

**DEPARTMENT OF ANTHROPOLOGY AND
TRIBAL DEVELOPMENT**

**BLUE PRINT OF SYLLABUS OF UG & PG
IN
ANTHROPOLOGY
2015**

(Under CBCS with effect from 2015)

**GURU GHASIDAS VISHWAVIDYALAYA
BILASPUR, C.G.**



**Department of Anthropology and Tribal Development
Guru Ghasidas Vishwavidyalaya, Bilaspur (CG)**

Academic Session: 2015 - 2016

**(Undergraduate)
B.A./B.Sc. Ist Semester**

SEMESTER - I					
Code	Subjects	End Semester Exam	Internal Assessment	Total	Credits
ANT-B101	Basics of Biological Anthropology	30	20	50	2
ANT-B102	Basics of Social and Cultural Anthropology	30	20	50	2
ANT-B103	Practical in Biological Anthropology	30	20	50	2
TOTAL		90	60	150	6

B.A./B.Sc. IInd Semester

SEMESTER - II					
Code	Subjects	End Semester Exam	Internal Assessment	Total	Credits
ANT-B201	Basics of Prehistoric Archaeology	30	20	50	2
ANT-B202	Indian Society and Culture	30	20	50	2
ANT-B203	Practical in Prehistoric Archaeology and Museology	30	20	50	2
TOTAL		90	60	150	

B.A./B.Sc. IIIrd Semester

SEMESTER - III					
Code	Subjects	End Semester Exam	Internal Assessment	Total	Credits
ANT-B301	Basics of Human Genetics	30	20	50	2
ANT-B302	Applied Anthropology	30	20	50	2
ANT-B303	Practical in Serology and Human Genetics	30	20	50	2
TOTAL		90	60	150	6

B.A./B.Sc. IVth Semester

SEMESTER - IV					
Code	Subjects	End Semester Exam	Internal Assessment	Total	Credits
ANT-B401	Tribal Development in India	30	20	50	2
ANT-B402	Bio-Cultural Evolution of Man	30	20	50	2
ANT-B403	Practicals in Palaeoanthropology	30	20	50	2
TOTAL		90	60	150	6

B.A./B.Sc. Vth Semester

SEMESTER - V					
Code	Subjects	End Semester Exam	Internal Assessment	Total	Credits
ANT-B501	Forensic Anthropology And Criminology	30	20	50	4
ANT-B502	Research Methodology	30	20	50	4
ANT-B503	Human Biology and Medical Genetics	30	20	50	4
ANT-B504	Sports and Nutritional Anthropology	30	20	50	4
ANT-B505	Practicals in Forensic Anthropology	30	20	50	2
ANT-B506	Practicals in Nutritional Anthropology	30	20	50	2
TOTAL		180	120	300	20

B.A./B.Sc. VIth Semester

SEMESTER -VI					
Code	Subjects	End Semester Exam	Internal Assessment	Total	Credits
ANT-B601	Basics of Population Studies	30	20	50	4
ANT-B602	Ethnography of Tribes of Chhattisgarh	30	20	50	4
ANT-B603	Fundamentals of Anthropological Thought	30	20	50	4
ANT-B604	Medical Anthropology	30	20	50	2
ANT-B605	Practical in General Field Work Techniques	30	20	50	2
ANT-B606	Field Work Report	90**	60*	150	4
	TOTAL	300	100	400	20

*Seminar, Review of Literature and Viva

**Report + Viva-Voce (based on Field Work)

**Elective papers for all students of other Departments
of this University**

Code	Subjects	End Semester Exam	Internal Assessment	Total	Credits
ANT-B601	Kinanthropometry	30	20	50	4
ANT-B602	Tribal Ethnography	30	20	50	4

**DEPARTMENT OF ANTHROPOLOGY & TRIBAL DEVELOPMENT
GURU GHASIDAS UNIVERSITY, BILASPUR Chhattisgarh**

OUTCOME OF THE UG HONORS SYLLABUS

(i) The students will have a fundamental and systematic or coherent understanding of the academic field of Anthropology, its different branches and applications, and its linkages with related disciplinary areas/subjects;

(ii) The students will have knowledge that creates different types of professionals related to the disciplinary/subject area of Anthropology, including professionals engaged in research and development, teaching and government/public services;

(iii) A skilful group of students with different specialisations of Anthropology and emerging developments in the field of Anthropology will be available in the market.

- Students will demonstrate the ability to use the knowledge of Anthropology in formulating and tackling Anthropology-related problems and identifying and applying appropriate anthropological principles and methodologies to solve a wide range of problems associated with human society.
- All the stakeholders including the students will recognise the importance of qualitative as well as quantitative data and approaches/methods in comprehending the human society.
- Students will plan and execute Anthropology-related experiments or field investigations, analyse and interpret data/information collected using appropriate methods, including the use of appropriate software such as programming languages and report accurately the findings of the experiment/field investigations while relating to the conclusions/findings to relevant theories of Anthropology.
- The students will demonstrate relevant generic skills and global competencies such as:

(i) Students will possess problem solving skills that are required to solve different types of Anthropology-related problems with well-defined solutions, and tackle open-ended problems that may cross disciplinary-area boundaries;

(ii) Students will be competent enough in investigating skills, related to Anthropology-related issues and problems;

(iii) Students will be equipped with communication skills involving the ability to listen carefully, to read text and research papers analytically and to present complex information in a concise manner to different groups/audiences;

(iv) Analytical skills of the students will be increased and ability to construct logical arguments using correct technical language related to Anthropology;

(vi) Personal skills ability of the students will be increased to work both independently and in a group.

➤ The students will demonstrate professional behaviour such as:

(i) being objective, unbiased and truthful in all aspects of work and avoiding unethical behaviour such as fabricating, falsifying or misrepresenting data or to committing plagiarism;

(ii) With the ability to identify the potential ethical issues in work-related situations;

(iii) And will appreciate the intellectual, environmental and sustainability issues; and

(iv) In promoting safe learning and working environment

- Unit I:** Meaning and Scope of Physical Anthropology; Application of Physical Anthropology.
- Unit II:** Theories of Evolution: Lamarckism and Darwinism,
- Unit III:** Man's place in animal kingdom; Comparative Study of man & apes; Outline of Evolution of Primates with special reference to skull, dentition and brain
- Unit IV:** Fossil evidences of human evolution; Description of anatomical features of early hominids: Australopithecine, Homo erectus, Neanderthals, Homo Sapiens; Anatomical modification due to assumption of erect bipedalism in man.
- Unit V:** Race: Meaning and definition; Selected criteria used for racial classification; Major races of the world.

Suggested Readings

1. Mader, S.S. (6th Ed.). 2000. Human Biology. Mc Graw Hill, New Delhi.
2. Yong J. Z. 1971. Introduction to the Study of Man. The English Language Book Society and Oxford University Press, Oxford.
3. Weiss, K. M. 1993. Genetic variation and human disease: Principles and evolutionary approaches. Cambridge University Press, Cambridge.
4. Ember C. R., Ember M., Peregrine P. N (2007). Anthropology (Twelfth Edition). Dorling Kindersley (India) Pvt. Ltd. Pearson.
5. Harrison G.A., Tanner J. M., Pilbeam D. R., Baker P. T. (2004) Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford Science Publications, University Press.
6. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.
7. Gaya Pandey (2010). Bio-Cultural Evolution. Concept Publishing Company Pvt. Ltd. New Delhi.
8. Das B.M. (2008) An outline of Physical Anthropology. Kitab Mahal, New Delhi
9. Reddy V. R. (2012) General Anthropology. Dr (Mrs) V. Indira, Tirupati, Andhra Pradesh, India.
10. Jurmain, R.; H. Nelson, L. Kilgore and W. Trevathan. (2011) Essentials of Physical Anthropology, Eight Edition. Wordsworth Cengage Learning, USA.
11. Buettner Janusch, J. (1969) Origins of Man: Physical Anthropology. Wiley Eastern Pvt. Ltd., New Delhi.
12. Shukla B.R.K. & Rastogi, S. (1990) Physical Anthropology & Human Genetics: An Introduction. Plaka Prakashan. Delhi.
13. Sarkar, R. M. (2004) Fundamentals of Physical Anthropology (New Edition). Book World. Kolkata.

Basics of Social and Cultural Anthropology

(30+20)

- Unit I:** Social and Cultural Anthropology: meaning, scope and development of social and cultural anthropology; Relationship with other social sciences.
- Unit II:** Basic Concepts in Cultural Anthropology: Concept of culture, characteristics of culture; Attributes of culture: culture trait, culture complex, cultural area.
- Unit III:** Basic Concepts in Social Anthropology: Social structure and social organization; Culture and Civilization; social stratification and civil society.
- Unit IV:** Social Institutions: Family – Definition, characteristics, typology, functions, changes in the concept; Marriage – Definition, typology of marriage, ways of acquiring mates, bride price and dowry; Kinship: definition; Types of kinship terms: classificatory and descriptive, Kinship Behaviour – Joking and avoidance relationship.
- Unit V:** Economic Organization: Concept and scope, characteristics of primitive and peasant economy; Religion, Magic and Science: Concept and meaning of primitive religion: Animism & Animatism, Manaism, Magic – Types, Sorcery, Witchcraft, Shamanism, Taboo; Political Organization: Types – Band, tribe, chiefdom, state.

Suggested Readings

1. Davis, Kingsley. (1949). Human Society. New York: Macmillan Co.
2. Metcalf, Peter. (2005). Anthropology: the Basics. Abingdon [England]: Routledge.
3. Barnard, Alan. (2000). History and Theory in Anthropology. Cambridge, U.K.: Cambridge University Press.
4. Nadel, S. F. (1951). The Foundations of Social Anthropology. Glencoe, III: Free Press.
5. Harris, C. C. 1990. Kinship Concepts in Social Thought. Minneapolis: University of Minnesota Press.
6. Levi-Strauss, Claude. 1969. The elementary structures of kinship. Boston: Beacon Press.
7. Goody, Jack, and Meyer Fortes. 1973. The Character of kinship. Cambridge [Eng.]: University Press.
8. Trautmann, Thomas R. 1981. Dravidian Kinship. Cambridge studies in social anthropology. Cambridge: Cambridge University Press.
9. Radcliffe-Brown, A. R., and Cyril Daryll Forde. 1950. African systems of kinship and marriage. London: Published for the International African Institute by the Oxford University Press.
10. Farber, Bernard. 1966. Kinship and family organization. New York: Wiley.
11. Barnes, J. A. 1971. Three styles in the study of kinship. Berkeley: University of California Press.
12. Karve, Irawati. 1968. Kinship organization in India. London: Asia Publication House.

B.A./B.Sc. Ist Semester

Course Credit:2

Paper Code: ANT-B103

Full Marks: 50

Practical in Physical Anthropology

(30+20)

- Unit I:** Human Skeleton and bones: identification, sketching and labelling of human skull
- Unit II:** Identification of long bones, girdles and vertical column.
- Unit III:** Drawing and labelling of anthropometric instruments – anthropometry rod, sliding and spreading calliper
- Unit IV:** Craniometric Measurements: Maximum Cranial Length; Maximum Cranial Breadth; Bizygomatic Breadth; Nasal Length; Nasal Breadth; Length of Foramen Magnum; Breadth of Foramen Magnum
- Unit V:** Calculation of Craniometric Indices: Cranial Index, Nasal Index, Foramen Magnum Index

Practical Record

Viva Voce

Note: The students are to perform the craniometric measurements on at least three skulls and record the results. They are to be familiar with details of each experiment such as aim of the experiment, instrument required, procedure, precaution and results of the experiment.

Suggested Readings

1. I. P. Singh & M. K. Bhasin. (1989) A Laboratory Manual on Biological Anthropology. Kamla-Raj Enterprises, Delhi.
2. D. Mukherjee, D.Mukherjee & P. Bharati. (2009) Laboratory Manual for Biological Anthropology. Asian Book Private Limited, New Delhi.
3. B.M. Das & R. Deka. Physical Anthropology Practical. Kitab Mahal, Allahabad, U.P.
4. S.J. Ulijaszek and C.G.N. Mascie-Taylor. Anthropometry: the individual and the population.
5. B. M. Das. Outlines of Physical Anthropology. New Delhi.
6. Galton F. (1884) Anthropometric Laboratory. London (Also in J. Anthropol. Inst., (Lond.) 1884, 14, 205).

- Unit I:** Meaning and Scope of Prehistoric Archaeology, Relationship of Prehistoric Archaeology with other branches of anthropology.
- Unit II:** Detailed structure of Geological time Scale; Pleistocene Epoch and its salient features and significance for bio-cultural evolution; Glaciation and Pluviation
- Unit III:** Dating Techniques: Relative Dating – stratigraphy, river terraces, fluorine dating; Absolute Dating – Radiocarbon (C-14) dating, Dendrochronology, Potassium-Argon Dating
- Unit IV:** An outline of European Pre-historic Archaeology (Paleolithic, Mesolithic and Neolithic).
- Unit V:** Tool typologies and technologies of Palaeolithic, Mesolithic and Neolithic Cultures of Europe

Suggested Readings

1. Bhattacharya, D. K. (2006). An outline of Indian Prehistory. Delhi: Palaka Prakashan.
2. Bhattacharya, D. K. (1977). Palaeolithic Europe. Netherland: Humanities press.
3. Sankalia, H. D. (1974). Prehistory and Protohistory of India and Pakistan. Pune: Deccan College.
4. Kevin Greene, Tom Moore. (2010). Archaeology: An Introduction. Fifth Edition. Routledge, Taylor & Francis Group, London and New York.
5. Tiwari S.K., Awasthi S.P. (2009). Early Man of The Indian Rock Shelter. Sharada Publishing House, Delhi.
6. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.
7. Gaya Pandey (2010). Bio-Cultural Evolution. Concept Publishing Company Pvt. Ltd. New Delhi.
8. Burkitt, M. (1963). The Old Stone Age: A study of Palaeolithic Times. London: Bowes and Bowes.
9. Sankalia, H. D. (1977). Prehistory of India. Delhi: Munshiram Manoharlal Publishers Pvt. Ltd.

B.A./B.Sc. IInd Semester

Course Credit: 2

Paper Code: ANT-B202

Full Marks: 50

Indian Society and Culture

(30+20)

- Unit I:** An outline of Cultural chronology of Ancient India: Palaeolithic, Mesolithic & Neolithic, Chalcolithic Cultures of India.
- Unit II:** People of India: Geographical, Racial and Linguistic Distribution.
- Unit III:** Social structure or Indian Village Communities – Verna System, Caste System, Jajmani System.
- Unit IV:** Unity in Diversity in Indian Society and Culture; Linguistic, Cultural and Religions; National Integration; Meaning and challenges.
- Unit V:** Processes of Socio-Cultural Changes in Indian Society – Sanskritization, Westernisation and Industrialisation.

Suggested Readings

1. Bailey, F. G. Tribe, Caste and Nation
2. Bailey, F. G. Caste and Economic Frontier
3. Beldileman T. O. Comparative Analysis of Jajmani System.
4. Beteille, Andre. Castes: Old & New
5. Bose N. K. Culture and Society in India
6. Cohn, B. S. India: Social Anthropology of a Civilization
7. Desai, A. R. Rural Sociology in India
8. Dube, S. C. India's Changing Villages
9. Dumont, Louis. Homo Heirachichus
10. Hutton, J. N. Caste in India
11. Karve, I. Hindu Society
12. Kluckhohn, C. Mirror of Man
13. Kothari, Rajni (ed.). (1985) Caste in Indian Politics Orient Longman
14. Marriott, Mckim. Village India
15. Mason, Philip (ed.) India and Ceylon: Unity & Diversity
16. Mandelbaum, D. G. Indian Society
17. Mayer, A. C. Caste and Kinship in Central India
18. Singer M (ed.) Traditional India: Structure & Change

- Unit I:** Drawing and description of Lower Palaeolithic Tools: Chopper, Cleaver, Handaxe
- Unit II:** Drawing and description of Middle and Upper Palaeolithic Tools: Scraper, Leaf Points
- Unit III:** Drawing and description of Mesolithic Tools: Microliths
- Unit IV:** Drawing and description of Neolithic Tools: Ring Stone and Celt
- Unit V:** Drawing and description of any three major technological.

