., Goethals, R.G. and Olson, M.J. (2000). *Social Psychology*. U.S.A. : Thompson Pub. Co.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code: MAP – 524)**  
**Applied Social Psychology – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Nature and scope of Applied Social Psychology. Growth of social Psychology as a modern Discipline. Role theory, Social learning theory, Exchange theory, Current trends in social Psychology.

**Unit – II**

Social Cognition and Influence Processes : Person Perception and Social Cognition; Social power and political processes. Leadership styles and effectiveness.

**Unit – III**

Socialization, Culture and development : Agents, processes and characteristics of socialization. Cultural and psychological processes in development. Culture and gender.

**Unit – IV**

Group dynamics : Social interactions, structure and properties of social groups. Group cohesiveness and group effectiveness.  
Group norms; conformity, role conflicts and group morals.

**Reference :**

1. Durkin, K. (1985). Developmental Social Psychology : From Infancy to old age. Oxford : Blackwell.
2. Gilbert, D.T., Fiske, S.T. and Lindzey, G. (1998). The Handbook of Social Psychology. New York : Oxford.
3. Harvey, J.H., Iokes, W., and Kidd, R.F. (1978). New Directions in Attribution Research (Vol. 1 & 2). NJ : Hillsdale.
4. Honigman, J.J. (1954). Culture and Personality. New York : Harper and Row.
5. Krech, D. and Cruthchfield, R.S. (1958). Theory and Problems of Social Psychology. New York : Mc Graw Hill.
6. Lindzey, G. and Aronson, E. (1985). The Handbook of Social Psychology. (Vol. 1 to 5). New York : Random House.
7. McDavid, J.W. and Harari, H. (1968). Social Psychology. New York: Harper and Row.

8. Misra, G. (1990). Applied social psychology in India. New Delhi : Sage
9. Saraswathi, T.S. (1999). Culture, Socialization and Human Development : theory, research and applications in India. New Delhi : Sage Publications.
10. Sargent, S.S., Williamson, P.G., and Swingle, (1982). Social psychology. Peacock pub.
11. Schaeffer, R. (1996). Social development. Oxford : Blackwell Publishers.
12. Secord, P.F. and Backman, C.W. (1964). Social psychology. New York : McGraw Hill.
13. Sharif, M. and Sherif, C.W. (1963). Social Psychology. London : Harper and Row.
14. Sinha, D. (1981). Socialization of the Indian Child. ND : Concept Pub. Co.
15. Valsiner, J. (1999). Culture and human development. New Delhi : Sage.
16. Worchel, S. Cooper, J., Goethals, R.G. and Olson, M.J. (2000). Social Psychology. U.S.A. : Thompson Pub.
17. Young, K. (1963). Handbook of Social Psychology. London : Butter and Tanner.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code : MAP – 525)**  
**Neuro Psychology – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit - I**

Topography of brain – Hind brain, Midbrain & Fore-brain, Cerebral cortex and its lobular organization, Cerebral dominance, Neurotransmitters.

**Unit- II**

Neurophysiology of learning, Neurophysiology of memory, Neurophysiology of emotion  
Neurophysiology of sleep and wakefulness

**Unit- III**

Head trauma- Open head injuries, Closed head injuries, Seizures - Generalized seizures  
Partial seizures.

**Unit -IV**

Methods of investigation – Electrical – Electroencephalograph, Evoked potentials  
CT Scan, MRI, PET Scan, Neuro-psychological testing ,Halsted –Reitan  
Neuropsychological Battery ,Luria- Nebraska Neuropsychological Battery, AIIMS  
Neuropsychological Battery, PGI Battery of Brain Dysfunction.

**Reference :**

1. Boller, F., & Grafman, J. (1988). Handbook of neuropsychology. New York : Elsevier.
2. Dimonds, S.J. (1980). Neuropsychology : A Text Book of systems and psychological functions of the human brain. Butter worths : London Boston.
3. Filsknow, S.B. and Boll, J.J. (1981). Handbook of Clinical Neuropsychology, New York : John Wiley.
4. Grahm, R.B. (1990). Physiological Psychology. California : Wadsworth.
5. Harton, A.M.N. (1984). Clinical and Behavior Neuropsychology. New York: Praeger.



6. Heilman, K.M., & Valenstein, E. (1993). Clinical neuropsychology, New York : Oxford University Press.
7. Jarvis, P.E. and Jaffery, T. Barth (1994). Halstead – Reitan Neuropsychological Test Battery : A Guide to Interpretation and Clinical Application. Aorida : Psychological Assessment Resources Inc.
8. Kolb, B., & Whisaw, I.Q. (1990). Fundamentals of human neuropsychology. New York : Freeman, W.H.
9. Meier, M.J., Burton A.L., and Diller, L. (Eds.) (1987). Neuropsychological Rehabilitation. Edinburgh : Churchill Livengstons.
10. Mosses, J.A. & Golden, C.J. (1990). Interpretation of the Luria Nebraska Nuropsychological Battery. New York : Allyn & Bacon.
11. Ottoson, D. (1987). Duality and unity of the brain. London : MacMillan.
12. Walsh, K. (1994). Neuro psychology : A clinical approach. New Delhi : Churchill Livingstone.
13. Whitaker, H.A. (1988). Neuropsychological studies of nonfocal brain damage. New York : Springer-Verlag.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code : MAP – 526)**  
**Exceptional Children – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit-I**

Introduction

Who are exceptional Children?

Problems of Labeling and Classification of exceptional children.

Special education as intervention. Special education in the schools.

Special education as civil rights. Equal Protection.

Services to handicapped infants and toddlers.

Gifted and talented children.

**Unit -II**

Giftedness : Definition and prevalence of Gifted and Talented children.

Origins of Giftedness, screening and identification.

Physical, Psychological and Behavioural characteristics.

Attitude towards gifted children and their education.

Educational considerations.

**Unit -III**

Defining mental retardation : Classification of mental retardation.

Mild retardation, Moderate retardation, Severe and profound retardation.

Causes of mental retardation. Early intervention in mental retardation.

Educational consideration. Exceptional placement and methodology.

Transition : Community adjustment and employment.

Residential alternatives for individuals with mental retardation.

Group Homes. Prevention of mental retardation.

#### **Unit-IV**

Physical and Health Impairment : Types and causes.

Prevalence and need. Neurological impairment.

Congenital malformations. Accidents and other physical conditions.

Severe handicaps. Child abuse and neglect.

Psychological and Behavioural characteristics. Early intervention.

