



**SYLLABUS
OF
M.A./M.Sc. ANTHROPOLOGY
(Sem. I, Sem. II, Sem. III & Sem. IV)**

UNDER

FACULTY OF LIFE SCIENCE

2023-2025

(w.e.f. July 2023)

Approved by Board of Studies in Anthropology

(21.02.2023)

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. in Anthropology
Scheme of Examination

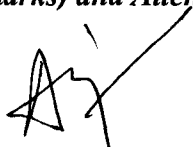
July 2023-December 2023

	<i>Paper No.</i>	<i>Title of Papers</i>	<i>Marks</i>		<i>Credit</i>
			<i>(External)</i>	<i>(Internal)</i>	
FIRST Semester	I	Fundamental of Social/Cultural Anthropology	80	20	4
	II	Fundamental 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 and Craniometry	80	20	2
	LC-II	Practicals in Osteology and Osteometry	80	20	2
	Total			600	20

January 2024-June 2024

	<i>Paper No.</i>	<i>Title of Papers</i>	<i>Marks</i>		<i>Credit</i>
			<i>(External)</i>	<i>(Internal)</i>	
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 Application	80	20	4
	LC-I	Practicals in Archaeology	80	20	2
	LC-II	Compulsory Field Work	80	20	2
	Total			600	20

Note: Each student will be evaluated continuously throughout the semester, 20 Internal Marks for each Theory Paper will be based on class test (10 marks), class seminar presentation (05 marks) and Attendance (05 marks).





Pt. Ravishankar Shukla University, Raipur
M.A./M.Sc. in Anthropology
Scheme of Examination

July 2024-December 2024

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	Human Molecular Genetics	80	20	4
	LC-I	Practicals in Applied Biological Anthropology	80	20	2
	LC-II	Practicals in Human Growth, Nutrition and Physiology	80	20	2
	Total			600	

July 2024-December 2024

Group-B : SOCIAL-CULTURAL ANTHROPOLOGY

	Paper No.	Title of Papers	Marks		Credit
			(External)	(Internal)	
THIRD Semester	I	Applied Anthropology (Group-A & B)	80	20	4
	II	Theory and Methods in Social-Cultural Anthropology	80	20	4
	III	Museology and Visual Anthropology	80	20	4
	IV	Tribal Development	80	20	4
	LC-I	Practicals in Museology	80	20	2
	LC-II	Fieldwork based report and seminar on Ethno- museology and Visual anthropology.	80	20	2
	Total			600	

Pt. Ravishankar Shukla University, Raipur
M.A./M.Sc. in Anthropology
Scheme of Examination

January 2025-June 2025

Group-A : PHYSICAL ANTHROPOLOGY

	<i>Paper No.</i>	<i>Title of Papers</i>	<i>Marks</i>		<i>Credit</i>
			<i>(External)</i>	<i>(Internal)</i>	
Fourth Semester	I	Ecological Anthropology (Group A & B)	80	20	4
	II	Medical Genetics	80	20	4
	III	Forensic Anthropology	80	20	4
	IV	Sports Anthropology	80	20	4
	V	Dissertations (External and Internal)*	50	50	2
	VI	Presentations/Viva-Voce (External and Internal)**	50	50	2
Total			600		20

January 2025-June 2025

Group-B : SOCIAL-CULTURAL ANTHROPOLOGY

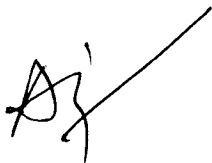
	<i>Paper No.</i>	<i>Title of Papers</i>	<i>Marks</i>		<i>Credit</i>
			<i>(External)</i>	<i>(Internal)</i>	
Fourth Semester	I	Ecological Anthropology (Group A & B)	80	20	4
	II	Indian Anthropology	80	20	4
	III	Development Anthropology	80	20	4
	IV	Anthropology of Disaster Displacement & Rehabilitation	80	20	4
	V	Dissertations (external and Internal)*	50	50	2
	VI	Presentations/Viva-Voce (External and Internal)**	50	50	2
Total			600		20

Handwritten signature

Note : Each student will be evaluated continuously throughout the semester, 20 Internal Marks for each Theory Paper will be based on class test (10 marks), class seminar presentation (05 marks) and Attendance (05 marks) .

** A student of IV semester will have to submit a minimum of 01 month's fieldwork based dissertation. The valuation of the dissertation will be carried out by an external examiner and the faculty members of the department. In case of internal evaluation of dissertation the Supervisor of the respective students only will be entitled for giving marks for the dissertation.*

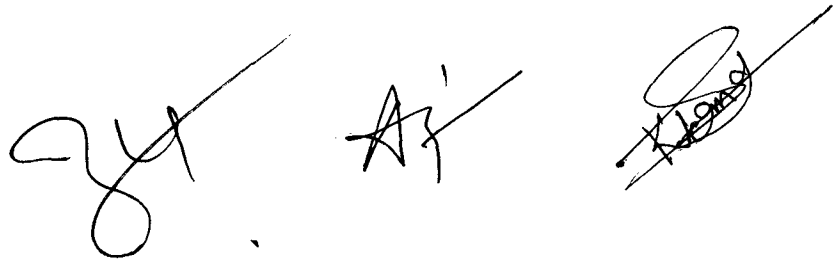
***Examination of the Presentations/Viva-Voce will be done in the presence of external examiner and all the faculty members of the department. Faculty member who will have attend the presentation and viva-voce they only will be entitled for giving marks for the Presentations/Viva-Voce.*



**School of Studies in Anthropology
Pt. Ravishankar Shukla University, Raipur**

M.A./M.Sc. ANTHROPOLOGY

Semester – I

Three handwritten signatures in black ink, arranged horizontally. The first signature is a stylized 'S' with a long horizontal stroke. The second signature is a stylized 'A' with a long horizontal stroke. The third signature is a stylized 'R' with a long horizontal stroke.

July 2023 - December 2023

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-I

PAPER I - FUNDAMENTALS OF SOCIAL/ CULTURAL ANTHROPOLOGY

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

Anthropology and Social Anthropology:

- Meaning and Scope of Anthropology.
- Divisions of Anthropology.
- Scope of Social-Cultural Anthropology.
- Social-Cultural Anthropology and its relation with other social sciences, life sciences, medical sciences and humanities.

Culture and Institutions:

- Theory of Culture: attributes of Culture, culture traits, culture complex, culture area, integration of culture, paradoxes of culture.
- Some basic concepts: Civilization, Society, Social structure, Social Organization, Community, Social Institutions, Groups and Status & Role.

UNIT – II

Social Organizations:

- Family: Theory of Origin of Family : Meaning & Definition. Typology, Residence, Functions.
- Marriage: Theory of Origin of Marriage : Meaning & Definition. Typology, Mate selection, Cross-cousin, Sororate, Dowry and bride price.
- Kinship : Meaning and Definition of Kinship, Characteristics and Functions of kinship.
 - Kin: consanguine , Affinal.
 - Kinship terminology : classificatory and descriptive, Terms of reference and address.
 - Kinship behavior: Joking and avoidance relationship.
 - Kinship system and its importance in Social structure, Descent Groups.

- Moiety and Phratry.
- Social Stratification.
- Status of women (Gender).
- LGBT Groups.
- Caste Tribe and Class.

UNIT – III

Stages of Economic: An evolutionary perspectives, sources of livelihood in the primitive life.

Economic organization:

- Property: Individual and Collective.
- Concept of Primitive communism.
- Concept of value in primitive economy.
- Stages of Economy: collection, hunting, fishing, pastoralism, Cultivation (Shifting cultivation and Settled Subsistence)
- Surplus and market economy.
- Systems of trade-exchange: Reciprocity, Redistribution, barter and markets.

Political organization:

- Meaning and Definition of Law, Customary Law, Attributes of Customary Law
- Law and social control.
- Concept of authority and leadership.
- Types of political organization: Band, Tribe, State, Kingship and chiefdom.
- Primitive law and Justice.
- Types of Punishment.
- Ethnicity and Nationality.

UNIT – IV

Religion and Magic:

- Meaning and Definition of Religion
- Anthropological approaches to the study of religion: Evolutionary, Psychological and Functional.
- Primitive Religion: Animism, Animatism, Bongalism, Totemism.
- Magic: function and types.
- Magico-religious functionaries: Shaman and Shamanism, Priest, Medicine man, Sorcerer, witch.
- Symbolism in religion and rituals.
- Religion, Magic and Science.

Arts:

- Meaning and definition of Art, Types of Art.
- Art and Aesthetics: Forms of music, dance forms, musical instruments.
- Painting: Ritualistic and Symbolic.
- Artifacts: Carvings, Mould, Masks etc.

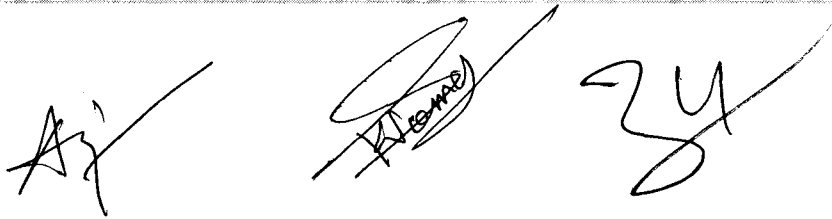
Human Language:

- Human Language: Origin and evolution of human language.
- Language, culture and society.

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. Honnigmann, 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 and Boundaries.
17. Barnet, H.G. Innovation. The Basis of Culture Change.
18. Rogers E.M. & Schmacher, 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.
27. Ember and Ember, Anthropology
28. Nas, Manning. Primitive and Peasant Economic Systems

29. Bohannan, Paul. Social Anthropology
30. Jacob, Awsrern. General Anthropology
31. Levi Strauss, Elements of Kinship
32. Schumachr, E.F. Small is Beautiful
33. Evans- Pritchrd, E.E. Primitive Religion
34. Norbeck. Primitive Religion
35. Lowie, R.H. Primitive Social Organization
36. Lowie, R.H. Social Organization



Three handwritten signatures or initials are present below the list. The first is a stylized 'A' with a diagonal line. The second is a signature that appears to be 'R. H. Lowie' with a large flourish above it. The third is a stylized 'Z' or 'Y' with a diagonal line.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-I

PAPER II- FUNDAMENTALS OF PHYSICAL/ BIOLOGICAL ANTHROPOLOGY

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-I

Physical Anthropology:

- 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

Organic Evolution & Primate behavior:

- Theories of Organic Evolution: Lamarckism, Darwinism, Synthetic Theory, Neutral Theory of molecular evolution, concept of clad genesis and anagenesis.
- Man's place in Animal Kingdom.
- Primate behavior (With reference to Higher Primates).

UNIT-III

Comparative anatomy & Evolution:

- Comparative anatomy of Man and Apes.
- Hominid Evolution.
- Erect posture and Bipedalism.
- Evolution of Teeth, Chin, Foot and Pelvis.

