

CREDIT BASED SYSTEM
IN
M.A./M.Sc. ANTHROPOLOGY
UNDER

FACULTY OF LIFE SCIENCE

Approved by Board of Studies in Anthropology

EFFECTIVE FROM JULY 2014

CODE 461 & 462



School of Studies in Anthropology

Pt. Ravishankar Shukla University,

Raipur (C.G.) 492010

WEBSITE : - www.prsu.ac.in

Pt. Ravishankar Shukla University, Raipur
M.A./M.Sc. ANTHROPOLOGY [Credit System]
Scheme of Examination
July 2014-December 2014

	Paper No.	Title of Papers	Marks		Credit
			(External)	(Internal)**	
FIRST Semester	I	Fundamentals of Social/Cultural Anthropology	80	20	4
	II	Fundamentals of Physical/Biological Anthropology	80	20	4
	III	Prehistoric Archaeology & Palaeo - Anthropology	80	20	4
	IV	Research Methods in Anthropology	80	20	4
	LC-I	Practicals in Craniology & Craniometry	80	20	2
	LC-II	Practicals in Osteology & Osteometry	80	20	2
		Total	600		20

January 2015-June 2015

	Paper No.	Title of Papers	Marks		Credit
			(External)	(Internal)**	
SECOND Semester	I	Indian Archaeology	80	20	4
	II	Fundamentals of Human Genetics	80	20	4
	III	Medical Anthropology	80	20	4
	IV	Biostatistics and Computer Applications	80	20	4
	LC-I	Practicals in Archaeology	80	20	2
	LC-II	Compulsory Field Work	80	20	2
		Total	600		20

July 2015-December 2015

GROUP A- PHYSICAL ANTHROPOLOGY

	Paper No.	Title of Papers	Marks		Credit
			(External)	(Internal)**	
THIRD Semester	I	Applied Anthropology (Group A & B)	80	20	4
	II	Advanced Human Biology	80	20	4
	III	Human Growth & Nutrition	80	20	4
	IV	Molecular Genetics	80	20	4
	LC-I	Practicals in Applied Biological Anthropology	80	20	2
	LC-II	Practicals in Growth, Nutrition, Health and Physiology	80	20	2
		Total	600		20

GROUP B- SOCIAL ANTHROPOLOGY

THIRD Semester	I	Applied Anthropology (Group A & B)	80	20	4
	II	Theory Methods in Social-Cultural Anthropology	80	20	4
	III	Indian Anthropology & Museology	80	20	4
	IV	Tribal Development	80	20	4
	LC-I	Practicals in Museology	80	20	2
	LC-II	Project Work on Impact assessment of Disaster and framing Rehabilitation project	80	20	2
		Total	600		20

January 2016-June 2016					
GROUP A- PHYSICAL ANTHROPOLOGY					
FOURTH Semester	Paper No.	Title of Paper	Marks		Credit
			(External)	(Internal)**	
	I	Medical Genetics	80	20	4
	II	Forensic Anthropology	80	20	4
	III	Dissertation(external)	200		8
IV	Presentation /Viva-voce	200		4	
	Total		600		20
January 2016-June 2016					
GROUP B- SOCIAL ANTHROPOLOGY					
FOURTH Semester	Paper No.	Title of Paper	Marks		Credit
			(External)	(Internal)**	
	I	Disaster Management,Displacement&Rehabilitation	80	20	4
	II	Development Anthropology	80	20	4
	III	Dissertation(External)	200		8
IV	Presentation/Viva-voce	200		4	
	Total		600		20

*Each theory paper will have 5 Questions of equal marks. First question (Multiple choice type or short answer type) will be based on all units (complete syllabus) with no internal choice, whereas remaining questions will be unit wise having internal choice within each unit.

**Each student will be evaluated continuously throughout the semester. There will be class test based on each theory paper. The full marks will be 10 for each paper. There will be seminar of 10 marks

***A student of IV semester will have to submit a community based project work .The valuation of the project work will be carried out by an external examiner and the faculty members of the department

Pt. Ravishankar Shukla University, Raipur

M.A./M.Sc. ANTHROPOLOGY

Semester – I

July 2014-December 2014

M.A. / M.Sc. ANTHROPOLOGY

SEMESTER-I

PAPER I - Fundamentals of Social/ Cultural Anthropology

MM- 80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT – I

Anthropology and its relationship with other Social Sciences, Life Sciences, Medical Science & Humanities
Social Cultural Anthropology: Meaning, Scope and its main branches
Some basic concepts: Culture, Civilization, Society, Community, Social Institutions and Groups.

UNIT – II

Marriage: Concepts, A universal definition of Marriage, Typology and functions of Marriage.

Family: Concepts and functions, Origin and existing types of family.

Kinship: Kinship system and its importance in Social structure.

Kinship terminology: Classificatory and Descriptive.

UNIT – III

Economic organization: Concepts of Property, Concept of Primitive communism.

Stages of economy: collection, hunting, fishing, and pastoralism.

Cultivation: Shifting cultivation and Settled cultivation.

System of trade exchange: reciprocity, redistribution, barter and markets.

Primitive Law and Political organization: Concept of authority and leadership

UNIT – IV

Religion: Meaning and definition.

Anthropological approaches to the study of religion: Evolutionary, Psychological, Functional and Structural.

Animatism, Totemism and Bongaism.

Magic: Meaning, definition, function and types, Religion, Magic and Science.

Recommended Readings:

1. Barnouw, V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
2. Holmes, L. D. Anthropology: An Introduction, The Ronald Press Company, New York.
3. Sharma and Sharma. 1997. Anthropology, Atlantic Publishers and Distributors, New Delhi.
4. Hunter & Whitten. The Study of Cultural Anthropology, Harper & row Publishers, New York.
5. Moore, A. 1978. Cultural Anthropology, Harper & row Publishers, New York.
6. Kaplan, D. & Manners, R. A. Culture Theory, Prentice Hall of India Private Ltd., New Delhi.
7. Herskovitz, M. J. Cultural Anthropology, Oxford & IBH Publishing Co., New Delhi.
8. Mair, L. 1965. An Introduction to Social Anthropology, Clarendon Press, Oxford.
9. Majumdar, D.N. & Madan, T. 1986. An Introduction to Social Anthropology, National Publishing House, New Delhi.
10. Mishra, U. S. Samajik Sanskritik Manavshastra, Palka Prakashan, Delhi.
11. Shrivastava, A. R. N. Samajik Manav Vigyan Vivechan (in Hindi), Madhya Pradesh Hindi Granth Academy, Bhopal.
12. Evans-Pritchard, Social Anthropology.
13. Honnigman, J. Handbook of Social and Cultural Anthropology.
14. Fox, Robin. Kinship and Marriage.
15. Sahlins & Service. Evolution and Culture. The University of Michigan Press, Ann Arbor.
16. Barth, F. Ethnic Group Boundaries.
17. Barnet, H.G. Innovation. The Basis of Culture Change.
18. Rogers E.M. & Shoe Maker, F.F. Communication of Innovation.
19. Rogers, E.M. Diffusion of Innovation.
20. Rad-cliffe Brown, A.R. Structure and Function in Primitive Society.
21. Harris, Marvin. Cultural Anthropology.
22. Malinowsky, B.K. Scientific Theory of Culture and Other Essay.
23. Foster, G.M. Tradition, Cultures and Impact of Technological Change.
24. Dalton, George. Tribal and Peasant Economics: Readings in Economic Anthropology.
25. Kluckhohn, C. Mirror for Man.
26. Herskovits, M.J. Man and His Works.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-I

Paper II- Fundamentals of Physical/ Biological Anthropology

MM -80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT-I

History, Definition, Meaning and Scope of Physical Anthropology.

Relationship of Physical Anthropology with Physical, Biological and Medical Sciences.

History and Development of Physical Anthropology in India.

New Physical Anthropology.

UNIT-II

Theories of Organic Evolution: Lamarckism, Darwinism, Synthetic Theory.

Man's place in Animal Kingdom.

Primate behavior.

UNIT-III

Comparative anatomy of Man and Apes.

Hominid Evolution.

Erect posture and bipedalism.

Evolution of Teeth, Chin, Foot and Pelvis.

UNIT-IV

Biological concept of Race, Race formation, Criteria of Race.

Major races of the world.

Racial elements in Indian population.

Causes of human variation- Morphological, Serological and Genetic.

Recommended Readings:

1. Comas, J. 1960. Manual of Physical Anthropology, Springfield, Charles C. Thomas.
2. Sarkar, R. M. 1976. Fundamentals of Physical Anthropology. Blackie (India).
3. Das, B. M. 1985. Outlines of Physical Anthropology, Kitab Mahal, New Delhi.
4. Shrivastav, A. R. N. 1994. Sharirik Manav Vigyan (in Hindi), Gyandeeprakashan, Allahabad.
5. Barnouw, V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
6. Hooton, E. A. Up from the Ape, The Macmillan Co., New York.
7. Lasker, G.B. and Tyzzer, R.N. Physical Anthropology, Holt Rinechart & Winston, New York.
8. Shukla, B.R.K. and Rastogi, S. Physical Anthropology and Human Genetics: An Introduction, Palka Prakashan, Delhi.
9. Buettner-Janusch, J. Origins of Man, Wiley Eastern Pvt. Ltd. New Delhi.
10. Montagu, M.F.A. The Concept of Race, The Free Press, New York.
11. Montagu, M.F.A. An Introduction to Physical Anthropology, Charles C Thomas, Springfield Illinois.
12. Dobzhansky. Evolution, Genetics and Race. John Willey and Sons, New York.
13. Harrison, G.A., Weiner, J.S., Tanner, J.M. and Barnicot, N.A. Human Biology: An Introduction to Human Evolution, Variation And Growth, Clarendon Press, Oxford.
14. Ashley, Montague. Concept of Race.
15. Backer, P.T. & Weiner (eds.). Biology of Human Adaptability.
16. Bodmer and Cavalli Sforza. Genetics, Evolution and Man.
17. Cox P. Demography.
18. M. Ember and Ember. Anthropology.
19. Emery, A.E.H. Elements of Medical Genetics.
20. Harrison, G.A. and Boyce, J. The Structure of Human Population.
21. Mange and Mange. Basic Human Genetics.
22. Marrell. Evolution and Genetics.
23. Sarkar S.S. Aboriginal races of India.
24. Sahlins and Service. Evolution and Culture.
25. Simpson, G.G. The Meaning of Evolution.
26. Vogel, F. and Motulsky, A.C. Human Genetics Problems and Approaches.
27. Weiner and Lourie. Human Biology – A Guide to Field Methods.
28. Weiss, K.M. & Ballonoff, P.A. Demographic Genetics.
29. Williams B.J. Evolution and Human Origin
30. Wright, S. Evolution, Genetics and Population.