Transition : choice and career and socio-sexuality.

Adults and disabilities. Employment. Residential alternatives, recreation and leisure.

#### **Reference :**

1. Hallahan, D.P., and Kauffman, J.M. (1991). Exceptional Children. Boston : Allyn and Bacon.
2. Heward, W.L. and Orlansky, M.D. (1998). Exceptional Children, Malbourne : Merit.
3. Hurlock, E.B. (1978). Child Development. Tokyo : McGraw Hill.
4. Jersild, A.T. et.al. (1975). Child Psychology (7<sup>th</sup> Ed.) NJ : Prentice Hall.
5. Santrock, J.W. (1998). Child development (8<sup>th</sup> Ed.). Texas : McGraw Hill.
6. Stone, L.J. and Church, J. (1973). Childhood and Adolescence. (3<sup>rd</sup> Ed.) New York: Basic Books.
7. William, D. (1998). Handbook of child psychology. Texas : John Wiley.

#### **Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code: MAP – 527)**  
**Human Resource Management-I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit-I**

Understanding HRM: Concept, objectives, function, importance, scope and HRM Model.  
HRM in dynamic environment, Total Quality Management.

**Unit-II**

HR planning: Nature, importance and process.  
Job analysis: Nature, process, barriers and role of psychological testing.  
Induction, Placement and Socialization.

**Unit-III**

Training and Development: Nature, need, methods, impediments to effective training and evaluation of training programme, career planning and development.

**Unit-IV**

Performance and potential appraisal : Methods, challenges and problems.  
Job evaluation: Compensation administration, incentives and employee benefits, wage policy in India.

**References :**

- 1.. Anastasi, A. (1979). Fields of Applied Psychology. Tokyo : McGraw Hill Kogakusha.
  2. Barton, J. and Gold, J. (1994). Human Resource Management- Theory and Practice. Houndmills : Macmillan.
  3. Cook, M.F. (1993). The Human Resources, Year book 1993/94 edition. Englewood Cliffs: Prentice Hall.
  4. Mamora, C.B. (1994). Personal Management (Management of Human resources), Bombay : Himalaya.
  5. Davis. K. (1981) Human Behaviour at work. New Delhi : Tata McGraw Hill.
- i.Hersay, R.E. and Blanchard, T. (1977). The management of organizational behaviour. New Delhi: Prentice Hall.

ii.Saal, F.E. and Knight P.A. (1995). Industrial/Organizational Psychology, Sciences & Practice Pacific Grove : Brooks/Cole.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code : MAP – 528)**  
**Environmental Psychology – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Introduction:

Why study Environmental Psychology ?

The origin of Environmental Psychology.

Current events influencing Environmental Psychology.

Theories in Environmental Psychology.

Different approaches to environmental psychology.

A model of Environment-Behaviour relationship.

**Unit -II**

Behaviours disturbing Environmental Stressors :

Physical stressors : Ambient Temperature.

Littering, Humidity, Sunlight, Wind, Air and Water.

Ion Concentration.

The Atmospheric stressors : Carbon-dioxide, Carbon-Monoxide, Ozone.

Tobacco smoke as a pollutant.

Psychological Stressors :

Noise : The ubiquitous Pollutant : Noise in the work place.

Noise in the living environment, noise in the laboratory

Noise and social behavior : Individual Difference in response to Noise.

Noise in schools and hospitals.

Noise and Law.

**Unit -III**

Psychology of stress.

Researching stress : The Environmental context.

Moderators of stress response.

The role of stress in understanding organism-environmental relationships.

#### **Unit-IV**

Public reactions to pollution.

Environmental Perception, Cognition and Attitudes.

Elementary Psychophysics.

Perception : Theories of Environmental Perception.

Environmental Cognition, Environmental Attitudes, Changing Attitudes.

#### **References :**

1. Bonnes, M. and Secchiardi, G. (1982). Environmental Psychology, London.
2. Fisher, J.D., Prell P.A. and Baum, A. (1984). Environmental Psychology. New York : Holt, Rineheart and Winston.
3. Sag Veitch, R. and Arkkelln. D. (1995). Environmental Psychology Englewood Cliffis : Prentice Hall.

#### **Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the students.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code : MAP – 529)**  
**Consumer Psychology – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Consumer Psychology : Nature and applications.  
What is consumers behaviour ? Fields of consumer behaviour.  
Consumer's impact on marketing strategy.  
Targeted Marketing: Listening to consumers  
Consumer Demographics: To whom are we marketing  
Marketing Segmentation strategies.  
Marketing impact on consumer  
The role of the consumer in marketing

**Unit -II**

Major Factors Influencing Buyer's Behaviour :  
Cultural factors, Social factors, Personal factors.  
Group influences : Income and social class.  
Effects of family structure on consumption.  
Children as decision makers : Consumers-in-training.  
Marketing research and children  
Advertising to children : An ethical minefield.

**Unit -III**

Decision Process : Individual decision making :  
Consumer as problem solvers  
Types of consumer decisions.  
Problems recognition, Information search.  
The economics of information, determinants of information search, evaluation of alternatives, identifying alternatives.  
Heuristics : Mental short cuts.  
Organizational Decision Making :  
Organizational versus consumer decision making.  
The organizational buyer's behaviour process.



#### **Unit -IV**

The purchase Situations, Post Purchase Evaluation and Product Disposal

Situational Effects on Consumer Behaviour

Constructing a situational segmentation Matrix

Physical and social Surroundings : Temporal Factors, antecedent States, shopping Motives.

The Purchase Environment, non-store shopping, the shopping experience.

The Salesperson, Post Purchase Satisfaction.

#### **References :**

1. Anastasi, A. (1979) Fields of Applied Psychology, Tokyo : McGraw Hill Kogakusha.
2. Engle, J.F. Kollat, D.T. and Blackwell, R.D. (1973). Consumer Behaviour.
3. Soloman, M.R. (1996). Consumer Behaviour. Englewood Cliffs : Prentice Hall.

#### **Note for the Examiner :**

8 questions shall be set by the examiner

5 questions shall be attempted by the student

The examiner shall set at least 1 question from each unit

All questions carry equal marks

**Semester – III**  
**(Code : MAP – 530)**  
**Sports Psychology – I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Sports and Psychology-A convergence.  
Strategies For Achieving Sports-Excellence.  
Nutrition, Exercise and Sports Performance.  
Exercise Behaviour for Promoting Sports Excellence.  
Personality and Sports : Relevant Personality Dimensions for Sportsmanship.