UNIT-IV

Human Variation:



- Concept of Race
- Modern Human Variation : Typological Model, Population Model and Clinal Model; overview of Classification proposed by Blumenbach, Deniker, Hooton, Coon, Garn and Birdsell.
- Criteria of Racial classification- Skin, Hair and eye colour, Stature, Eyes , Lips and Ears, Face and Lower Jaw, Blood Groups, Dermatoglyphics.
- Distribution and Characteristics: Caucasoid, Negroid, Mongoloid.
- Racial classification of Indian Population –Risley, Guha. & S. S. Sarkar
- Causes of Human Variation.

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), Gyandeep Prakashan, 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
1. Illinois.
12. 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.
13. Ashley, Montague. Concept of Race.
14. Backer, P.T. & Weiner (eds.). Biology of Human Adaptability.
15. M. Ember and Ember. Anthropology.
16. Harrison, G.A. and Boyce, J. The Structure of Human Population.
17. Sarkar S.S. Aboriginal races of India.
18. Sahlins and Service. Evolution and Culture.
19. Simpson, G.G. The Meaning of Evolution.
20. Williams B.J. Evolution and Human Origin

M.A. / M.SC. ANTHROPOLOGY

SEMESTER-I

PAPER III - PREHISTORIC ARCHAEOLOGY AND PALAEO-ANTHROPOLOGY

MAX. Marks- 80

MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

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:
- Relative Dating: Stratigraphy, River Terraces, Raised Sea-Beaches, Typo-technology, Fluorine Dating, Pollen Dating.
- 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, Aurignasian, Solutrean, Magdalenian; Prehistoric Art (Home Art and Cave Art).
- Mesolithic Culture of Europe: Azilian, Tardenoisean, Austerian, Maglamosean, Kitchen Midden, Campegnian.

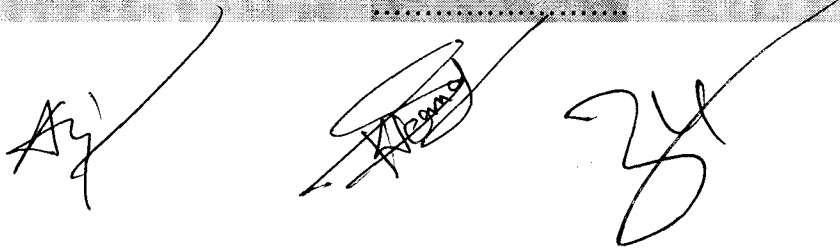
UNIT – IV

- 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. Johanson, 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 HomeWood.
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.



Three handwritten signatures or initials in black ink, positioned below a horizontal line. The first signature on the left is a stylized 'A' with a long diagonal stroke. The middle signature is a circular scribble with some internal lines. The signature on the right is a large, looped 'Z' or 'S' shape.

M.A./M.SC. ANTHROPOLOGY

**SEMESTER-I
PAPER IV- RESEARCH METHODS IN ANTHROPOLOGY**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

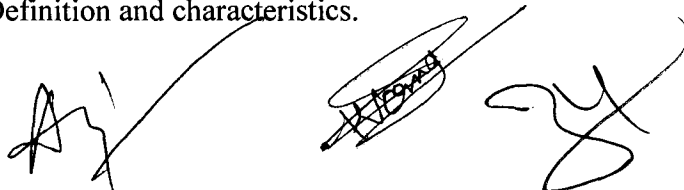
- Research : Meaning and Definition. Types of Research, Qualitative and Quantitative Research.
- Field work tradition in Anthropology: Covering all branches of Anthropology to gain holistic perspective.
- Social research and Social survey.
- Hypothesis: Sources, characteristics, importance and types of hypothesis.
- Methods: Logical, Historical, Comparative, Philosophical and Scientific method.
- Ethnographic method.

UNIT – II

- Research design : Body of a research design, how to prepare a good research design Characteristics of the research design, types of research design
- Techniques of data collection- Primary data collection: Observation, Questionnaire, Interview, Schedule, Case study, Audio-visual recording, Geneology.
- Grounded Theory, Exploration and Excavation, Introduction to GIS.
- Secondary Data collection: Census, National Sample Survey, Models and Paradigms.
- Data collection: Choice of Suitable Technique.
- Participatory Methods: Rapid Rural Appraisal (RRA), Participatory Rural Appraisal (PRA), Rapid Participatory Appraisal (RPA), Focus Group.

UNIT – III

- Data: Definition and characteristics.



- Types of Data: Geographical, Chronological, Qualitative and Quantitative, Nominal, Ordinal, Ratio and Interval.
- Sources of Data: Primary and Secondary sources.
- Tabulation: General, Special purpose & Machine tabulation.
- Techniques of Analysis : Content analysis, Discourse analysis and Narratives.
- Analysis and Interpretation of data.
- Preparation of report, Dissertation and Scientific papers.
- Graphic and Diagrammatic presentation of data.

UNIT – IV

- Scope, utility and importance of statistics in Anthropology.
- Sampling: Types of Random and Non random sampling
- Measures of Central Tendency- Mean, Mode, Median & dispersion.
- Variables: Univariate, Bivariate and Multivariate analysis.
- Scaling techniques.

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 Tolls, Families and Techniques, Pune, Deccan College.
18. Triger, 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**

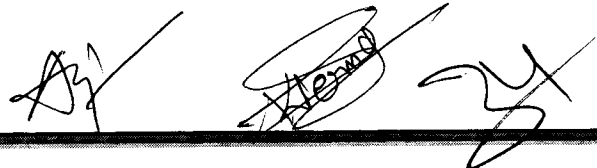
MAX. Marks- 80

MIN. Marks - 27

- Description of Human Skull and its importance in biological anthropology.
- Craniology and Forensic science.
- Following Craniometric measurements are to be taken on atleast 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

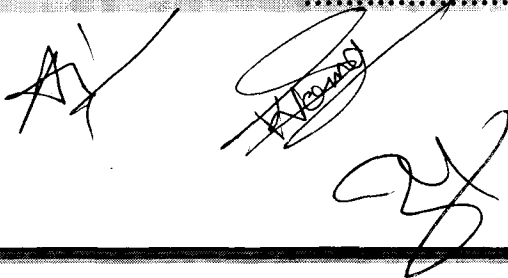
(At least on 2 skulls)

- 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
5. Book No. 9 Blackwell Scientific Publication, Oxford.
6. Mitra, M. 1990. Prayogik Manav Vigyan- Bhag -2. Madhya Pradesh Hindi Granth
7. Academy (in Hindi).
8. Mitra, M. & Chaube, R. 2004. Prayogik Manav Vigyan (Sharirik) Bhag -2. Madhya
9. Pradesh Hindi Granth Academy (in Hindi).

.....



M.A./M.Sc. ANTHROPOLOGY

SEMESTER-I

LAB COURSE II- PRACTICALS IN OSTEOLOGY AND OSTEOMETRY

MAX. Marks- 80

MIN. Marks - 27

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

Following **Osteometric** measurements are 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
- Condylo-diaphysial 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
- Condylo diaphysial angle

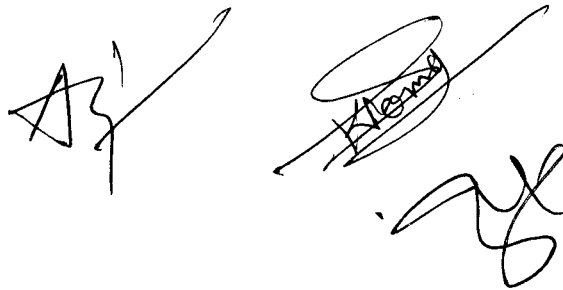
Recommended Readings:

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
5. Book No. 9 Blackwell Scientific Publication, Oxford.
6. Mitra, M. 1990. Prayogik Manav Vigyan- Bhag -2. Madhya Pradesh Hindi Granth
7. Academy (in Hindi).
8. Mitra, M. & Chaube, R. 2004. Prayogik Manav Vigyan (Sharirik) Bhag -2. Madhya
9. Pradesh Hindi Granth Academy (in Hindi).

**School of Studies in Anthropology
Pt. Ravishankar Shukla University, Raipur**

M.A./M.Sc. ANTHROPOLOGY

Semester – II



January 2024 - June 2024

M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-II
PAPER I – INDIAN ARCHAEOLOGY**

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

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.

The block contains three handwritten signatures or initials in black ink. The first is a stylized signature on the left. The second is a signature with a circled name in the middle. The third is a signature on the right.

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

.....



M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-II
PAPER II - FUNDAMENTALS OF HUMAN GENETICS**

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

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 Mende'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.

Handwritten signatures and initials at the bottom of the page. There are three distinct marks: a stylized signature on the left, a signature with 'HCS' written above it in the middle, and another stylized signature on the right.

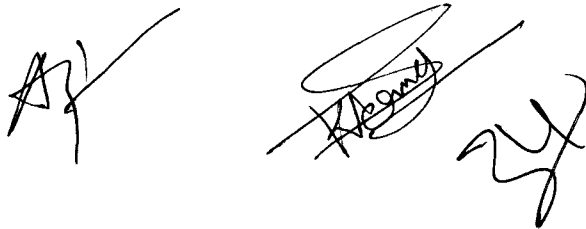
UNIT-IV

- 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
5. Traits among the Peoples of Indian Region, Kamla- Raj Enterprises, Delhi.
6. Bhamrah and Chaturvedi, A Text Book of Genetics.
7. Mange and Mange, Basic Human Genetics.
8. Rothwell, N.V., Human Genetics.
9. Harrison et al. Human Biology.
10. Ashley Montagu, Concept of Race.
11. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and human Genetics.
12. Dalela and Verma, T Text Book of Genetics.
13. Bodmer & Cavalli Sfroza, Genetics, Evolution and Man.
14. King and Stansfield, A Dictionary of Genetics.
15. Brudette, W.J., Methodology in Human Genetics.
16. Yunis, J.J. (Ed.), Biochemical Methods in Red Cell Genetics.
17. Harris, H., Human Biochemical Genetics.

.....



M.A./M.SC. ANTHROPOLOGY
SEMESTER-II
PAPER III - MEDICAL ANTHROPOLOGY

MAX. Marks- 80
MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Meaning and scope of Medical Anthropology
- Changing concepts of health and disease
- Culture and lifestyle in relation to health and disease.
- Ethno medicine.
- Magico-Religious practices.
- Indigenous medical systems and medical practitioner
- Ethno-botany
- Ethno-pharmacology.
- Ethno-biology.
- Ethnography of tribal medical system with special reference to tribes of central India.
- Resurgence of traditional medical systems in the west and India.

UNIT- II

- Epidemiology basic principles Types of Epidemiology; Epidemiology of common communicable and non-communicable diseases- 1. Malaria 2. T.B. 3. Leprosy 4. STD 5. Diabetes, 6. HIV/AIDS 7. Cancer 8. Cardiovascular diseases.
- Mental health,
- National disease control programmes.
- Plural and alternative systems of medicine traditional system as part of culture and life style: 1. Ayurveda 2. Unani 3. Naturopathy 4. Tibetan 5. Chinese basic principles.