Practical Record

Viva Voce

Note: The students are to perform the experiment on the provided archaeological tools and at least three museum specimens. They are to be familiar with details of each experiment such as aim of the experiment, required tools and museum specimens, procedure, handling and precautions.

Suggested Readings

1. Bhattacharya, D.K. (1979). Old Stone Age Tools: A Manual of Laboratory Techniques of Analysis. Calcutta: K. P. Bagchi and Company.
2. Inizan, M. L.; M. R. Ballinger; H. Roche and J. Tixier. (1999). Technology and terminology of Knapped Stone. Nanterre: CREP.
3. Oakley, K.P. (1972). Man the Tool Maker. London. Trustees of the British Museum Natural History.
4. Sankalia, H.D. (1982). Stone Age Tools: Their techniques, Names and Probable Functions. Poona: Deccan College.
5. Bhattacharya, D. K. (2006). An outline of Indian Prehistory. Delhi: Palaka Prakashan.
6. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.
7. Gaya Pandey (2010). Bio-Cultural Evolution. Concept Publishing Company Pvt. Ltd. New Delhi.
8. Sankalia, H. D. (1977). Prehistory of India. Delhi: Munshiram Manoharlal Publishers Pvt. Ltd.

B.A./B.Sc. IIIrd Semester
Paper Code: ANT-B301
Basics of Human Genetics

Course Credit: 2
Full Marks: 50
(30+20)

- Unit I:** Human Genetics: Meaning and Scope; Karyotyping; Structure and function of DNA and RNA.
- Unit II:** Mendel's Law and its application to man; Pattern of inheritance of autosomal, sex-linked traits; Chromosome abnormalities in Man: numerical and structural
- Unit III:** Genetic traits: ABO blood group system, Rh System, Sickle Cell Anaemia.
- Unit IV:** Genetic Polymorphism: Balanced and Transient
- Unit V:** Application of Human Genetics: Medico-legal application, Pre-natal diagnosis & Genetic Counselling

Suggested Readings

1. Weiss, K. M. 1993. Genetic variation and human disease: Principles and evolutionary approaches. Cambridge University Press, Cambridge.
2. Ember C. R., Ember M., Peregrine P. N (2007). Anthropology (Twelfth Edition). Dorling Kindersley (India) Pvt. Ltd. Pearson.
3. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.
4. Das B.M. (2008) An outline of Physical Anthropology. Kitab Mahal, New Delhi
5. Jurmain, R.; H. Nelson, L. Kilgore and W. Trevathan. (2011) Essentials of Physical Anthropology, Eight Edition. Wordsworth Cengage Learning, USA.
6. Shukla B.R.K. & Rastogi, S. (1990) Physical Anthropology & Human Genetics: An Introduction. Plaka Prakashan. Delhi.
7. Harris H. Human Biochemical Genetics. Cambridge University Press. 2010.
8. Reddy VR. Current Trends in Human Genetics and Physical Anthropology. Dr (Mrs) V. Indira, Vidyanagar, Tirupati, Andhra Pradesh, India. 2012.
9. Jobling, MA Hurles, M and Tyler-Smith, C. Human Evolutionary Genetics, Origins, Peoples and Disease. Garland Science, New York, 2004.
10. Strachan, T and Read, AP. Human Molecular Genetics. Garland Publishing Inc, New York, 2003.
11. Mange EJ and Mange AP. Basic Human Genetics. Sinauer Associates Inc.
12. Crawford, M. (Ed). Anthropological Genetics. Cambridge University Press. 2006.
13. Vogel, F and Motulsky, G. 1998. Human genetics: Problems & Approaches. Springer-Verlag Berlin. 2010.
14. Kothari Mehta Roychoudary. Essentials of Human Genetics. University Press, India.

B.A./B.Sc. IIIrd Semester

Course Credit: 2

Paper Code: ANT-B302

Full Marks: 50

Applied Anthropology

(30+20)

- Unit I:** Meaning and scope of Applied Anthropology: Applied Anthropology versus Action Anthropology and Development Anthropology.
- Unit II:** Major problems of tribes in India: Indebtedness, Land Alienation, Drinking, Health & Nutrition.
- Unit III:** Tribal Development Agencies: Tribal development planning and administration in India, Role of Social Worker, Voluntary organization and Christian Missionaries in Tribal Development.
- Unit IV:** Applied Physical Anthropology: Meaning and Scope, Application of Physical Anthropology in Sports & Industry, Medicine and Occupational Health;
- Unit V:** Globalization: Meaning and concept; Impact of Globalization on tribal communities.

Suggested Readings

1. Hariland Prins, Walrath and De Bride "Introduction to Anthropology"
2. L.P. Vidyarthi. Applied Anthropology in India: Principles Problems and Case Studies.
3. Aaron Podolefsky and Peter J Brown. (1989) Applying Anthropology. An Introductory Reader. Mayfield Publishing Company, California.
4. Johnnetta B Cole. (1982) Anthropology for the Eighties. Introductory Readings. Collier Macmillan Publishers, London.
5. Whitten P., Hunter D.E.K. (1990) Anthropology Contemporary Perspectives. (Sixth Edition).
6. Aaron Podolefsky and Peter J Brown (1997) Applying Cultural Anthropology: An Introductory Reader (Third Edition). Mayfield Publishing Company, California.

- Unit I:** Identification of Blood Group System in Human Beings: ABO and Rh Blood group system.
- Unit II:** Identification of sickle cell test status of the given subjects.
- Unit III:** Estimation of Haemoglobin content of given subject using Sahlis method.
- Unit IV:** Method of Identification of colour-blindness status of the given subjects.
- Unit V:** Method of Identification of taster or non-taster status of the given subjects using PTC taste sensitivity test

Practical Record

Viva Voce

Note: The students are to perform the serological and bio-chemical tests on at least three subjects and record the results. They are to be familiar with details of each experiment such as aim of the experiment, apparatus required, chemicals needed, procedure, precaution and results of the experiment.

Suggested Readings

1. Bhasin MK and Chahal. (1996) A Laboratory Manual for Human Blood Analysis. Kamla Raj Enterprises. Gali Bari Paharwali, Chawri Bazar, Delhi.
2. Harris H. (2010) Human Biochemical Genetics. Cambridge University Press.
3. Strachan, T and Read, AP. (2003) Human Molecular Genetics. Garland Publishing Inc, New York.
4. Templeton AR. (2006) Population Genetics and Microevolutionary Theory. John Wiley & Sons, Inc., Hoboken, New Jersey.
5. Relethford JH. (2012) Human Population Genetics. A John Wiley & Sons, Inc., Publication.
6. Gaur A.S. and Gaur S. S. (2009) Statistical Methods for Practice and Research. SAGE Response, New Delhi.
7. Wilson K. and Walker J. Principles and Techniques of Biochemistry and Molecular Biology (7th Edition). Cambridge University Press.
8. Bhasin M.K., Nath S., Sehgal. (2007) Human Blood Analysis. Kamla Raj Enterprises, Delhi, India.
9. Singh I.P. and Bhasin M.K. (2006) A Manual of Biological Anthropology. Kamla-Raj Enterprises, Delhi, India.

- Unit I:** Concept and Definition of Tribe; Definition and classification of Tribe; Approaches towards Tribal development during pre and post independent period
- Unit II:** Constitutional Safeguards for Schedule Tribes; Fifth & Sixth Schedules
- Unit III:** Tribal Development Administration: Tribal Sub-Plan - Integrated Tribal Development Agency (ITDA), Modified Area Development Agency (MADA), Cluster, Disperse Tribal Development Plan (DTDP) and Microproject
- Unit IV:** Constitutional bodies and institutional arrangement for Tribal Development, National Commission for STs, Tribal Advisory Council, Tribal Welfare Department, Tribal Research Institute.
- Unit V:** Development Initiative –Implementation and Impact of R&R Act, PESA and FRA.

Suggested Readings

1. Aron, Raymond & Levi Strauss. Cultural Dynamics' in Approaches to the Science of Socio-economic development (ed) by Peter Lengyel.
2. Vidyarthi, L. P. (ed). Applied Anthropology in India.
3. Vidyarthi, L. P. & B. N. Shay (ed). Applied Anthropology and Development in India.
4. Behura, N.K. and Panigrahi, N. Indian Constitution and the Tribals: Functioning of Fifth Schedule in the State of Orissa.
5. Cassen Robert & Associate (ed). Does Aid Work?
6. Cernea, Michael M. Putting People First: Sociological Variables in Rural Development.
7. Chambers, Robert. Rural Development; Putting the Last First.
8. Commission for UNESCO Netherlands. Cultural Dimension of Development.
9. Mathur, Hari Mohan (ed.). Anthropology in the Development Process.
10. Meier, Gerald, M. Leading Issues in Economic Development.
11. Dube, S.C. Modernization & Development: The Search for Alternative Paradigms.
12. Dube, S. C. Cultural Dimensions of Development in International Science Journal.
13. Foster, G. M. Traditional Culture and Impact of Technological Change.
14. Harris, J. (ed.) Rural Development.
15. Mathur, Hari Mohan. The Human Dimension of Development: Perspectives from Anthropology.
16. Nieuwinhuijze C. A. O., Van. Culture and Development: False dilemmas and real issues' in ISSJ, Vol. 18.
17. Schumacher, E. F. Small is Beautiful.
18. Skar, Harold (ed). Anthropological Contributions to Planned Change and Development.
19. Sharma, B. D. Planning for Tribal Development.

Bio-Cultural Evolution of Man

(30+20)

- Unit I:** Man as a bio-cultural being; Interdependency between Biological and Cultural Evolution.
- Unit II:** Geological Time Scale; Pleistocene Geology; Biological and Evolutionary Cultural Chronology; Hominization Process
- Unit III:** Primate Evolution: Major Changes in the morphological structure during Eocene, Oligocene & Miocene; Pliocene and Pleistocene; Evolution of bipedalism.
- Unit IV:** Archaeological evidence of human evolution, Evolution of Brain and language.
- Unit V:** Bio-cultural adaptation to cold, heat and high altitude

Suggested Readings

1. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.
2. Gaya Pandey (2010). Bio-Cultural Evolution. Concept Publishing Company Pvt. Ltd. New Delhi.
3. Montague, A (Ed.). Frontiers of Anthropology.
4. Montague, A (Ed.). Culture and the Evolution of Man.
5. Montague, A (Ed.). An Introduction to Physical Anthropology
6. Brace, L. C. & Metters, J. (Ed.) Man in the Evolutionary Perspective.
7. Pfeiffer, J. E. The Emergence of Man.
8. Grine F. E., Fleagle J. G., Leakey R. E. (2009) The First Humans - Origin and Early Evolution of the Genus Homo. Springer.
9. Harrison G.A., Tanner J. M., Pilbeam D. R., Baker P. T. (2004) Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford Science Publications, University Press.
10. Darshna Tyagi (2006) Physical Anthropology. Anmol Publications Pvt. Ltd. New Delhi, India.
11. Stanford C., Allen J. S., Anton S. C. (2010) Exploring Biological Anthropology. The Essentials (Second Edition). Pearson Printice Hall.
12. Haviland W. A, Prins H. L., Walrath, McBride B. (2007) Introduction to Anthropology. Cengage Learning. Cengage Learning India Pvt Ltd. New Delhi.
13. Ember C. R., Ember M., Peregrine P. N (2007). Anthropology (Twelfth Edition). Dorling Kindersley (India) Pvt. Ltd. Pearson.

B.A./B.Sc. IVth Semester
Paper Code: ANT-B403
Practical in Palaeoanthropology

Course Credit: 2
Full Marks: 50
(30+20)

- Unit I:** Identification and Drawing of Lower Apes: Chimpanzee, Orangutan and Gibbon.
- Unit II:** Identification and Drawing of Great Apes: Low land and mountain Gorilla
- Unit III:** Identification and Drawing of early hominoids: Australopithecus Africanus, Homohabilis, And Pithecanthropus.
- Unit IV:** Identification and Drawing of Fossil Hominids: Heidelberg man, Neanderthal man, Cromagnon (Homo sapiens)
- Unit V:** Identification and Drawing of Modern Human Skull (Homo sapiens sapiens)

Practical Record

Viva Voce

Note: In the absence of original specimen, cast models or good photographs may be utilized in the laboratory for Practical purposes.

Suggested Readings

1. Michael H. Day. Guide to Fossil Man (Fourth Edition) University of Chicago Press.
2. Ember C. R., Ember M., Peregrine P. N. (2007) Anthropology (Twelfth Edition). Pearson Printice Hall.
3. Grine F. E., Fleagle J. G., Leakey R. E. (2009) The First Humans - Origin and Early Evolution of the Genus Homo. Springer.
4. Harrison G.A., Tanner J. M., Pilbeam D. R., Baker P. T. (2004) Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford Science Publications, University Press.
5. Darshna Tyagi (2006) Physical Anthropology. Anmol Publications Pvt. Ltd. New Delhi, India.
6. Stanford C., Allen J. S., Anton S. C. (2010) Exploring Biological Anthropology. The Essentials (Second Edition). Pearson Printice Hall.

Forensic Anthropology and Criminology (30 +20)

- Unit I:** Meaning and Scope of Forensic Anthropology and Criminology.
- Unit II:** Punishment and Treatment of Offenders; Theories and Types of Punishment; Institutional and Non-Institutional treatment of Offenders – Probation, Parole, and Temporary Release;
- Unit III:** Crime Trends in India: Crime against Schedule Caste and Schedule Tribes.
- Unit IV:** Applications of finger and palmer Dermatoglyphics; Poroscopy; Somatoscopic characters in Personal Identification; Composition and analysis of Blood, Semen, Saliva, Sweat and Hair; DNA Finger Printing.
- Unit V:** Scientific investigation of un-natural death; Age, Sex and Stature estimation; Forensic Odontology, Super imposition and Facial Physiognomy; Polygraphs, Narco-analysis.

Suggested Readings

1. Aggrawal, A. Twisted Evidence (Science Reporter, August, 1992)
2. Bass, W. M. Human Osteology
3. Bhasin, M. K & Surinder Nath. Role of forensic Science in the New Millennium
4. Boorman and Dodd. Blood Group Serology
5. Bridges, B.C. Practical Finger printing
6. Chatterjee. Finger, Plam and Sole Prints
7. Chatterjee, J.B. Haematological Techniques
8. Chaurana. Human Osteology
9. Cherril, F.R. Finger print systems at Scotland
10. Field. Finger Print Hand Book
11. Gustafson. Forensic Odontology
12. Kind, Stuart & Michael. Science against Crime
13. Kirby, L.T. DNA Finger Printing: An Introductions
14. Kirk, P.L. Crime investigation
15. Krogman. The Human Skeleton in Forensic Medicine
16. Modi. Text Book of Medical Jurisprudence and Toxicology
17. Najjar, E.L. Forensic Anthropology
18. Saferstein, R. Criminalistics
19. Sharma, B.R. Forensic Science in Criminal Investigation and Trials
20. Simhadri, Y.C. Ex-Criminal Tribes of India
21. Steward, T.D. Forensic Anthropology
22. Sudha, T. Molecular Signatures (Science Reporter, August, 1992)
23. Surender Nath. Introduction to Forensic Anthropology
24. Surender Nath. Finger Print Identification
25. Symans, J. Crime and Detection
26. Turner. Forensic science and Laboratory Techniques
27. Yunis, J.J (Ed.) Biochemical Methods in Red cell Genetics

B.A./B.Sc. Vth Semester
Paper Code: ANT-B502
Research Methodology

Course Credit: 4
Full Marks: 50
(30+20)

- Unit I:** Introduction to Research Methodology: Meaning, objectives and types of research; Methodological Approaches in Anthropology: Holistic, Synchronic and Diachronic, Emic and Etic.
- Unit II:** Research Design: Meaning, Types: Exploratory, Descriptive, Experimental and Evaluative studies
- Unit III:** Different types of sampling Design; Census and Sample Survey.
- Unit IV:** Types of Data – Primary and Secondary data, Qualitative and Quantitative data; Techniques of Data Collection – Questionnaire - Interview Schedule; Methods of Study: Case Study, Observation, Genealogy, Life History.
- Unit V:** Interpretation of Data and Report Writing: Structure of a Research Report; Research article; References; Analysis of qualitative and Quantitative data.