**Unit -II**

The Coach-Athlete Interaction : The parent in Coach-Athlete Interaction.  
Coaching Error and Communication  
Determinants of Athletics' Performance  
Attentional demands, attention and arousal, selective attention.

**Unit -III**

Arousal : Drive theory, the inverted U Hypothesis, arousal and nature of the task. Arousal and individual differences, states of activation and performance, cognitive Arousal effects of social facilitation. Arousal adjustment. Use of strategies.

**Unit -IV**

Mental Imagery, Imagery Perspectives, Imagery and performance,  
Importance of Reaction Time in Sports.  
Type of Reaction Time, Reaction  
Factors affecting Reaction Time.

**Reference :**

1. Goldstein, L. (1989). Modern Applied Psychology, Toronto : Persamon.
2. Mohan, J. Chadhu, N.K. and Akhtar, S. (Eds). (1995). Psychology of Sports.
3. Sandhu, G.S. (1992). Psychology in Sports, Delhi : Friends.

**Note for the Examiner :**

8 questions shall be set by the examiner.  
5 questions shall be attempted by the student.  
The examiner shall set at least 1 question from each unit.  
All questions carry equal marks.

**Semester – III**  
**(Code: MAP – 531)**  
**Health Psychology - I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Health Psychology- Nature & scope.  
Relationship with clinical Psychology, health sociology and behavioural medicine.  
Models of health behaviour.

**Unit -II**

Behavioural Risk factors :  
Durg abuse, Alcohol use, Smoking,  
Diet, Sedentary life style  
Type A Behaviour Personality  
Genders and Health

**Unit -III**

Health Related Disorder,  
C.H.D. (Coronary Heart Disease)  
Cancer, Diabetes, A.I.D.S. HIV  
Eating disorders.

**Unit -IV**

Pain- Concept, causes, physiology of pain, social factors in experiencing pain, treating pain  
Geriatric health psychology-Health problems related to aging; treatment /interventions.

**Reference :**

1. Cooper, CL, (ed) 1983. Stress Research. Issues for the liguties. New York: Wiley & sons.
2. Feuerstein, M, Elise, R.L. and Kuczmier cigk, A.R. (1986). Health Psychology A Psychological perspective. New York : Plenum Press.
- 3 Friedman- Di-mateo (1989). Health Psychology. New York : Prentice Hall.
- 4 Prokop, C.K. Bradley, L.A. Burisn, T.G. Anderson K.O. and Fox, J.E. (1991). Health Psychology Clinical Methods and research. New York : Macmillan.
- 5 Schumidt L.R. Schwenkemgger, P. weinment, J. and maes, S. (1990). Theoretical and Applied Aspects of Health Psychology. London : Hardwood/Academic.
- 6 Spaceman, S. and Oskamp, S. (1988). The Social Psychology of Health. New York : Sage Publications.

**Semester – III**  
**(Code: MAP – 532)**  
**Social Gerontology - I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit-I**

The Field of Social Gerontology, Nature and application.  
Growth of Older Population.  
Changes in Life Expectancy.  
Worldwide Trends.

**Unit -II**

Longevity in Health or Disease.  
Attitudes toward Older People.  
Method of studying Older Population.  
Historical and Cross Cultural issues in Ageing.

**Unit -III**

The Biological and Physiological Context of Social Aging :  
The Social consequence of biological aging  
Biological theories of Aging.  
Can Aging be reversed / delayed ?  
Research on physiological changes with age.  
Sensory changes and their social consequences  
Health, chronic Disease and use of Health Services.

**Unit -IV**

Effects of stress on health.  
Chronic and acute diseases.  
Models of Health Behaviour.  
Health Promotion with Elderly.

**References :**

1. Hooyman, N and Kiyak, H.A. (1996). Social Gerontology. – Multidisciplinary Perspective. Boston : Allyn and Bacon.

**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – III**  
**(Code: MAP – 533)**  
**Child Psychology –I**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit- I**

Meaning, Nature, History and importance of Developmental.  
Common methods to study child behavior.

**Unit-II**

Factors affecting child development : Biological ,psychological , familial and sociological.

**Unit-III**

Introduction to Theories of Development: Freud's psychosexual stages, Erikson's psychosocial stages of development, Piaget's Cognitive development, Bandura social learning, Vygotsky socio cultural development.

**Unit- IV**

Development of early leaning, motor skills and perceptual capacities during infancy, Physical growth during Childhood.

**Reference Books:**

1. Berk,L.E.(2012).Child development: pearson Education Inc.Boston.
2. Kail, R.V., Cavanaugh, J.C.(2012). Human Development: A Life –Span View, Cengage learning.
3. Mash, E.J. & Wolfe, D.A.(2012), Abnormal Child Psychology (5<sup>th</sup> Ed.) Cengage learning.
4. MeLevitt, T.M.& Ormord, J.E.,(2012), Child Development and Education ( 5<sup>th</sup> ed.) Pearson ed.
5. Santrock, J., (2012) Children, McGraw-Hill Higher Education
6. Siegler R.S., Deloache, J.S., Nancy e. Saffran, J.(2014), How Children Develop (4<sup>th</sup> Ed.) Worth Publishers.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question form each unit.

All questions carry equal marks.

# Open Elective

## Semester-III

(CODE: MAP-554)

### SELF MANAGEMENT AND PERSONALITY DEVELOPMENT

#### Unit-I

Self Concept and Self confidence

Improving self concept and self confidence

Theories of self concept: Mead, Cooley

#### Unit-II:

Understanding Personality, Factors affecting Personality: Biological, Psychological

Social, Theories of Personality: Freud, Allport

Assessing Personality: NEO Five Factor Inventory

#### Unit-III:

Stress: Nature, Causes and management ( Time management, Communication skills, Yoga and meditation.

#### Unit-IV:

Management of Anger and interpersonal relations.

#### References:

1. Baron, A. & Byrne, D.(1994), Social Psychology, Understanding Human Interaction, New York: Prentice Hall.
2. Burger, J.M.( 1990), Personality, Wardsworth: California.
3. Feuerstein, M, Elise, R.L.and Kuczmier cigk, A.R.(1986), Health Psychology A Psychological perspective: New York : Plenum Press.
4. Fridman- Di- mateo ( 1989), Health Psychology, New York : Prentice Hall.
5. Hall C.S. : Lindzey, G.(1978), Theories of Personality, New York: Wiley Eastern Limited.
6. Morgan, C.T.King R.A. Weisz, J.R., and Schopler, J. (1987), Introduction to Psychology, Singapore: Mc Graw Hill.