M.A. / M.Sc. ANTHROPOLOGY

SEMESTER-I

Paper III - Prehistoric Archaeology and Palaeo-Anthropology

MM -80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT – I

Introduction: Definition, Subject matter, Branches, Aims and Applications.

Framework of Archaeological Cultures.

Relationship with Other Branches of Anthropology, Earth Sciences, Physical sciences,

Life Sciences and Social Sciences.

UNIT – II

Geological Time Scale.

Pleistocene Epoch: Glacial-interglacial; Pluvial-Inter-Pluvial Climatic Cycles,

Impact on Cultural Development.

Climatic Markers: Moraines, Terraces, Sea-level Changes, loess, Soil, Dune & Fossils.

Tool Technology: Flaking (Primary & Secondary), Grinding and Polishing Techniques used during Stone Age.

Dating Techniques:

- (a) Relative Dating: Stratigraphy, River Terraces, Raised Sea-Beaches, Typo-technology, Fluorine Dating, Pollen Dating.
- (b) Absolute dating: Radio-active Carbon, Potassium-Argon, Uranium- Thorium, Dendrochronology, Thermoluminescence, Fission-Track & Obsidian Hydration.

UNIT – III

Lower Palaeolithic of Europe: Distribution, Chronology, Stratigraphy, Assemblage, Abbevillian, Acheulian, Associated Human Fossils .

Middle Palaeolithic of Europe: Distribution, Chronology, Stratigraphy, Assemblage, Traditions, Associated Human Fossils .

Upper Palaeolithic of Europe: Perigordian, Auregnasian, Solutrean, Magdalenian; Prehistoric Art (Home Art and Cave Art).

Mesolithic Culture of Europe: Azilean, Tardenoisean, Austerian, Maglemasean, Kitchen Midden, Campegnian.

UNIT – IV

Australopithecus Species: Discoveries, Distribution, Chronology, Salient features, Phylogeny.

Homo erectus: Discoveries, Distribution, Chronology, Salient features, Phylogeny.

Homo sapiens neanderthalensis: Discoveries, Distribution, Chronology, Salient features, Phylogeny.

Homo sapiens sapiens (Cro-Magnon, Chancelade, Grimaldi): Discoveries, Distribution, Chronology, Salient features, Phylogeny.

Recommended Readings:

1. Agrawal, D.P. & M.G. Yadava. 1995. Dating the human past.
2. Bhattacharya, D.K. 1977. Palaeolithic Europe.
3. Bordes, F. 1968. The Old Stone age. Weidenfeld and Nicolson.
4. Burkitt, M.C. 1969. Old Stone Age: Study of Palaeolithic Times.
5. Campbell, B. C. 1979. Humankind emerging, II edition.
6. Clark, W. E. L. 1964. The Fossil Evidence for Human Evolution, The University of Chicago Press, Chicago.
7. Coles, J. M. & E. S. Higgs. The Archaeology of early man. Faber and Faber.
8. Grazioli, P. Paleolithic Art.
9. Howell, W. Mankind in the making.
10. Jhoanson, D & E. Maitland. 1981. Lucy- The beginnings of humankind.
11. Knudson, S.J. 1978. Culture in retrospect: An introduction to Archaeology.
12. Oakley, K.P. 1972. Man the tool maker
13. Roe, Derek 1970. Prehistory: An introduction.
14. Sankalia, H.D. 1964. Stone age tools: their techniques, names and probable functions, Pune, Deccan College.
15. Sankalia, H.D. 1974. Prehistory and Protohistory of Early India and Pakistan.
16. Allchin and Allchin, 1982. The rise of civilization in India and Pakistan, Select Book Service Syndicate, New Delhi.
17. Zeuner, F.E. Pleistocene Period.
18. Agrawal, D.P. The Archaeology of India, Curzon Press.
19. Ashley, Montague. Physical Anthropology and Archaeology.
20. Barmown, Victor. Physical Anthropology and Archaeology, Illinois, The Dorse Press Home Wood.
21. Banerjee. Iron Age in India. Munshiram Manoharlal.
22. Brothwell D. & Higgs E. (ed.). Science in Archaeology. Thames and Hudson.
23. Budtzer, K.W. Environment and Archaeology.
24. Clark, D.L. Analytical Archaeology. Methuen and Co. Ltd.
25. Das, B.M. Outlines of Physical Anthropology. Kitab Mahal.
26. James, J. Hester, Introduction to Archaeology. Holt, Rinehart and Winston.
27. Michel, J.W., Dating Method in Archaeology. Seminar Press.
28. Sakalia, H.D., New Archaeology – Its Scope and Application to India, Ethnographic and Folk Culture Society.
29. Zeuner, F.E. Pleistocene Period. Hutchinson.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-I

Paper IV- Research Methods in Anthropology

MM -80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT – I

Field work tradition in Anthropology: covering all branches of Anthropology to gain holistic perspective.

Social research and Social survey.

Methods: Logical, Historical and Scientific methods.

Hypothesis: Sources, characteristics and Importance.

Ethnographic method.

UNIT – II

Research design: Aims, Objectives and Types.

Sources of Data: Primary and Secondary Sources.

Methods & Techniques of data collection- Primary data collection: Questionnaire, Interview, Schedule, Case study, Method, Audio-visual recording, Methods of observation and Geneology.

Secondary Data collection: Census, National Sample Survey, Models and Paradigms.

UNIT – III

Data: Definition and Characteristics.

Data collection: Choice of Suitable Technique.

Classification: Geographical, Chronological, Qualitative and Quantitative.

Tabulation: General, Special purpose & Machine Tabulation.

Analysis and Interpretation of Data.

Preparation of Report,

Graphic and Diagrammatic presentation of data.

UNIT – IV

Scope, utility and importance of Statistics in Anthropology.

Sampling: Random, Purposive, Stratified, Systematic and quota sampling.

Measures of Central Tendency- Mean, Mode and Median.

Recommended Readings:

1. Goode & Hatt. Methods in Social Research.
2. Young, P. V. Scientific Social Surveys and Research.
3. Danda, Ajit. Research Methodology in Anthropology, Inter- India, New Delhi.
4. Gupta, S. P. Statistics Methods.
5. Elhance, D. N. Practical Problems in Statistics, Kitab Mahal, Allahabad.
6. Levin, J. Elementary Statistics in Social Research.
7. Sarin, S.S. and Balchandani, M.K. Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
8. Fernandes & Tondon, Participatory Research.
9. Fisher, Michael. Application in Computing for Social Anthropologists, London, Routledge.
10. H. Russel. Bernard, Handbook of Methods in Cultural Anthropology, Altamira Press.
11. Kaplan, Abraham. The Conduct of Enquiry: Methodology for Behavioural Sciences.
12. Kassam & Mustafa. Participatory Research.
13. Madrigal, Lorena. Statistics for Anthropology.
14. Mukherjee, Neela. Participatory Rural Appraisal and Questionnaire Survey.
15. Pelto P.S. & Pelto G.H. Anthropological Research: the structure of inquiry. London, Cambridge University Press.
16. Renfrew, C. (ed.). The Explanation of Culture Change: Models in Prehistory. Duckworth.
17. Sankalia, H.D. Stone Age Tools, Families and Techniques, Pune, Deccan College.
18. Trigger, B.G. Beyond History the Methods of Prehistory. Holt, Rinehard and Winston.
19. Young, Pauline. Scientific Social Survey and Research.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-I

Lab Course I -Practicals in Craniology and Craniometry

MM –80

Description of Human Skull and its importance in biological anthropology.

Craniology and Forensic science.

Following Craniometric measurements has to be taken in at least 2 skulls.

Measurements

Maximum cranial length

Glabella-inion length

Nasion-inion length

Glabella-lambda length

Length of foramen magnum

Maximum Cranial breadth

Minimum frontal breadth

Maximum frontal breadth

Bi-auricular breadth

Greatest occipital breadth

Bi- mastoid breadth

Minimum breadth of skull

Breadth of foramen magnum

Basion bregma height

Auriculo bregmatic height

Calvarial height

Occipital chord

Outer bi-orbital breadth

Inner bi-orbital breadth

Bi-orbital breadth

Bizygomatic breadth

Bimaxillary breadth

Morphological facial height

Upper facial height

Inter orbital breadth

Orbital breadth, Orbital height

Nasal breadth

Nasal height

Length of nasal bone

Maxillo-alveolar length

Maxillo alveolar breadth

Palatal length

Palatal breadth

Palatal height

Bi-condylar breadth

Bigonial breadth

Symphysial height

Height of ramus.

Angles

Total profile angle

Nasal profile angle

Profile angle of nasal roof

Metopic angle, inclination angle of foramen magnum

Calvarial base angle

Bregma angle of Schwalbe

Mandibular angle.

Index

Cranial index

Facial index

Nasal index

Measurement on Craniograph

(At least on 2 skulls)

Calvarial height

Lambda calvarial height

Frontal perpendicular

Parietal perpendicular

Occipital perpendicular.

Recommended Readings:

- 1) Singh, S.P. Kinanthropometry
- 2) Ashley Montagu, M.F.A. Hand Book of Anthropometry. Charles. C. Thomas. Illinois.
- 3) Singh, I.P. Bhasin, M.K. Anthropometry. Bharti Bhawan, New Delhi.
- 4) Weiner, J.S. & Lourie. J.A. Human Biology: A Guide to Field Methods. I.B.P. Hand Book No. 9 Blackwell Scientific Publication, Oxford.
- 5) Mitra, M. 1990. Prayogik Manav Vigyan- Bhag –2. Madhya Pradesh Hindi Granth Academy (in Hindi).
- 6) Mitra, M. & Chaube, R. 2004. Prayogik Manav Vigyan (Sharirik) Bhag –2. Madhya Pradesh Hindi Granth Academy (in Hindi).

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-I

Lab Course II– Practicals in Osteology and Osteometry

MM- 80

Description of Human skeletal bones and its importance in biological anthropology. Osteology and forensic science.

Following **Osteometric** measurements has to be taken on bones.