Suggested Readings

1. Gaur AS, Gaur SS. Statistical Methods for Practice and Research. A guide to data analysing using SPSS. SAGE Response, New Delhi, India, 2009.
2. B.L. Agarwal. Basic Statistics. New Age International Publishers. Fourth Edition, 2006.
3. Sunder Rao, P.S.S. et al. An introduction to Biostatistics & Research Method. New Arrivals-PHI
4. Conover W.J. Practical Nonparametric Statistics. Third Edition. Wiley India (P) Ltd. Ansari Road, Daryaganj, New Delhi. 1999.
5. Wackerly Dennis D, Mendelhall III, Wiliam et al. Mathematical Statistics with application Duxbury Press, Pacific Grove.
6. Sunder Rao, P.S.S. et al. An introduction to Bio-statistics & Research Method. New Arrivals-PHI.
7. Fox and Alan. Elementary Statistics in Social Research. Gian Publishing House,

Human Biology and Medical Genetics

(30+20)

- Unit I:** Meaning and Scope of Human Biology, Relationship of human biology with other branches of biology, Application of Human Biology.
- Unit II:** Human Growth: Factors affecting growth; Stages and Patterns of human growth: Pre- natal, Post- natal and Adolescent.
- Unit III:** Human adaptation and Acclimatization; Adaptation to: Heat, Cold and High altitude.
- Unit IV:** Meaning and Scope of Medical Genetics; Role of genetics in Medicine; Inborn Error Metabolism; Haemoglobinopathies; Gene therapy
- Unit V:** Multifactorial Diseases: Diabetes, Hypertension; Pre-natal Diagnosis; Ethical Issues in Medical Genetics.

Suggested Readings

1. Mader, S.S. (6th Ed.). 2000. Human Biology. Mc Graw Hill, New Delhi.
2. Yong J. Z. 1971. Introduction to the Study of Man. The English Language Book Society and Oxford University Press, Oxford.
3. Ember C. R., Ember M., Peregrine P. N (2007). Anthropology (Twelfth Edition). Dorling Kindersley (India) Pvt. Ltd. Pearson.
4. Harrison G.A., Tanner J. M., Pilbeam D. R., Baker P. T. (2004) Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford Science Publications, University Press.
5. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.
6. Gaya Pandey (2010). Bio-Cultural Evolution. Concept Publishing Company Pvt. Ltd. New Delhi.
7. Das B.M. (2008) An outline of Physical Anthropology. Kitab Mahal, New Delhi
8. Reddy V. R. (2012) General Anthropology. Dr (Mrs) V. Indira, Tirupati, Andhra Pradesh, India.
9. Shukla B.R.K. & Rastogi, S. (1990) Physical Anthropology & Human Genetics: An Introduction. Plaka Prakashan. Delhi.
10. Sarkar, R. M. (2004) Fundamentals of Physical Anthropology (New Edition). Book World. Kolkata..
11. Relethford JH. Human Population Genetics. A John Wiley & Sons, Inc., Publication. 2012.
12. Reddy VR. Current Trends in Human Genetics and Physical Anthropology. Dr (Mrs) V. Indira, Vidyanagar, Tirupati, Andhra Pradesh, India. 2012.
13. Templeton, AR. Population Genetics and Microevolutionary Theory. Wiley Liss, New York, 2006.
14. Bhasin M.K. and Susanne C. (2010) Anthropology Today: Trends and Scope of Human Biology. Kamla Raj Enterprises, Delhi.

B.A./B.Sc. Vth Semester **Course Credit: 4**
Paper Code: ANT-B504 **Full Marks: 50**
Sports and Nutritional Anthropology **(30+20)**

- Unit I:** Anthropology of sports: Physical fitness, component of physical fitness
- Unit II:** Physical conditioning, training-techniques and physiological effects, environmental effects on physical performance: effect of heat stress, cold stress and high altitude on physiological response and performance.
- Unit III:** Body composition and Athletes, sports selection and monitoring
- Unit IV:** Human biological variability, health and nutrition; doping and performance; cultural constructions and physiologic implications of food across time, space and society
- Unit V:** An integrated bio-behavioural and Socio-Cultural perspective towards nutritional preference among different population groups of India.

Suggested Readings

1. Stinson S. (1992). Nutritional Adaptation. *Annual Review of Anthropology* 21:143-170.
2. Brughart R. (1990). The Cultural Context of Diet, Disease and the Body. In *Diet and Disease in Traditional and Developing Societies*. GA Harrison and JC Waterlow, eds. P. 307-325. Cambridge University Press. Cambridge.
3. Rozin P. (1987). Psychobiological Perspectives on Food Preferences. In *Food and Evolution: Toward a Theory of Food Habits*. M. Harris and EB Ross (eds.). Temple University Press. Philadelphia, pp. 181-205.
4. Quandt SA. (1987). Methods for Determining Dietary Intake. In *Nutritional Anthropology*. FE Johnston, ed. Pp. 67-84. Liss. NY.
5. Ulijasek SJ and Strickland SS. (1993). Introduction. In *Nutritional Anthropology: Prospects and Perspectives*. Pp. 1-5. Smith Gordon. London.

B.A./B.Sc. Vth Semester

Course Credit: 2

Paper Code: ANT-B505

Full Marks: 50

Practicals in Forensic Anthropology

Unit I: Study of human long bones and relevant measurements for estimation of stature. Estimation of age from skull, and determination of sex from skull and Pelvic measurements.

Unit I: Measurement and observations on living persons.

Unit I: Recording and classification of fingerprints, development of chance prints by various methods. Comparison of questioned and suspected fingerprints.

Unit I: Identification of blood stains, Determination of blood group from dried stains, Determination of origin (i.e.the species).Identification of seminal, urine and saliva stains.

Practical Record

Viva Voce

B.A./B.Sc. Vth Semester

Course Credit: 2

Paper Code: ANT-B506

Full Marks: 50

Practical in Nutritional Anthropology

(30+20)

- Unit I:** Collection of dietary intake of food items consumed by family member during a day (24hr recall method) administering a dietary survey schedule
- Unit II:** Calculation of per-day per-unit consumption of food groups and nutrients following Indian Council of Medical Research (ICMR) guidelines.
- Unit III:** Techniques of taking basic Somatometric Measurements: Height, Weight, Waist circumference, Hip circumference; Estimation of Body Mass Index (BMI), Waist Hip Ratio (WHR), Waist Height Ratio (WHTR) and classification of obesity.
- Unit IV:** Skinfold Measurement: Bicep, Tricep, Sub-scapular and Supra-iliac skinfold.
- Unit V:** Estimation of Adult Body Composition: Percent Body Fat (PBF), Body Mass Abdominal Index (BMAI), Body Adiposity Index (BAI); Subcutaneous Fat; Visceral Fat; Skeletal Muscle Percentage

Practical Record

Viva Voce

Note: The students are to perform the experiment on at least three subjects and record the results. They are to be familiar with details of each experiment such as aim of the experiment, instruments required, procedure, precaution and results of the experiment.

Suggested Readings

1. Singh I. P. & Bhasin M. K. (1989) A Laboratory Manual on Biological Anthropology. Kamla-Raj Enterprises, Delhi.
2. Mukherjee, D., Mukherjee, D., & Bharati, P. (2009) Laboratory Manual for Biological Anthropology. Asian Book Private Limited, New Delhi.
3. Das B.M. and Deka R. Physical Anthropology Practical. Kitab Mahal, Allahabad, U.P.
4. Ulijaszek S.J., and Mascie-Taylor C.G.N. Anthropometry: the individual and the population.
5. Das, B. M. Outlines of Physical Anthropology. New Delhi.
6. Galton F. (1884) Anthropometric Laboratory. London (Also in J. Anthropol. Inst., (Lond.) 1884, 14, 205).

B.A./B.Sc. VIth Semester

Course Credit: 4

Paper Code: ANT-B601

Full Marks: 50

Basics of Population Studies

(30+20)

- Unit I:** Population Studies: Nature and Scope, Major Theories on Population Studies.
- Unit II:** Sources of Population Data: Census, Vital Registration System: Sample Survey, NFHS.
- Unit III:** World Population; India Population; Causes for rapid population growth, Demographic Transition, Decadal Population Growth in India, Population problems in India.
- Unit IV:** Population Structure and its Characteristics: Age-Sex structure, Sex-Ratio, Marital Status, Literacy, Religion, and Occupation.
- Unit V:** Fertility: Basic measures and differentials; Mortality: Measures and differentials; Migration, India's Population Policy

Suggested Readings

1. Srinivastava, O. S. Demography.
2. Visaria, Pravin. Differentials and Determinants of Fertility.
3. Spiegelman, M. Introduction to Demography.
4. Cox P. R. (2008) Demography (Fifth Edition). Cambridge University Press.
5. Bhende A. A., Kanitkar T. (2010) Principles of Population Studies. Himalaya Publishing House, Pvt. Ltd.
6. Mathur R. N. Population analysis and Studies.
7. Barclay G. W. Techniques of Population Analysis.
8. Bouge Donald, J. W. Principles of Demography.
9. Bhende A. T., Kanitkar. Principles of Population Studies.
10. Raj Hans. Fundamentals of Demography.
11. Hauser P. and Duncan D. The Study of Population.
12. Sinha, V. C. and Zacharia E. Elements of Demography.
13. Park D. Preventive and Social Medicine.

B.A./B.Sc. VIth Semester **Course Credit: 4**
Paper Code: ANT-B602 **Full Marks: 50**
Ethnography of Tribes of Chhattisgarh **(30+20)**

- Unit I:** Meaning and Concept of Ethnology and Ethnography; Difference between Ethnology and Ethnography
- Unit II:** Tribal population of India: Geographic distribution, Demographic aspects, Linguistic, Economic and Racial Classification.
- Unit III:** An outline of Tribal population of Chhattisgarh: Geographic distribution, Demographic and Socio-economic characteristics (based on Census or State Level Survey)
- Unit IV:** Ethnographic classification of some major tribes of Central India: Gond, Kondh, Oraon, Bonda
- Unit V:** Ethnographic account of PVTGs in Chhattisgarh (any three): Abujmaria, Kamar, Hill Korwa, Baiga.

Suggested Readings

1. Vidyarthi L.P. and Rai B.K. Tribal Culture of India
2. Shrivastava O.S. Tribals in Madhya Pradesh
3. Jenson et al. Essays in Ethnology
4. Beatlie J. Other Culture
5. Antonims C.G. et al. Ethnographic Field work.
6. Agar, M. The professional stranger, an informal introduction to Ethnography. New York: Academic Press, 1980.
7. Brewar, J.D., Ethnography. Buckingham: OUP, 2000.
8. Eller, R (ed). Ethnographic Research: A Guide to General Conduct. London: Academic Press, 1984.
9. Fetterman, M.D., Ethnography: Step by Step. London: Sage, 1989.
10. Hammersley, M. And Alkinson, P., Ethnography: Principles in Practice. London: Tavistock, 1983.
11. Stewart. A., The Ethnographer's Method. London: Sage, 1998.
12. Hamersley, M. What's wrong with Ethnography. London: Routledge, 1992.
13. Bryman, A. Social Research Methods. 3rd edition Oxford: OUP. 2008
14. Hammersley, M. Reading Ethnographic Research: A Critical Guide. London: Longman. 1991
15. Srinivash, M. N. (Ed.), Methods in Social Anthropology. Hindustan Publishing Corporation, New Delhi, 1995.

B.A./B.Sc. VIth Semester

Course Credit: 4

Paper Code: ANT-B603

Full Marks: 50

Fundamentals of Anthropological Thought

(30+20)

- Unit I:** Brief history on development of anthropology; Natural Science and Social Science Perspective in Anthropology, Empiricism in anthropology.
- Unit II:** Anthropological Theories on Society & Culture: Evolutionism and Functionalism.
- Unit III:** Diffusionism: British, Austro-German and American School
- Unit IV:** Structure-Functionalism and Structuralism in Anthropology.
- Unit V:** Culture and Personality; Basic and Model Personality; Emic and Etic Paradigms in Anthropology

Suggested Readings

1. Ashley Mantagu M. F. On Being Human.
2. Ashley Mantagu M. F. (ed). Frontiers of Anthropology.
3. La Barre W. The Human Animal.
4. Evans Pitchard E. E. Social Anthropology and Other Essays.
5. Fox R. Biosocial Anthropology.
6. Haddon A. C. Theoretical Anthropology.
7. Hodder L. Reading the Past.
8. Frederick S. Hulse. Man and Nature: Studies in the Evolution of Human Species.
9. Kramer C. Ethno-Archaeology.
10. Annemarie de Wail, Malefjt. Images of Man.
11. Penniman T. K. One Hundred Years of Anthropology.
12. Slotkin T. S. Readings in Early Anthropology.
13. Stocking G. W. (Jr.) Race, Culture and Evolution.
14. Voget F. W. History of Ethnology.
15. Watson R. A. and Watson P. J. Man and Nature: An Anthropological Essay in Human Ecology.
16. Wilson J. Social Biology.
17. McGee R. J. and Warms R. L. (1996) Anthropological Theory: An Introductory History. Mayfield Publishing Company, Mountain View, CA.
18. Makhan Jha (2012) An Introduction to Anthropological Thought. (Second Edition) Vikas Publishing House Pvt. Ltd.
19. Upadhyay V. S. and Gaya Pandey. (1993) History of Anthropological Thought. Concept Publishing Company, New Delhi.
20. Clammer J. R. (1983) Modern Anthropological Theory. Cosmo Publications, New Delhi, India.

- Unit I:** Medical Anthropology: Meaning and Scope; Brief outline on theories of Medical Anthropology.
- Unit II:** Concept of Health, Illness and Disease: Social, Cultural and Bio-Medical Perspectives; Medical Systems in India; Ethno medicine, Bio-Medicine.
- Unit III:** Epidemiology of Communicable and Non-Communicable diseases, National Rural Health Mission (NRHM); Reproductive Health; National Health Policy; Food security and Nutritional Policy in India.
- Unit IV:** Cultural factors in Epidemiology; Cultural aspects of stress; Social Inequalities and health; Health repercussion of cultural contact.
- Unit V:** Medical Anthropology and global health; New reproductive technology and its social and ethical implications.

Suggested Readings

1. Foster G.M. and B.G. Anderson. (1978) Medical Anthropology. New York: John Wiley and Sons.
2. Good Byron. (1994) Medicine, Rationality and Experience. Cambridge, England: Cambridge University Press.
3. McElroy, A. and P.K. Townsend. (1979) Medical Anthropology in Ecological Perspective. Boulder, CO: Westview Press.
4. Joshi P.C. and A. Mahajan. (1990) Studies in Medical Anthropology (eds.). New Delhi: Reliance Publishing House.
5. Hahn R. (1995) Sicknes and Healing – An Anthropological Perspectives. New Haven and London: Yale University Press.
6. Park and Park. (2009) Community Health and Social Medicine. M/s Banarasidas Bhanot Publishers, Jabalpur.
7. Robert Pool and Wenzel Geissler (2006) Medical Anthropology. Tata McGraw Hill Publishing Company Limited.
8. Cecil G Helman (2000) Culture, Health and Illness. (4th and 5th Edition). Butterworth Heinemann.
9. Carol R Ember and Melvin Ember. (2004) Encyclopedia of Medical Anthropology. Health and Illness in the World's Cultures. Vol. 1, Vol. 2. Springer.
10. Robert Anderson (1996) The Aims and Achievements of Medical Anthropology. Magic, Science and Health. Harcourt Brace College Publishers.
11. Roy J Shephard & Andris Rode. The health consequences of 'modernization' Evidence from circumpolar peoples.
12. Veena Bhasin (2005) Medical Anthropology Tribals of Rajasthan. Kamla Raj Enterprises, Delhi.