#### Note for the Examiner:

Nine questions are to be set by the examiner, Question no.1 will be compulsory and based on the entire syllabus (all four units). It will contain Seven Short Answer Type questions, each of two marks. Rest of the Eight question are to be given by setting two questions from each of the Four Units of the syllabus. A candidate is required to attempt other four questions by selecting one from each of the four units. All the questions including Q.No.1 shall carry equal marks.

**Semester – IV**  
**(Code : MAP – 534)**  
**Psychological Testing and Psychodiagnostics – II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Psychodiagnostic Assessment :  
Projective Techniques: Purpose, classification and Evaluation.  
Word Association Test, Thematic Apperception Test,  
Rorschach, Sentence Completion Test.

**Unit -II**

Measurement of Motivation, Creativity, Anxiety, Depression, Hostility and Aggression.

**UNIT-III**

Neuropsychological Assessment: role of E.E.G., E.M.G., PET scan, CAT scan,  
Luria Nebraska Neuropsychological Battery, Bender Gestalt Visual motor test.

**Unit -IV**

Application of Psychological Tests in Industrial/Organizational settings, Clinical setting,  
Defence settings, Counselling and Educational set-ups, Forensic settings, Sports settings.

**Reference :**

1. Aiken, L.R. (1994) Psychological Testing and Assessment. Boston : Allyn and Bacon.
2. Anastasi, A. and Urbina, S (1997) psychological Testing (7<sup>th</sup> edition ) upper saddle River ( NJ) : Prentice Hall.
3. Freeman, F.S. (1974). Theory and practice of psychological testing, New Delhi : Oxford and IBH.
4. Friedenberg, L. (1995) psychological Testing : Design, Analysis and use Boston : Allyn and Bacon.
5. Guilford, J.P. (1954). Psychometric Methods (2<sup>nd</sup> Ed.). New York : McGraw Hill.
6. Wechsler, D. (1958). The measurement and appraisal of adult intelligence. Baltimore : Williams and Wilkins.
7. Weiner, I.B. (1976). Clinical methods in psychology, New York : Wiley inter science publication.
7. Weiner (1995). Rorschach : A comprehensive system ( Exner) John Wiley, Canada, 1995.



**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – IV**  
**(Code : MAP – 536)**  
**INTERNSHIP**

After fourth semester examination, all the students shall have to go for internship for four weeks in organizations (Hospitals, Clinics, Jails, Counselling Centres, Industries, Airlines, Detective Agencies, and Advertising Agencies etc.) approved by the department and submit an internship report there on. The internship report shall be recommended/ certified by the head of the organization or any other officer under whose guidance the internship was done. Evaluation of the internship reports will be done by a committee of internal teachers on the basis of the seminar to be presented by each student

The duration of internship will be of one month (1<sup>st</sup> June to 1<sup>st</sup> July of every year). The report on internship will be submitted by each candidate within 45 days of the last paper of 4<sup>th</sup> semester examination. If any candidate fails to submit the internship report and present the seminar there on within the stipulated time decided by the department, then the presentation of such candidate will take place after three months on the date decided by the course coordinator.

**Semester – IV**  
**(Code : MAP – 537)**  
**Clinical Psychology - II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Bipolar and Related Disorders: Bipolar Disorder, Cyclothymic Disorder  
Depressive Disorders: Major Depressive Disorder (MDD), Persistent Depressive Disorder  
Premenstrual Dysphoric Disorder

**Unit -II**

Gender and Sexuality related disorders: Sexual Dysfunctions, Gender Dysphoria, Paraphilic Disorders

Substance- Related and Addictive Disorders: Substance-Induced Disorders,  
Alcohol-Related Disorders, Opioid –Related Disorders, Tobacco-Related Disorders,  
Stimulant use disorder, gambling disorder.

**Unit -III**

Therapeutic Intervention : Biologically based therapies - electro convulsive therapy,  
psychosurgery, Pharmacological therapy.  
Psychologically based therapies: Psychoanalytic, behaviour, cognitive and Humanistic.

**UNIT-IV**

Prevention of Mental Illness and Community Psychiatry. Mental health scenario in India.

**Reference :**

1. American Psychiatric Association,(2013), Diagnostic and statistical manual of mental Disorders (5<sup>th</sup> ed.)Arlington, VA: American Psychiatric Publishing.
2. Come, R.J.(2010) Abnormal Psychology (7<sup>th</sup> ed.), Worth Publishers, Newyork.
3. Freedom, A., Felgoise, S.H.and Davis, D.D.(2008) Clinical Psychology: integrating science and practice, John Wiley & Sons, New Jersey.
4. Jeffrey, S.N., Spencer,a.R.and Beverly, G.(2014) Abnormal Psychology in a changing world , Pearson Edu., Boston.
5. Nietzel, M.T. and Bernstein, D.A.(1987) Introduction to clinical Psychology: New Jersey: Prentice Hall.
6. Trull, T.J. (2005) Clinical Psychology (7<sup>th</sup> ed.) Wadsworth Cengage learning. Australia.
7. World Health Organization, (1992). The ICD -10 classification of mental and behavioural disorders: clinical descriptions and diagnostic guidelines, WHO Press. Geneva.

**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – IV**  
**Code: MAP – 538)**  
**Industrial and Organizational Psychology – II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Work motivation: Nature, Theories: Need theories, Expectancy theory, equity, goal setting, reinforcement and self- efficacy theory.

Work Attitudes: Multidimensionality of work attitudes.

**Unit -II**

Leadership processes and styles in organization. Classical studies on leadership; trait theories, Group exchange theory, Fiedler's contingency model, path goal theory, social learning approach. Leadership styles : Reddin's three dimensional model, likert's four system of management, Vroom Yetton normatic model. Leadership and Emotional Intelligence.

**Unit -III**

Organizational climate & culture.

Theories of organizational behaviour: Classical, human relation and open system.

Organizational change and Development. Organizational effectiveness.

**Unit -IV**

Clinical patterns of organizational behaviour.

Occupational stress, counter productive behaviour, role conflicts, absenteeism and burnouts, their causes and interventions. Health related problems in Organizations.

Working conditions & work environment.

Safety & accidents.