CLAVICLE

Measurements

Maximum length

Vertical diameter in the middle

Sagittal diameter in middle

Girth in the middle

Breadths of curvature of shaft

Angles

Inner and outer

Indices

Caliber index

Cross section index

SCAPULA

Measurements

Anatomical breadth

Anatomical length

Length of Cranial border

Length of axillary border

Projective length of spine

Anatomical breadth of supra-spinous fossa

Anatomical breadth of infraspinous fossa

Length of Glenoid fossa

Breadth of glenoid fossa

Projective breadth of supraspinous fossa

Projective breadth of infraspinous fossa

Angles

Supraspinous angle

Infraspinous angle

Breadth-Length angle

Axillo-Spinal angle

Vertebral border angle

Indices

Scapular index

Supra spinal index

Infra spinal index

Marginal index

Length breadth index of glenoid fossa

HUMERUS

Measurements

Maximum length

Breadth of proximal epiphysis

Breadth of distal epiphysis

Least girth of shaft

Maximum transverse diameter of head

Maximum Vertical diameter of Head

Maximum Diameter in middle

Girth in middle of shaft

Minimum diameter in middle

Angles

Torsion angle

Capito-diaphysial angle

Condylodiaphysial angle

Indices

Caliber index

Cross-section index of shaft

Cross-section index of head

RADIUS

Measurements

Maximum length

Physiological length

Least girth of shaft

Transverse diameter of shaft

Sagittal diameter of shaft

Angles

Collo-diaphysial angle

Torsion angle

Indices

Caliber index

Cross section index of shaft

Curvature index

ULNA

Measurements

Maximum length

Physiological length

Least girth of shaft

Breadth of olecranon

Height of olecranon

Angles

Olecranon- coronoid angle

Joint axis angle

Indices

Caliber index

Cross-section index of shaft

Curvature index

FEMUR

Measurements

Maximum length

Trochanteric length

Sagittal diameter of middle of shaft

Physiological length

Transverse diameter of middle shaft

Girth of middle of shaft

Angles

Torsion angle,

Collo-diaphysial angle

Condylod diaphysial angle

Recommended Readings:

- 1) Singh, S.P. Kinanthropometry
- 2) Ashley Montagu, M.F.A. Hand Book of Anthropometry. Charles. C. Thomas. Illinois.
- 3) Singh, I.P. Bhasin, M.K. Anthropometry. Bharti Bhawan, New Delhi.
- 4) Weiner, J.S. & Lourie. J.A. Human Biology: A Guide to Field Methods. I.B.P. Hand Book No. 9 Blackwell Scientific Publication, Oxford.
- 5) Mitra, M. 1990. Prayogik Manav Vigyan- Bhag –2. Madhya Pradesh Hindi Granth Academy (in Hindi).
- 6) Mitra, M. & Chaube, R. 2004. Prayogik Manav Vigyan (Sharirik) Bhag –2. Madhya Pradesh Hindi Granth Academy (in Hindi).

Pt. Ravishankar Shukla University, Raipur

M.A./M.Sc. ANTHROPOLOGY

Semester – II

January 2015- June 2015

M.A./M.Sc. ANTHROPOLOGY
SEMESTER-II
Paper I – Indian Archaeology

MM-80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT-I

Historical development of Prehistoric Archeology.
Framework of Archaeological Cultures

Terminology Issues

Expoloration and Excavation Techniques.

UNIT-II

Lower Paleaeolithic cultures of India: Distribution, Stratigraphy, Chronology, Tool Kit, Soanian & Madrasian Traditions, Development & Associated fossils.

Middle Paleolithic Cultures of India: Distribution, Stratigraphy, Chronology, Tool Kit,
Development & Associated fossils.

Upper Paleolithic Cultures of India: Distribution, Chronology, Assemblage, Art (Rock Art & Cave Art), Development

UNIT-III

Mesolithic Cultures of India: Discoveries, Chronology, Tool kit, Stratigraphy, Development, Lifeways, Burial Practices, Associated Flora and Fauna.

Neolithic Cultures of India: Neolithic Revolution, Discoveries, Chronology, Assemblage, Emergence of Human settlements, Regional Variations.

UNIT-IV

Chalcolithic Cultures of India: Distribution, Chronology, Assemblage, Traditions, Lifeways

Indus Civilization: Discoveries, Distribution, Chronology, Town-planning, Religion, Trade, Origin & Decay Theories.

Megalithic Culture of India: Distribution, Chronology, Assemblage, Types, Living Megalithic Traditions.

Recommended Readings:

1. Agrawal, D.P. The Archeology of India.
2. Allchin and Allchin, 1982. The Rise of Civilization in India and Pakistan, Select Book Service Syndicate, New Delhi.
3. Bhattacharya, D.K. 1987. Pre-historic Archaeology: A comparative study of human succession.
4. Bhattacharya, D.K. 1994. Outline of Indian Prehistory.
5. Pandey, J. N. 2000. Puratatva Vimarsh (in Hindi)
6. Misra, V. N. & M. S. Mate 1995. Indian Prehistory; 1964.
7. Choubey, R. Puratatvik Manavvigyan (in Hindi)
8. Sankalia, H. D. 1974. Pre and Protohistory of India and Pakistan.
9. Varma, R.K. & N. Varma, 2001. Puratatva Anushilan
10. Wheeler, R.E.M. 1959. Early India & Pakistan.

M.A./M.Sc. ANTHROPOLOGY
SEMESTER-II
Paper II - Fundamentals of Human Genetics

MM –80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT-I

History, Definition and Scope of Human Genetics.

Branches of Human Genetics.

Concept of Gene.

Elementary principles of Genetics.

Structure and function of DNA, RNA and Proteins.

Genetic code.

UNIT-II

Cell Division- Mitosis and Meiosis.

Mendelism. Application of Mendel's theory in man.

Methods of studying human heredity: Pedigree method, Twin method, Linkage Studies.

UNIT-III

Multiple alleles and blood groups

Inheritance of ABO, MN and Rh blood groups.

Compatible and Incompatible mating.

Concept of gene frequencies.

UNIT-IV

Autosomal Dominant and Recessive inheritance.

Sex-linked, Sex-limited and Sex-influenced inheritance.

Polygenic inheritance.

Recommended Readings:

1. Curt Stern. 1968. Principles of Human Genetics. Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1 (India).
2. Winchester, A. M. 1967. Genetics, Oxford & IBH Publishing Co.
3. Bhasin, V. 1994. People, Health and Disease: The Indian Scenario, Kamla- Raj Enterprises, Delhi.
4. Bhasin, M., K., Walter, H. and Danker-Hopfe, H. 1992. The Distribution of Genetical, Morphological and behavioural Traits among the Peoples of Indian Region, Kamla- Raj Enterprises, Delhi.
5. Bhamrah and Chaturvedi, A Text Book of Genetics.
6. Mange and Mange, Basic Human Genetics.
7. Rothwell, N.V., Human Genetics.
8. Harrison et al. Human Biology.
9. Ashley Montagu, Concept of Race.
10. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and human Genetics.
11. Dalela and Verma, T Text Book of Genetics.
12. Bodmer & Cavalli Sforza, Genetics, Evolution and Man.
13. King and Stansfield, A Dictionary of Genetics.
14. Brudette, W.J., Methodology in Human Genetics.
15. Yunis, J.J. (Ed.), Biochemical Methods in Red Cell Genetics.
16. Harris, H., Human Biochemical Genetics.

M.A./M.Sc. ANTHROPOLOGY
SEMESTER-II
Paper III - Medical Anthropology

MM-80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT – I

1. Meaning and scope, changing concepts of health and disease, of culture and lifestyle in relation to health and disease
- 2.. Ethno medicine, magico-religious practices, indigenous medical systems and medical practitioner ethno botany
3. Plural systems of medicine traditional system as part of culture and life style Ayurved, Unani Naturopathy. Tibetan, Chinese basic principles, Ressurgence of traditional medical systems in the west and India

UNIT- II

1. Epidemiology basic principles: epidemiology of common communicable and non-communicable diseases, Malaria , T.B. ,Leprosy, STD, Diabeties, Cancer and Cardiovascular diseases, mental health, National disease control programmes)

UNIT –III

1. Medical statistics measurement of morbidity and mortality rates incidence and other statistics.
2. Health promotion and health programmes, nutrition, RCH , family welfare, health education ageing (Peoples perspectives to be focused)
3. Health and environmental water pollution, air pollution, noise pollution.

UNIT –IV

1. National health policy, historical review, Health care delivery in india rural and urban, Response of the people.
2. Voluntary efforts in community health and development. Some case studies of community participation.
3. Anthropological approach to health systems research, uses of an anthropological research method and evaluation judicious mix of qualitative and quantitative research methods.

Recommended Readings:

1. Medical Anthropology: Foster, George
2. Handbook of Medical Anthropology: Freeman, H.E. et al
3. Culture, Disease and Healing: Landy, D.
4. Culture, Health and Illness: Helman Cecil, Wright Bristol, 1985
5. Folk illness and Ethnomedicine: Banerjee B.G. and R. Jalota
6. Applied Anthropology in Medicine: Coudil, W.
7. Social Anthropology and Medicine: Loudon, J.B.
8. Doctors and Society: Madan T.N.
9. Forensic Anthropology: Steward T.D.
10. Crime and Detection: Symans, J.
11. Methods in Forensic Anthropology: Nicoles
12. Forensic Science and laboratory: Turner
13. Practical Finger printing: Bridges
14. Finger, Palm and Sole Prints: Chatterjee
15. Methods in Forensic Science: Lundquist, F. and A.S. Curry
16. Modern Trends in Forensic Medicine: Ment
17. Anthropology Part-I: Jha and Baranwal
18. Harold Cummins and Charles Midlo. 1961. Finger Prints, Palms and Soles: An Intoduction to Dermatoglyphics, Dover Publications, New York.
19. Medicine, Magic and Religion, Rivers, W.H.R.
20. The Cultural Frontiers of Health, Hasan, K.
21. Traditional Medicine and Health Care Coverage (WHO), Bannermann et al.
22. Folk and Modern Medicine, Kakar, D.N.
23. Asian Medical System, Leslie, C. (Ed.).
24. People's Health in People's Hand, Anti, A.H. & Bhatia
25. Women's Autonomy, Education and Reproductive Health, Jajeebhoy, S.
26. Ministry of Health and Family Welfare, National Health Policy
27. W.H.O., World Health Reports.
28. National Institute of Health & Family Welfare, Maternal and Child Welfare
29. Health, Culture and Community, Paul, B.D.
30. Cultural Patterns and Technological Change, Mead, M.
31. Culture, Health and Disease, Read, M.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-II

Paper IV - Biostatistics and Computer Applications

MM -80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT-I

Measures of Dispersion: Range, Mean, Deviation, Variation, Variance and Standard Deviation.

Moment, Skewness and Kurtosis.

Correlation: Simple correlation, Grouped and ungrouped data, Karl Pearson's Coefficient of correlation.

UNIT-II

Test of Significance: Chi-square Test and Goodness of Fit. T-test, F-Test, Regression analysis.

Population Study: Vital Statistics, Fertility and Fertility rates, Mortality and Mortality rates, Morbidity and Morbidity rates and Migration and Migration rates.

Infant Mortality.

UNIT-III

Introduction to Computers: Types of Computers, Computer hardware and software.

DOS, Windows: Features, Desktop, Taskbar, Start Menu, My Computer, Recycle bin.

UNIT-IV

MS Office: MS Word, MS Excel, Power Point, Outlook Express.