UNIT -III

- Medical statistics measurement of morbidity and mortality rates incidence and other statistics.
- Health promotion and health programmes.
- Nutrition
- RCH
- Family welfare
- Health education ageing (Peoples perspectives to be focused)
- Health and environment: water pollution, air pollution, noise pollution.
- International Health : WHO, UNICEF, USAID, Food Foundation etc.

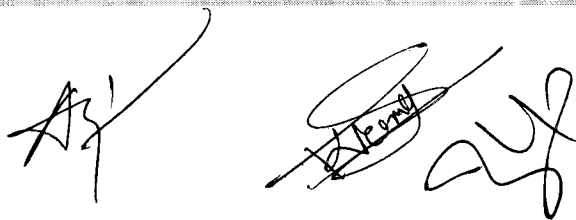
UNIT -IV

- National health policy: Historical Review.
- Health care delivery in India rural and urban, Response of the people.
- Voluntary efforts in community health and development: Some case studies of community participation.
- Anthropological approach to health systems research, use of an anthropological research method in health system research.
- 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. (ASA Monograph)
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 Introduction 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.
32. Dash, J., Patra, P.K. and Sathpathy, K.C. Dimensions of Healthcare practices, SSDN Publishers, New Delhi.



M.A./M.SC. ANTHROPOLOGY

**SEMESTER-II
PAPER IV - BIOSTATISTICS AND COMPUTER APPLICATIONS**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-I

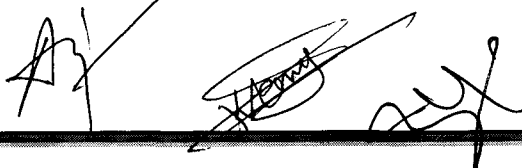
- Measures of Dispersion: Dispersion, Range, Variance, Standard Deviation, Standard Errors, Skewness and Kurtosis.
- Correlation: Simple correlation, Grouped and ungrouped data, Karl Pearson's Coefficient of Correlation.

UNIT-II

- Parametric and non parametric test.
- Test of Significance: Non- parametric Tests: Chi-square Test, Goodness of fit.
- Parametric Test: t-test. ANOVA.
- Regression analysis: Linear regression and logistic regression
- Bivariate and multivariate Analysis

UNIT-III

- Population Study: Vital Statistics.
- Fertility and Fertility rates.
- Mortality and Mortality rates: Infant Mortality and Infant Mortality rates & Maternal Mortality.
- Factors affecting Fertility and Mortality.
- Morbidity and Morbidity rates.
- Migration and Migration rates.

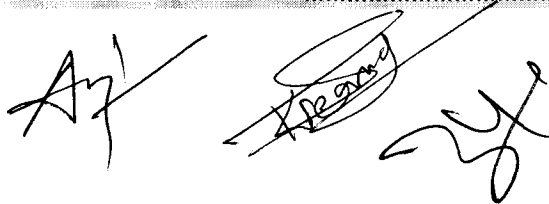


UNIT-IV

- Introduction to Computer: History & Types of Computers.
- Computer hardware and software.
- Operating System : Windows.
- MS Office: 1. MS-Word 2. MS-Excel 3. MS-Power Point
- Internet: Use of Internet in Anthropological Research, epg Pathshala, N-List.
- Anti virus.
- Data Analysis Softwares: SPSS 16.0, MS-Excel.
- Referencing Softwares : Mandeley.

Recommended Readings:

1. Gupta, S.P., Statistical Methods.
2. Sarin, S.S. and Balchandani, M.K., Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
3. Summar, M., Computers: Concepts and Uses.
4. Wardlaw, A.C., Practical Statistics for experimental biologists.
5. Zar, J.H., Biostatistical Analysis.
6. Elhance, D. N., Practical Problems in Statistics, Kitab Mahal, Allahabad.
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. Madrigal, Lorena, Statistics for Anthropology.
13. Pradhan, Ashok, Janjatiya Janankiki



M.A./M.SC. ANTHROPOLOGY

**SEMESTER-II
LAB COURSE I – PRACTICALS IN ARCHAEOLOGY**

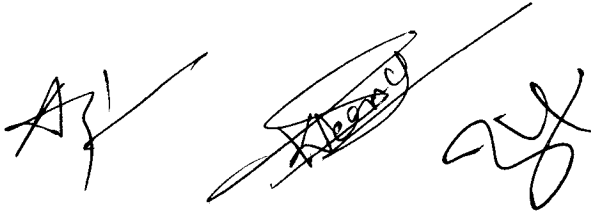
MAX. Marks- 80

MIN. Marks - 27

- 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.
- 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**

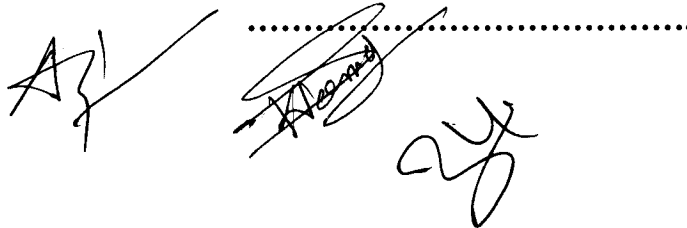
MAX. Marks- 80

MIN. Marks - 27

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).

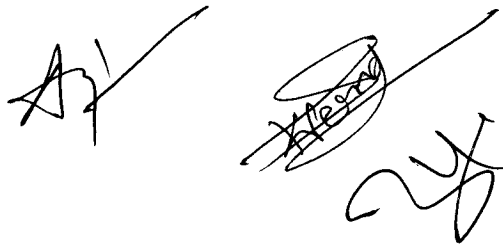
Two typed copies of analyzed data is to be submitted in the department in the form of a Field work Report

The image shows three handwritten signatures. The first signature on the left is a stylized 'A' with a diagonal slash. The second signature in the middle is a cursive signature that appears to be 'A. Desai' and is positioned above a horizontal dotted line. The third signature on the right is another cursive signature.

**School of Studies in Anthropology
Pt. Ravishankar Shukla University, Raipur**

M.A./M.Sc. ANTHROPOLOGY

Semester – III

The image shows three handwritten signatures and a circular stamp. The stamp is located in the center and contains the text 'Ravishankar Shukla University' and 'Raipur' in a circular arrangement. The signatures are written in black ink and are positioned around the stamp.

July 2024 - December 2024

M.A./M.SC. ANTHROPOLOGY

**SEMESTER-III
PAPER I - APPLIED ANTHROPOLOGY (GROUP - A & - B)**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT- I

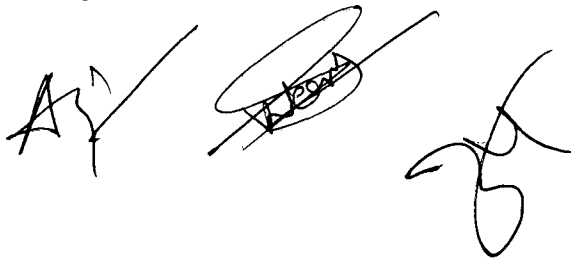
- Meaning and Scope of Applied Biological Anthropology.
- Anthropology of Sports.
- Nutritional Anthropology.
- Designing of defense equipments.
- Defense Services.

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 Mission.

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. Backer, PT and Weiner (Eds), The Biology of Human Adaptability.
7. Beal, Virginia, Nutrition and the Life Span
8. Craig, Human Development
9. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
10. Forbes, GB, Human Body Composition
11. Sodhi, HS, Sports Anthropology
12. Willigt, JV, Applied Anthropology: An Introduction
13. Stern, C., Principles of Human Genetics.
14. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and Human Genetics An Introduction.
15. McKusick, V.A., Human Genetics.



M.A./M.SC. ANTHROPOLOGY

**SEMESTER-III
GROUP - A : PHYSICAL ANTHROPOLOGY
PAPER II - ADVANCED HUMAN BIOLOGY**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-1

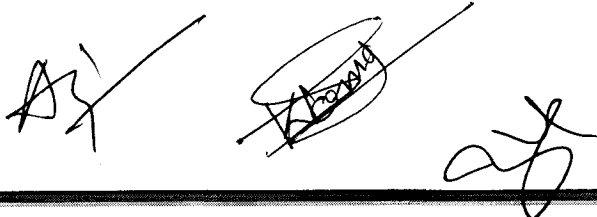
- Gene expressivity: Lethal genes, Sub-lethal genes, modifying genes, Co-dominance. Suppressor genes, Selfish gene Variable Penetrance in man.
- Sex determination in man.
- Dermatoglyphics: Identification, Topography, Finger prints pattern-identification, pattern intensity, Furuhata and Dankmeijer's index.
- Palmar Dermatoglyphics- Configurational areas, Main line formula and Index & transversality, atd angle and flexion creases.

UNIT-2

- Probability.
- Hardy-Weinberg law, Testing Equilibrium, Applications of Hardy Weinberg Law in Human Population Genetics.
- Genetic Polymorphism: Transient and Balanced.
- Concept of Gene Pool and Gene Frequency.

UNIT-3

- 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-4

- Occurrence of Mutation: Mutation Rate- Direct and Indirect Method.
- Selection in Human Population, Selection Relaxation, Selection Leading to Changes in Gene.
- Frequency and Selection leading to change in Genetic Equilibrium.
- Inbreeding : Definition and Concept, Inbreeding with Pedigree.
- Coefficient of Inbreeding. Genetics Consequences of inbreeding in Human Population.
- 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
3. (India).
4. Li, C. C. Population Genetics, Chicago University Press, Chicago.
5. Baker, P.T. & Weiner (Eds.), The Biology of Human Adaptability.
6. Beal, Virginia, Nutrition and the Life Span.
7. Beutler, E., Red Cell Metabolism: A Manual of Biochemical Methods.
8. Bouge, D., Principles of Demography.
9. Brock and Mayo, The Biochemical Genetics of Man.
10. Burdette, W.J., Methodology of Human Genetics.
11. Craig, Human Development.
12. Dixit, M., Human Nutrition Principles and Applications in India.
13. Emery A.E.H., Elements of Medical Genetics.
14. Eveleth, P.B. & Tanner, J.M., Worldwide variations in Human Growth.
15. Giblett, E.R., Genetics Markers in Human Blood.
16. Li, C.C., Human Genetics
17. Malhotra, K.C. & ISHG, Calcutta, Statistical Methods in Human Population Genetics, IBRAD, ISI
18. Wright, S., Evolution and Genetics of Population
19. Stanfield, W.D., Theory and Problems of Genetics.
20. Burdette, WJ, Methodology in Human Genetics
21. Crow, J.F. & Kimura, M., An Introduction to Population Genetic Theory
22. Rothwell, N.V., Human Genetics.
23. Mange, J.E. & Mange, A.P., Basic Human Genetics.
24. Bhamarh, H.S. & Chaturvedi, C.M., A Textbook of Genetics.