**Reference:**

1. Blumm M.L. and Nylor, J.C. (1968). Industrial Psychology. New York : Harper & Row.
2. Davis. K. (1981). Human Behaviour at work. New Delhi : Tata McGraw Hill.
3. Dunnet, M.D. (Ed.) (1976). Handbook of Industrial and Organizational Psychology. Chicago : Raud McNally.
4. Ganguli, H.C. (1996). The Industrial worker Psychological studies. Delhi : Siddharth.
5. Ghiselli, E.E. and Brown C.W. (1955). Personnel and Industrial Psychology : McGraw Hill.
6. Hersay, R.E. and Blanchard, T. (1977). The management of organizational behaviour. New Delhi : Prentice Hall.

7. Saal, F.E. and Knight P.A. (1995). Industrial/Organizational Psychology, Sciences & Practice Pacific Grove : Brooks/Cole.
8. Luthans, F. (1986). Organizational Behaviour. New York : Mc Graw Hill.
9. Mohanty G. (1990). Industrial and Organizational psychology. New Delhi : Oxford and IBH.
10. Spector, P.E. (1996). Industrial and Organizational psychology Research & Practice New York : Wiley.

**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester IV**  
**(Code: MAP- 539)**  
**Guidance and Counselling - II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit-I**

Psychodiagnosis, Crisis Intervention.  
Counselling : Theoretical Approaches to Counselling :  
Psychoanalytic Foundation: Sigmund Freud, Alfred Adler.

**Unit-II**

Affective Approaches to counselling :  
Person-Centered Therapy.  
Gestalt Therapy.  
Existential Therapy.

**Unit -III**

Cognitive-Behavioural Approaches to Counselling :  
Rational-Emotive Therapy.  
Behavioural Counselling.  
Reality Therapy.  
Transactional Analysis.

**Unit-IV**

Special Areas of Applications :  
Marriage Counselling, Counselling of Children & Parents,.  
Counselling for special population-substance abusers, AIDS patients, abuse victims,  
women.Human relation Counselling in industry and government. .

**References :**

1. Burnard, Philips (1989). Counseling skills of health professional, Madras : Chapman and Hall.
2. Gelso, C.J. and Fretz, B.R. (2000). Counseling psychology (2ND Ed.)London:  
Wadsworth
3. Gibson , R.L ( 2005 ). Introduction to Counseling & Guidance.New Delhi: Pearson  
Education.
4. Lynn, S.J. and Garske, J.P. (1985). Contemporary psychotherapies : Models and Methods.  
Ohio : Bell and Howell.
5. Nystul, M.S ( 2001). Introduction to Conuselling. New Mexico State University :Allyn and  
Bacon.

6. Palmer, S& Mc Mohan ,G. (1997 ). Handlook of Counselling Psychology, London: British Association for Counselling.
- 7 Rao,S.N.(2001).Counselling Psychology. New Delhi: Tata McGraw –Hill.

**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1question from each unit.

All questions carry equal marks.



**Semester – IV**  
**(Code: MAP – 540)**  
**Psychology of Criminal Behaviour – II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Special offences:  
Sex offences and crime against women, white collar crime, cyber crime  
Theories of punishment: Retribution, deference and reformation theory.

**Unit -II**

Role of law enforcement agencies in social defense:  
Prison administration (Walled and open air prisons)  
Probation and Parole.  
Prison reform programmes and services.  
Problems of prison life.

**Unit -III**

Role of psychological measures in correction of crime:  
Behaviour modification  
Sensitivity training  
Transactional Analysis  
Rehabilitation in family & Community.

**Unit -IV**

Prevention of crime:  
Victim offender relationship, Role of Voluntary agencies in social defence.

**Reference :**

1. Abrahamson, D. (1960). Psychology of crime. New York : Columbia University Press.
2. Chokalingan, K. (1991). Readings in Victimology. Madras : Rair Raj Publications.
3. Feldman, M.P. (1977). Criminal Behaviour : A psychological analysis. London : Wiley.
4. Goyal, R.K (1992). Reforms in Jails, Chandigarh : India.
5. Kushner, W.W. (1988). The future of terrorism. Delhi: Sage.
6. Reid, S.T. (1979). Crime and Criminology, New York : Holt Rinehart and Winston.
7. Sirohi, J.P.S, (1983). Criminology and Criminal Administration Allahabad : Law Agency.
8. Trojanowicz, C. (1978). Juvenile delinquency. Concepts and controls. Englewood cliffs, Prentice Hall.
9. Walters G.D. (1994). Drug and crime in life style perspective. New Delhi : Sage.

**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – IV**  
**(Code : MAP – 541)**  
**Physiological Psychology - II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Biological basis of sensory processes: Visual, auditory, tactual and chemical systems.

**Unit – II**

Biological basis of learning and memory: Neurophysiology of learning. Biological basis of memory: the search for the engram, PET scan and Biochemical factors in memory. Effects of antimetabolic drugs.

**Unit – III**

Neural mechanism of emotion. Biological basis of personality and temperamental traits. Biological determinants of intelligences.

**Unit – IV**

Sleep, arousal, and dreaming : Nature, stages of sleep, sleep deprivation, brain mechanisms of sleep and dreaming. Neural basis of arousal and attention.

**Reference :**

1. Carlson, N. (1991). *Biology of Behavior*. Boston : Allyn and Bacon.
2. Graham, R.B. (1990). *Physiological Psychology*. California : Wadsworth.
3. Grossman, S.P. (1967). *A Text book of Physiological Psychology*. New York : Siley.
4. Hoyenga, K.B. and Hoyenga, K.T. (1998). *Psychobiology – The neuron and Behavior*. California : Broks/Cole.
5. Kalat, J.N. (2001). *Biological Psychology*. California : Wadsworth.
6. Levinthal, C.R. (1991). *Introduction of Physiological Psychology*. New Jersey : Prentice Hall.
7. Pinel, Johan, P.J. (1990). *Biophychology*. Boston : Allyn and Bacon.
8. Rosenzweig, M.R. and Liemen, A.L. (1989). *Physiological Psychology*. New York : Random House.

9. Rosenzweig, M.R., Leiman, A.L. and Breed love, S.M. (1999). Biological Psychology : An Introduction to Behavioral, cognitive and Clinical Neuro Science. Massachusetts : Sinauer.
10. Singh, I.B. (1982) A Text book of Human Neuroanatomy. Delhi : Vikas.

**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1question from each unit.

All questions carry equal marks.

**Semester – IV**  
**(Code : MAP – 542)**  
**Cross-Cultural Psychology - II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit – I :**

Culture and Health : Psychopathology across cultures, models, cultural factors in health interventions.