SPSS (Evolution version).

Internet.

Recommended Readings:

1. Goode and Hatt. Methods in Social Research.
2. Gupta, S.P. Statistics Methods.
3. Levin, J. Elementary Statistics in Social Research.
4. Young, P.V. Scientific Social Service and Research.
5. Sarin, S.S. and Balchandani, M.K. Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
6. Summar, M. Computers: Concepts and Uses.
7. Wardlaw, A.C. Practical Statistics for experimental biologists.
8. Zar, J.H. Biostatistical Analysis.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-II

Lab Course I – Practicals in Archaeology

MM –80

- 1) Tools: Typology, Functions & Technology.
- 2) Sketching and description of representative Prehistoric tools:
 - (a) Stone tools
 - (b) Bone tools
 - (c) Pottery
- 3) Site Types: Kill sites, Habitation sites, Industry sites, Quarry sites, Burial sites.
- 4) Visit to museum, Excavation site, River Terraces.
- 5) Conservation & Preservation of Antiquities.

Recommended Readings:

1. Mitra, Mitashree & Ramesh Choubey. Prayogik Manavvigyan (in Hindi).
2. Oakley, K.P. 1972. Man the Tool Maker.
3. Reddy, Rami. Tool techniques in Prehistory.
4. Sankalia, H. D. 1964. Stone age tools: Their techniques, names & probable functions.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-II

LAB_COURSE– II : Compulsory Fieldwork

MM –80

The course is designed to make the student carry out field work in the planning of project proposal, data collection, data analysis and report writing under the guidance of teacher assigned by the Head of the department using conventional and scientific methods at various stages of the field dissertation. The course aims at capacity building of the student in taking up independent research programmes. The students are required to work with the community for a period of 7-10 days in the village.

1. Field work tradition in anthropology.
2. Preparation for fieldwork: physical, psychological and academic.
3. Rapport building - initial contact.
4. Review of data collection methods (as per Research method).

Two typed copies of analyzed data is to be submitted in the department in the form of a Field work Report

Pt. Ravishankar Shukla University, Raipur

M.A./M.Sc. ANTHROPOLOGY

Semester – III

July 2014- December 2014

**M.A./M.Sc. ANTHROPOLOGY
SEMESTER-III**

Paper I - Applied Anthropology (Group - A & - B)

MM- 80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT- I

Meaning and Scope of Applied Biological Anthropology.

Anthropology of Sports.

Nutritional Anthropology.

Designing of defence equipments.

Defence Services.

UNIT- II

Applications of Human Genetics: Medico - Legal cases, Eugenics.

Genetic screening, Genetic counseling, Genetic engineering.

Human Genomics & its applications.

UNIT –III

Meaning & Scope of Applied Social Anthropology.

Applied & Action anthropology.

Applications of Anthropological theory and methodology in the field of tribal development.

UNIT- IV

Applied anthropology in industry.

Applied anthropology in education.

Applied anthropology in public health

National health programme.

Recommended Readings:

1. Kroeber. Anthropology Today.
2. Curt Stern. 1968. Principles of Human Genetics. Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1 (India).
3. Steine. Biosocial Genetics.
4. Karp, E. Genetic Engineering.
5. Bodmer and Cavalli-Sforza. Genetics of Human Populations.
6. Strachan, T. and Read, A.P. 1999. Human Molecular Genetics. BIOS Scientific Publishers Ltd, Oxford. (574.8732, STT H, 84237).
7. Backer, PT and Weiner (Eds), The Biology of Human Adaptability.
8. Beal, Virginia, Nutrition and the Life Span
9. Beutler, E., Red Cell Metabolism: A Manual of Biochemical Methods
10. Brock and Mayo, The Biochemical Genetics of Man
11. Craig, Human Development
12. Burdette, WJ, Methodology in Human Genetics
13. Emery, AEH, Elements of Medical Genetics
14. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
15. Forbes, GB, Human Body Composition
16. Sodhi, HS, Sports Anthropology
17. Willigt, JV, Applied Anthropology: An Introduction
18. Crow, J.F. & Kimura, M., An Introduction to Population Genetic Theory.
19. Stern, C., Principles of Human Genetics.
20. Winchester, A.M., Human Genetics.
21. Giblett, E.R., Genetics Markers in Human Blood.
22. Bhende and Kanitkar, Principles of Population Studies.
23. Cox, Peter, Demography.
24. Houser & Duncan, The Study of Population.
25. Shryock and Shryock, Methods and Materials of Demography
26. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and Human Genetics An Introduction.
27. McKusick, V.A., Human Genetics.
28. Li, C.C., Human Genetics
29. Malhotra, K.C. & ISHG, Calcutta, Statistical Methods in Human Population Genetics, IBRAD, ISI
30. Wright, S., Evolution and Genetics of Population
31. Harrison, G.A. & A.J. Boyce, Structure of Human Population.
32. Stanfield, W.D., Theory and Problems of Genetics.
33. Bhamarh, H.S. & Chaturvedi, C.M., A Textbook of Genetics.
34. Rieger, R. et al., Glossary of Genetics – Classical and Molecular
35. Mange, J.E. & Mange, A.P., Basic Human Genetics.
36. Rothwell, N.V., Human Genetics.

**M.A./M.Sc. ANTHROPOLOGY
SEMESTER-III
GROUP - A : PHYSICAL ANTHROPOLOGY**

Paper II - Advanced Human Biology

MM-80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type or short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining questions will be unit wise having internal choice within each unit.

UNIT-I

Gene expressivity: Lethal genes, Sub-lethal genes, modifying genes, Co-dominance, Penetrance in man.

Inheritance of dermatoglyphic traits

Sex determination in man.

UNIT-II

Probability.

Hardy-Weinberg Equilibrium and its Applications.

Polymorphism: Transient and Balanced.

Concept of Gene Pool and Gene Frequency.

Mating Pattern: Random mating, Assortative mating.

UNIT- III

Human Chromosomes, Chromosome Karyotype – Banding Techniques.

Numerical and Structural Chromosomal abnormalities

Inborn errors of Metabolism: G6PD Deficiency, PKU, Alkaptonuria.
Genetic Counseling and pre-natal diagnosis.

UNIT- IV

Occurrence of Mutation: Mutation Rate- Direct and Indirect Method.

Selection in Human Population

Inbreeding with Pedigree

Coefficient of Inbreeding.

Genetic hazards of radiation

Recommended Readings:

1. Crow & Kimura. 1970. An Introduction to Population Genetics Theory, Harper & Row Publishers, New York.
2. Curt Stern. 1968. Principle of Human Genetics, Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1 (India).
3. Li, C. C. Population Genetics, Chicago University Press, Chicago.
4. Baker, P.T. & Weiner (Eds.), The Biology of Human Adaptability.
5. Beal, Virginia, Nutrition and the Life Span.
6. Beutler, E., Red Cell Metabolism: A Manual of Biochemical Methods.
7. Bouge, D., Principles of Demography.
8. Brock and Mayo, The Biochemical Genetics of Man.
9. Burdette, W.J., Methodology of Human Genetics.
10. Craig, Human Development.
11. Dixit, M., Human Nutrition Principles and Applications in India.
12. Emery A.E.H., Elements of Medical Genetics.
13. Eveleth, P.B. & Tanner, J.M., Worldwide variations in Human Growth.

M.A./M.Sc. ANTHROPOLOGY
SEMESTER -III
GROUP - A : PHYSICAL ANTHROPOLOGY

Paper III – Human Growth and Nutrition

MM- 80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining question will be unit wise having internal choice within each unit.

UNIT – I

Human growth and development: Pre-natal and Post-natal growth, infancy, Childhood, adolescence, adulthood, senility.
Human growth curves.

Basic methods of growth studies - Cross-sectional, Longitudinal, Mixed Longitudinal.

UNIT – II

Factors affecting growth: Heredity, Environment & hormonal.

Concept of age- chronological, skeletal, dental, morphological.

UNIT – III

Nutrition: Basic terms and concepts.

Concept of Balanced Diet, malnutrition, under nutrition, overnutrition, obesity etc.

Special problems related to growth and nutrition growth at risk; infants, pregnant and lactating mothers, old age problems, birth weight variations; abnormal growth failure.

Evaluation of nutritional status through Anthropometric and Clinical signs of malnutrition.

UNIT – IV

Growth programmes ANP, ICDS, SNP, Mid-day meal programme; Vitamin-A prophylaxis programme, Anemia prophylaxis programme, Goiter control programme, Nutritional deficiency diseases: Nicotinic acid deficiency, Vitamin-C, Vitamin-D deficiency.

Problem of Malnutrition, morbidity and mortality in India.

IMR. Role of maternal education, Immunization programme in India.

Recommended Readings:

1. Tanner, J. M. 1962. Growth at Adolescence, Blackwell Scientific Publications, Oxford.
2. Lowrey, G. H. 1978. Growth & development of children, Year book Medical Publishers, Chicago – London.
3. Swaminathan, M. 1985. Essentials of Food and Nutrition, The Bangalore Printing and Publishing Co. Ltd.
4. Gopalan, C., Rama Sastri, B., V. & Balasubremanian, S., C. 2002. Nutritive value of Indian foods, National Institute of Nutrition, ICMR, Hyderabad.
5. Parasmani dasgupta and Roland Hauspie , 2001. Perspectives in Human Growth, Development and Maturation, Kluwer Academic Publishers, London.
6. Marshall, W. A. 1977. Human Growth and its Disorders, Academic Press, London.
7. Harrison, G.A., Weiner, J.S., Tanner, J.M. and Barnicot, N.A. Human Biology: An Introduction to Human Evolution, Variation And Growth, Clarendon Press, Oxford.
8. Tanner, J.M., Fetus into Man.
9. Jelliff, D.B., Community Nutritional Assessment with Special Reference to Less Developed Countries.
10. Dixit. Human Nutrition: Principles and Applications in India.
11. Shanti, G. Nutrition and Child Care: A Practical Guide.
12. B. Srilaxmi, Nutrition Science.
13. Margart Schay, Nutrition.
14. Rao, V.K.R.V. Food Nutrition and Poverty.
15. Nelson, A Text Book of Pediatrics
16. Garrow, J.S. and James, W.P.T: Human Nutrition and Dietetics.
17. Swaminathan, M., Essentials of Food and Nutrition: Applied Aspect.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - A : PHYSICAL ANTHROPOLOGY

Paper- IV Molecular Genetics

MM- 80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining question will be unit wise having internal choice within each unit.

UNIT –I

Nucleic acid structure, Chemical and physical properties of nucleic acids, spectroscopic and thermal properties of nucleic acids.

DNA organization in chromosomes, DNA structure, DNA replications.

RNA structure, Gene transcription in eukaryotes, Expression of eukaryoteic protein-coding genes, Genetic code and Protein synthesis.