Practical on General Fieldwork Techniques**(30+20)****Unit I:** Formulation of Problem of Study

Unit II: Data Collection Tools and Techniques: Preparation of Schedule and Questionnaire; Preparation of in-depth interview and case study guidelines, Drawing of Genealogies, Methods of establishment of Rapport.

Unit III: Method of Processing and analysis of qualitative and quantitative data, Graphical Presentation of Data

Unit IV: Preparation of References / Bibliography

Unit V: Report Writing

Practical Record**Viva Voce**

Note: The students are to prepare questionnaire schedules on the given topic and they have to test the schedules on at least three subjects. They are to be familiar with different methods of data processing and report writing.

Suggested Readings:

1. Singh Y. K. and Bajpai R. B. (2010) Research Methodology in 2 Volumes. Techniques and Trends Vol 1. Balaji Offset, Navin Shahdara, Delhi.
2. Singh Y. K. and Bajpai R. B. (2010) Research Methodology in 2 Volumes. Data Presentation Vol 2. Balaji Offset, Navin Shahdara, Delhi.
3. Pauline V Young. (2009) Scientific Social Surveys and Research. Fourth Edition. Eastern Economy Edition. PHI Learning Private Limited, New Delhi.
4. Wilkinson & Bhandarkar (1988) Methodology and Techniques of Social Research. Himalaya Publishing House, Bombay.
5. Williamson J B, Karp D A, Dalphin J R. (1977) The Research Craft: An Introduction to Social Science Methods. Little, Brown and Company, Boston, Toronto.
6. Antonius CGM Robben and Jeffrey A Sluka (2012) Ethnographic Fieldwork: An Anthropological Reader (Second Edition). Wiley Blackwell.
7. Moser, C.A. and Kalton, G. Survey Methods in Social Investigation. London: Heinemann, 1971.
8. Jahoda, M., Deutsch, M, and Cook, S.W., Research Methods in Social Relations. New York: Dryde 1951.
9. Srivastava, V (Ed.). Methodology and Fieldwork. Oxford India Paperbacks, New Delhi.2005.
10. Srinivash, M. N. (Ed.), Methods in Social Anthropology. Hindustan Publishing Corporation, New Delhi, 1995.
11. Goode, W.J. and Hatt, P.K. Methods of Social Research. New York: McGraw Hill. 1952.
12. Pelto, P.J. and Pelto, G.H. Anthropological Research: The Structure of Inquiry. New York. Cambridge University Press. 1978.
13. Bernard, H.R., Research Methods in Anthropology. London: Sage, 1994.

B.A./B.Sc. VIth Semester

Course Credit: 4

Paper Code: ANT-B606

Full Marks: 150

Field Work Report

(90+60)

All the students of UG (B.A/B.Sc.- VIth Semester) are required to undertake field work in rural/ tribal/ urban areas for a period of atleast 15 days for preparation of field report under the guidance of teacher/ teacher(s).

Field report

90 marks

Presentation & Viva-Voce

60 marks

B.A./B.Sc. VIth Semester

Course Credit: 4

Paper Code: ANT-B607

Kinanthropometry

Full Marks: 100

- Unit I:** Man-Machine relationship and operational designing : and its relationship with human factors.
- Unit II:** Anthropology of sports: Physical conditioning, Training-Techniques and Physiological effects, Body composition and Athletes, Nutrition, doping and performance.
- Unit III:** Environmental effects on physical performance: Effect of heat stress, cold stress and high altitude on physiological response and performance. Physical performance tests
- Unit IV:** Disability ageing and inclusive design.
- Unit VI:** Physical Activity and Health.

Suggested Literature

1. Applied Bio-mechanics concepts & connections (2008) John Mclester; Peter St. Pierre. Wadsworth Publishing Co.
2. Ergonomics man in his working environment by Murrell, KFH (1965) London; Chapman & Hall.
3. Ergonomics Glossary: Terms Commonly used in Ergonomics by North, K; Stepheton, C; Vogt, Chantal (1982). Published for the Bureau of information and co-ordination of community ergonomics action of the European Coal and Steel Community by Bohn, Scheltema & Holkema (Utrecht).

B.A./B.Sc. VIth Semester

Course Credit: 4

Paper Code: ANT-B608

**Tribal Ethnography
Project**

- Map out the various tribal communities on a Map of India.
- Make a research proposal on any contemporary tribal issue and prepare a relevant bibliography.
- Write a book review of any tribal ethnography.

Section B

(Post-graduate)

Department of Anthropology and Tribal Development
Guru Ghasidas Vishwavidyalaya
Credit Structure for Post-Graduation Anthropology

First Semester: 20 credits (15 weeks)						
Sl. No.	Course Code	Name of the Course M.A/ M.Sc.	End Semester Exam	Internal Assessment	Total	Credits
1.	ANT M 101	Basics of Physical Anthropology	60	40	100	4
2.	ANT M 102	Fundamentals of Social Anthropology	60	40	100	4
3.	ANT M 103	Basics of Prehistoric Archaeology	60	40	100	4
4.	ANT M 104	Research Methodology	60	40	100	4
5.	ANT M 105	Practicals in Somatometry and Somatoscopy	60	40	100	2
6.	ANT M 106	Practicals in Prehistoric Archaeology & Museology	60	40	100	2
Total			360	240	600	20

Second Semester: 20 credits (15 weeks)						
Sl. No.	Course Code	Name of the Course M.A/ M.Sc.	End Semester Exam	Internal Assessment	Total	Credits
1.	ANT M 201	Human Genetics	60	40	100	4
2.	ANT M 202	Bio-Social Problems of Indian Population	60	40	100	4
3.	ANT M 203	Social & Cultural Institutions	60	40	100	4
4.	ANT M 204	Indian Anthropology & Museology	60	40	100	4
5.	ANT M 205	Practical in Museology	60	40	100	2
6.	ANT M 206	Practicals in Human Genetics	60	40	100	2
Total			360	240	600	20

Third Semester: 20 credits (15 weeks)						
Sl. No.	Course Code	Name of the Course M.A/ M.Sc.	End Semester Exam	Internal Assessment	Total	Credits
Core Papers						
1.	ANT M 301	Ecological Anthropology	60	40	100	4
2.	ANT M 302	Medical Anthropology	60	40	100	4
Group A: (Biological Anthropology) Elective Papers						
3.	ANT M303A	Human Population Genetics	60	40	100	4
4.	ANT M304A	Human Biology, Growth and Nutrition	60	40	100	4
5.	ANT M305A	Practical in Biological & Demographic Anthropology	60	40	100	2
6.	ANT M306A	Practical in Human Biology, Growth and Nutrition	60	40	100	2
Group B: (Social and Cultural Anthropology) Elective Papers						
3.	ANT M303B	Anthropological Theories on Culture and Society	60	40	100	4
4.	ANT M304B	Tribes in India: Their Problems and Development	60	40	100	4
5.	ANT M305B	Practicals in Qualitative Data	60	40	100	2
6.	ANT M306B	Practicals in Quantitative Data	60	40	100	2
Total			360	240	600	20

Note: Based on elective papers the students have to decide the dissertation topic.

Fourth Semester: 20 credits (15 weeks)						
Sl. No.	Course Code	Name of the Course M.A/ M.Sc.	End Semester Exam	Internal Assessment	Total	Credits
Core Papers						
1.	ANT M401	Applied Anthropology and Tribal Development	60	40	100	4
2.	ANT M402	Bio-Cultural Anthropology	60	40	100	4
Group A: (Biological Anthropology) Elective Papers						
3.	ANT M403A	Population Studies	60	40	100	4
4.	ANT M404A	Practicals in Population Studies	60	40	100	2
5.	ANT-M405	Field Work Dissertation	200	-	200	6
Total			440	160	600	20
Group B: (Social and Cultural Anthropology) Elective Papers						
3.	ANT M403B	Tribal Culture and its Transformation	60	40	100	4
4.	ANT M405B	Practical in Qualitative Methods	60	40	100	2
5.	ANT-M405	Field Work Dissertation	200	-	200	6
Total			440	160	600	20

Note: The students have to present seminar based on any relevant topic taught in the semester.

Note: 1. Students have to prepare review of literature and present seminar based on Elective Papers.

Soft Skill Papers:

ANT: M107: Anthropology of Disaster= 5 Credits

ANT: M407: Demographic Anthropology= 5 Credits

**DEPARTMENT OF ANTHROPOLOGY & TRIBAL DEVELOPMENT
GURU GHASIDAS UNIVERSITY, BILASPUR Chhattisgarh**

OUTCOME OF THE POST GRADUATE SYLLABUS

(i) The students will have a fundamental and systematic or coherent understanding of the academic field of Anthropology, its different branches and applications, and its linkages with related disciplinary areas/subjects;

(ii) The students will have knowledge that creates different types of professionals related to the disciplinary/subject area of Anthropology, including professionals engaged in research and development, teaching and government/public services;

(iii) A skilful group of students with different specialisations of Anthropology and emerging developments in the field of Anthropology will be available in the market.

- Students will demonstrate the ability to use the knowledge of Anthropology in formulating and tackling Anthropology-related problems and identifying and applying appropriate anthropological principles and methodologies to solve a wide range of problems associated with human society.
- All the stakeholders including the students will recognise the importance of qualitative as well as quantitative data and approaches/methods in comprehending the human society.
- Students will plan and execute Anthropology-related experiments or field investigations, analyse and interpret data/information collected using appropriate methods, including the use of appropriate software such as programming languages and report accurately the findings of the experiment/field investigations while relating to the conclusions/findings to relevant theories of Anthropology.
- The students will demonstrate relevant generic skills and global competencies such as:

(i) Students will possess problem solving skills that are required to solve different types of Anthropology-related problems with well-defined solutions, and tackle open-ended problems that may cross disciplinary-area boundaries;

(ii) Students will be competent enough in investigating skills, related to Anthropology-related issues and problems;

(iii) Students will be equipped with communication skills involving the ability to listen carefully, to read text and research papers analytically and to present complex information in a concise manner to different groups/audiences;

(iv) Analytical skills of the students will be increased and ability to construct logical arguments using correct technical language related to Anthropology;

(vi) Personal skills ability of the students will be increased to work both independently and in a group.

➤ The students will demonstrate professional behaviour such as:

(v) being objective, unbiased and truthful in all aspects of work and avoiding unethical behaviour such as fabricating, falsifying or misrepresenting data or to committing plagiarism;

(vi) With the ability to identify the potential ethical issues in work-related situations;

(vii) And will appreciate the intellectual, environmental and sustainability issues; and

(viii) In promoting safe learning and working environment

M.A./M.Sc. Ist Semester
Paper Code: ANT-M101
Basics of Physical Anthropology

Course Credit: 4
Full Marks: 100
(60+40)

- Unit I:** History and developments Physical / Biological Anthropology, aim, scope and its relationship with allied disciplines
- Unit II:** Theories of evolution: Lamarckism, Darwinism, Synthetic theory.
- Unit III:** Comparative anatomy of man and non-human primates with special reference to skull, pelvis, dentition.
- Unit IV:** Paleoanthropology: Meaning and its scope; Stages of human evolution: Processes of hominization and emergence of hominids; characteristic features of Early hominoids, & Later Hominids: Homo sapiens sapiens.
- Unit V:** Concept of Race; Formation and criteria of racial classification; Major races of the world; Racial classification of Indian population (Guha, Sarkar and Risley).

Suggested Readings

14. Mader, S.S. (6th Ed.). 2000. Human Biology. Mc Graw Hill, New Delhi.
15. Yong J. Z. 1971. Introduction to the Study of Man. The English Language Book Society and Oxford University Press, Oxford.
16. G.W. Lsisker. (1976) Physical Anthropology, Holt, Rinehart & Winston Inc.
17. John. H. Relethford. (1996) Fundamentals of Biological Anthropology, (Third Ed). Mc Graw-Hill.
18. Standford, Allen, John. S, Anton, Susan C, Exploring Biological Anthropology: The Essentials. Prentice Hall. Prentice Hall.
19. Harrison, G.A. and H. Morphy. 1998. Human Adaptation. Berg Publisher, Oxford.
20. Shephard, R. J. 1991. Body composition in biological anthropology. Cambridge University Press, Cambridge.
21. Lasker, G. W. and C. G. N. Mascie-Taylor (Ed.). 1993. Research strategies in human biology: field and survey studies. Cambridge University Press, Cambridge.
22. Weiss, K. M. 1993. Genetic variation and human disease: Principles and evolutionary approaches. Cambridge University Press, Cambridge.
23. N. A. Turnbaugh, R. Jurmain, L. K; Iгоре H. Neison. (2002). Understanding Physical Anthropology and Archaeology. Wadsworth Group, Canada.
24. Ember C. R., Ember M., Peregrine P. N (2007). Anthropology (Twelfth Edition). Dorling Kindersley (India) Pvt. Ltd. Pearson.
25. Harrison G.A., Tanner J. M., Pilbeam D. R., Baker P. T. (2004) Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford Science Publications, University Press.
26. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.
27. Gaya Pandey (2010). Bio-Cultural Evolution. Concept Publishing Company Pvt. Ltd. New Delhi.

28. Das B.M. (2008) *An outline of Physical Anthropology*. Kitab Mahal, New Delhi
29. Reddy V. R. (2012) *General Anthropology*. Dr (Mrs) V. Indira, Tirupati, Andhra Pradesh, India.
30. Sarkar, R. M. (2004) *Fundamentals of Physical Anthropology (New Edition)*. Book World. Kolkata.
31. Stein P.L. and B.M. Row. (1974) *Physical Anthropology*. McGraw-Hill Inc., USA.
32. Jurmain, R.; H. Nelson, L. Kilgore and W. Trevathan. (2011) *Essentials of Physical Anthropology*, Eight Edition. Wordsworth Cengage Learning, USA.
33. Shukla B.R.K. & Rastogi, S. (1990) *Physical Anthropology & Human Genetics: An Introduction*. Plaka Prakashan. Delhi.
34. Buettner Janusch, J. (1969) *Origins of Man: Physical Anthropology*. Wiley Eastern Pvt. Ltd., New Delhi.
35. Buettner Janusch, J. (1973) *Physical Anthropology: A Perspective*. John Wiley & Sons, Inc., New York.

M.A./M.Sc. Ist Semester
Paper Code: ANT-M102
Fundamentals of Social Anthropology

Course Credit: 4
Full Marks: 100
(60+40)

- Unit I:** Meaning, Aim and Scope of Social and Cultural Anthropology, History and Development; Major Areas of Social and Cultural Anthropology, Economic Anthropology, Political Anthropology, Medical Anthropology, Applied and Action Anthropology, Relationship of Social and Cultural Anthropology with other social sciences.
- Unit II:** Basic approaches to Social Anthropological Theories: Evolutionism, Diffusionism, Functionalism, Structural-Functionalism, Structuralism.
- Unit III:** Economic Organization: Means of Production, Consumption, Exchange and Distribution, Primitive Economy versus Peasant economies, Techno-economic basis of Tribal Economies: Foraging, Nomadism, Trans-Humance, Horticulture, Swidden.
- Unit IV:** Ceremonial Exchange: Kula Ring and Potlatch: Reciprocity and Redistribution; Barter system, Market system.
- Unit V:** Political Organization: Concept and Characteristic features of Band and Chiefdom; Primitive Government, Law and Justice in primitive societies; Primitive punishment system: Oath and Ordeal.