**Unit – II**

Culture and Social behaviors : Attraction, Helping, Pro-social behavior, Altruism, conformity, values, gender roles and socialization processes.

**Unit – III**

Cross Cultural Communication : Verbal and Non-Verbal interactions, communication incongruences, cultural display rules, formulating and managing intercultural interactions.

**Unit – IV**

Cultural change and adaptations : Process of acculturation, Acculturation in plural societies. Acculturation strategies, Acculturation and adaptation of tribal/native peoples and refugees; Behavioral shifts and acculturative stress, causal and moderating factors.

**Reference :**

1. Berry, J.W., Poortinga, Y.H. Gall, M.H. & Dasen, P.R. (1992). Cross-cultural psychology : Research And Applications. New York : Cambridge University Press.
2. Berry, J.W. et.al. (1997). Handbook of cross-cultural psychology (2<sup>nd</sup> Edition) (Vol. 1-3). Boston : Allyn & Bacon.
3. Brislin, R. (1990). Applied cross-cultural psychology. Newbury Park : Sage.
4. Gall, M.H., Dasen, P.R., Berry, J.W. & Poortinga, Y.H. (1999). Human behaviour in global perspective. Boston : Allyn & Bacon.
5. Triandis, H.C., et.al. (1980). Social Psychology (Across Cultures) New Delhi: Prentice Hall.
6. Worchel, S. Cooper, J., Goethals, R.G. and Olson, M.J. (2000). Social Psychology. U.S.A. : Thompson Pub. Co.

**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

## Semester – IV

(Code : MAP – 543)

### Applied Social Psychology – II

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

#### Unit – I

Theoretical Perspective :

Cognitive dissonance, social comparison, reactance, social identity. Symbolic interactionism, Sociobiology.

#### Unit – II

Mass Psychology :

Audience, collective behavior, crowd, mob, propaganda, Brain washing, Public opinion. Social change and social movements.

#### Unit – III

Inter group relations : prejudices – causes and cure, discrimination, group conflict and stereotype. Antisocial behavior : aggression and social violence.

#### Unit – IV

Social problems and Application of Social Psychology : Poverty and deprivation; population growth; modernization.

Applying social psychology to law, environment and Health.

#### Reference :

1. Durkin, K. (1985). Developmental Social Psychology. From Infancy to old age. Oxford : Blackwell.
2. Gilbert, D.T., Fiske, S.T. and Lindzey, G. (1998). The Handbook of Social Psychology. New York : Oxford.
3. Harvey, J.H., Iokes, W., and Kidd, R.F. (1978). New Directions in Attribution Research (Vol. 1 & 2). NJ : Hillsdale.
4. Krech, D. and Cruthchfield, R.S. (1958). Theory and Problems of Social Psychology. New York : Mc Graw Hill.
5. Lindzey, G. and Aronson, E. (1985). The Handbook of Social Psychology. (Vol. 1 to 5). New York : Random House.
6. Linton, R. (1958). Cultural Background of Personality. Routledge and Kogan.

7. McDavid, J.W. and Harari, H. (1968). Social Psychology. New York: Harper and Row.
8. Misra, G. (1990). Applied social psychology in India. New Delhi : Sage.
9. Sargent, S.S., Williamson, P.G., and Swingle, (1982). Social psychology. Peacock pub.
10. Secord, P.F. and Backman, C.W. (1964). Social psychology. New York : McGraw Hill.
11. Sharif, M. and Sherif, C.W. (1963). Social Psychology. London : Harper and Row.
12. Sinha, D. (1981). Socialization of the Indian Child. ND : Concept Pub. Co.
13. Valsiner, J. (1999). Culture and human development. New Delhi : Sage.
14. Young, K. (1963). Handbook of Social Psychology. London : Butter and Tanner.

**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.



**Semester – IV**  
**(Code : MAP – 544)**  
**Neuro Psychology - II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit- I**

Neurological disorders, Cerebral trauma, Intra-cranial tumours, Cerebrovascular disorders, Degenerative disorders

**Unit- II**

Pathology of lobes, Frontal lobe pathology, Temporal lobe pathology, Parietal lobe pathology, Occipital lobe pathology

**Unit- III**

Language Disturbances, Sleep disturbances, Movement disorders, Disturbances of emotion.

**Unit- IV**

Neuro-psychological Rehabilitation, Training issues in neuro-psychology

**Reference :**

1. Boller, F., & Grafman, J. (1988). Handbook of neuropsychology. New York : Elsevier.
2. Dimonds, S.J. (1980). Neuropsychology : A Text Book of systems and psychological functions of the human brain. Butter worths : London – Boston.
3. Filsknow, S.B. and Boll, J.J. (1981). Handbook of Clinical Neuropsychology. New York : John Wiley.
4. Grahm, R.B. (1990). Physiological Psychology. California : Wadsworth.
5. Harton, A.M.N. (1984). Clinical and Behavior Neuropsychology. New York: Praeger.
6. Heilman, K.M., & Valenstein, E. (1993). Clinical neuropsychology. New York : Oxford University Press.
7. Kolb, B., & Whisaw, I.Q. (1990). Fundamentals of human neuropsychology. New York : Freeman, W.H.
8. Meier, M.J. Burton A.L. and Diller, L. (Eds.) (1987). Neuropsychological Rehabilitation. Edinburgh : Churchill Livengstons.

9. Mosses, J.A. & Golden, C.J. (1990). Interpretation of the Luria Nebraska Neuropsychological Battery. New York : Allyn & Bacon.
10. Ottoson, D. (1987). Duality and unity of the brain. London : MacMillan.
11. Walsh, K. (1994). Neuropsychology : A clinical approach. New Delhi : Churchill Livingstone.
12. Whitaker, H.A. (1988). Neuropsychological studies of nonfocal brain damage. New York : Springer-Verlag.

**Note for the Examiner :**

8 Questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – IV**  
**(Code : MAP – 545)**  
**Exceptional Children - II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Classification of children's behavioural disorders.

Learning Disabilities: defining learning disabilities, discrepancy, exclusion, special education. Psychological and behavioural characteristics of learning disabled children. Causes of learning disabilities.

**Unit -II**

Measurement of learning disabilities.

Educational considerations.

Educational approaches.

Early Intervention.

Transition : Secondary Programming, Post Secondary Planning.

**Unit -III**

Communication Disorders:

Types and causes of communication disorders.

Assessment and evaluation.

Early Intervention.

Treatment and remediation of communication disorder.