UNIT-II

Techniques in Molecular Genetics, Recombinant DNA technology: Restriction enzymes, Nucleic acid hybridization, DNA cloning, DNA sequencing, Polymerase chain reaction (PCR), Southern blot, Northern and Western blot, In situ hybridization, Labelling nucleic acid probes, Transgenic organisms, DNA Sequencing and fingerprinting.

UNIT-III

DNA mutation and repair, Repetitive DNA, Gene mapping, Physical mapping, Genomic imprinting.

UNIT-IV

Application of Genomic Technology: RFLP (Restriction fragment length polymorphism), VNTR (Variable number tandem repeat), Microsatellite repair polymorphism, Application in forensic sciences, Human genome project, Prenatal diagnosis and Genetic Counselling.

Recommended Readings:

1. Strachan, T. and Read, A.P. 1999. Human Molecular Genetics. BIOS Scientific Publishers Ltd, Oxford. (574.8732, STT H, 84237).
2. Jackson, M., Strachan, T. and Dover, G. 1996. Human genome Evolution. BIOS Scientific Publishers Ltd., Oxford. (573.2, JAM H, 79134).

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - A : PHYSICAL ANTHROPOLOGY

Lab Course I – Practicals in Applied Biological Anthropology

MM- 80

1. Collection of blood specimens.
2. Preparation of Hemolysates and serum & their storage.
3. Preparation & identification of Heme in Crystals.
4. Laboratory examination of blood and blood stains for criminal detection: Preliminary test, confirmatory test: Tiechmann test, Takayama test.
5. Techniques of blood grouping: ABO blood group system Rh, blood group system & MN blood group system. Personal Identification by blood grouping.
Calculation of gene frequencies.
6. Test of ABH saliva secretion.
7. Test of Hemoglobin determination in human blood.
8. Test for Sickle cell hemoglobin.
9. Test for Colour blindness P.T.C. taste sensitivity.
10. Examination of R.B.C. in Human Blood.
11. Examination W.B.C. in Human Blood.
12. Dermatoglyphics: Analysis of finger, palm, sole and toe prints
13. Isolation of DNA from human blood and personal identification by DNA markers. .

NOTE: Five specimens to be analyzed by each student in the above-mentioned traits unless stated otherwise.

Recommended Readings:

1. Race, R. R. & Sanger, R. 1968. Blood group in man. Blackwell Scientific Publications, Oxford. (612.11825, RAR).
2. Kathleen E. Boormen and Barbara E. Dodd. An Introduction to Blood group Serology (612.11825, BOK).
3. Bhasin, M. K. and Chahal, S. M. S. 1996 . A Laboratory Manual for Human blood Analysis, Kamla Raj Enterprises, Delhi.
4. Shrivastava, B. K. 1983. A Manual of Practical Physiology, Samit Medical Publications, Patna.
5. Dacie, J. V. and Lewis, S. M. 1991. Practical haematology, 5th edition, J. and A. Churchill, Livingstone.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - A : PHYSICAL ANTHROPOLOGY

Lab Course II - Practical in Growth, Nutrition & health & Physiology

MM- 80

Human Growth & Nutrition:

Techniques of taking skinfold measurement: Biceps, Triceps, Sub-scapular, Supra-iliac.

Body proportions.

Nutritional Anthropometry: Ht/Age, Wt/Age, Wt/Ht.

Body Composition

Somatotyping

Detection of nutritional status on the basis of body measurements

Physiology:

Examination of Pulse rate

Determination of Blood Pressure

Determination of Vital Capacity

Hand Grip

Recommended Readings:

1. Jelliffe, D. B. & Jelliffe, E. F. B. Nutrition & Growth, New York, Plenum.
2. Swaminathan, M. 1985. Essentials of Food and Nutrition, The Bangalore Printing and Publishing Co. Ltd.
3. Gopalan, C., Rama Sastri, B., V. & Balasubramanian, S. C. 2002. Nutritive value of Indian foods, National Institute of Nutrition, ICMR, Hyderabad.
4. Falkner, F. & Tanner, J. M. Human Growth. Vols. I, II & III, Plenum Press, New York.
5. Jelliffe, D. B. The Assessment of the nutritional status of the community, WHO, Geneva.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

Paper I - Applied Anthropology (Group A & B)

MM- 80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining question will be unit wise having internal choice within each unit.

Unit I

Meaning and Scope of Applied Biological Anthropology.

Anthropology of Sports.

Nutritional Anthropology.

Designing of defence equipments.

Defence Services.

Unit II

Applications of Human Genetics: Medico - Legal genetics, Eugenics, Forensic applications.

Genetic screening, Genetic counseling, Genetic engineering.

Human Genomics & its applications.

UNIT III

Meaning & Scope of Applied Social Anthropology.

Applied & Action anthropology.

Application of Anthropological theory and methodology in the field of tribal development.

UNIT IV

Applied anthropology in industry.

Applied anthropology in education.

Applied anthropology in public health.

National health programmes.

Recommended Readings:

1. Kroeber. Anthropology Today.
2. Curt Stern. 1968. Principles of Human Genetics. Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1 (India).
3. Steine. Biosocial Genetics.
4. Karp, E. Genetic Engineering.
5. Bodmer and Cavalli-Sforza. Genetics of Human Populations.
6. Strachan, T. and Read, A.P. 1999. Human Molecular Genetics. BIOS Scientific Publishers Ltd, Oxford. (574.8732, STT H, 84237).
7. Backer, PT and Weiner (Eds), The Biology of Human Adaptability.
8. Beal, Virginia, Nutrition and the Life Span
9. Beutler, E., Red Cell Metabolism: A Manual of Biochemical Methods
10. Brock and Mayo, The Biochemical Genetics of Man
11. Craig, Human Development
12. Burdette, WJ, Methodology in Human Genetics
13. Emery, AEH, Elements of Medical Genetics
14. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
15. Forbes, GB, Human Body Composition
16. Sodhi, HS, Sports Anthropology
17. Willigt, JV, Applied Anthropology: An Introduction
18. Crow, J.F. & Kimura, M., An Introduction to Population Genetic Theory.
19. Stern, C., Principles of Human Genetics.
20. Winchester, A.M., Human Genetics.
21. Giblett, E.R., Genetics Markers in Human Blood.
22. Bhende and Kanitkar, Principles of Population Studies.
23. Cox, Peter, Demography.
24. Houser & Duncan, The Study of Population.
25. Shryock and Shryock, Methods and Materials of Demography
26. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and Human Genetics An Introduction.
27. McKusick, V.A., Human Genetics.
28. Li, C.C., Human Genetics
29. Malhotra, K.C. & ISHG, Calcutta, Statistical Methods in Human Population Genetics, IBRAD, ISI
30. Wright, S., Evolution and Genetics of Population
31. Harrison, G.A. & A.J. Boyce, Structure of Human Population.
32. Stanfield, W.D., Theory and Problems of Genetics.
33. Bhamrah, H.S. & Chaturvedi, C.M., A Textbook of Genetics.
34. Rieger, R. et al., Glossary of Genetics – Classical and Molecular
35. Mange, J.E. & Mange, A.P., Basic Human Genetics.
36. Rothwell, N.V., Human Genetics.

**M.A./M.Sc. ANTHROPOLOGY
SEMESTER-III
GROUP - B : SOCIAL ANTHROPOLOGY**

Paper II – Theory and Methods in Social-Cultural Anthropology

MM- 80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining question will be unit wise having internal choice within each unit.

UNIT-I

Evolutionary School of thought: Classical & Neo-evolutionism: contributions made by Morgan, Tylor, Leslie White, Julian Steward.

Diffusionists School of thought: Elliot Smith, Freidrich Ratzel, Graebner, Father Wilhems Schmidt.

American Diffusionism.

Culture Area approach-Clark Wissler, A.L. Kroeber

UNIT-II

Functional School of thought: B. Malinowski.

Structural-Functionalism: Redcliffe-Brown, Evans-Pritchard, Mayer Fortes.

Social Organization: Raymond Firth

Psychological Anthropology: Culture and Personality School of thought – Ruth Benedict, Margaret Mead, Linton Kardiner and Cera-du-Bois

UNIT-III

Historical Particularism: Franz Boas

Philosophical anthropology: Concept of Cultural Relativism- Franz Boas, Herskovits.

Historical and Dialectical Materialism: Marx and Angeles.

UNIT-IV

“Primitive” as a conceptual model in Anthropological research.

Emic-Etic paradigms.

Ethnographic method for policy planning and intervention.

Synthesizing micro and macro paradigms.

Dilemma of “We” and “They” in research.

Recommended Readings:

1. Jha, M. Manavshastriya vichardhara- Ek Parichaya. (in Hindi).
2. Shrivastava, A.R.N. Sanskritik Manav vigyan – Siddhanta aur Uplabdhiyan ((in Hindi).
3. Harskovitz, M.J. Sanskriti ki pristhabhumi (in Hindi).
4. Muthal, S. Samajik Manav Vigyan- Saidthantik Vyavahar (in Hindi).
5. Harris, M. Rise of Anthropological Theory. Routledge and Kegan Paul, London.
6. Malinowski, B. Scientific theory of culture and other essays.
7. Evans-Pritchard. A History of Anthropological Thought.
8. Bidney, David, Theoretical Anthropology, New York, Colombia University press.
9. Erickson, Paul, Anthropological Lives: Biographies of Eminent Anthropologists, New Delhi, Reliance.
10. Sahlins & Service, Evolutions and Culture.
11. Schneider et al., Symbolic Anthropology: A Reader in the Study of Symbols and Meanings.
12. Turner, Roy, Ethnomethodology.
13. Douglas, Marry, Cultural Bias.
14. Gerttaz, Clifford, The Interpretation of Culture.
15. Ingram, John, Psychological Anthropology Reconsidered.
16. Manganaro, Marc, Modernist Anthropology: From Fieldwork to Text.
17. Nadel, S.F., The Foundations of Social Anthropology
18. Manners, R.A. & David Kaplan (Eds.), Theory in Anthropology.
19. Levis-Strauss, Structural Anthropology.
20. Malinowsky, Scientific Theory of Culture and Other Essay.
21. Redfield, R., Human Nature and the Study of Society.
22. Tyler, Stephen (Ed.), Cognitive Anthropology.
23. Redfield, Robert, Peasant Society and Culture.
24. Steward, Julian H., Contemporary Change in Traditional Society.
25. Moore, The Future of Anthropological Knowledge.
26. Hastrup, A Passage to Anthropology.

**M.A./M.Sc. ANTHROPOLOGY
SEMESTER-III
GROUP - B : SOCIAL ANTHROPOLOGY
Paper III - Indian Anthropology and Museology**

MM – 80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining question will be unit wise having internal choice within each unit.