Suggested Readings

1. Barnard, Alan. Social Anthropology.
2. Beattie, John. Other Cultures.
3. Barnard, A. History and Theory in Anthropology.
4. Behura, N.K. Anthropological thought and theory.
5. Behura, N.K. Anthropological Economics.
6. Bohannan, Paul. Social Anthropology.
7. Clammer. Modern Anthropological Theory.
8. Clifton, A.J. (ed.) Introduction to Cultural Anthropology.
9. Ember, M. & Pergrine, P.N. Anthropology.
10. Evans - Pritchard, E.E. Social Anthropology
11. Fox, Robin. Kinship and Marriage.
12. Goode, J. The Family.
13. Goodenough, W. Description and Comparison in Cultural Anthropology.
14. Harris, M. The Rise of Anthropological theory.
15. Hongingman, J.J. Handbook of Social and Cultural Anthropology.
16. Hutton, J.H. Caste in India.
17. Jha, M., Upadhayay, V.S. and Pandey, G. History of Anthropological thought.

18. Kapadia, K.M. Marriage and Family in India.
19. Keesing and Keesing. New Perspectives in Cultural Anthropology.
20. Leach, E.R.(ed.) Aspects of caste in South India, N.W. Pakistan & Ceylon.
21. Kroeber, A.L. Anthropology.
22. Lewis, I.M. Social Anthropology in Perspective: The Relevance of Social Anthropology. 23. Lowie, Robert, H. – Social Organisation.
24. Mair, Lucy. An Introduction to Social Anthropology.
25. Malinowski, B. Argonauts of the Western Pacific.
26. Mc Gee and Warons. Anthropological Theory.
27. Murdock, G.P. Social Structure.
28. Nayak, P.K. Blood, Women and Territory.
29. Needham (ed.) Rethinking Kinship and Marriage.
30. Radcliffe Brown, A.R. & Forde, D. African Systems of Kinship and Marriage.
31. Rivers, W.H.R. Kinship and Social Organisation.
32. Sahlins, Marshall, D. Tribesmen.
33. Schneider, D.M. The Nature of Kinship.
34. Schulta, Emily A. & Robert H. Lavenda. Cultural Anthropology.
35. Service, E.R. Hindu Social Organisation: An Evolutionary Perspective.
36. Srinivas, M.N. Caste in Modern India and Other Essays.
37. Vidyarthi, L.P & B.K. Rai. Tribal Cultures of India.
38. Vivello, Frank Robert. Cultural Anthropology.
39. Gary Ferrari, Wenda Trevathan, Janet Levy. Anthropology: An Applied Perspective.
40. Carol R. Ember, Melvin Ember, Peter N. Peregrine. Anthropology.

M.A./M.Sc. Ist Semester
Paper Code: ANT-M103
Basics of Prehistoric Archaeology

Course Credit: 4
Full Marks: 100
(60+40)

- Unit I:** Meaning, Definition and Scope of Prehistoric Archaeology; Ice age: Causes and Consequences.
- Unit II:** Tool Techniques: Block on anvil, Direct percussion, Cylinder hammer and hollow hammer, Step flaking, Clactonian, Levalloisian, Pressure flaking, Fluting, Grinding and Polishing technique(s); Tool typologies: Pebble tool, Hand-axe, Cleaver, Scraper, Points, Disc, Borer, Burin, Microliths.
- Unit III:** Dating Methods: Relative Dating Techniques and Absolute Dating Techniques.
- Unit IV:** Brief outline of European Prehistory: Palaeolithic, Mesolithic and Neolithic Culture(s) of Europe. Cave art and Home art.
- Unit V:** Indian Prehistory: Early Stone age, Middle Stone Age and late Stone Age; Culture of India: Mesolithic and Neolithic; Megalithic and Chalcolithic.

Suggested Readings

1. Bhattacharya, D.K. (2006). An outline of Indian Prehistory. Delhi: Palaka Prakashan.
2. Bhattacharya, D.K. (1977). Palaeolithic Europe. Netherland: Humanities Press.
3. Sankalia, H.D. (1974). Prehistory and Protohistory of India and Pakistan. Pune: Deccan College.
4. Coles, J.M. and E.S. Higgs. (1969). The Archaeology of Early Man. London: Faber and Faber.
5. Burkitt, M. (1963). The Old Stone Age: A study of Palaeolithic Times. London: Bowes and Bowes.
6. Renfrew, C. and P. Bahn. (2001). Archaeology: Theories methods and Practices, London: Thames and Hudson.
7. Fagan B. M. (2004). People of the Earth: An Introduction to World Prehistory. New Jersey: Pearson Education.
8. Oakley, K.P. (1966). Frameworks for dating Fossil man. London: Weidenfeld and Nicolson.
9. Renfrew, C. (ed.). (1973). The Explanation of culture change: Models in prehistory. London. Duckworth.
10. Lee, R.B and I. Devore (Eds.) (1977). Man the Hunter. Chicago: Aldine Publishing Company.
11. Hole, H. and R.F. Heizer. (1969). An Introduction to Prehistoric Archaeology. New York: Hold, Rinehart and Winston, INC.

12. Sankalia, H. D. (1977). Prehistory of India. Delhi: Munshiram Manoharlal Publishers Pvt. Ltd.
13. Possehl, G. L. (2002). The Indus Civilization: Contemporary Perspectives. New Delhi: Vistaar publication.
14. Bailey, G. and P. Spikins (eds.) (2008). Mesolithic Europe. Cambridge-. Cambridge University Press.
15. Allchin, B. and R.Allchin. (1982). The Rise of Civilization in India and Pakistan. Cambridge: Cambridge University Press.
16. Kevin Greene, Tom Moore. (2010). Archaeology: An Introduction. Fifth Edition. Routledge, Taylor & Francis Group, London and New York.
17. Tiwari S.K., Awasthi S.P. (2009). Early Man of The Indian Rock Shelter. Sharada Publishing House, Delhi.
18. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.
19. Gaya Pandey (2010). Bio-Cultural Evolution. Concept Publishing Company Pvt. Ltd. New Delhi.
20. Burkitt, M. (1963). The Old Stone Age: A study of Palaeolithic Times. London: Bowes and Bowes.

- Unit I:** Fieldwork and Field work Traditions in Anthropology, Methodological Approaches in Anthropology; Holistic, Synchronic and Diachronic, Emic and Etic, Ethno-scientific and Genealogical Method.
- Unit II:** Anthropological approaches to the study of simple societies and complex societies; Hypothesis: Inductive and Deductive, Testing of Hypotheses, Null hypotheses.
- Unit III:** Types of Research Design: Exploratory, Descriptive, Experimental and Evaluative Studies.
- Unit IV:** Survey Methods in Anthropology; Methods of Sampling: Probability and Non-Probability sampling - Observation Techniques.
- Unit V:** Interview Techniques: Key-informant, Schedule and Questionnaire, Life History, Case Study, Report Writing.

Suggested Readings

1. Agar, M. The professional stranger, an informal introduction to Ethnography. New York: Academic Press, 1980.
2. Bernard, H.R., Research Methods in Anthropology. London: Sage, 1994.
3. Brewar, J.D., Ethnography. Buckingham: OUP, 2000.
4. Coffey, A. The Ethnographic Self: Field Work and the Representation of Identity. London: Sage.
5. Dey, I., Qualitative Data Analysis, London: Routledge, 1993.
6. Eller, R (ed). Ethnographic Research: A Guide to General Conduct. London: Academic Press, 1984.
7. Fetterman, M.D., Ethnography: Step by Step. London: Sage, 1989.
8. Hammersley, M. And Alkinson, P., Ethnography: Principles in Practice. London: Tavistock, 1983.
9. Mc cracker, G., The long Interview. London: Sage, 1989.
10. Patton, M.Q., Qualitative Research and Evaluation Methods. London: Sage, 2002.
11. Silverman, D., Interpreting Qualitative Data. London: Sage, 1993.
12. Stewart. A., The Ethnographer's Method. London: Sage, 1998.
13. Singha, K. "Participant Observation and In-depth Interviewing" in B.Y. Attig, et al. (eds), Qualitative Methods for Population and Health Research. Bangkok: Mahidol Univeristy, pp 120-128, 1993.
14. Watson, C. W. (Ed) Being There: Field work in Anthropology. London: Pluto Press.
15. Hamersley, M. What's wrong with Ethnography. London: Routledge, 1992.
16. Moser, C.A. and Kalton, G. Survey Methods in Social Investigation. London: Heinemann, 1971.
17. Merton, R.K. On Theoretical Sociology. New York: Free Press. 1967.
18. Goode, W.J. and Hatt, P.K. Methods of Social Research. New York: McGraw Hill. 1952.
19. Silverman, D. (Eds). Qualitative Research: The Methods and Practice. 2nd Edition; London: Sage
20. Bryman .A. and Liao .T.F (Ed). The Sage Encyclopaedia of Social Science

- Research Methods; 3 volumes; Thousand Oaks, Calif; Sage 2004.
21. Bryman, A. *Social Research Methods*. 3rd edition Oxford: OUP. 2008
 22. Bryman, A. *Doing Research in organisation*. Routledge 1988.
 23. Bryman, A. *Research Methods and organisational Studies*. London: Routledge, 1989.
 24. Hardy, M. And Bryman. A (eds). *Handbook of Data Analysis*. London: Sage, 2004
 25. Bryman, A. *Qualitative Data Analysis with SPSS 15: A Guide for Social Science*, London Routledge, 2008.
 26. Bryman, A. and Burgess, R. G (Ed) *Qualitative Research*, London: Sage .1999.
 27. Boulmer, M (Eds) *Social Research Methods*. Macmillan. 1984.
 28. Jahoda, M., Deutsch, M, and Cook, S.W., *Research Methods in Social Relations*. New York: Dryde 1951.
 29. Junker, B. *Field Work*, Chicago: University of Chicago Press. 1960.
 30. Hammersley, M. *Reading Ethnographic Research: A Critical Guide*. London: Longman. 1991
 31. Pelto, P.J. and Pelto, G.H. *Anthropological Research: The Structure of Inquiry*. New York. Cambridge University Press. 1978.
 32. Bernard, H.R. *Research Methods in Anthropology: Qualitative and Quantitative Approaches* (4th edition). Rawat Publication. 2008.
 33. Srivastava, V (Ed.). *Methodology and Fieldwork*. Oxford India Paperbacks, New Delhi.2005.
 34. Srinivash, M. N. (Ed.), *Methods in Social Anthropology*. Hindustan Publishing Corporation, New Delhi, 1995.
 35. Krishnaswami, O. R. and Ranganatham, M. *Methodology of Research in Social Sciences*. Himalaya Publishing House, Mumbai, 2009.
 36. Kothari, C.R. *Research methodology: methods and techniques*. 2 ed., New Delhi: Vishwaprakashan, 1990.

M.A./M.Sc. Ist Semester
Paper Code: ANT-M105
Practical in Somatometry and Somatoscopy

Course Credit: 2
Full Marks: 100
(60+40)

- Unit I:** Drawing and description of various anthropometry instruments: Anthropometer rod, Spreading Caliper, Sliding Caliper, Weighing machine, Measuring Tape.
- Unit II:** Somatometric Measurements on Head and Face: Maximum head length; Maximum head breadth; Breadth of Bizygomatic Arch; Nasal height; Nasal breadth; Morphological facial height; Head Circumference.
- Unit III:** Somatometric Measurements on Trunk and Limbs: Height vertex; Sitting height vertex; Length of Upper Arm; Length of the Forearm; Length of Hand, Bi-acromial diameter; Hand breadth; Body weight; Waist Circumference; Hip Circumference.
- Unit IV:** Somatometric Indices: Cephalic Index (CI); Nasal Index (NI); Morphological Facial Index (MFI); Relative Sitting Height Index (RSHI); Body Mass Index (BMI); Waist Hip Ratio (WHR).
- Unit V:** Somatoscopic Observations: Body Posture; Head form; Hair form; Eye form; Nose form; Hair colour.

Practical Record

Viva Voce

Suggested Readings

1. I. P. Singh & M. K. Bhasin. (1989) A Laboratory Manual on Biological Anthropology. Kamla-Raj Enterprises, Delhi.
2. D. Mukherjee, D. Mukherjee & P. Bharati. (2009) Laboratory Manual for Biological Anthropology. Asian Book Private Limited, New Delhi.
3. B.M. Das & R. Deha. Physical Anthropology Practical. Kitab Mahal, Allahabad, U.P.
4. S.J. Ulijaszek and C.G.N. Mascie-Taylor. Anthropometry: the individual and the population.
5. B. M. Das. Outlines of Physical Anthropology. New Delhi.
6. Galton F. (1884) Anthropometric Laboratory. London (Also in J. Anthropol. Inst., (Lond.) 1884, 14, 205).

M.A./M.Sc. Ist Semester
Paper Code: ANT-M106
Practical in Prehistoric Archaeology

Course Credit: 2
Full Marks: 100
(60+40)

Drawing and Description of the following Palaeolithic Tools: Lower Palaeolithic Tools - Middle Palaeolithic Tools - Upper Palaeolithic Tools.

Drawing and Description of Mesolithic Tools: Microliths - Triangle, Lunate, Trapaze and Laminar tools.

Drawing and Description of Neolithic Tools: Ring Stone, Celt and Pottery

Practical Record

Viva Voce

Suggested Readings

1. Gaya Pandey (2010). Bio-Cultural Evolution. Concept Publishing Company Pvt. Ltd. New Delhi.
2. Inizan, M. L.; M. R. Ballinger; H. Roche and J. Tixier. (1999). Technology and terminology of Knapped Stone. Nanterre: CREP.
3. Oakley, K.P. (1972). Man the Tool Maker. London. Trustees of the British Museum Natural History.
4. Bhattacharya, D.K. (1979). Old Stone Age Tools: A Manual of Laboratory Techniques of Analysis. Calcutta: K. P. Bagchi and Company.
5. Sankalia, H. D. (1977). Prehistory of India. Delhi: Munshiram Manoharlal Publishers Pvt. Ltd.
6. Sankalia, H.D. (1982). Stone Age Tools: Their techniques, Names and Probable Functions. Poona: Deccan College.
7. Bhattacharya, D. K. (2006). An outline of Indian Prehistory. Delhi: Palaka Prakashan.
8. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.

M.A./M.Sc. IInd Semester

Course Credit: 4

Paper Code: ANT-M201

Full Marks: 100

Human Genetics

(60+40)

- Unit I:** Human Genetics: Mendel's Law of Inheritance and its application to man; Patterns of Inheritance: Autosomal, sex-linked traits and extra nuclear inheritance; Methods of studying heredity: twin method and pedigree method.
- Unit II:** Population Genetics: Hardy-Weinberg Law and its application to human population; Genetic Polymorphism: Balanced and Transient.
- Unit III:** Cytogenetics: Structure, properties and function of chromosome; Karyotypes, Banding Techniques, Chromosomal aberrations in Man.
- Unit IV:** Structure and function of a Cell; Cell Division: Mitosis & Meiosis; Structure and function of DNA & RNA, Replication of DNA, Recombinant DNA.
- Unit V:** Applications of human genetics: Pre-natal diagnosis and genetic counselling. Social ethical issues in human/medical genetics.