AS

~~AS~~
AS

M.A./M.Sc. ANTHROPOLOGY

**SEMESTER -III
GROUP - A : PHYSICAL ANTHROPOLOGY
PAPER III – HUMAN GROWTH AND NUTRITION**

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Human growth and Development: Pre-natal and Post-natal growth, infancy, Childhood, adolescence, adulthood, senility.
- Human growth curves Catch up and Catch down growth.
- Basic methods of growth studies - Cross-sectional, Longitudinal, Mixed Longitudinal Linked longitudinal.

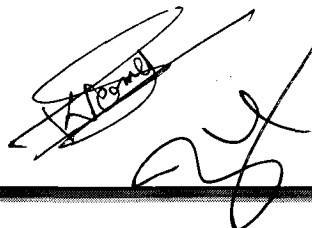
UNIT – II

- Factors affecting human growth: Heredity, Environment , Hormone and Nutrition.
- Human Adaptation : Allen's and Bergmann's rule
- 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, Anemiaphylaxis 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. & Balasubremian, 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.
18. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
19. Forbes, GB, Human Body Composition

M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-III
GROUP - A : PHYSICAL ANTHROPOLOGY
PAPER- IV HUMAN MOLECULAR GENETICS**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT -I

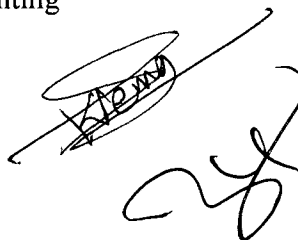
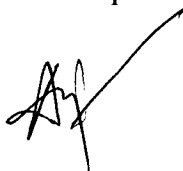
- Definition and scope of Molecular Genetics.
- Nucleic acid: Structure, Chemical and physical properties of nucleic acids, spectroscopic and thermal properties of nucleic acids.
- DNA organization in chromosomes: DNA structure, DNA replications.
- RNA structure.
- Gene transcription in eukaryotes.

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, Labeling nucleic acid probes, Transgenic organisms.

UNIT-III

- DNA Polymorphism DNA mutation and repair, Repetitive DNA.
- Gene mapping, Physical mapping, Genomic imprinting.
- Expression of eukaryotic protein-coding genes.
- Genetic code and Protein synthesis.
- DNA Sequencing and fingerprinting



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 Counseling of molecular disorders.

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).
3. Levis,R.2003. Human Genetics Concepts and Application.4th ed. Dubuque, IA: McGraw-Hill.
4. Koolman, J and Roehm, K.H. 2005.Color Atlas of Biochemistry. 2nd ed. Thieme Stuttgart. New York.
5. Lewin.2003. Genes VIII. 1st ed. Prentice Hall.
6. Mc Kusick, V.A. Human Genetics.
7. Rieger, R. et al., Glossary of Genetics – Classical and Molecular
8. Brock and Mayo, The Biochemical Genetics of Man
9. Winchester, A.M., Human Genetics.

AS

AS

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - A : PHYSICAL ANTHROPOLOGY

LAB COURSE I – PRACTICALS IN APPLIED BIOLOGICAL ANTHROPOLOGY

MAX. Marks- 80

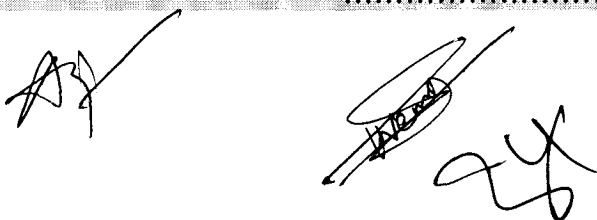
MIN. Marks - 27

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. Teachniques of blood grouping: ABO blood group system Rh, blood group system & MN blood group system. Personal Identification by blood grouping.
6. Calculation of gene frequencies.
7. Test of ABH saliva secretion.
8. Test of Hemoglobin determination in human blood.
9. Test for Sickle cell hemoglobin.
10. Test for Colour blindness P.T.C. taste sensitivity.
11. Examination of R.B.C. in Human Blood.
12. Examination W.B.C. in Human Blood.
13. Dermatoglyphics: Analysis of finger, palm, sole and toe prints
14. 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 unlessstated 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,
4. Kamla Raj Enterprises, Delhi. Shrivastava, B. K. 1983. A Manual of Practical Physiology, Samit Medical Publications,
5. Patna. 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 HUMAN GROWTH, NUTRITION &
PHYSIOLOGY**

MAX. Marks- 80

MIN. Marks - 27

I Human Growth :

- Techniques of taking skinfold measurement: Biceps, Triceps, Sub-scapular, Supra-iliac.
- Body Proportions.
- Body Composition.
- Somatotyping.

II Nutrition:

- Detection of nutritional status on the basis of body measurements
- Nutritional Anthropometry: Age-ht, Age-wt, Ht-wt.
- Body Mass Index (BMI)
- Waist/Hip Ratio

III Evaluation of Nutritional Status on the Basis of Clinical Signs :

- Hair
- Skin
- Nail
- Face
- Mouth
- Tongue
- Eye

IV Physiology:

- Examination of Pulse Rate
- Determination of Blood Pressure
- Determination of Vital Capacity
- Hand Grip

Recommended Readings:

1. Jelliffee, D. B. & Jelliffee, 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. Jelliffee, 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)**

**MAX. Marks- 80
MIN. Marks - 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

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.
- Action anthropology. : Historical background, Basic Concepts, Rules of Action Anthropology Distinction between Applied and 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. Backer, PT and Weiner (Eds), The Biology of Human Adaptability.
7. Beal, Virginia, Nutrition and the Life Span
8. Craig, Human Development
9. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
10. Forbes, GB, Human Body Composition
11. Sodhi, HS, Sports Anthropology
12. Willigt, JV, Applied Anthropology: An Introduction
13. Stern, C., Principles of Human Genetics.
14. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and Human Genetics An Introduction.
15. McKusick, V.A., Human Genetics.

M.A./M.Sc. ANTHROPOLOGY

SEMESTER-III

GROUP - B : SOCIAL- CULTURAL ANTHROPOLOGY

PAPER II – THEORY AND METHODS IN SOCIAL-CULTURAL ANTHROPOLOGY

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT-I

- History of Anthropology Thought.
- Pioneers in Anthropology.
- Evolutionism : Spencer, Morgan, Tylor, Jamer Frazer.
- Neo-evolutionism : Leslie White, Julian Steward, Sahlin
- Diffusionism: Perry, Elliot Smith, Graebner, Freidrich Ratzel.
- Historical Particularism : Boas, Wissler, Kroebar.

UNIT-II

- Functional: B. Malinowski, Merton.
- Structural-Functionalism: Radcliffe-Brown, Evans-Pritchard, Mayer Fortes, Raymond Firth, Nadel.
- Structuralism: Levi Strauss, Leach.
- Psychological Anthropology : Culture and Personality Studies : Kardiner, Linton, Ruth Benedict, Cora-du-Bois, Margaret Mead, Spiro, Mary Douglas, A. Kleinman, AFC Wallace, Stephen Taylor.

UNIT-III

- Philosophical anthropology: Concept of Value, Cultural Relativism, Value and human rights : Herskovits.
- Cognitive Anthropology.
- Historical and Dialectical Materialism: Hegel, Marx and Engels.
- Symbolic and Interpretative Anthropology: Turner, Schneider, Geertz.
- Post-Modernism: Marcus, Fischer, Jean Baudrillard, Michel Foucault, Jacques Derrida.

- Anthropology & Gender : Leela Dubey, Renato Rosaldo, Marilyn Strathern, Zora Neale Hutson.

UNIT-IV

- “Primitive” as a conceptual model in Anthropological research.
- Emic-Etic paradigms.
- Synchronic- Diachronic paradigms.
- Ethnographic method for policy planning and intervention.
- Synthesizing micro and macro paradigms, Inductive and deductive approaches.
- Dilemma of “We” and “They” in research.
- Efficacy of qualitative method and its application as an additive tool to quantification.
- Autonomous nature of Anthropology: Integration of Scientific and humanistic approaches.
- Anthropologist as scientist, citizen and humanist.

Recommended Readings:

1. Jha, M. Manavshastriya vichardhara- Ek Parichaya. (in Hindi).
2. Shrivastava, A.R.N. Sanskritik Manav vigyan – Siddhanta aur Uplabdhyan ((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. Routlege 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.
27. Schneider, Turner and Douglas. Symbolic and Interpretative Anthropology
28. Tylor, E.B. Studies in Cognitive Anthropology
29. Upadhyay and Pandey. History of Anthropological thought
30. Upadhyay and Pandey. Tribal Development in India.

M.A./M.SC. ANTHROPOLOGY

**SEMESTER-III
GROUP - B: SOCIAL- CULTURAL ANTHROPOLOGY
PAPER III - MUSEOLOGY AND VISUAL ANTHROPOLOGY**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- History and Development of Museum Movement: Meaning and definition of museum, A short history of museum movement in India.
- Classification of Museum in India: National Museum, State Museum, University Museum, Specialized Museum in India.
- Museum Administration, Acquisition and Arrangement of specimens; Museum Administration,
- Planning of Museum Building, Planning of Museum Gallery, Principles of Display, Lighting of Museum Galleries, Mode and ways of Acquisition of museum specimens, Arrangement of Museum.

UNIT-II

- Documentation and labels in Museum : Need for Documentation, Methods of Documentation, Safeguards of Records, Development of Computer based Documentations, Documentations of Ethnographic specimens, Museum Labels, Dioramas, Models and Charts, Museum Photography.
- Conservation of Museum: Causes of decay and determination of Museum objects, Care and handling of Museum objects, Packing of Museum objects, cleaning and repairing, Preservation of organic objects, Preservation of Inorganic objects.



UNIT-III

- Visual anthropology: Meaning, definition, concepts, scope, uses and problems. Visual communication through folk arts and modern mass media. Visual anthropology as a discipline for study and as a mode of recording and documenting human societies and their cultures. History and development of visual anthropology.
- Approaches to anthropological films. Visual anthropology and analysis of cultural style. Development of visual anthropology and ethnographic films in India . Scope of visual anthropology in India; Its uses, urgent problems and future possibilities.
- Visual Anthropology as a mode to preserve culture and as an input to cultural enrichment. Visual anthropology as an aid to visual literacy and cultural development

UNIT-III

- Visual anthropology and films: commercial, realistic, new wave and documentary films. Television and visual anthropology. Video-tape: New techniques of observation and analysis in anthropology.
- Film review, appreciation and criticism. Film as an art. The film language. Necessary conditions for film making. Screening of visual anthropological films and their critical review.
- Production of anthropological films, script writing, shooting, editing, sound mixing, commentary.
- Advancement of film technologies to make video films with ease.