**Unit -IV**

Hearing Impairment:

Types and measurement of hearing. Loss ability, Identification and assessment. Causes of hearing impairment, psychological and behavioural characteristics.

Visual Impairment:

Definition and classification.

Types and causes of visual impairment.

Psychological and behavioural characteristics.

Parents and Families of Exceptional Children:

The effects of an exceptional child on the family. Family involvement in treatment and education.

**Reference :**

1. Hallahan, D.P., and Kauffman, J.M. (1991). Exceptional Children. Boston : Allyn and Bacon.
2. Heward, W.L. and Orlansky, M.D. (1998). Exceptional Children, Malbourne : Merit.
3. Hurlock, E.B. (1978). Child Development. Tokyo : McGraw Hill.
4. Jersild, A.T. et.al. (1975). Child Psychology. NJ : Prentice Hall.
5. Santrock, J.W. (1998). Child development. Texas : McGraw Hill.
6. Stone, L.J. and Church, J. (1973). Childhood and Adolescence. New York : Basic Books.
7. William, D. (1998). Handbook of child psychology. Texas : John Wiley.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – IV**  
**(Code: MAP – 546)**  
**Human Resource Management-II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit-I**

HRD in India: Concept, goals, evolution and need for HRD, HRD in Indian industry.

**Unit-II**

Employee grievances and Discipline: Grievances, Management in Indian Industry, Resolving Disputes: Nature of disputes, causes of disputes, settlement of disputes. Discipline: Approaches to discipline, disciplinary actions.

**Unit-III**

Health and safety: Need, measures to promote employees health, emotional problems, employee safety, safety programmes. Employee welfare: Importance, Agencies for welfare work, Industrial relations & Trade Union.

**Unit-IV**

Contemporary issues in HRM: Work force diversity management, work family balance, sexual harassment at work, pressures of globalization, e-HRM.

**References :**

1. Anastasi, A. (1979). Fields of Applied Psychology. Tokyo : McGraw Hill Kogakusha.
2. Barton, J. and Gold, J. (1994). Human Resource Management- Theory and Practice. Houndmills : Macmillan.
3. Cook, M.F. (1993). The Human Resources, Year book 1993/94 edition. Englewood Cliffs: Prentice Hall.
4. Mamora, C.B. (1994). Personal Management (Management of Human resources), Bombay : Himalaya.
5. Davis. K. (1981) Human Behaviour at work. New Delhi : Tata McGraw Hill.
6. Hersay, R.E. and Blanchard, T. (1977). The management of organizational behaviour. New Delhi: Prentice Hall.

7. Saal, F.E. and Knight P.A. (1995). Industrial/Organizational Psychology, Sciences & Practice Pacific Grove : Brooks/Cole.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question from each unit.

All questions carry equal marks.

**Semester – IV**  
**(Code : MAP – 547)**  
**Environmental Psychology - II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit I**

Population, Density, Urbanization:  
Social density and regulatory control.

**Unit-II**

Territorially, privacy, personal space, territorial behaviour.  
Behaviour as Response to the physical characteristics of the Environment Spatial behaviour.

**Unit -III**

Crowding: Effect of high density on humans, Effective components of high density settings, Pressure-Environment transaction in high Density settings.  
Crowding theories: Crowding and behaviour, crowding and crime, crowding and aggression, crowding and withdrawal, crowding and altruism, crowding as a common problem.

**Unit -IV**

Research Methods in Environmental Psychology: Evaluating the adequacy of environmental research.

**References :**

1. Bonnes, M. and Secchiardi, G. (1982). Environmental Psychology. London.
2. Fisher, J.D., Prell P.A. and Baum, A, (1984). Environmental Psychology. New York : Holt Rineheart and Winston.
3. Sag. Veitch, R. and Arkkelln. D. (1995). Environmental Psychology Englewood Cliffis : Prentice Hall.

**Note for the Examiner :**

8 questions shall be set by the examiner.  
5 questions shall be attempted by the student.  
The examiner shall set at least 1 question from each unit.  
All question carry equal marks.

**Semester – IV**  
**(Code : MAP – 548)**  
**Consumer Psychology – II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Testing Advertising Effectiveness:

Experimental simulation

Mechanical devices.

Consumer Panels.

Readership and audience surveys.

Mail order purchase and inquiries.

Brand use and sales records.

Consumer Opinion Surveys:

Purpose of Opinion surveys.

Sampling problems.

Product testing Brand Identification and Brand preference studies.

Product Development studies.

Observing consumer behaviour in natural settings.

**Unit -II**

Attitude Change and Persuasive Communications:

The nature and functions of attitudes.

Attitude measurement.

Assessment of consumer attitude through rating scales and projective technique. Changing attitude through communication. Strategies issues in persuasion attempts

**Unit -III**

The source of communication: Choosing a source dimension, Source credibility, Source attractiveness.

The message: Message elements, constructing the argument, Types of message appeals.

Communication: The nature of communication, Persuasive communication, Word-of-mouth communication, Using the Mass Media, Using Celebrities as communication sources.



#### **Unit -IV**

Personality: Personality theories utilized in marketing, using personality measures to predict Buyer behaviour. The nature and influence of individual predispositions.

The central control unit: Its nature and function.

Learning process: The nature of learning, behaviour learning theories, cognitive learning theory, marketing application of learning principles.

#### **References:**

1. Anastasi, A. (1979). Fields of Applied Psychology Tokyo : Mc Graw Hill Kogakusha
2. Engle, J.E., Kollat, D.T. and Blackwell, R.D. (1973). Consumer Behaviour. Hiusdale : Dryden.
3. Soloman, M.R. (1996). Consumer behaviour. Englewood Cliffs : Prentice Hall.

#### **Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question fro each unit.

All questions carry equal marks.

**Semester – IV**  
**(Code : MAP – 549)**  
**Sports Psychology – II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Motivation and Sports: Demographic factors, Incentive motivation, Achievement motivation, Goal Setting, Competition, Self confidence, Social reinforcement.

Anxiety and its Role in Sports: Role of competitive anxiety in sports, Effect of anxiety on sports performance.

**Unit -II**

Stress in Sports: Stress related factors, Stress and Decision style, Stress and competition, Stress training, Stress evaluation, Burnout in sports.

Strategies for stress management.

Violence in Sports: Factors influencing sports violence, Causes of sports violence.Reduction of sports violence.

**UNIT-III**

Team building and Leadership in sports:

The sport team: A general system approach to group interaction and integration, Personal Factors: Personality, Interpersonal compatibility, Individual ability, Motivation.