Suggested Readings

1. Harris H. Human Biochemical Genetics. Cambridge University Press. 2010.
2. Relethford JH. Human Population Genetics. A John Wiley & Sons, Inc., Publication. 2012.
3. Steve Jones, Robert Martin and David Pilbeam (Edt.) The Cambridge Encyclopedia of Human Evolution. Cambridge University Press, 1997.
4. Grine FE, Fleagle JG, Leakey RE. The First Humans Origin and Early Evolution of the Genus Homo. Springer, 2006.
5. Reddy VR. Current Trends in Human Genetics and Physical Anthropology. Dr (Mrs) V. Indira, Vidyanagar, Tirupati, Andhra Pradesh, India. 2012.
6. Templeton AR. Population Genetics and Microevolutionary Theory. John Wiley & Sons, Inc., Hoboken, New Jersey. 2006.
7. Fleagle JG. Primate Adaptation and Evolution. 2nd Edition, Elsevier Academic Press, 1999.
8. Harrison GA, Tanner JM, Pilbeam DR, Baker PT. Human Biology. An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford Science Publications, Oxford University Press, 2004.
9. Jobling, MA Hurles, M and Tyler-Smith, C. Human Evolutionary Genetics, Origins, Peoples and Disease. Garland Science, New York, 2004
10. Strachan, T and Read, AP. Human Molecular Genetics. Garland Publishing Inc, New York, 2003.
11. Templeton, AR. Population Genetics and Microevolutionary Theory. Wiley Liss, New York, 2006.
12. Mange EJ and Mange AP. Basic Human Genetics. Sinauer Associates Inc.

13. Crawford, M. (Ed). Anthropological Genetics. Cambridge University Press. 2006.
14. Vogel, F and Motulsky, G. 1998. Human genetics: Problems & Approaches. Springer-Verlag Berlin. 2010.
15. Kothari Mehta Roychoudary. Essentials of Human Genetics. University Press, India.
16. South Asian Anthropologist. Serial Publication, 4830/24, Asian Road, Daryaganj, New Delhi-110002.
17. The Oriental Anthropologist. Serial Publication, 4830/24, Asian Road, Daryaganj, New Delhi-110002.
18. Journal of Social Anthropology. Serial Publication, 4830/24, Asian Road, Daryaganj, New Delhi-110002 .
19. The Anthropologists. Kamla Raj Enterprises, 2273, Gali Bari Paharwali, Chawri Bazar, Post Box No. 1120, Delhi – 110006.
20. The Indian Journal of Anthropology. Indian National Confederation and Academy of Anthropologists (INCAA), Kadam Kanon, P.O. Jhargram, West Medinipur, West Bengal, India-721507
21. Hartl L.D. Human Genetics, Jones & Bartlett Learning.

M.A./M.Sc. IInd Semester
Paper Code: ANT-M202
Bio-Social Problems of Indian Population

Course Credit: 4
Full Marks: 100
(60+40)

- Unit I:** Problem of Population Growth in India, Demographic Transition in India, Demographic Consequences of Family Planning and Family Welfare, Population Policy in India.
- Unit II:** Problems of Poverty and Unemployment, Social Discrimination and Inequality; Universalization of Education.
- Unit III:** Problems of Hunger and Malnutrition in India; Obesity and Nutritional Deficiency diseases; National Rural Health Mission of India: National Urban Health Mission, Problems of Communicable and Non-Communicable diseases in India, Infant Mortality and Maternal Mortality problem in India; Occupational Health Hazards.
- Unit IV:** Bio-Social Problem of Ageing and Aged, HIV/ AIDS, Alcoholism and Drug Abuse in India.
- Unit V:** Global Warming and Climate Change and its impact on India, Environment Pollution: Air, Water and Land: Principles and Policies.

Suggested Readings:

1. Gaya Pandey - Bio-Cultural Evolution
2. Indrani Basu Roy – Anthropology: The Study of Man
3. Das, N.K.- Industrialization and Tribal Society
4. Helen R. Sekar- Child Labour Legislation in India
5. Asha A. Bhende and Tara Kanitkar- Principles of Demography in India
6. David G. Mandelbaum- Society in India
7. Yogesh Atal. Understanding Indian Society
8. VLS Prakasa Rao. Urbanization in India (Spatial Dimensions)
9. K Srinivasan, PC Saxena and Tara Kanitkar. Demographic and Socio-Economic Aspects of The Child in India.
10. Sophie Baker. Caste At Home in Hindu India.
11. P. Sudhakar Reddy, V Gangadhar. Indian Society (Continuity Change and Development)
12. Y M Verma. Problems of Tribal India
13. KR Sharma. Educational Life Style of Tribal Students (A Study of Secondary Schools in Madhya Pradesh)
14. AN Bharadwaj. Problems of Scheduled Castes and Scheduled Tribes in India.
15. Sushama Sahay Prasad. Tribal Woman Labourers: Aspects of Economic and Physical Exploitation.
16. Renuka Pamecha. Elite in a Tribal Society.

M.A./M.Sc. IInd Semester

Course Credit: 4

Paper Code: ANT-M203

Full Marks: 100

Social and Cultural Institutions

(60+40)

- Unit I:** Culture: Concept and Definition; Characteristics of Culture; Innovation, Acculturation, Cultural Adaptation; Enculturation; Cultural Pattern and Configuration of Culture.
- Unit II:** Social Institutions: Marriage: Types and Forms of Marriage, Ways of acquiring mates; Family: Concept and Definition, Types and Functions; Universality of Family.
- Unit III:** Kinship: Concept and Definition of Kinship, Kin-groups, Kin terms, Kinship behaviour, Clan, Phratry and Lineage.
- Unit IV:** Culture and Language; Communication: Verbal and Non-Verbal, Relation between language and culture, Culture influence on language, Linguistic influence on Culture (The Sapir-Whorf Hypothesis)
- Unit V:** Art: Meaning and Functions, Variation in Arts, Tribal art and craft in India, Impact of Globalization on Tribal Art, Problems and Opportunities.

Suggested Readings

1. Barnard, Alan. Social Anthropology.
2. Beattie, John. Other Cultures.
3. Boas, F. Race, Language and Culture.
4. Bohannan, Paul. Social Anthropology.
5. Clifton, A. J. (ed.) Introduction to Cultural Anthropology.
6. Ember, M & Pergrine, P. N. Anthropology.
7. Evans Pritchard, E. E. Social Anthropology.
8. Fox, Robin. Kinship and Marriage.
9. Goode, J. The Family.
10. Goodenough, W. Description and Comparison in Cultural Anthropology.
11. Hardestey. Ecological Anthropology
12. Harris, M. Rise of Anthropological Theory.
13. Hickerson, N. Linguistic Anthropology.
14. Hutton, J.H. Caste in India.
15. Janzen, L. Social Fabrics of Health.
16. Kapadia, K.M. Marriage and Family in India.
17. Keesing and Keesing. New Perspectives in Cultural Anthropology

18. Leach, E.R.(ed.) Aspects of caste in South India, N.W. Pakistan & Ceylon.
19. Kroeber, A. L. Anthropology.
20. Lewis, I. M. Social Anthropology in Perspective: The Relevance of Social Anthropology.
21. Lowie, Robert, H. Social Organisation.
22. Mair, Lucy. An Introduction to Social Anthropology.
23. Malinowski, B. Argonauts of the Western Pacific.
24. Mishra, K.K. Anthropological Linguistics.
25. Murdock, G.P. Social Structure.
26. Nayak, P.K. Blood, Women and Territory.
27. Needham (ed.) Rethinking Kinship and Marriage.
28. Pool, R. and Gestler. Medical Anthropology.
29. Radcliffe Brown, A.R. & Forde, D. African Systems of Kinship and Marriage.
30. Rivers, W.H.R. Kinship and Social Organisation
31. Sahlins, Marshall, D. Tribesmen
32. Schneider, D.M. The Nature of Kinship.
33. Schulta, Emily A. & Robert H. Lavenda. Cultural Anthropology.
34. Service, E. R. Hindu Social Organisation: An Evolutionary Perspective
35. Srinivas, M.N. Caste in Modern India and Other Essays.
36. Vidyarthi, L.P & B.K. Rai. Tribal Cultures of India.
37. Vivello, Frank Robert. Cultural Anthropology.
38. Gary Ferraro, Wenda Trevathan, Janet Levy. Anthropology: An Applied Perspective.
39. Carol R. Ember, Melvin Ember, Peter N. Peregrine. Anthropology.

- Unit I:** Approaches to the study of Indian society, culture and civilization: Indological, Anthropological and Historical. Geographical distribution, Racial and Linguistic classification; Unity and Diversity in Indian Society: Linguistic, Political and Ethnic; Challenges to National integration.
- Unit II:** Basis of Traditional Indian Social Structure and Life cycle in Vedic Age (Varnashrama dharma and Purusartha); Structure of Indian society: Caste System, Varna and Caste, Dominant Caste, Caste Mobility, Caste and Tribe, Great Tradition and Little Tradition; Indian Village Characteristics, Jajmani System.
- Unit III:** Processes of Socio-Cultural changes in Indian Society: Sanskritization, Westernization, Globalization.
- Unit IV:** Weaker Sections in India: Scheduled Tribes, Scheduled Caste, Definition and criteria, Classification and distribution of Tribes on the basis of economic, cultural and linguistic; Tribe-Caste continuum - Tribal identity Issues.
- Unit V:** Rise of Anthropology in India: Contributions of anthropologists, scholars and administrators in 19th and 20th Century (V Ellwin, S.C. Roy, N.K. Bose, L. P. Vidyarthi).

Suggested Readings

1. Ahuja, Ram. Indian Social System
2. Srinivas, M.N. Indian Social Structure.
3. Hasnain, Nadeem. Indian Anthropology
4. Marriot, Mckim. Village India.
5. Dube, S.C. India's Changing Villages.
6. Dube, S.C. Social Change.
7. Singh, Yoginder. Modernization in India Tradition.
8. Saran, Gopal. Anthropology of Indian Civilization (J India Anthro Soc, Vol. 5, 1978).
9. Sachchidanand. Cultural Change in Tribal Bihar.
10. Cohn, B.S. India: Social Anthropology of A Civilization.
11. Mohapatra, L. K. Transformation of Tribal Society in India.
12. Majumdar, D.N. Races and Cultures of India.
13. Hutton, J. H. Caste in India.
14. Dumont Lowis. Hindu-Hierarchicus: The Caste and Its Implications.
15. Baily, F. G. Tribe, Caste and Nation.

M.A./M.Sc. IInd Semester
Paper Code: ANT-M205
Practicals & Museology

Course Credit: 4
Full Marks: 100
(60+40)

Draw and Label the following Technological Implements and describe their characteristic features: Agriculture Implements; Hunting Implements; Fishing Implements; Storing Implements

Describe the method of Conservation and preservation of the following materials: (a) wood, (b) Iron, (c) Cotton and (d) Leather

Practical Record

Viva Voce

Suggested Readings

1. Mukherji, D., D. Mukherjee and P. Bharti. Laboratory Manual for Biological Anthropology. Asian Books Pvt. Ltd., New Delhi, 2009.
2. Nath, S. 1996. Forensic Anthropology. Astham Prakashan, Delhi, 1996.
3. Byere S.N. Anthropology to Forensic Anthropology - A Text Book (2nd Edition) Pearson New York. 2005.
4. Nath S. An Introduction to Forensic Anthropology Gain Publishing House, New Delhi, 1989.
5. Singh I.P. and M.K. Bhasin. A Laboratory Manual on Biological Anthropology – Anthropometry. Kamal-Raj Entreprises, Delhi, 1989.
6. Ghoshmaulik, S. K. and B. Rath. Techniques in Forensic and Physical Anthropology. Mayur Publications, Bhubaneswar, 2000.
7. Das, B.M. and R. Deka. Physical Anthropology Practical. Kitab Mahal, Allahabad, 1998.
8. Bhasin MK and Chahal. A Laboratory Manual for Human Blood Analysis. Kamla Raj Enterprises. Gali Bari Paharwali, Chawri Bazar, Delhi, 1996.

M.A./M.Sc. IInd Semester
Paper Code: ANT-M206
Practicals in Human Genetics

Course Credit: 4
Full Marks: 100
60 + 40

1. Blood Group: Blood Typing-Detection of complete and incomplete antibodies with reference to Rh (including subgroups), MNSs, Kell, and Lewis blood group systems.
2. ABO (Subgroups), MN and Rh Blood group Systems
3. PTC
4. Colour Blindness
5. Dermatoglyphics
 - i. Finger Print
 - ii. Palmer Print
 - iii. Planter Print

Practical Record

Viva Voce

Suggested Reading

1. B.L. Agarwal. Basic Statistics. New Age International Publishers. Fourth Edition, 2006.
2. Fox and Alan. Elementary Statistics in Social Research. Gian Publishing House,
3. Sunder Rao, P.S.S. et al. An introduction to Biostatistics & Research Method. New Arrivals-PHI
4. Wackerly Dennis D, Mendelhall III, Wiliam et al. Mathematical Statistics with application Duxbury Press, Pacific Grove.
5. Gaur AS, Gaur SS. Statistical Methods for Practice and Research. A guide to data analysing using SPSS. SAGE Response, New Delhi, India, 2009.
6. Sunder Rao, P.S.S. et al. An introduction to Bio-statistics & Research Method. New Arrivals-PHI.
7. Conover W.J. Practical Nonparametric Statistics. Third Edition. Wiley India (P) Ltd. Ansari Road, Daryaganj, New Delhi. 1999.

**POST GRADUATE
THIRD SEMESTER**

(Core Paper)
M.A./M.Sc. IIIrd Semester
Paper Code: ANT-M301
Ecological Anthropology

Course Credit: 4
Full Marks: 100
(60+40)

- Unit I:** Ecological Anthropology: Definition and Scope; Environmental Determinism and Environmental Possibilism; Cultural Ecology, Population Ecology, System Ecology, Ethnoecology.
- Unit II:** Ecology and Ecosystem: Definition of Ecology and Ecosystem; Meaning, Types and Components of Ecosystem: Biotic and Abiotic, Ecological Niche.
- Unit III:** Ecological Transition: Concept of Culture Core and its relation with Environment and Other aspects of Culture; Ecological Ethnography: Hunter-Gatherers, Nomads and Shifting Cultivators; Concept of Carrying Capacity.
- Unit IV:** Adaptation and Evolution: Inter dependency between Biological and Cultural Evolution, Concept of Sustainable Development; Environmentalism: Ecological Movements.
- Unit V:** Environmental Problems: Causes and Consequences of degradation of Land, Water, Air, Forest and Bio-Diversity Resources; Global Warming, Green House Effect; Impact of Mega development projects on the environment.

Suggested Readings

1. Bennet, J.W. The Ecological Transition.
2. Bhss, L.C, Heal, O.W. Moore, J. Tundra Ecosystem.
3. Bresser, Human Ecology.
4. Butzer, Karl. Archaeology as Human Ecology.
5. Chapple,D.(ed) Biological Foundation of Individuality and Culture
6. Brock,T.H. Primate Ecology.
7. Eckstein . Food, People and Nutrition.
8. Eckstein, P.R. & Ehrlick, Avne, Holdren, J.P. Human Ecology.
9. Greenwood & Edwards. Human Environments & Natural Systems.
10. O. Hardesty, D. Ecological Anthropology.
11. J.Owen Jones, and Paul Rogers. Human Ecology and the Development of Settlements.
12. Jorgenson, J.G. Biology and Culture in Modern Perspective.
 13. Kafman, PB./J.D. Lacroix Plant, People, Environment.
 14. Krebs, C.J. Ecology (Latest edition).
 15. Mortwitz, H.J. Foundations of Bio-energetics.
 16. Odum, O.P. Ecology.
 17. Odum, E.P. Fundamentals of Ecology.
 18. Solomon Katz (ed). Biological anthropology (Scientific American).
 19. Sussman, R.W. Primate Ecology.
 20. Watts Johnston & Lasker. Bio-social Interrelation in Population Adaptation.
 21. Yadab, C.S. Contemporary City Ecology.
 22. Weiner, J. Harrisson, G. A, Barricndt, Tanner, J. M. Human Biology.