Recommended Readings:

1. Markham, S. F. & Hargreaves, H. The Museum of India.
2. Ghosh, D. P. Problems & Trends in Museology
3. Choudhary, J. The Ethnographical collection & their display.
4. Blanderleith, N. J. The Conservation & Antiquities of works and Art.
5. UNESCO (Pub.) A Quaterly Review, Ministry of Education & Social welfare Museum.
6. Bijay K. Behera and Subodha K. Mohanty: Museology and Museum Management in India. Mayur Publication:Bhubneshwar
7. Agnihotri, V. 2003. Manav aur uski. Bhotik Sanskriti (in Hindi), K.K. Publications, Allahabad.
8. Arnheim, R. 1969 Visual Thinking, University of California Press.
9. Asch, T. 1971 Ethnographic Film Production, Film Comment 7(1):40-53.
10. Asch, T. 1972 Making Ethnographic film for Teaching and Research, PIEF Newsleter, 3(2):6-10
11. 4Asch, T. et al. 1973 Ethnographic film: Structure and function, Ann. Reviews of Anthropology, 2:179-187

12. Barndt, D. 1974 Toward a Visual study of Society, Michigan State University, College of Social Sciences
13. Barnouw, E. 1974 Documentary: A History of Non-fiction film, Oxford University Press, New York Anthropology 192
14. Becker, 1981 Exploring society photographically, University of Chicago Press
15. Bogaart, N.C.R. and Methodology in Anthropological film making, Herodot, Gottingen H.W.E.R. Ketelaar (Ed) 1983
16. Breen, R. (Ed) 1977 Ethnographic Film, Cambridge University Press
17. Hockings, P. (Ed) 1975 Principles of Visual Anthropology, Mouton, The Hague
18. Collier, J. Visual Anthropology: Photography as a Research Method, Collier, M. 1986 University of New Mexico Press
19. Taureg, M. Visual Explorations of the World, Herodot, Aachen Ruby, J. 1987
20. Thorn, R. 1987 Visual anthropology as Teaching Method, CVA Newsletter, Jan 29-32
21. Mead, M. 1982 The study of culture at a distance, Chicago University Press Metraux, R. (Eds)
22. Jeffrey, I. A concise History, Oxford University Press, New York 1981 Photography:



M.A./M.SC. ANTHROPOLOGY

**SEMESTER-III
GROUP - B : SOCIAL-CULTURAL ANTHROPOLOGY
PAPER IV – TRIBAL DEVELOPMENT**

MAX. Marks- 80

MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Definition of tribe and scheduled Tribe. Distribution of scheduled Tribes. Demographic trends. Classification and characteristics of tribal regions. Racial and linguistic classification of Scheduled Tribes. Social structure. Tribal Economy (Stages of economy). Tribal religions.
- Tribal Policy: Tribal Policy, Panchsheel Neeti of Tribal Policy Regulatory and development measures during British India. Indian Constitutions –safeguards and provisions for Scheduled Tribes: socio-cultural, economic, education, political services, etc. History of regulatory and developmental measures in pre-Independence period. Administration of Scheduled Areas (Fifth Schedule to the Constitution), Tribal Areas (Sixth Scheduled to the Constitution) and tribal majority States. Important Regulations promulgated by Governors in Scheduled Areas.
- PESA: 73rd Amendment.

UNIT – II

- Tribal Economy : Forests – shifting cultivation- Forest department-its policy, Acts and regulations, Joint Forest Management : tribal agriculture – land holding – land rights-land tenures and land reforms – adoption of modern agricultural technology : allied economics- fishing and hunting ; pastoralism; village and cottage industries; distributions: consumption, saving and investments; tribal markets.
- International and National funding for tribal schemes.
- Land alienation, Indebtedness, Bonded labour and forms of tribal exploitation: Role of cooperation, cooperatives and other financial institutions; Tribal and non-tribal

AS

AS

AS

interaction patterns. Impact of Acts and Regulations against land alienation and debt redemption measures.

UNIT – III

- History of tribal development in India. Tribal Development in Five Year Plans.
- Tribal Education : Literacy and educational levels: educational programmes : formal, non-formal and vocational; problems in the promotion of tribal education and female education.
- House and Health : housing condition and housing programmes; health, sickness and disease – drinking water, ethno-medicine and modern medical systems; roads and communications –status and issues.
- Impact of industrializations and urbanization. Displacement of tribals as a result of land acquisition for projects and their rehabilitation. Contributions of Anthropology in Tribal Development.
- Anthropological of Approaches of Tribal Development.

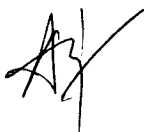
UNIT-IV

- Tribal's Contributions on Freedom Movement ; Religious movement; Political movements.
- Basic issues in transition : Loss of languages and traditions, identity and problems of integration
- Planning and Development: Scheduled Tribes in Five Year Plans; Tribal development through SMPT Blocks, TD Blocks and Tribals Sub-plans; Voluntary efforts and role of tribal leadership. Resources-rich regions and resources-depleted regions. Poverty alleviation programmes. Dispersed tribals. Primitive groups. Oceanic communities.
- History of tribal movement in India with special reference to Chhattisgarh.

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-CULTURAL ANTHROPOLOGY

LAB COURSE-I : PRACTICALS IN MUSEOLOGY

MAX. Marks- 80

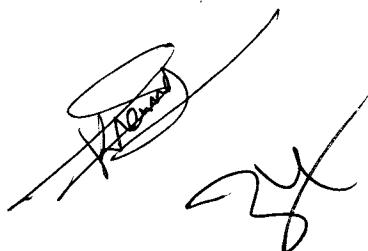
MIN. Marks - 27

Conservation

- Conservation in Museums : Causes of Decay and deterioration of Museum Objects. Integrated Pest Managements. Treatment of Inset Infected objects.
- Care and Handling of Muscum objects : General Rules for care of Museum objects. Care and handling of some important museum objects : Sculptures, Metal objects, Jewellery, Ceramics and Glass, Oil Paintings, Paper Paintings, Ivory objects.
- Packing of Museum objects : General principles of packing, packing material.
- Packing methods of some museum objects : Stone Sculpture, Terrcottas and Pottery Pieces, Bronze Statues, Miniature Paintings.
- Cleaning and Repairing : Cleaning, Repairing, Strengthening, Renewing

Preservation

- Preservation of Organic Objects -
Preservation of materials of plant origin : Wood and Bamboo, Preparation of Creosote Solution, Preparation of Shellac Solution.
Preservation of Bark origin objects.
Preservation of Basketry objects.
Preservation of Fibres origin objects.
Preservation of Textiles objects.
Preservation of Books and Paper Materials
Preservation of Painting on Paper and cloth
- Preservation of Materials of Animal Origin -
Preservation of Bone objects.
Preservation of Leather objects.
Preservation of Feather objects.
Preservation of Hair origin objects
Preservation of Fur origin objects.
Preservation of Horn origin objects
Preservation of Sheel origin objects.



- Preservation of Inorganic object–
- Preservation of Stone objects
- Preservation of Bead objects
- Preservation of Glass objects
- Preservation of Pottery and clay objects
- Preservation of Copper and Bronze objects
- Preservation of Iron objects
- Preservation of Silver objects
- Preservation of Gold objects
- Preservation of Coinsd

Recommended Readings:

1. Basu, T. M. Indian Museum Movement, A. K. Banerjee 89, Mahatma Gandhi Road, Calcutta7
2. Zeheer M. Museum Management, Ram Advani Book.
3. Aiyppan, A. & Satyamurthy, S. T. Handbook of Museum Technique, Govt. of Madras Publication, Gupta Brothers Vishakhapatnam.
4. Markham, S. F. & Hargreaves, H. The Museum of India.
5. Ghosh, D. P. Problems & Trends in Museology
6. Choudhary, J. The Ethnographical collection & their display.
7. Blanderleith, N. J. The Conservation & Antiquities of works and Art.
8. UNESCO (Pub.) A Quaterly Review, Ministry of Education & Social welfare Museum.
9. Bijay K. Behera and Subodha K. Mohanty: Museology and Museum Management in India. Mayur Publication: Bhubneshwar.
10. Agnihotri, V. 2003. Manav aur uski Bhotik Sanskriti (in Hindi), K.K. Publications, Allahabad.

Ai

24

M.A./M.SC. ANTHROPOLOGY

SEMESTER-III

GROUP - B : SOCIAL-CULTURAL ANTHROPOLOGY

LAB COURSE-II : FIELDWORK BASED REPORT AND SEMINAR ON ETHNO-MUSEOLOGY AND VISUAL ANTHROPOLOGY.

MAX. Marks- 80

MIN. Marks – 27

- Meaning and Definition of Museum.
- Classification of Museum
- Techniques of display of Museum objects in museum.
- Visual anthropology: Meaning, definition. concepts, scope, uses and problems.
- Draw and describe the measurement of any two from each category of Ethno-Museological Specimen in the Museum of S.O.S. in Anthropology.
 - A student has to present seminar along with submission of brief report containing characteristic features of material objects collected by him / her during field-work in one of the tribal groups of the Chhattisgarh on any one of the following categories.

- A) Housing patterns
- B) Agricultural implements
- C) Fishing, Hunting, Fire Appliances.
- D) Costumes and dress
- E) Ornaments
- F) Musical instruments
- G) Masks
- H) Folk Tals & Folk Lore
- I) Folk Songs
- J) Folk Dance
- K) Tribal Paintings
- L) Any other

- Production of anthropological films, script writing, shooting, editing, sound mixing, commentary.
- Film review, appreciation and criticism.

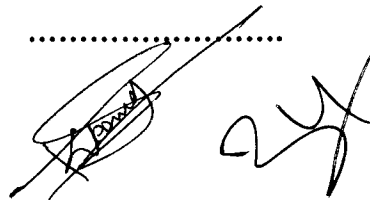
Recommended Readings:

1. Choudhary, J. The Ethnographical collection & their display.
2. Agnihotri, V. 2003. Manav aur uski Bhotik Sanskriti (in Hindi), K.K. Publications, Allahabad.
3. . Asch, T. 1971 Ethnographic Film Production, Film Comment 7(1):40-53

4. 3 Asch, T. 1972 Making Ethnographic film for Teaching and Research, PIEF Newsleter, 3(2):6-10
5. Asch, T. et al. 1973 Ethnographic film: Structure and function, Ann. Reviews of Anthropology, 2:179-187
6. Breen, R. (Ed) 1977 Ethnographic Film, Cambridge University Press
7. Thorn, R. 1987 Visual anthropology as Teaching Method, CVA Newsletter, Jan 29-32
8. Collier, J. Visual Anthropology: Photography as a Research Method, Collier, M. 1986 University of New Mexico Press
9. Basu, T. M. Indian Museum Movement, A. K. Banerjee 89, Mahatma Gandhi Road, Calcutta7
10. Zeheer M. Museum Management, Ram Advani Book.
11. Aiyppan, A. & Satyamurthy, S. T. Handbook of Museum Technique, Govt. of Madras Publication, Gupta Brothers Vishakhapatnam.
12. Markham, S. F. & Hargreaves, H. The Museum of India.
13. Ghosh, D. P. Problems & Trends in Museology
14. Choudhary, J. The Ethnographical collection & their display.
15. Blanderleith, N. J. The Conservation & Antiquities of works and Art.
16. UNESCO (Pub.) A Quaterly Review, Ministry of Education & Social welfare Museum.
17. Bijay K. Behera and Subodha K. Mohanty: Museology and Museum Management in India. Mayur Publication:Bhubneshwar.
18. Agnihotri, V. 2003. Manav aur uski Bhotik Sanskriti (in Hindi), K.K. Publications, Allahabad.