UNIT – I

Unity and diversity in Indian society and culture: linguistic, political, ethnic, communal and religious tensions and conflicts, socio-cultural change: Indigenous processes – Sanskritization, Parochialisation- Universalization. Indian Civilization anthropological perspectives –N.K. Bose, L.P. Vidyarthi.

UNIT – II

Social Structure: Caste System – definition and criteria of caste system, Varna and Caste.

Great tradition and Little tradition.

Growth of Anthropology in India.: Contributions of the following anthropologists- S.C. Roy, D.N. Majumdar. S.C. Dube.

UNIT – III

History of Museum with special reference to India.

The role, importance & primary functions of Museum in the historical and social perspective.

The role of Anthropology in the Museum.

UNIT IV

Museum Techniques.

Display of proto-historic, pre-historic and ethnographical collection.

Conservation & preservation of Anthropological Museum specimens.

Recommended Readings:

1. Allchin, B. & Allchin, R. The Rise of civilization in India and Pakistan, Cambridge University Press
2. Karve, Irvati. Hindu Society- An interpretation.
3. Mandel boum, D. Society in India.
4. Marriot, M. Village India – Studies in the Little Community.
5. Singh, K. People of India – An Introduction. Anthropological Survey of India.
6. Leach, E.R. Aspects of caste in South India, Ceylon and North- West Pakistan.
7. Singer, M. When a Great Tradition Modernizes.
8. Srinivas M. N. Social change in modern India.
9. Nadeem Hasnain. Indian Anthropology.
10. Jha and Baranwal. Indian Anthropology.
11. Basu, T. M. Indian Museum Movement, A. K. Banerjee 89, Mahatma Gandhi Road, Calcutta – 7.

12. Zeheer M. Museum Management, Ram Advani Book.
13. Aiyppan, A. & Satyamurthy, S. T. Handbook of Museum Technique, Govt. of Madras Publication, Gupta Brothers Vishakhapatnam.
14. Markham, S. F. & Hargreaves, H. The Museum of India.
15. Ghosh, D. P. Problems & Trends in Museology
16. Choudhary, J. The Ethnographical collection & their display.
17. Blanderleith, N. J. The Conservation & Antiquities of works and Art.
18. UNESCO (Pub.) A Quaterly Review, Ministry of Education & Social welfare Museum.

19. Agnihotri, V. 2003. Manav aur uski. Bhotik Sanskriti (in Hindi), K.K. Publications, Allahabad.
20. Karve, Irvati, Kinship organization in India.
21. Sankalia, H.D., Pre and Proto History of India and Pakistan, Pune, Deccan College.
22. Vidyarthi, L.P. Sacred Complex of Kashi, A Microcosm of Indian Civilization, New Delhi, Concept Publication.
23. Haimendorf, C., Tribes of India, the Struggle for Survival.
24. Singh, K.S., Tribal Society in India.
25. Dube, S.C., India's Changing Villages.

M.A./M.Sc. ANTHROPOLOGY
SEMESTER-III
GROUP - B : SOCIAL ANTHROPOLOGY
Paper IV – Tribal Development

MM – 80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining question will be unit wise having internal choice within each unit.

UNIT – I

Definition of Tribe, Scheduled Tribe and Primitive Tribal Groups.
Classification and characteristics of tribal regions.
Racial and linguistic classification of tribes.
Impact of civilized societies on tribal languages and traditions.
History of tribal development in India with special reference to Chhattisgarh.

UNIT – II

Indian Constitution- Safeguards and Provisions for scheduled tribes: Socio-cultural, Economic, Educational, Political and Services etc.
Administration of Scheduled Areas (Fifth Schedule).
Tribal Areas (Sixth Schedule)

UNIT – III

Planning and development: Scheduled Tribes in Five Year Plans.
Strategies of tribal development : Special Multipurpose Plans, Tribal Sub – Plans, Integrated Tribal development.
Tribal Policies, Impact of Industrialization and Urbanization.
History of Tribal Movement in India with special reference to Chhattisgarh,

UNIT IV

Tribal Economy and Forests- Forest Policy and tribes, Joint forest management.

Land and Agriculture: Land rights, subsistence agriculture.

Allied economic activities: Fishing, Hunting, Pastoralism, Cottage industries.

Recommended Readings:

1. Chaudhary, Bhudadeb (Ed.). Tribal Development in India.
2. Elwin, V.A. Philosophy for NEFA.
3. Haimendorf. The Tribes of India: Struggle for survival.
4. Shara B.D. Basic Issues in tribal Development.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - B : SOCIAL ANTHROPOLOGY

Lab Course I – Practicals in Museology and Material Culture

MM-80

Classification of Museums

Techniques of display of artifacts in Museum.

Techniques of preservation and conservation of different Museum specimens/ cultural implements.

Material culture of tribes of Chhattisgarh: Gond, Baiga, Kamar, Binjhwar etc.

A student has to draw and describe the characteristic features of at least about two implements of each of the following categories: (Implements be preferably selected from material culture of the tribes of Chhattisgarh)

- A) Housing patterns
- B) Agricultural implements
- C) Fishing, Hunting, Fire Appliances.
- D) Costumes and dress
- E) Ornaments
- F) Musical instruments
- G) Masks

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - B: SOCIAL ANTHROPOLOGY **Project Work on Impact assessment of** **Disaster and framing Rehabilitation project**

MM-70

In semester III students of group "B" are required to undertake a project work consisting of approximately two weeks field investigation in disaster affected community/ies/area/s/population/s and submit a project report. The community/ies/area/s/population/s will be selected in consultation with the respective teacher in charge. Project work typically should be a document of about minimum 50 and maximum 150 pages with section in the following sequences introduction, objectives, assessment of impact due to disaster natural (all kinds) and man-made both, like-Dam projects, Forest projects, Road and Railway projects, Urban planning, Industrial planning, Mines projects, Terrorism, Ethnic violence, Political violence, Religion Riots, Socio-Economic riots and violence, Wars etc. or the student will measure or prepare map of the affected community/ies/area/s/population/s then the students will find out the possibilities of rehabilitations and frame a rehabilitation plan or the students will visit relief camps due to disaster and investigate the rehabilitation situation and prepare a report.

Scheme

Project Work	70 marks (40 external+ 30 internal)
Presentation	20 marks (10 external+ 10 internal)
Viva-voce	10 marks (by external examiner only)

Total	100 marks
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Presentation and viva-voce of the project work will be s in the presence of external examiner and all faculty members of the department but marks will only be given according to the above mentioned scheme.

Three typed copies will be submitted by the students before one week of the respective examination.

Pt. Ravishankar Shukla University, Raipur

M.A./M.Sc. ANTHROPOLOGY

Semester – IV

January 2015- June 2015

M.A./M.Sc. ANTHROPOLOGY
SEMESTER-IV
GROUP - A: PHYSICAL ANTHROPOLOGY

Paper- I Medical Genetics

Important Note:

MM- 80

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining question will be unit wise having internal choice within each unit.

UNIT I

Medical genetics : Meaning and scope; Application of Genetics in medicine.

UNIT II

Causation of genetic diseases/syndrome defects/disorders/and the congenital deformities having adverse bearing on community level.

Methods in identification of genetic diseases: Pedigree method, twin method,

UNIT III

Skin- Ichthyosis, baldness, epiloia, multiple neurofibromatosis, the porphyrias,

The skeletal system – Marfan’s syndrome, Nail patella syndrome, Brachydactyly, syndactyly, Polydactyly, Spina bifida and anencephaly, Ankylosing spondylitis, Rheumatoid arthritis, Osteogenesis imperfecta. Muscle – Muscular dystrophies.

UNIT IV

Eye – Glaucoma, cataract, retinoblastoma. Jaws – Hare lip and palate.

Ears - Deafness. Alimentary system – Hypertrophic pyloric stenosis, gastric and duodenal ulcers, peptic ulcers, cirrhosis of liver. Respiratory system – Cystic fibrosis.

Cardio vascular system – congenital heart disease, coronary heart diseases and Hypertension Kidney and urinogenital tract –Cystinosis, polycystic kidney disease.Endocrine system – Cretinism, goiter, diabetes.

Recommended Readings:

1. Strachan, T. and Read, A.P. 1999. Human Molecular Genetics. BIOS Scientific Publishers Ltd.Oxford. (574.8732, STT H, 84237).
2. Human Genetics by A.G. Motulsky and F. Vogel
3. Medical Genetics by Lynn B. Jorde et al
4. Genetic counseling by Fuhrman and F. Vogel
5. Text book of Human Genetics by Fraser and Mayo
6. Molecular structure of Human Chromosome by J J Yunis

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-IV

GROUP - A : PHYSICAL ANTHROPOLOGY

Paper- II FORENSIC ANTHROPOLOGY

MM-80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining question will be unit wise having internal choice within each unit.

UNIT I

Definition, Aims and scope of Forensic Anthropology, Collection and preservation of skeletal remains from crime scene, Assessment of time and cause of Death. Role of Forensic Anthropologist as Expert witness in court,

UNIT II

Establishment of Identity through skeletal remains, Anatomy of Human bones, Determination of Age, sex and ethnic. Attribution of sex and reconstruction of stature from skeletal remains, human dentition for determination of sex, age and ethnic group

UNIT III

Determination in Forensic Anthropology, Identification of finger and sol prints, details of ridge and crease character , analysis of Dermatoglyphic indices, Dermatoglyphic significance in Forensic Science.

UNIT IV

Personal Identification through somatometric and somatoscopic observation. Identification through hair, blood stains, Identification through blood, semen, urine and saliva in disputed paternity cases

**M.A./M.Sc. ANTHROPOLOGY
SEMESTER-IV**

GROUP – A and B

Dissertation/ Project work

MM-400

In Semester IV (Group-A and Group-B) students are required to undertake a Dissertation/Project work consisting of approximately one-month preparatory work, approximately two to three months of field investigation, approximately two months for Lab work and / or data analysis and completion of the Dissertation/Project work.

The Dissertation will be selected in consultation with the faculty members decided by Head of the department, according to their specialization. Dissertations/Project work will typically be a document of about 100-150 pages with sections in the following sequence: Introduction, Objectives, Hypothesis (if necessary), Research design/ Methodology, Results, Discussion, Conclusion and Suggestions, Literature cited etc.

Presentation and Viva-Voce of the Dissertation/Project work will be in the presence of External examiner and faculty of the department.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-IV

GROUP - B : SOCIAL ANTHROPOLOGY

PAPER-I Disaster Management, Displacement & Rehabilitation

MM-80

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, where as remaining question will be unit wise having internal choice within each unit.

Unit-I

Definition of disaster, Nature of disaster, Anthropological prospective on disaster: Natural and man made disaster. Natural disaster: Causes and classification. People's perception of disaster. Folklore of disaster.