- Unit I:** Medical Anthropology: Meaning and Scope, Theories of Medical Anthropology: Socio-Cultural perspective, Bio-cultural perspective, Critical Medical Anthropology.
- Unit II:** Concept and Interpretation of Health, Illness and Disease: Socio-cultural and Bio-medical perspectives, Medical Pluralism and Syncretism, Ethnomedicine, Medical systems in India, Tribal health and ethno medicine.
- Unit III:** Epidemiology of Common Communicable diseases and Non-Communicable diseases, Cultural factors in Epidemiology, Health care delivery system in India, Anthropology and Public Health, Issues and trends in international health: HIV-AIDS, Diarrhoea, ARI.
- Unit IV:** Genetic Disorders in Indian population, Maternal and Child Health problems, Problems of Under and Over nutrition in India.
- Unit V:** National Health Policy, NRHM, National Nutrition Policy, Occupational health problems, Stress and Disease. Relevance of medical anthropology in changing global health scenario.

Suggested Readings

1. Robert Anderson. Magic, Science and Health: The Aims and Achievements of Medical Anthropology.
2. Cecil G Helman. Culture, Health and Illness.
3. John M. Janzen. The Social Fabric of Health.
4. Lola Romanucci-Ross, Daniel E. Moerman, Laurence R. Tancredi. The Anthropology of Medicine: From Culture to Method.
5. Roy J. Shephard & Andris Rode. The Health consequences of 'modernization'.
6. Dastur H.P. A doctor's approach to Industrial Medicine.
7. Usha S. Naidu & Kamini R. Kapadia. Child Labour and Health: Problems & Prospects.
8. Carol R. Ember & Melvin Ember. Encyclopedia of Medical Anthropology, Vol.I&II
9. Michael R. Zimmerman. Foundations of Medical Anthropology.
10. Sima Mukherjee. Traditional Hygienic Practices in Rural India.
11. Ahmad S. I. Industrialization and Mental Health.
12. Robert Pool & Wenzel Geissler. Medical Anthropology.
13. Cecil G Helman. Culture, Health and Illness.
14. Peter J. Brown. Understanding and Applying Medical Anthropology.
15. Jose Boban, K. Tribal Ethnomedicine: Continuity and Change.

Group A

BIOLOGICAL ANTHROPOLOGY

M.A./M.Sc. IIIrd Semester

Course Credit: 4

Paper Code: ANT-M303A

Full Marks: 100

Human Population Genetics

(60+40)

Theory

- Unit I:** Mendelian populations, concept of Hardy-Weinberg equilibrium, Testing equilibrium and measuring departure from it. Application of H-W law in human population genetics.
- Unit II:** Genetic polymorphism- basic concept of transient and balanced polymorphism. Natural selection, Darwinian fitness, selection leading to change in gene frequency, and selection leading to change in genetic equilibrium.
- Unit III:** Haemoglobin polymorphism, thalassaemia and Mutation rate, Dynamics of genetic drift, selection and gene flow/ migration
- Unit IV:** Consanguinity and inbreeding - (definitions and concept) Genetic consequences of inbreeding in human population, inbreeding coefficient and genetic load.
- Unit V:** Magnitude of consanguineous marriages in India and World over. DNA polymorphism, Human Genome Project.

Suggested Reading

1. Principles of Population Genetics Daniel Hartl & A.G. Clark (1997) Sinauer Associates, Inc.
2. Principles of Genetics Peter Snustad and M. J. Simmons (2006). John Wiley and Sons, Honboken, NJ.
3. Genetics : A Conceptual Approach Benjamien Pierce (2003). W. H. Freeman & Company.
4. A Primer of Population Genetics Daniel Hartl (1999) Sinauer Associates, Inc.
5. The genetics of Human Population Cavalli - S. Ferza and Bodmer (1976) Freeman, San Francisco.

M.A./M.Sc. IIIrd Semester
Paper Code: ANT-M304A
Human Biology, Growth and Nutrition

Course Credit: 4
Full Marks: 100
(60+40)

- Unit I:** Balance diet, Nutritional Requirement in Man: Carbohydrate, Protein, Fat, Minerals and Vitamins; Carbohydrate and Lipid Metabolism in Man;
- Unit II:** Assessment of nutritional status, National nutritional programmes for elimination of malnutrition and food insecurity.
- Unit III:** Concept of Human Growth; Stages of Human Growth: Prenatal & Post natal; Human Growth Curves of different body parts and tissues; Catch-Up Growth, maturation, Methods of studying Growth, Growth Curve; Secular Trends in Growth
- Unit IV:** Factors affecting Growth: Genetical, Hormonal, Environmental & Physiological.
- Unit V:** Human Adaptation: Human Adaptation to Heat, Cold, High altitudes.

Suggested Readings

1. Bogin, B. 1988. Patterns of Human Growth. Cambridge University Press, Cambridge.
2. Mader, S.S. (6th Ed.). (2000) Human Biology. Mc Graw Hill, New Delhi.
3. Campbell, N.A, J.B. Reece and E.J. Simon (2nd Eds.). 2010. Essential Biology with Physiology. Pearsons, New Delhi.
4. Harrison, G.A., J.S. Weiner, J.M. Tanner and N.A. Barnicot. (1964) Human Biology: An Introduction of Human Evolution, Variation and Growth. Clarendon Press, Oxford.
5. Jobling M. A., M. E. Hurles and C. Tyler-Smith. (2004) Human Evolutionary Genetics: Origins, Peoples & Disease. Garland Science. New York.
6. Yong J. Z. (1971) Introduction to the Study of Man. The English Language Book Society and Oxford University Press, Oxford.
7. Malina, R. M.; C. Bouchard and O. Bar-Or. (2004) Growth, maturation & physical activity. Human Kinetics.
8. Harrison, G.A. and H. Morphy. (1998) Human Adaptation. Berg Publisher, Oxford.
9. Damon, A. (Ed.). 1975. Physiological Anthropology. Oxford University Press, London.
10. Shephard, R. J. 1991. Body composition in biological anthropology. Cambridge University Press, Cambridge.
11. Champe, P. C. And R. A. Harvey (3rdEd). 2005. Lippincott's Illustrated Reviews: Biochemistry, Lippincott Williams & Wilkins, Philadelphia.
12. Nelson, D. L and M. M. Cox. 2008. Lehninger Principles of Biochemistry, Fifth Edition. W. H. Freeman Company, New York.
13. Harlin, J.; G. Bertoni, L. J. Kleinsmith (8thEd.). 2012. Becker's World of the Cell. Pearson Benjamin Cummings, San Francisco.
14. Tanner, J. M. 1978. Growth at Adolescence. Blackwell Science Ltd. London.
15. Carter, J. and B.H. Heath. 1990. Somatotyping – Development and Application. Cambridge University Press, Cambridge.

16. Lasker, G. W. and C. G. N. Mascie-Taylor (Ed.). 1993. Research strategies in human biology: field and survey studies. Cambridge University Press, Cambridge.
17. Weiss, K. M. 1993. Genetic variation and human disease: Principles and evolutionary approaches. Cambridge University Press, Cambridge.
18. Growth, maturation & physical activity (2004) Malina, Robert M; Bouchard, Claude, Bar-Or, Oded. Human Kinetics.
19. Human growth and development by Cameron Noel (20U2). St. Louis, Academic Press.
20. Proceeding on Human Physical Growth and Maturation by eds. Johnson, FE, Roche, AF, Susanne, C, (1980). Plenum Publishing Corporation.
21. Applied body Composition Assessment (2009) Heyward, VH; Wagner DR. Human Kinetic.

M.A./M.Sc. IIIrd Semester **Course Credit: 2**
Paper Code: ANT-M305A **Full Marks: 100**
Practical in Biological & Demographic Anthropology **(60+40)**

- Unit I:** Basic Components of Computers, Concepts of Hardware; Application of Software - Introduction to MS-Office (MS-Word, MS-Excel, MS-Powepoint).
- Unit II:** Basic knowledge of software's applied in anthropological data like demography and health data. (Eg.- SPSS, ENA, etc).
- Unit III:** Concepts of Primary and Secondary data; Various types of representation of population data (tabular, graphical);
- Unit IV:** Basic concepts like Hypothesis, Probability, Variance, degree of freedom; Test of significance (one-way & two-way), Confidence intervals, Odds ratio.
- Unit V:** Analyses of data: t-test; chi-square; ANOVA; Correlation, regression.

Practical Record

Viva Voce

Suggested Literature

1. Biostatistical Analysis 4th Edition (1999) Jerrold Pearson Education.
2. Anthropological Genetics: Theory, Methods and Applications (2006) Crawford; Cambridge University Press.
3. Bioinformatics for Geneticists: A Bioinformatics Primer for the analysis of Genetic Data (2007) Michael R. Barnes; Wiley.
4. Statistical Genetics: Gene Mapping Through Linkage and Association (2008) Benjamin M. Neale Eds. Manual AR. Ferreira, Sarah T. Medland, Danielle Posthuma; Taylor & Francis.
5. Principles of Biostatistics, Pagano M., Gauvreau, K, (2000), Duxbury Press, USA.
6. Bioinformatics for Dummies, Claverie J. M., Notredame C., (2nd Ed., 2007), Wiley Publishing, Inc., New York, USA.

- Unit I:** Measurements on Anthropometric Variables: (i) Standing height vertex; (ii) Sitting height vertex; (iii) Body weight; (iv) Head circumference; (v) Mid. upper arm circumference; (vi) Chest circumference; (vii) Waist circumference; (viii) Hip circumference; (ix) Calf circumference
- Unit II:** Skinfold Measurements: (i) Skinfold at biceps; (ii) Skinfold at triceps; (iii) Subscapular skin fold; (iv) Suprailiac skinfold; (v) Medial calf skinfold
- Unit III:** Measurements on Physiological Variables: Blood Pressure (BP): Systolic and Diastolic Pressure (SBP & DBP); Haemoglobin concentration
- Unit IV:** Indices: Body Mass Index (BMI); Body Mass Abdominal Index (BMAI); Body Adiposity Index (BAI); Waist Hip Ratio (WHR) and Waist Height Ratio (WHTR)
- Unit V:** Assessment of Nutritional Status & Growth: (i) Diet Survey Methods - Family and Individual; (ii) Clinical assessment of Nutritional Status

Practical Record

Viva Voce

Note: Each student has to measure and assess the anthropometric, physiological variables and nutritional intake status at least on 15 individuals

Suggested Readings

1. Das, B. M.: Outline of Physical Anthropology
2. Sarkar, S.S.: Aboriginal Races of India
3. Sarkar, R.M.: Fundamentals of Physical Anthropology
4. Comas, J. Manual of Physical Anthropology
5. Montagu, A.: An Introduction to Physical Anthropology
6. Laskar, G.W.: Physical Anthropology
7. Hootan, E.A.: Up From the Ape
8. Jannush, J. Buettner : Origins of Man
10. UNESCO: Race Question of Modern Science
11. Coon, C.S.: Anthropology from A to Z
15. Sing, I.P. & Bhasin, M.K.: Anthropometry
16. Das, B. M.: Manab Gosthi
17. Das, B.M. & R. Das: Manab Parajati Parichaya
18. Das, B.M. & P.B. Das: Prathamik Abayabik Nritattwa
19. Das, P.B.: Jibasma Manab.
21. Winchester, M.A.: Genetics
22. Rothwell, N.V.: Human Genetics
23. Mange, E.J. & Mange, Arthur: Basic Human Genetics.
24. Singh IP & Bhasin A Laboratory Manual on Biological Anthropology - Anthropometry. Kamal-Raj Entreprises, Delhi, 1989.

Group B

SOCIAL & CULTURAL ANTHROPOLOGY

- Unit I:** Scientific and Humanistic perspective in Social Anthropology, Problems of the Comparative methods in Anthropology: Ethnocentricity and Cross cultural method, The New Anthropology.
- Unit II:** Theoretical approaches to the study of Culture: Classical Evolutionism and Neo-Evolutionism.
- Unit III:** Diffusionism: British, Austro-German and American Schools; Historical Particularism: Franz Boas and A.L. Kroeber; Configurational approach to the study of cultures: S.F. Nadal.
- Unit IV:** Theoretical approaches to the study of Society: Structure and Functionalism; Structuralism and Neo-Structuralism: Levi Strauss and Edmund Leach; Evans Pritchard, Raymond Firth.
- Unit V:** Anthropology and Gender; Symbolic and Interpretative Anthropology, Ethics, World View, and the analysis of Sacred Symbols; Post- Modernism-Meaning, Its implication for Anthropology.

Suggested Readings

1. Barth, Frederic. Models of Social Organization, (Royal Anthropological Institute, Occasional Paper-23
2. Behura, N. K. Anthropological thought and Theories.
3. Bidney, D. Theoretical Anthropology.
4. Child, V. Gordon. Social Evolution.
5. Durkheim, E. Rules of Sociological Method.
6. Geertz, G. Structure to Meaning.
7. Gluckman, M. Closed Systems and Open Minds.
8. Harris, M. The Rise of Anthropological Theory.
9. Honnigman, J. J. A Hand Book of Cultural Anthropology.
10. Kroeber, A. L. Anthropology Today.
11. Kroeber, A. L. Anthropologist Looks at History.
12. Kuper, Adam. Anthropology of Anthropologists.
13. Leach, E. R. Rethinking Anthropology.
14. Leach, E. R. Claude Levi-Strauss.
15. Lewis, I. M. History and Social Anthropology.
16. Levi-Strauss, C. Structural Anthropology.
17. Lowie, R. H. History of Ethnological Theory.
18. Malinowski, B. Scientific Theory of Culture and Other Essays.
19. Manners and Kaplan (ed). Theory in Anthropology-A course book.
20. Marsh, R. M. Comparative Sociology.
21. Martindale, Don. The Nature and Types of Sociological Theory.
22. Martindale, Don. Functionalism in social Sciences.
23. Morgan, L. H. Ancient Society.

24. Merton, R. K. *Social Theory and Social Structure*.
25. Nadel, S. F. *Towards a Theory of Social Structure*.
26. Nagel, E. *The Structure of Science*.
27. Parsons, Shils and Others (ed) *Theories of Society*.
28. Parsons & Others. *Towards a General Theory of Action*.
29. Pelto, P. J. *Anthropological Research: The Structure of Enquiry*.
30. Radcliffe-Brown, A. R. *Structure and Function in Primitive Society*.
31. Radcliffe-Brown, A. R. *Method in Social Anthropology*.
32. Siegel, B. (ed). *Biennial Review of Anthropology*.
33. Steward, J. *Theory of Culture Change*.
34. Sol Tax et al. *An Appraisal of Anthropology Today*.
35. Thomas, W. L. Jr. (ed). *Current Anthropology*.
36. Tylor, E. B. *Primitive Culture*.
37. White, L. A. *The Science of Culture*.

M.A./M.Sc. IIIrd Semester

Course Credit: 4

Paper Code: ANT-M304B

Full Marks: 100

Tribes in India: Their Problems and Development

(60+40)

- Unit I:** Conceptualising Scheduled Tribes in India: Their Socio-Economic, Political and Religious Organisations, Changing concept of Tribes in India; Constitutional Safeguards for STs, Administration of Scheduled Areas, Fifth and Sixth Schedule of the Constitution of India.
- Unit II:** Tribal Problems in India: Problem of Education, Indebtedness, Land Alienation, Displacement and Rehabilitation, Atrocity on Tribal People.
- Unit III:** Human Development Index and Human Development Report, Impact of Development Programs on tribal people: Sarva Sikhya Abhiyan (SSA) and Mahatma Gandhi National Rural Guarantee Scheme (MGNREGS).
- Unit IV:** Concept and Definition: Human Rights and Tribal Rights, Scheduled Caste and Scheduled Tribe (Prevention Atrocity) Act 1989 and 1995, The National Commission for Scheduled Tribes, PESA Act, 1996, Scheduled Tribe and OTFD Act, 2006.
- Unit V:** United Nations Declaration on the Rights of Indigenous People, International Labor Organisation Convention violation of Tribal Rights.