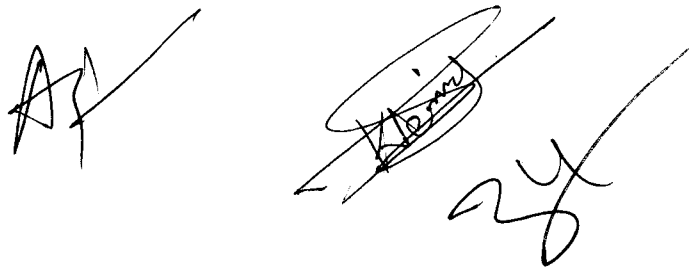
.....



**School of Studies in Anthropology
Pt. Ravishankar Shukla University, Raipur**

M.A./M.Sc. ANTHROPOLOGY

Semester – IV



January 2025 – June 2025

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

**SEMESTER-IV-GROUP- A & B
PAPER I –ECOLOGICAL ANTHROPOLOGY**

MAX. Marks- 80

MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Ecological Anthropology: definition and approach. Aims and objectives; key terms and concepts used (only a brief mention). Relation with, or position among, other disciplines within and outside anthropology.
- The distinctive interdisciplinary nature of ecological anthropology. Historical background and development of ecological anthropology.
- Major branches of ecological anthropology. Growth of ecological anthropology beyond cultural ecology. Other branches : population ecology, systems ecology, ethnoecology, socio-biology, archaeological ecology, human energetics.

UNIT – II

- Ecological approach as a reaction to the Deterministic explanations. A critique of Cultural Determinism and Environmental Determinism.
- A gradual shift from Determinism to Possibilism; Possibilistic versions of Boas, Kroeber and Steward.
- Ecological approach as a reaction to the theory of unilinear evolution, and as a proponent of the school of multilineal evolution.
- Ecological approach as a reaction to the concept of culture as an abstract 'Superorganic' level. Revival of cultural materialism and emergence of 'Systems' approach.

Handwritten signatures and initials.

UNIT – III

- Ecology and ecosystem: ecology as a natural science. Definition of ecology; concepts of ecosystem, eco-niche, ecological community, energy pyramid, ecological hierarchy, competition for resources, territorialism, adaptation and adaptive specialization, feedback and Carrying capacity.
- Cultural ecology: inadequacy of original definitions of ecology and ecosystem when applied to human society and culture.
- Anthropological reinterpretation of ecology, ecosystem and other related concepts; man-nature and culture-nature relationship reviewed from the viewpoint of cultural ecology; ecological transition.
- Concept of culture-core and its relation with environment as well as 'other' aspects of culture. Ecological ethnography: study of huntergatherers, nomads and pastorals, island communities, etc.

UNIT – IV

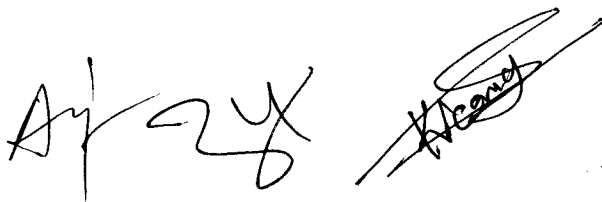
- Human ecology and environmental problems: human activities and their impact on ecosystems, ecological balance and environmental quality.
- Environmental problems and issues : degradation of land, water, air, forests and biodiversity resources. Global warming, disturbances in ozone layer and other global environmental issues.
- Relation between development and environmental problems. Concept of ecologically/environmentally sustainable development. Ecological considerations in development planning.
- Ecological anthropology and environmentalism: environmental protests, movements and activism. International environmental conventions. Anthropological issues involved in environmentalism. Role of ecological anthropologists in the debate of environmentalism.

Recommended Readings

1. A. Roberto Frisancho: Human Adaptation
2. Barth, F. 1956 'Ecological Relations of Ethnic Groups in Swat, Pakistan', American Anthropologist.



3. Bennet, John 1979 'The Ecological Transition : Cultural Anthropology and Human Adaption', Pergamon Press Inc., Great Britan.
4. Chapple, Elliot 1980 'Biological Foundations of Individuality and Culture', Robert E. Krieger Publication, New York.
5. Changnon & Irons 'Evolutionary Biology and Human Social Behavior'
6. Cohen, M., Nathan 'The Food Crisis in Pre-history : Over Population and the Origins of Agriculture'
7. Eidt, R.C. 'Man, Culture and Settlement'
8. Gadgil & Guha 1997 This Fissured Land : An Ecological History of India. OUP
9. Hardesty. Donald 1997 'Ecological Anthropology', John Wiley and Sons. India Oxford University Press, New Delhi.
10. Moran, E.F. Human Adaptability: An Introduction to Ecological Anthropology
11. Netting, R.M. The Ecological Approach in Cultural Study
12. Odum, H.T. Environment, Power and Society
13. Odum, Eugene Fundamentals of Ecology
14. Reddy, G.P. Scarcity and Survival
15. Steward, Julian. Theory of Culture Change
16. Tax, S. & Freeman, L. Horizons of Anthropology
17. Tiwari & Sharma. Tribal Eco-system and Malnutrition in India
18. Ucke & Dimbleby. The Domestication and Exploitation of Plants and Animals

Two handwritten signatures in black ink. The first signature is on the left and the second is on the right, both appearing to be stylized and possibly illegible.

M.A./M.Sc. ANTHROPOLOGY

**SEMESTER-IV
GROUP - A: PHYSICAL ANTHROPOLOGY
Paper- II Medical Genetics**

MAX. Marks- 80

MIN. Marks - 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT I

- Medical Genetics: Meaning and scope; Application of Genetics in medicine. Causation of Genetic diseases/Syndrome defects/disorders. Methods in identification of Genetic Diseases: Pedigree method, Twin Method.

UNIT II

- Skin- Ichthyosis, Baldness, Epiloia, the Porphyrrias,
- The skeletal system – Marfan`s Syndrome, Nail Patella Syndrome, Brachydactyly, Syndactyly, Polydactyly, Ankylosing Spondylitis, Rheumatoid arthritis.

UNIT III

- Spinabifida and anencephaly.
- Osteogenesis imperfecta. Muscle – Muscular dystrophies.
- Eye – Glaucoma, cataract, retinoblastoma. Jaws – Hare lip and palate.
- Ears - Deafness. Alimentary system : Gastric and Duodenal Ulcers, Peptic Ulcers, Cirrhosis of liver

The image shows three handwritten signatures in black ink. To the right of the signatures is a circular stamp with some illegible text inside, possibly a date or a mark.

UNIT IV

- Respiratory system – Cystic fibrosis.
- Cardio Vascular System – Congenital Heart Disease, Coronary Heart Diseases and Hypertension Kidney and Urino-Genital Tract – 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 Y
7. Emery, AEH, Elements of Medical Genetics

Handwritten signatures and initials:
A large stylized signature on the left, followed by the initials "JY" in the middle, and a signature that appears to be "H. J. Y." on the right.

M.A./M.SC. ANTHROPOLOGY

**SEMESTER-IV
GROUP - A : PHYSICAL ANTHROPOLOGY
PAPER- III FORENSIC ANTHROPOLOGY**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

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 sole 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.



Recommended Readings:

1. Introduction to Forensic Anthropology-Surider Nath
2. Action area in Anthropology-A.K.Kalla
3. Bass, W. M. Human Osteology: A Laboratory and Field Manual of the Human Skeleton. 4 the Human Skeleton.Missouri Archaeological Society, 1995.
4. Blau, Soren, and Douglas Ubelaker. Handbook of Forensic Archaeology and Anthropology. Left Coast Press, 2009.
4. Boddington, A., Garland, A. N., and Janaway, R. Death, Decay, and Reconstruction: Approaches to Archaeology and Forensic Science. Manchester University Press, c.1987.
5. Byers, Steven N. Introduction to Forensic Anthropology. 4th ed. Prentice Hall, 2010.
6. Haglund, William D., Marcella H. Sorg, and Diane L. France. Human Remains: Recognition, Documentation, Recovery, and Preservation. CRC Press, c. 2002.
7. Haglund, William D., and Marcella H. Sorg. Advances in Forensic Taphonomy: Method, Theory, and Archaeological Perspectives. CRC Press, c. 2002.
8. Iscan, Mehmet Yasar, and Kennedy, K. A. R. Reconstruction of Life from the Skeleton. Alan Liss, 1989.
9. Komar, Debra, and Jane Buikstra. Forensic Anthropology: Contemporary Theory and Practice. Oxford University Press, 2007.
10. Krogman, Wilton Marion, and Iscan, Mehmet Yasar. The Human Skeleton in Forensic Medicine. Charles C. Thomas, 1986.
11. Steele, D. Gentry, and Bramblett, Claude A. The Anatomy and Biology of the Human Skeleton. 1st ed. Texas A&M University Press, c.1988.
12. Stewart, Thomas Dale. Essentials of Forensic Anthropology. Forward by Ellis R. Kerley. Charles C. Thomas,c1979.
13. Taylor, Karen. Forensic Art and Illustration. CRC Press, 2001.
14. Ubelaker, Douglas H. Human Skeletal Remains: Excavation, Analysis, and Interpretation. 2nd ed. Taraxacum, 1989.
15. White, Tom D., and Pieter A. Folkens. The Human Bone Manual. Academic Press, 2005.

Handwritten signatures and initials, including a large signature that appears to be "A.K.Kalla" and another signature that is partially obscured by a scribble.

M.A./M.SC. ANTHROPOLOGY
SEMESTER-IV
GROUP - A : PHYSICAL ANTHROPOLOGY
PAPER- IV SPORTS ANTHROPOLOGY

MAX. Marks- 80
MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- v. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- vi. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- vii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- viii. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Sports: Its relation to anthropology.
- History and development of sports anthropology. Its relevance to Indian context.
- Traditional sports and games in India.
- Energy and sports activity: introduction, concept, interaction of energy systems.
- Fuel for sports: introduction, different food stuffs and their involvement during exercise
- Effect of intensity and duration of exercise on fuel consumption.

UNIT – II

- Cardio-vascular fitness.
- Physical work capacity and sports performance.
- Introduction to Kinanthropometry, body proportionality and the age changes.
- Body proportionality in relation to sports.
- Human physique and body composition and its role in sports participation and excellence.
- Different methods for studying human physique and assessment of body composition for both sexes.