Unit-II

Natural situation of displacement: Floods, Epidemics, Famines, Earthquakes, Fire. Manmade: Chemical and nuclear leaks, Wars: Terrorism in India, ethnic conflicts: Naxalism/Maoism.

Unit-III

Development and Displacement: Dams, Roads and Railways, Development of cities, Establishment of industries, National Parks and Centuries. Defence projects.

Unit-IV

Rehabilitation policies of disaster management, Human factor and rehabilitation: Anthropological prospective. Group coordination for relocating/ reorganization of religious places. Restoration of families and organizing help for shelter, food and medical treatment.

Recommended Readings

1. Bose,B.P.C. Disaster Policies and Administration: A Study of Three Andhra Disasters
- 2.Cohen,Stephen P.and C.V.Raghavulu : The Andhra Cyclone of 1977.Individual and Institutional Responses to Mass Death
3. Ferandes, Walter and Enakshi Ganduli Development,Displacement and Rehabilitation.

M.A. / M.Sc. Anthropology
Semester-IV-Group-B:
SOCIAL ANTHROPOLOGY
Paper II – Development Anthropology

MM-80

Unit-I

Meaning and Definitions of Plan and Planning. Planning typology.
Meaning and Definitions of Development. Dimension of Development .
Development: Theories and Models of development.
Moral/Ethical Issues and limitations of development Anthropology.

Unit-II

Role and Values and Institutions in development: Caste and religion.
Study of women development in India: Programs for Women Development Study of Aging in India: Problems and Programs Provision of right of life in Indian Constitution.
Scheduled Caste: Special Component Plan.

Unit-III

Study of Slum and their development in India.
Concept of globalization. Impact of globalization on development programs in India.
The Cultural Ecology of Development. Cultural Materialism.
Environment and Sustainable Development in India.

Unit-IV

Rural Development in India: Historical Background.
Special Programmes, Poverty alleviation Programmes. Panchayati Raj. Land reform.
Sustainable Development: Environment, natural resources.

Recommended Readings:

1. Zamara, D. Mario. Perspective on cultural change and Development.
2. Vorhies et al. The Politics of Hunger
3. Rogers Everll, Communication and Development: Critical Perspectives
4. Chambers Robert. Rural Development.
5. Kapoor & Singh. Rural Development Through NGOs
6. Cochrne. Development Anthropology
7. Dalton, George (Ed), Economic Development and Social change
8. Foster, G.M. Traditional Cultures and Impact of Technological change
9. Chansarkar, B.A. Models for Planning in India
10. Krishnamachari, V.T. Community Development in India
11. Tax Sol Anthropology

12. Vidyarthi L.P. (Ed). Applied Anthropology in India

13. Upadhyay, V.S. & Pandey Gaya. Vikasatmak Manavvignyan (in Hindi), Madhya Pradesh Hindi Granth Academy, Bhopal.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-IV

GROUP – A and B

Dissertation/ Project work

MM-400

In Semester IV (Group-A and Group-B) students are required to undertake a Dissertation/Project work consisting of approximately one-month preparatory work, approximately two to three months of field investigation, approximately two months for Lab work and / or data analysis and completion of the Dissertation/Project work.

The Dissertation will be selected in consultation with the faculty members decided by Head of the department, according to their specialization. Dissertations/Project work will typically be a document of about 100-150 pages with sections in the following sequence: Introduction, Objectives, Hypothesis (if necessary), Research design/ Methodology, Results, Discussion, Conclusion and Suggestions, Literature cited etc.

Presentation and Viva-Voce of the Dissertation/Project work will be in the presence of External examiner and faculty of the department .

Three typed copies of analyzed data is to be submitted in the department in the form of a Dissertation/ Project Report

Syllabus

of

M.Phil. Anthropology

2014-2015

Pt.Ravishankar Shukla University

Raipur (C.G.)

M. Phil Anthropology

M. Phil Anthropology course would be of two semesters. A student having M. Phil degree in Anthropology should have basic knowledge of all the branches of Anthropology. The Scheme of examination is as under.

Pt. Ravishankar Shukla University, Raipur					
Scheme of Examination of M. Phil Anthropology [Credit System]					
July 2014-December 2014					
FIRST Semester	Paper No.	Title of Papers	Marks		Credit
			(External)	(Internal)**	
	I	Research Methodology, Quantitative Techniques & computer application	80	20	6
	II	Advance Anthropology	80	20	6
	LC-I	Practicals in Applied Anthropology	80	20	8
		Total	300		20
January 2015-June 2015					
SECOND Semester	Paper No.	Title of Papers	Marks		Credit
			(External)	(Internal)**	
	I	Dissertation Script writing	200		16
	II	Viva Voce / Presentation	50		2
	III	Seminar based on Presentation	50		2
		Total	300		20

M. Phil Anthropology

First Semester

PAPER-I RESEARCH METHODOLOGY: QUANTITATIVE TECHNIQUES, & COMPUTER APPLICATION

Maximum Marks-80

The course is designed to examine theories of research methods in Anthropology. This part will be done through lectures, assigned reading, class discussions and individual consociation. Students will not only learn various techniques for collecting and analyzing informations but its appropriate use and limitations. A variety of tools will be addressed to. It also includes problems of access, reports and ethics in conducting research; data gathering through interviewing, participant observation, personal documents, photos, tapes; data collection; computer applications; and analysis and interpretation in context of theory. It deals with theory and methodology of research.

UNIT-I

Research Methodology: Method and Technique- distinguished; Social Survey and Anthropological field work- relative merits, Types of Research, exploratory, explanatory, experimental, diagnostic, Research Design, formulation of hypothesis. Elements of research: Deductive and inductive logic, theory, law, construct hypothesis, concepts, variables and facts.

UNIT-II

Comparative Method: Nature, purpose and methods.

Review of literature: Use of secondary sources, role of history and historical records.

Sampling techniques: Meaning and significance of sampling, Types of sampling , Merits and demerits of different sampling methods.

UNIT-III

Quantitative and Qualitative data collection, techniques of data collection- observation technique, questionnaire, schedule and case study.

UNIT-IV

Focused group interview: Scaling techniques, RRA, PRA, RAP, audiovisual recording. Secondary sources: Census, National Sample Survey, documents and records, map, National and International reports (UNDP, World Bank, UNICEF)

Qualitative data analysis methods: Content analysis.

Report writing: Requirement of Scientific report, problems in report writing, linking ideas, linking paragraphs.

UNIT-V

Statistics: Mean & Standard deviation, Standard error.

Tests of significance (Chi-square, 't'-test, Analysis of variance, Probability.

Estimation of gene frequencies from pedigrees and concept of Mendelian population.

Pedigree method: Analysis of pedigrees with some rare inherited disorders.

Recommended Readings:

1. Bernard: Research methods in cultural Anthropology
2. Pelto and Pelto: Anthropological Research: The structural enquiry, Qualitative data analysis.
3. Danda Ajit: Research Methodology in Anthropology.

PAPER-II
ADVANCE ANTHROPOLOGY

Maximum Marks- 80

UNIT-I

Application of Biological Anthropology in the service of Mankind.

Medical genetics: Meaning and scope; Application of Genetics in Medicine.

Genetic epidemiology with special reference to non-communicable diseases: Haemoglobinopathies, diabetes, cancer and cardiovascular diseases.

Prenatal diagnosis and Genetic counseling.

Blood group incompatibility, disease association, HLA system & Immunogenetics.

UNIT-II

Recent Advance in Human Genetics: An Overview.

Population Cytogenetics, Autosomal and sex chromosomal polymorphism.

Cytogenetics & its application in identification of Chromosomal aberration.

Recombinant DNA techniques and Genetic Engineering.

Application of Molecular techniques in Biological Anthropology: PCR, Southern blotting, Gel Electrophoresis, DNA Fingerprinting etc.

UNIT-III

History of Anthropological Thoughts: An Overview

Evolutionism: A critical assessment of Classical Evolutionalism - L.H.Morgan and Neo-Evolutionism.

Recent trends in Evolutionary thoughts.- Julian Steward

Diffusionism: A critique on Diffusionistic Thoughts.- Kroeber

Historical Particularism: F. Boas

Structural- Functionalism: Evans Pritchard

Functionalism and structure-Functionalism: Malinowski.

Post Modernism in Anthropology.

Recent trends in Psychological Anthropology.

Culture Relativism, Etics and Emic perspectives

UNIT-IV

Concept of Development; Culture and Development. An overview of Plan Development in India; Problems of Tribal Development in India; Anthropological approach to Development: Forest and Tribes, Development of Primitive Tribal Groups: Tribal Development programme in India- An overview, Culture & Globalization.

Planning: Micro and Macro.

UNIT-V

Bio-cultural Evolution of Man in Africa with reference to Lower Palaeolithic, Middle Palaeolithic, Upper Palaeolithic & Mesolithic Cultures (Origin, Chronology Distribution, Traditions and Development).

Recommended Readings:

1. Starchad, T. and Read, A.P. 1999. Human Molecular Genetics. BIOS Scientific Publishers Ltd. Oxford. (574.8732, STT H, 84237).
2. Jha, M. Manavshastriya vichardhara- Ek Parichaya. (In Hindi).
3. Shrivastava, A.R.N. Sanskritik Manav Vigyan- Siddhanta aur Uplabdhiyan (In Hindi)
4. Harskovitz, M.J. Sankriti ki pristhabhumi (In Hindi)
5. Muthal, S. Samajik Manav Vigyan- Saidthantik Vyavahar (In Hindi)
6. Harris, M. Rise of Anthropological Theory, Routlege and Kegan Paul, London.
7. Malinowski, B. Scientific theory of culture and other essays.
8. Evans-Pritchard. A History of Anthropological Thought.
9. Clark, J.D. African Prehistory.

PAPER-III
PRACTICAL IN APPLIED ANTHROPOLOGY

Maximum Marks-80

Laboratory Techniques:

- I. Forensic Anthropology: Scene of Crime.
- II. Collection and preservation of Physical evidences.
- III. Use of dermatoglyphics in personal identification and criminal detection.
- IV. Conservation and preservation of archaeological/ museum objects.
- V. Collection of biological sample & isolation of human DNA, PCR technique, Electrophoresis.
- VI. Estimation of nutrient intake from diet consumed.
- VII. Use of computer in anthropological data analysis.

NOTE: Five specimens to be analyzed by each student in the above-mentioned traits unless stated otherwise.