Leadership, Cohesiveness, Group development, Conformity and compliance, Obedience.

**Unit -IV**

Achievement Factors: Attribution for causality, Achievement rewards.

Sports and Drugs.

Yoga and sports: Beneficial effects of Yoga, Yoga and mental relaxation, Utility of Yoga for sports persons.

**References:**

1. Goldstein, L. (1989). Modern Applied Psychology. Toronto : Pergamon.
2. Sandhu, G.S. (1992). Psychology in Sports, Delhi : Frinends..
3. Singh, A. (1992). Sports Psychology Delhi : Friends.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question form each unit.

All questions carry equal marks.

**Semester – IV**  
**(Code : MAP – 550)**  
**Health Psychology - II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

Stress: Nature, Models of stress,  
Physiology of stress, Sources of stress.  
Responding to stress.

**Unit -II**

Managing Stress :  
Factors Affecting the ability to cope, yogic meditation, Bio-feedback, Assertiveness training, and their management, coping with Organizational Role stress.

**Unit -III**

Health Promotion :  
Development of healthy habits, Quality of life.  
Reduction of unhealthy behaviour.  
Health related beliefs in Eastern Perspective.

**Unit -IV**

Disease Prevention – Biological, sociocultural, Psychological and spiritually oriented intervention.

**Reference:**

1. Cooper, CL, (ed). (1983). Stress Research. Issues for the eighties, New York: Wiley & sons.
2. Feuerstein, M. Elise, R.L. and Kuczmier cigk, A.R. (1986). Health Psychology A Psychological perspective. New York : Plenum Press
3. Friedman- Di-mateo (1989). Health Psychology, New York : Prentice Hall.
4. Prokop, C.K. Bradley, L.A. Burisn, T.G. Anderson K.O. and Fox, J.E. (1991). Health Psychology Clinical Methods and research. New York : Macmillan.
5. Schumidt L.R. Schwenkemgger, P. Weinment, J. and Maes, S. (1990). Theortical and Applied Aspects of Health Psychology London : Hardwood/Academic.
6. Spaceman, S. and Oskamp, S. (1988). The Social Psychology of Health. New York : Sage Publications.

**Note for the Examiner :**

8 questions shall be set by the examiner unit wise.

The examiner shall set at least 1 question form each unit

5 questions shall be attempted by the students selecting at least one from each unit.  
All questions carry equal marks.

**Semester – IV**  
**(Code : MAP – 551)**  
**Social Gerontology – II**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit -I**

The Psychological Context of Social Ageing: Cognitive changes with Age, Intelligence and Ageing.

Learning and Memory: Information processing Model.

Age related changes: Improving Memory in late years.

Wisdom and Creativity.

**Unit -II**

Personality and Social Adaptation in old Age: Innate and environmental factors.

Stress, coping and adaptation: Successful Aging.

Love Intimacy and Sexuality in old Age: Attitudes and beliefs about sexuality in later life, Late life affection, love and intimacy.

Mental disorders.

**Unit -III**

Social context of Aging: Importance of Family, Friends and Neighbours.

Living Arrangements and Social Interactions:

Person-Environment Theories of Ageing

Victimization and Fear of crime

Assisted Living: A New Long Term care Option.

Single Room Occupancy (SRO) Housing

Problems of homelessness.

Economic Status, Work and Retirement:

Retirement.

Creating new opportunities for work

Source of income after retirement.

## **Unit -IV**

Changing Roles: Variations in activities in old age, leisure pursuits, volunteer work, religious participation, political participation.

Societal Context of Aging.

Social policies to address social problems. The development of policies for older People.

Income Security programmes: Social Security pension and Income tax provisions, Social Services.

Health and long term care policy and programmes.

### **References:**

1. Hooyman, N. and Kiyak H.A. (1996). Social Gerontology – A Multidisciplinary Perspective. Boston: Allyn and bacon

### **Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question form each unit.

All questions carry equal marks.

**Semester – IV**  
**(Code: MAP – 552)**  
**Child Psychology (Paper-II)**

Time	:	3:00 Hrs
Credits	:	05
External Marks:		70
Internal Marks:		30

**Unit-I**

Development of cognition, intelligence and language during early childhood.

**Unit - II**

Development of emotions, personality and moral values during childhood.

**Unit - III**

Attention deficit hyperactivity disorder, learning disorders, mental retardation, Feeding, eating, elimination disorders, conduct disorder and autism.

**Unit – IV**

Role and functions of family in child development, Development of gender differences and roles.

Status and problems of childhood in India:- malnutrition, child abuse, homelessness, aggressiveness & bullying, gender discrimination.

**Books Recommended :**

1. Berk, L.E.(2012).Child development :Pearson Education inc.Boston.
2. Kail, R.V, Cavanaugh, J.c.(2012) . Human Development: A Life- Span View. Cengage learning.
3. Mash, E J., & wolfe, D.A.(2012), Abnormal Child Psychology (5<sup>th</sup> Ed.) Cengage learning
4. Mc levitt, T.M.,& Ormord, J.e., (2012). Child Development and Education (5<sup>th</sup> Ed.) Pearson ed.
5. Santrock, J., (2012) Children, McGraw-Hill Higher Education
6. Siegler R.S., Deloache, J.D., nancy e. & Saffran, J.(2014), How Children Develop ( 4<sup>th</sup> Ed.) Worth Publishesers.

**Note for the Examiner :**

8 questions shall be set by the examiner.

5 questions shall be attempted by the student.

The examiner shall set at least 1 question form each unit.

All questions carry equal marks.

**Semester – IV**  
**MAP-553**  
**Psychology Practical**

Time	:	3:00 Hrs
Credits	:	06
External Marks:		70
Internal Marks:		30

**List of Practicals**

1. Personality Test.
2. Social Maturity Scale
3. Galvanic Skin Response
4. Guidance Need Inventory
5. Alienation Scale
6. Youth Problem Inventory
7. Marital Adjustment Questionnaire
8. Family Pathology Scale
9. Life Satisfaction Scale
10. Well-Being Scale
11. Occupational Stress
12. Family Relationship Inventory
13. Coping Responses Inventory
14. Rosenweig Picture Frustration Test
15. Children Apperception test

Any ten experiments / tests are to be conducted out of the list of practical mentioned in the syllabus.

The students will have to perform one experiment / test in the examination which would be assigned on lottery basis. It would be mandatory to submit a practical record book duly signed by the supervising teachers at the time of practical examination.