UNIT – III

- Biological measures of maturity (skeletal, dental and sexual) and its role in sports performance.
- Racial variations in physical structure and participation in sports.
- Race and sports performance.
- Sports talent selection in young children on the basis of structural, functional and endurance characteristics.
- . Ethnicity, race, sports and political policies interference

UNIT – IV

- Genetic constitution, physical fitness and sports performance.
- Drug uses in sports.
- Habitual physical activity, tribal subsistence activities related to game.
- Sports and games for handicapped children and adults.
- Gender specific sports and games

Recommended Readings

1. Boyd W.C., 1950 Genetics and the Races of Man. Little Brown, Boston
2. Das B.M., 1980 Outlines of Physical Anthropology. Kitab Mahal, Allahabad
3. Garn S.M., 1971 Human Races. Thomas, Springfield, Illionis
4. Hooton e.A., 1965 Up From the Ape. Motilal Banarasidas, Delhi
5. Eveleth P.B. and Worldwide Variations in Human Growth. Cambridge University Tanner J.M., 1990 Press, Cambridge
6. Forbes G.B., 1987, Human Body Composition, Springer-Verlag, New York Anthropology 171
7. Sheldon W.H., Stevens S.S., Varieties of Human Physique. Harper Grow, New York Tucker, W.B. 1940
8. Lohman T.G., 1992 Advances in Body Composition Assessment, Human Kinetics, Champaign
9. Montagu A., 1960. An Introduction to Physical Anthropology.
10. Singh I.P. and Anthropometry, Kamal-Raj Publishers, Delhi M.K. Bhasin, 1968,

11. Singh S.P., Sidhu L.S. Skeletal Maturity, HBPS, Patiala and J. Singh, 1992
12. Sodhi H.S., 1991 Sports Anthropometry, Anova Publishers, Mohali
13. Tanner J.M., et al., 1983 Assessment of Skeletal Maturity and Prediction of Adult Height (TW2 method)
14. Weiner J.S. and Human Biology - A guide to Field Methods Laurie J.A., 1969

Handwritten signatures and initials, including 'Ary' and 'S.P.S.'

M.A./M.SC. ANTHROPOLOGY
SEMESTER VI
GROUP – A AND B
DISSERTATION/ PROJECT WORK

MM-200


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 One Month weeks of field investigation/approximately One Month 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 Staff Council according to their specialization. Dissertations/Project work will typically be a document of about 100-150 pages with sections in the following sequence:-

- i. Introduction
- ii. Review of Literature
- iii. Methodology
- iv. Result & Discussion
- v. Conclusions & Recommendations
- vi. References

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

**SEMESTER-IV-GROUP- A & B
PAPER I –ECOLOGICAL ANTHROPOLOGY**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

- v. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- vi. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- vii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- viii. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

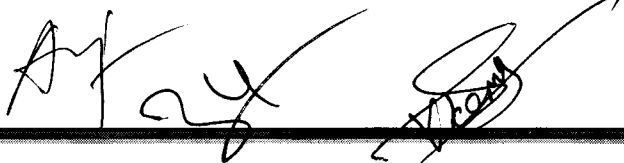
UNIT – I

- Ecological Anthropology: definition and approach. Aims and objectives; key terms and concepts used (only a brief mention). Relation with, or position among, other disciplines within and outside anthropology.
- The distinctive interdisciplinary nature of ecological anthropology. Historical background and development of ecological anthropology.
- Major branches of ecological anthropology. Growth of ecological anthropology beyond cultural ecology. Other branches : population ecology, systems ecology, ethnoecology, socio-biology, archaeological ecology, human energetics.

UNIT – II

- Ecological approach as a reaction to the Deterministic explanations. A critique of Cultural Determinism and Environmental Determinism.
- A gradual shift from Determinism to Possibilism; Possibilistic versions of Boas, Kroeber and Steward.
- Ecological approach as a reaction to the theory of unilinear evolution, and as a proponent of the school of multilineal evolution.
- Ecological approach as a reaction to the concept of culture as an abstract ‘Superorganic’ level. Revival of cultural materialism and emergence of ‘Systems’ approach.

UNIT – III



- Ecology and ecosystem: ecology as a natural science. Definition of ecology; concepts of ecosystem, eco-niche, ecological community, energy pyramid, ecological hierarchy, competition for resources, territorialism, adaptation and adaptive specialization, feedback and Carrying capacity.
- Cultural ecology: inadequacy of original definitions of ecology and ecosystem when applied to human society and culture.
- Anthropological reinterpretation of ecology, ecosystem and other related concepts; man-nature and culture-nature relationship reviewed from the viewpoint of cultural ecology; ecological transition.
- Concept of culture-core and its relation with environment as well as 'other' aspects of culture. Ecological ethnography: study of huntergatherers, nomads and pastorals, island communities, etc.

UNIT – IV



- Human ecology and environmental problems: human activities and their impact on ecosystems, ecological balance and environmental quality.
- Environmental problems and issues : degradation of land, water, air, forests and biodiversity resources. Global warming, disturbances in ozone layer and other global environmental issues.
- Relation between development and environmental problems. Concept of ecologically/environmentally sustainable development. Ecological considerations in development planning.
- Ecological anthropology and environmentalism: environmental protests, movements and activism. International environmental conventions. Anthropological issues involved in environmentalism. Role of ecological anthropologists in the debate of environmentalism.

Recommended Readings

1. A. Roberto Frisancho: Human Adaptation
2. Barth, F. 1956 'Ecological Relations of Ethnic Groups in Swat, Pakistan', American Anthropologist.
3. Bennet, John 1979 'The Ecological Transition : Cultural Anthropology and Human Adaption', Pergamon Press Inc., Great Britan.

4. Chapple, Elliot 1980 'Biological Foundations of Individuality and Culture', Robert E. Krieger Publication, New York.
5. Changnon & Irons 'Evolutionary Biology and Human Social Behavior'
6. Cohen, M., Nathan 'The Food Crisis in Pre-history : Over Population and the Origins of Agriculture'
7. Eidl, R.C. 'Man, Culture and Settlement'
8. Gadgil & Guha 1997 This Fissured Land : An Ecological History of India. OUP
9. Hardesty. Donald 1997 'Ecological Anthropology', John Wiley and Sons. India Oxford University Press, New Delhi.
10. Moran, E.F. Human Adaptability: An Introduction to Ecological Anthropology
11. Netting, R.M. The Ecological Approach in Cultural Study
12. Odum, H.T. Environment, Power and Society
13. Odum, Eugene Fundamentals of Ecology
14. Reddy, G.P. Scarcity and Survival
15. Steward, Julian. Theory of Culture Change
16. Tax, S. & Freeman, L. Horizons of Anthropology
17. Tiwari & Sharma. Tribal Eco-system and Malnutrition in India
18. Ucke & Dimbleby. The Domestication and Exploitation of Plants and Animals

Ajay



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

**SEMESTER-IV-GROUP-
GROUP B: SOCIAL-CULTURAL ANTHROPOLOGY
PAPER II – INDIAN ANTHROPOLOGY**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

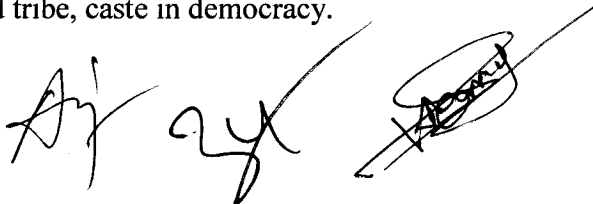
- ix. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
x. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
xi. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
xii. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

UNIT – I

- Approaches to the study of Indian society, culture and civilization: Indological, Anthropological, historical, etc. Ancient Culture:
- Vedic and later vedic age.
- Indian people: racial, ethnic, linguistic and religious elements (composition) and distribution of people. Autochthons, peopling of India: migration, Hypergamy, Hypogamy, DNA explanations.
- Unity and diversity in Indian society and culture: linguistic, political, ethnic, communal and religious tensions and conflicts; national integration.
- Basis of traditional Indian social structure and life cycle: Varnashram dharma, Purushartha, impact of Buddhism, Jainism, Islam and Christianity.

UNIT – II

- Social Structure: caste system -definition and criteria of Caste system, Varna and Caste, Caste among non-Hindus, caste outside India; dominant caste, caste-mobility-fusion, lack of fusion and fission. Backward castes and scheduled castes: statutory provisions, caste and tribe, caste in democracy.

The image shows three handwritten signatures in black ink. The first signature is on the left, the second is in the middle, and the third is on the right. The third signature is written over a circular stamp that contains some illegible text.

- Indian village: a myth or reality; village: a part society: Jajmani system: impact of new technology and urbanisation — changing agrarian social structure; peasant movements, Panchayati Raj. Importance of village studies.
- Voluntary initiatives/development and welfare movements in 19th and 20th century: anticaste, antiuntouchability, women's emancipation, education and health.
- Role of social reform leaders in caste system: Mahatma Gandhi's and Ambedkar's constructive approaches.
- Contributions of religious and spiritual leaders/reformers in caste system.

UNIT – III

- Socio-cultural change: Change Agents, Theories of culture: Acculturation, Enculturation, Culturation, Adoption, Diffusion, Assimilation, Modernisation, Post-modernisation, Materialistic perspectives, Idealistic perspectives.
- Indigenous processes - Sanskritisation, Parochialisation - Universalisation, Great-little traditions, Sacred complex: Nature-man-spirit complex.
- Exogenous processes: Westernisation, Industrialisation, urbanisation and globalization. Globalisation and its impact on Indian society and culture. Urbanisation and its impact on Indian society and culture.