Practical in Applied Anthropology: Total marks-80

Distribution of Marks are as under:

Practical -60

Viva- Voce-10

Practical Record- 10

Recommended Readings:

1. Race, R.R. & Sanger, R. 1968. Blood group in man. Blackwell Scientific Publications, Oxford. (612.11825, RAR)
2. Kathleen E. Boormen and Barbara E. Dodd. An Introduction to Blood group Serology (612.11825 BOK).
3. Bhasin, M.K. and Chahal, S.M.S. 1996. A Laboratory Manual for Human Blood Analysis. Kamla Raj Enterprises, Delhi.
4. Shrivastave, B.K. 1983. A Manual of Practical Physiology, Samit Medical Publications, Patna.
5. Dacie, J.V. and Lewis, S.M. 1991. Practical haematology, 5th edition, J. and A. Churchill, Livingstone.
6. Behera, B.K. and Mohanty, S.K. 2007. Museology and Museum Management in India. Mayur Publications, Bhubaneswar.

M. Phil Anthropology
Second Semester

PAPER-I
DISSERTATION SCRIPT WRITING

Maximum Marks-200

The course is designed to make the student carry out independent research in the planning of the projects proposals, data collections, data analysis and report writing under the guidance of teacher assigned by the Head of the department in respective specialization of the student. Dissertation will be based on field work/ secondary source of data/ laboratory work on the topic allotted by the Head of the department.

The course aims at capacity building of the student in taking up independent research programme. The students are required to work with the community for a period not less than one month in the village.

Three typed copies of analyzed data will be presented in the form of a dissertation & require to submit on last 2 Teaching (3 weeks before theory examination) Seminar or theory should be conducted in the department on topic given by the M. Phil. Committee and marks of best of two should be submitted.

PAPER-II

VIVA VOCE / PRESENTATION

Maximum Marks-50

PAPER-III

SEMINAR BASED ON PRESENTATION

Maximum Marks-50

P.G. Diploma in Criminology and Forensic Science

Semester I

July2014- December-2014

Pt. Ravishankar Shukla University, Raipur
PG Diploma in Criminology and Forensic Science[Credit System]

Scheme of Examination

July 2014-December 2014

	Paper No.	Title of Papers	Marks		Credit
			(External)	(Internal)**	
FIRST Semester	I	Fundamentals of Forensic Science and Physical Evidence	80	20	6
	II	<u>Fundamentals of Criminology</u>	80	20	6
	LC-I	Lab Course-I	80	20	8
	Total			300	

January 2015-June 2015

	Paper No.	Title of Papers	Marks		Credit
			(External)	(Internal)**	
SECOND Semester	I	Toxicology, Forensic Chemistry and Forensic Biology	80	20	6
	II	<u>Fundamentals of Police Science</u>	80	20	6
	LC-II	Lab Course-II	80	20	8
	Total			300	

Semester I

Paper I

Fundamentals of Forensic Science and Physical Evidence

Maxi. Marks-80

UNIT -I

Definition, History, Development and Scope of Forensic Science.

Scene of Crime and Collection of Physical Evidences.

Sketching of Crime Scene spot.

Forensic Examination in Drowning, Burning, Firearms, Hanging, Strangulation, Throttling, Poisoning, Railway cutting, Stabbing explosion, Sexual offences and Natural deaths, Cause of deaths.

UNIT- II

Forensic Science and Jurisprudence, Medical Jurisprudence.

Criminal Law: Definition as per Indian Penal Code.

General exceptions of Indian Penal Code.

Offences against Persons & Property

Procedure in Court as per Criminal Procedure Code

Indian Evidence Act- 45, Sections 59-73 and Sections 137 & 138

UNIT- III

Introduction and Classification of Questioned Documents.

Examination of Documents.

Basis of Handwriting Identification – Individuality of Handwriting

Various Writing Features and Their Estimation.

Examination of Signatures.

Examination of Alterations, Erasers, Over Writing, Additions and Obliterations.

UNIT -IV

Dermatoglyphics in Criminology & Forensic Science

History of Dermatoglyphic Prints developments

Personal identification from Finger prints

Types and Classification of Finger Prints (Henry's Classification)

Battley's Single Print Classification

Development and Lifting of Latent Finger Prints

Finger prints problems, Foot print, Palmar, Sole & Toe Prints, Tool marks.

UNIT -V

Introduction of Forensic Photography, Role of Photography in Forensic Science.

Camera: Its parts and functioning, Enlarger and other Equipments used in Photography, Developing and Printing method.

References:

1. R. safferstin: Hand book of forensic science
2. Ohara & Osterburn : Criminalistics
3. P.L.Krik : Criminalistics
4. B.R. Sharma: Forensic Science in criminal investigation & crime
5. C.R. Parikh: Parikh's Textbook of Medical Jurisprudence & Toxicology
6. J.V.P. Conway: Evidential Documents
7. S. Goldblatt: Document Evidence & Identification
8. C.Cummins & R. Midlo: Introduction to Dermatographics: Finger, Sole & Toe.
9. Albert Osborn Questioned documents.
10. Chales. C. Thomas Type writing identification
11. Hardless. H.R. Disputed document, handwriting and thumbs print identification.
12. Wilson. R. Harrison Suspended documents – their scientific examination
13. Hilton Scientific Examination of questioned documents
14. R.A. Goegory Scientific identification of disputed documents, Finger Prints &
15. W.R. Harris Suspected Documents

Semester I
Paper II
Fundamentals of Criminology

Maxi. Marks -80

UNIT -I

Definition, aims, nature and scope of Criminology.

History and Development of Criminology.

Role of Criminology in Forensic science.

Relationship of Criminology with other sciences: Forensic science, Psychology, Anthropology, Sociology and Law.

UNIT-II

The Characteristics and Relationship of Concept of Crime.

The Concept of Crime and its Socio-Legal Aspects.

The Causes of Crime, its level and General Description

The Differentiation approach to the assessment of Cause of Crime

The inter connections of Social and Biological in the Cause of Crime.

Biological problems in the complex of Anti Social Behavior

UNIT -III

Criminal Psychology

Schools of Criminology and Its Concept

Demonological, School of Freewheel, Classical School, Neo- Classical School, Geographical School, Socialistic School
Italian Psychoanalytical, Psychological, Multifactor

UNIT -IV

Prevention of crime

The concept of Social Prevention and limits of its functioning

The basic principle of the legal regulation of Social Prevention

Juvenile Court, Rehabilitation Homes, Reformatories

UNIT -V

Objects of Punishment and its Critical Analysis

Modern concept of Penology

Capital Punishment

Prison System

Modern Concept of Prison

Reformation in Judicial System

Recommended Books:

1. Barns & Teeters: New Horizon in Criminology
2. Conkin: Criminology
3. Suderland and cressy: The Principals of Criminology
4. Siegel Laary, J: Criminology
5. Singh Shyamdhhar: Essentials of Criminology (Hindi)

Semester I
PAPER-III
Lab Course - I

Maxi. Marks -80

1. Sketching of Crime scene spot and collection of Physical evidences.
2. Its Packing, Preservation and Sending.
3. Recording, Identification & Classifications of Dermatoglyphic Prints.
4. Development of Latent finger prints on glass, paper, wall, polished surface etc.
5. Photography of Latent Finger Prints, Casting of food prints.
6. Photographic Techniques.
7. Preliminary Examination of questioned Documents.
8. Examination of Ink by Thin Layer Chromatography (TLC).
9. Classification of Fingerprints by Henry's Ten Digit Classification.
10. Examination of Tool marks.
11. Examination of Erased Punch Marks.
12. Examination of Mechanical impression (Type writing).

References:

- 1.R. Safferstin: Handbook of forensic science
- 2.Ohara &Osterburn: Criminalistics
- 3.P.L.Krik: Criminalistics
- 4.B.R. Sharma: Forensic Science in criminal investigation & crime
- 5.C.R. Parikh: Parikh'sTextbook of Medical Jurisprudence &Toxicology
- 6.J.V.P. Conway: Evidential Documents
- 7.S. Goldblatt: Document Evidence & Identification
- 8.C.Cummins & R. Midlo: Introduction to Dermatographics: Finger, Sole &Toe.
9. Albert Osborn Questioned documents.
10. Chales. C. Thomas Type writing identification
11. Hardless. H.R. Disputed document, handwriting and thumbs print identification.

P.G. Diploma in Criminology and Forensic Science

Semester II

January 2015-June 2015

Semester II
Paper-I
Toxicology, Forensic Chemistry and Forensic Biology

Maxi. Marks -80

UNIT- I

Toxicology: Definition.

Classification of Poisons.

Various types of Plant Poisons.

Study of Insecticides and Pesticides.

Examination of Poisons in Viscera, Blood and Urine.

UNIT -II

Introduction to Narcotic Drugs and Psychotropic Substances (NDPS) Act 1985.

General Study of Narcotic Drugs and Psychotropic Substances.

Examination of Narcotic Drugs.

Adulteration in Jewelleries, Petroleum Products.

Examination of Inflammable Liquids like Kerosene, Petrol, Diesel.

UNIT -III

Introduction to Forensic Biology

Study of Body Fluids: Blood, Urine, Saliva, Semen, Vaginal Swab, Vomit, Milk.

Forensic Examination of Body Fluids.

Role of DNA in Paternal and Maternal Disputes.

DNA Fingerprinting.

Wildlife Forensics: Its role and Importance.

UNIT -IV

Introduction to Forensic Anthropology

Identification of Bone – Morphological, Anatomical Characteristics, Determination of Age, Sex, Race, Stature.

Forensic Odontology: Definition, Pattern, Type and Structure of Teeth, Age determination Identity of Person

Study of Bite Marks and their Forensic Significance.

Role in mass disaster, Diseases of teeth and their significance in personal identification.

References:

1. R. Safferstein: Handbook of Forensic Science
2. Ohara & Osterburn : Criminalistics
3. P.L. Krik : Criminalistics
4. B.R. Sharma: Forensic Science in Criminal Investigation & Crime
5. C.R. Parikh: Parikh's Textbook of Medical Jurisprudence & Toxicology
6. Surinder Nath Forensic Anthropology
7. Forensic Toxicology Manual, Ministry of Home Affairs, DFS

Semester II
Paper II
Fundamentals of Police Science

Maxi. Marks -80

UNIT- I

History and Development of Police System.

Reformation of Police System.

Application of Police in maintenance the Law and Order.

Limitations of Police System with reference to Human Rights

UNIT- II

Investigation of the following of cases:

1. Murder
2. Theft and Burglary
3. Road, Railway and Air Accidents
4. Arson
5. Sting Operation

UNIT- III

First Information Report, Search, Seizure, Arrest

Interrogation, Final Crime Theory, Preparation of Charge sheet.

UNIT- IV

Procedure in Court as per Criminal Procedure Court

Simons Trial, Warrant Trial, Case Diary.

UNIT- V

Role of Community in Police Corruption.

Use of Criminal Profiling in Crime Investigation.

Police System in India and its various organizations

Modernization of Police System with reference to Control system and Modern equipment