UNIT – IV

- Growth of anthropology in India: contributions of the following anthropologists, scholar administrators in 19th and 20th century in the understanding of tribal, caste and village communities and Indian social structure and civilisation. List is illustrative:
 - J.H.Hutton
 - Mortimer Wheeler
 - Jhon Grierson
 - A.L.Basham
 - Haimendorf
 - V.Elwin
 - Milton Singer
 - S.C.Roy
 - G.S.Ghurye
 - L.A.K.Aiyer
 - N.K. Bose

- D.N. Majumdar
- I.Karve
- M.N. Srinivas
- S.C.Dube
- L.P.Vidyarathi
- Mckim Marriott
- Robert Redfield
- B.R. Ambedkar

Recommended Readings:

1. Agrawal, D.P. The Archaeology of India. Curzon Press, London
2. Allchin, B & Allchin , R. The Rise of Civilization in India and Pakistan. Cambridge University Press
3. Sankalia, H.D. Pre and Proto History of India and Pakistan. Deccan College, Pune
4. Karve, Irawati. Kinship Organisation in India
5. Karve, Irawati. Hindu Society - an interpretation
6. Mandelbaum, D. Society in India Anthropology 82
7. Marriot, M. Village India: Studies in the Little Community.
8. Singh, K. People of India: An Introduction. Anthropological survey of India, Calcutta
9. Vidyarthi, L.P. Sacred complex of Kashi. A microcosm of Indian Civilization, Concept Publication, New Delhi
10. Leach, E.R. Aspects of Caste in South India, Ceylon and North-West Pakistan
11. Singer, M. When a Great Tradition Modernizes
12. Srinivas, M.N. Social Change in Modern India
13. Haimendorf, C. Tribes of India, the struggle for survival.
14. Singh, K.S. Tribal Society in India
15. Dube S.C. India's Changing Villages
16. B.R. Ambedkar (1916). "Castes in India: Their Mechanism, Genesis and Development". Paper presented at an Anthropology seminar organized by Dr A.A. Golden Wiser in Columbia University on 9 May 1916. Text first printed in Indian Antiquary Vol XLI (May 1917) .
17. Dr Babasaheb Ambedkar: Writings and Speeches (1979), Vol I, edited by Vasant Moon, Education Department, Government of Maharashtra, Mumbai

M.A. / M.SC. ANTHROPOLOGY

**SEMESTER-IV
GROUP-B: SOCIAL-CULTURAL ANTHROPOLOGY
PAPER III – DEVELOPMENT ANTHROPOLOGY**

**MAX. Marks- 80
MIN. Marks – 27**

Each paper will have 40 compulsory questions divisible into 4 sections.

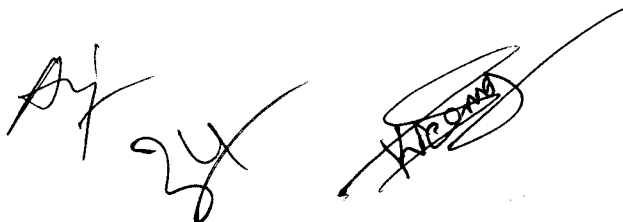
- xiii. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- xiv. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- xv. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- xvi. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

Unit-I

- Development: Meaning and evolution of the concept.
- Indices and measurements of development.
- Development theories and Models.
- Contributions of Anthropology to development studies.
- Development studies contributions to anthropological thought and method.
- Moral/Ethical issues and limitations of Development Anthropology.

Unit-II

- Policy and Planning : Concept of planning, formulation of policy and plan strategy-phases, targets, regions, resources and people; Participatory Approaches in Development, Anthropological perspectives and data in development planning. Conflict in people centered and programme centred paradigms.
- Agencies for development: Governmental and non-government, approaches, models, administration, training man power, peoples participation.

Handwritten signatures and initials in black ink, including a large signature on the left and a smaller one on the right.

Unit-III

- Evaluation and Impact : Indicies and measures; anthropological approaches - assessment of social impact, evaluation of development programmes. Gender issues in development.
- Role of values and institutions in development : Caste, religion and culture : Weber, Bailey, Epstein, Milton Singer and Madan.
- Rural Development in India: Historical Background ; Special programmes and poverty alleviation programmes. Land reforms; Panchayati Raj; Community based organizations.

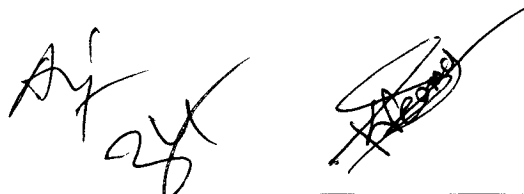
Unit-IV

- Development of Scheduled Castes: Special component plans. Development of Scheduled caste; Constitutionals provisions and safeguards, protective legislation,; structure of tribal development.
- Sustainable development : Environment, natural resources, people concern and needs.
- Case Studies in Development, NGO case studies in different regions, Success stories in cooperative management.

Recommended Readings:

1. Zamora, 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. Cochrane. 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 Manavvigyan (in Hindi), Madhya Pradesh Hindi Granth Academy, Bhopal
14. Schumacher, E. F. Small is Beautiful

.....

Handwritten signature and a circular stamp with illegible text.

M.A./M.SC. ANTHROPOLOGY

SEMESTER-IV

GROUP - B: SOCIAL-CULTURAL ANTHROPOLOGY

**PAPER-IV : ANTHROPOLOGY OF DISASTER, DISPLACEMENT &
REHABILITATION**

MAX. Marks- 80

MIN. Marks – 27

Each paper will have 40 compulsory questions divisible into 4 sections.

- i. Section-A (Multi-Choice Questions) : 20 questions of 1 mark each.
- ii. Section-B (Short Questions) : 8 questions (two from each unit) of 2 marks each (word limit: 2-3 lines)
- iii. Section-C (Long Questions) : 8 questions (two from each unit) of 3 marks each (word limit : 75 words)
- iv. Section-D (Very Long Question) : 4 questions (one from each unit) of 5 marks each (word limit : 150 words)

Unit-I

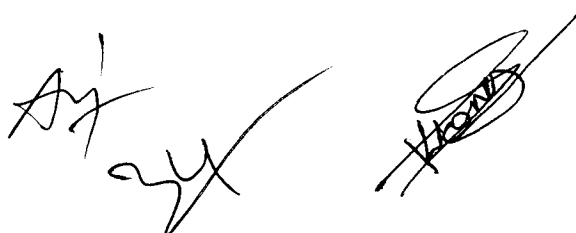
- Definition of disaster.
- Nature of disaster.
- Anthropological perspective on disaster: Natural and manmade disaster.
- Natural disaster: Causes and classification.
- People's perception of disaster. Folklore of disaster.

Unit-II

- Natural situation of disaster:
1. Floods 2. Epidemics 3. Famines, 4. Earthquakes 5. Fire 6. Cyclones.
- Manmade situation of disaster:
1. Chemical and nuclear leaks 2. Wars 3. Terrorism in India 4. Ethnic conflicts: Naxalism/Maoism.

Unit-III

- Development and Displacement:
1. Dams 2. Roads and Railways 3. Development of cities 4. Establishment of industries 5. National Parks and Sanctuaries 6. 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. Fernandes, Walter and Enakshi Ganduli Development, Displacement and Rehabilitation.

Handwritten signatures and initials are present at the bottom of the page, including a signature that appears to be "Aj" and another that appears to be "24".

M.A./M.SC. ANTHROPOLOGY
SEMESTER-IV
GROUP – A AND B
DISSERTATION/ PROJECT WORK

MM-200

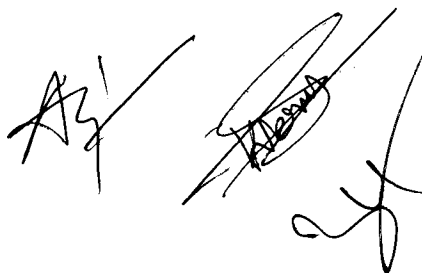
In Semester IV (Group-A and Group-B) students are required to undertake a Dissertation/Project work consisting of approximately one-month preparatory work, approximately One Month of field investigation/approximately One Month for Lab work and / or data analysis and completion of the Dissertation/Project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

The Dissertation will be selected in consultation with the faculty members decided by Staff Council according to their specialization. Dissertations/Project work will typically be a document of about 100-150 pages with sections in the following sequence:-

- vii. Introduction
- viii. Review of Literature
- ix. Methodology
- x. Result & Discussion
- xi. Conclusions & Recommendations
- xii. References

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

.....



Choice Based Paper for Student for Other Disciplines

PAPER: I BASICS IN ANTHROPOLOGY

Credit : 03

MAX Marks : 80

MIN Marks: 27

UNIT-I

- Anthropology: Definition, Branches
- Man's Place among Primates.
- Primate: Definition, Evolutionary trends.
- Blood Groups: Types, Distribution, Inheritance.

UNIT – II

- Archaeology: Definition, Branches, Objectives
- Outline of Indian Archaeological Cultures
- Tool Technology

UNIT-III

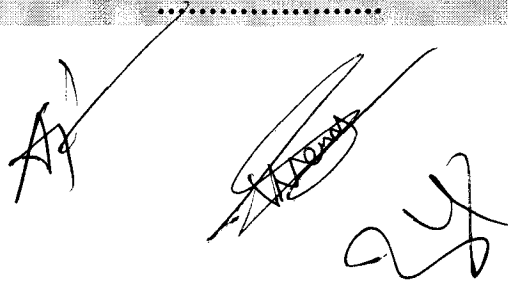
- Tribe: Definition & Characteristics Features
- Culture: Meaning, Definition & Characteristics
- Ethnographic Methods.

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. Comas, J. 1960. Manual of Physical Anthropology, Springfield, Charles C. Thomas.
8. Sarkar, R. M. 1976. Fundamentals of Physical Anthropology. Blackie (India).
9. Das, B. M. 1985. Outlines of Physical Anthropology, Kitab Mahal, New Delhi.

10. Shrivastav, A. R. N. 1994. Sharirik Manav Vigyan (in Hindi), Gyandeeep Prakashan, Allahabad.
11. A grawal, D.P. & M.G. Yadava. 1995. Dating the human past.
12. Bhattacharya, D.K. 1977. Palaeolithic Europe.
13. Bordes, F. 1968. The Old Stone age. Weidenfeld and Nicolson.
14. Burkitt, M.C. 1969. Old Stone Age: Study of Palaeolithic Times.
15. Campbell, B. C. 1979. Humankind emerging, II edition.
16. Goode & Hatt. Methods in Social Research.
17. Young, P. V. Scientific Social Surveys and Research.
18. Danda, Ajit. Research Methodology in Anthropology, Inter- India, New Delhi.
19. Gupta, S. P. Statistics Methods.
20. Elhance, D. N. Practical Problems in Statistics, Kitab Mahal, Allahabad.
21. Levin, J. Elementary Statistics in Social Research.
22. Sarin, S.S. and Balchandani, M.K. Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.

.....

The image shows three handwritten signatures or initials in black ink. The first is a stylized 'A' with a diagonal line through it. The second is a more complex signature with a large loop and a diagonal line. The third is a cursive signature that appears to be 'S.S.' or similar.

Choice Based Paper for Student for Other Disciplines

PAPER- II: APPLICATIONS OF ANTHROPOLOGY

Credit : 03

MAX Marks : 80

MIN Marks: 27

UNIT-I

- Applied Biological Anthropology.
- Applications of Human Genetics.

UNIT – II

- Nutritional Anthropology.
- Anthropology of Sports.
- Applied anthropology in industry.
- Applied anthropology in education.

UNIT-III

- Applied Social Anthropology
- Action Anthropology.

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. Backer, PT and Weiner (Eds), The Biology of Human Adaptability.
7. Beal, Virginia, Nutrition and the Life Span
8. Craig, Human Development
9. Eveleth, PB and Tanner, JM Worldwide Variation in Human Growth
10. Forbes, GB, Human Body Composition
11. Sodhi, HS, Sports Anthropology
12. Willigt, JV, Applied Anthropology: An Introduction
13. Stern, C., Principles of Human Genetics.
14. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and Human Genetics An Introduction.
15. McKusick, V.A., Human Genetics.

.....