Suggested Readings

1. Mathur, Hari Mohan (Ed.). Anthropology in Development Process.
2. Foster, G.M. Traditional culture and impact of technological Change.
3. Singh. K.S. Tribal Situation in India.
Upadhyay, V.S. and Pandey, Gaya. Tribal development in India: A critical Appraisal
Bhandari, J.S. & Channa, S, M. (Ed.) Tribes and Government Policies.
4. Pati, R.N. & Dash, J. (Ed.) Tribes and Indigenous People of India: Problems and Prospects
5. Cochrane, Glyn. Development Anthropology.
6. Schumacher, E.F. Small is Beautiful.
7. Vidyarthi, L.P. Applied Anthropology in India.
8. Sharma, B.D. Planning for Tribal Development.
9. Dube, S.C. Tribal Heritage of India.
10. Behura, N.K. and Panigrahi, N. Indian Constitution and the Tribals: Functioning of Fifth Schedule in the State of Orissa.

- Unit I:** Preparation of tools for qualitative data collection: Household census schedule, preparation of structured and unstructured questionnaire, Interview schedule to collect data on different socio-economic, education, festival, economy of tribal communities
- Unit II:** Preparation of tools for qualitative data collection: Drawing of family Genealogy, Preparation of guidelines for in-depth interview, case study
- Unit III:** Preparation of study objectives, hypotheses and Research Design on health, education, economy, Festival of Tribal Society
- Unit IV:** Preparation and use of PRA Techniques
- Unit V:** Preparation and use of RRA Techniques

[Note: The Students are required to orient themselves in the above techniques for collection of data relating to socio-cultural anthropology]

Suggested Readings

1. Agar, M. The professional stranger, an informal introduction to Ethnography. New York: Academic Press, 1980.
2. Srivastava, V (Ed.). Methodology and Fieldwork. Oxford India Paperbacks, New Delhi.2005.
3. Srinivash, M. N. (Ed.), Methods in Social Anthropology. Hindustan Publishing Corporation, New Delhi, 1995.
4. Krishnaswami, O. R. and Ranganatham, M. Methodology of Research in Social Sciences. Himalaya Publishing House, Mumbai, 2009.
5. Kothari, C.R. Research methodology: methods and techniques. 2 ed., New Delhi: Vishwaprakashan, 1990.
6. Bernard, H.R., Research Methods in Anthropology. London: Sage, 1994.
7. Brewar, J.D., Ethnography. Buckingham: OUP, 2000.
8. Coffey, A. The Ethnographic Self: Field Work and the Representation of Identity. London: Sage.
9. Dey, I., Qualitative Data Analysis, London: Routledge, 1993.
10. Eller, R (ed). Ethnographic Research: A Guide to General Conduct. London: Academic Press, 1984.
11. Fetterman, M.D., Ethnography: Step by Step. London: Sage, 1989.
12. Hammersley, M. And Alkinson, P., Ethnography: Principles in Practice. London: Tavistock, 1983.
13. Mc cracker, G., The long Interview. London: Sage, 1989.
14. Patton, M.Q., Qualitative Research and Evaluation Methods. London: Sage, 2002.
15. Silverman, D., Interpreting Qualitative Data. London: Sage, 1993.

16. Stewart. A., *The Ethnographer's Method*. London: Sage, 1998.
17. Singha, K. "Participant Observation and In-depth Interviewing" in B.Y. Attig, et. al (eds), *Qualitative Methods for Population and Health Research*. Bangkok: Mahidol Univeristy, pp 120-128, 1993.
18. Watson, C. W. (Ed) *Being There: Field work in Anthropology*. London: Pluto Press.
19. Hamersley, M. *What's wrong with Ethnography*. London: Routledge, 1992.
20. Moser, C.A. and Kalton, G. *Survey Methods in Social Investigation*. London: Heinemann, 1971.
21. Merton, R.K. *On Theoretical Sociology*. New York: Free Press. 1967.
22. Goode, W.J. and Hatt, P.K. *Methods of Social Research*. New York: McGraw Hill. 1952.
23. Silverman, D. (Eds). *Qualitative Research: The Methods and Practice*. 2nd Edition; London: Sage
24. Bryman, A. *Social Research Methods*. 3rd edition Oxford: OUP. 2008
25. Bryman, A. *Research Methods and organisational Studies*. London: Rout ledge, 1989.
26. Hardy, M. And Bryman. A (eds). *Handbook of Data Analysis*. London: Sage, 2004
27. Bryman, A. *Qualitative Data Analysis with SPSS 15: A Guide for Social Science*, London Rout ledge, 2008.
28. Bryman, A. and Burgess, R. G (Ed) *Qualitative Research*, London: Sage .1999.
29. Boulmer, M (Eds) *Social Research Methods*. Macmillan. 1984.
30. Jahoda, M., Deutsch, M, and Cook, S.W., *Research Methods in Social Relations*. New York: Dryde 1951.
31. Junker, B. *Field Work*, Chicago: University of Chicago Press. 1960.
32. Hammersley, M. *Reading Ethnographic Research: A Critical Guide*. London: Longman. 1991
33. Pelto, P.J. and Pelto, G.H. *Anthropological Research: The Structure of Inquiry*. New York. Cambridge University Press. 1978.
34. Bernard, H.R. *Research Methods in Anthropology: Qualitative and Quantitative Approaches* (4th edition). Rawat Publication. 2008.

- Unit I:** Analysis of Quantitative field data; Preparation of master sheet, sub-sheet; Coding of data
- Unit II:** Quantitative tools and techniques; Scaling techniques; Field notes.
- Unit III:** Data presentation; Drawing tables; Diagrams and Case studies; Application of Basic Statistics.
- Unit IV:** Preparation of Dissertation / Report.
- Unit V:** Preparation of Research Papers: Abstracts, Posters Presentation / Slide.

[Note: Students are required to orient themselves in the above processes and techniques for data analysis and preparation of dissertation / report and research papers]

Suggested Readings

1. Srivastava, V (Ed.). Methodology and Fieldwork. Oxford India Paperbacks, New Delhi.2005.
2. Srinivash, M. N. (Ed.), Methods in Social Anthropology. Hindustan Publishing Corporation, New Delhi, 1995.
3. Krishnaswami, O. R. and Ranganatham, M. Methodology of Research in Social Sciences. Himalaya Publishing House, Mumbai, 2009.
4. Kothari, C.R. Research methodology: methods and techniques. 2 ed., New Delhi: Vishwaprakashan, 1990.
5. Bryman, A. Research Methods and organisational Studies. London: Rout ledge, 1989.
6. Hardy, M. And Bryman. A (eds). Handbook of Data Analysis. London: Sage, 2004.
7. Agar, M. The professional stranger, an informal introduction to Ethnography. New York: Academic Press, 1980.
8. Srivastava, V (Ed.). Methodology and Fieldwork. Oxford India Paperbacks, New Delhi.2005.
9. Srinivash, M. N. (Ed.), Methods in Social Anthropology. Hindustan Publishing Corporation, New Delhi, 1995.
10. Krishnaswami, O. R. and Ranganatham, M. Methodology of Research in Social Sciences. Himalaya Publishing House, Mumbai, 2009.
11. Kothari, C.R. Research methodology: methods and techniques. 2 ed., New Delhi: Vishwaprakashan, 1990.

Post Graduate

Fourth Semester

(Core Paper)
M.A./M.Sc. IVth Semester **Course Credit: 4**
Paper Code: ANT-M401 **Full Marks: 100**
Applied Anthropology and Tribal Development **(60+40)**

- Unit I:** Applied Anthropology: Concept, Definition, Its Scope and History. Applied and Action Anthropology, Development Anthropology and Policy Perspective, Applied Physical Anthropology and Human Genetics.
- Unit II:** The concept of Tribal Development: Tribal Policy during pre-and-post Independence era; Approaches to Tribal development; Various Committees and Commissions on Tribal Development; Role of Anthropologists in Tribal Development.
- Unit III:** Constitutional Provisions and Safeguards for Scheduled Tribes, Administration of Scheduled Areas; Functioning of Tribes Advisory Council; Tribal Welfare programmes through Five Year Plans.
- Unit IV:** Tribal Sub Plan: ITDA, MADA, Cluster, DTDP and Micro project; Financial and Administrative arrangements for Tribal Development; External aided development projects, challenges & opportunities: few case studies.
- Unit V:** Barriers and Stimulants for Tribal Development; Contribution of Anthropology to Government and Development planning in India.

Suggested Readings

1. Aron, Raymond & Levi Strauss. Cultural Dynamics' in Approaches to the Science of Socio-economic development (ed) by Peter Lengyel.
2. Behura, N.K. and Panigrahi, N. Indian Constitution and the Tribals: Functioning of Fifth Schedule in the State of Orissa.
3. Casley, Dennis J, Krishna Kumar: The Collection, Analysis and Use of Monitoring and Evaluation Data.
4. Cassen Robert & Associate (ed). Does Aid Work?
5. Cernea, Michael M. Putting People First: Sociological Variables in Rural Development.
6. Chambers, Robert Rural Development; Putting the Last First.
7. Commission for UNESCO – Netherlands. Cultural Dimension of Development.
8. Dube, S.C. Modernization & Development: The Search for Alternative Paradigms.
9. Dube, S. C. Cultural Dimensions of Development in International Science Journal.
10. Foster, G. M. Traditional Culture and Impact of Technological Change.
11. Harris, J. (ed). Rural Development.
12. Harris, Marvin. The Rise of Anthropological Theory.
13. Mathur, Hari Mohan. The Human Dimension of Development: Perspectives from Anthropology.
14. Mathur, Hari Mohan (ed). Anthropology in the Development Process.
15. Meier, Gerald, M. Leading Issues in Economic Development.
16. Nieuwinhuijze C. A. O., Van. Culture and Development: false dilemmas and real issues in ISSJ, Vol. 18.
17. Schumacher, E. F. Small is Beautiful.
18. Skar, Harold (ed). Anthropological Contributions to Planned Change and Development.
19. Vidyarthi, L. P. (ed). Applied Anthropology in India.
20. Vidyarthi. L. P. & B. N. Shay (ed). Applied Anthropology and Development in India.

M.A./M.Sc. IVth Semester
Paper Code: ANT-M402
Bio-Cultural Anthropology

Course Credit: 4
Full Marks: 100
(60+40)

- Unit I:** Meaning and Principles of Bio-Cultural Anthropology, From Animality to Humanity, What makes Humans? Insights from new Genetics and Social Biology.
- Unit II:** Human Evolution: Human Biological and Cultural factors; Origin and evolution of Language; Gene-culture co-evolution.
- Unit III:** Human Adaptation: Genetic Adaptation, Physiological Adaptation, Behavioral Adaptation and Cultural Adaptation; Biological and Cultural factors influencing Nutrition and Health.
- Unit IV:** Consanguineous marriage, Inbreeding on genetic structure of human population; Biological consequence of Inbreeding, Opportunity of Natural Selection in Human Population.
- Unit V:** Basic concept of gene-culture-environment interaction, Environment pollution and human health.

Suggested Readings

1. Harrison, G.A., Howard Morphy. Human Adaptation.
2. Harrison, G.A., Tanner, J.M., Pilbeam, D.R., Baker, P.T. Human Biology.
3. Speicher M.R. et al. Human Genetics.
4. Park K. Text Book of Preventive and Social Medicine.
5. Rutter M. Genes and Behavior: Nature-Nuture interplay explained.
6. Paul Kutsche and others. Teaching Bio-cultural Anthropology - The Journal of General Education, 1983.
7. Fran Cois Bordes. The Old Stone Age.
8. Bhattacharya B.K. The emergence of Man.
9. Allan, A. Adaptation in Cultural Evolution.
10. Ron Stall, Sandra M Cifford, Croing R Jeans. Anthropology and Epidemiology: Interdisciplinary approaches to the study of Health and Disease.
11. Gaya Pandey. Bio-Cultural Evolution.
12. Craig Stanford, John S. Allen, Susan C. Anton. Exploring Biological Anthropology.
13. Eric Abella Roth. Culture, Biology and Anthropological Demography.
14. John H. Relethford. Human Population Genetics.
15. B. Jensen. Nutritional Anthropology.
16. Indrani Basu Roy. Anthropology: The Study of Man.
17. Ferraro, Travathan, Levy. Anthropology: An Applied Perspective.
18. Robin Fox. Bio-Social Anthropology, Malaby Press, London.

Group A

BIOLOGICAL ANTHROPOLOGY

(Elective Papers)

M.A./M.Sc. IVth Semester

Paper Code: ANT-M403A

Population Studies

Course Credit: 4

Full Marks: 100

(60+40)

- Unit I:** Meaning, Definition and Scope of Population Studies, Theories of Population: Pre-Malthusian, Malthusian and Post-Malthusian theory, Theory of Demographic Transition, Factors contributing to Population growth, Anthropological Demography.
- Unit II:** Basic Demographic Variables, Sex Ratio, Fertility, Mortality, Migration, Morbidity; Sources of Population Data: Census, NFHS, NSS, DHS, International Year Book.
- Unit III:** Measures of Fertility, Measures of Mortality, Prenatal and Postnatal deaths, Differential Fertility, Differential Mortality, Migration and Differential Migration, Mating systems, Inbreeding and its Consequences, Intrinsic Rate of Natural Increase, Culture and Fertility, Fertility and Fecundity.
- Unit IV:** Demographic profile of India; Growth and Distribution of Tribal Population in India, Population problems with special reference to India; National Population Policy, Infant and Child Mortality in India, Maternal Mortality in India.

Suggested Readings

1. Agarwal, S. N. India's Population Problem.
2. Arora, Gomti. Social Structure & Fertility.
3. Bhenda, Asha, A. & Kanetkar Tara. Principles of Demography.
4. Bose, Ashish. India's Urbanization 1901-2001.
5. Chand, Gyan. Population in Perspective.
6. Council for Social Development Publication. Aspects of Population Policy in India.
7. Davis-Kingsley. The Population of India and Pakistan.
8. Driver, E. R. Differential Fertility in Central India.
9. Kesarwani, Baburam. Fertility and Differential Fertility.
10. Kumarg, T. K. Vimala. Infant Mortality among the Fishermen.
11. Mahadevan, K. Fertility and Mortality.
12. Mahadevan, K. Sociology of Fertility.
13. Mitra, Ashok. India's Population Vol. I & II.
14. Sandhya, S. Socio-Economic and Cultural Correlates of Infant mortality.
15. Senapati R.N, P.K. Nayak, P.K.Das. Population profile of Orissa.
16. Sinha, V. Dynamics of Indian Population Growth.
17. Srivastava, O. Demography.
18. Donald J. Bogue. Principles of Demography.
19. John H. Relethford. Human Population Genetics.
20. Eric Abella Roth. Culture, Biology and Anthropological Demography.
21. G.A. Harrison, J.M. Tanner, D.R. Pilbeam, P.T. Baker. Human Biology.

M.A./M.Sc. IVth Semester
Paper Code: ANT-M404A
Practicals in Population Studies

Course Credit: 2
Full Marks: 100
(60+40)

- Unit I:** Preparation of schedules for collection of demographic data.
- Unit II:** Preparation of flow chart and graphic presentation
- Unit III:** Compilation and presentation of data on population studies (from secondary data like Census):
(i) Age composition (ii) Sex composition (iii) Age ratio (iv) Fertility measures
(v) Mortality measures
- Unit IV:** Pictorial comparison of health indicators
- Unit V:** Interpretation and Preparation of Report Writing, APA Style of writing references.

Practical Record

Viva Voce

Suggested Readings

1. Mahadevan, K. Fertility and Mortality.
2. Agarwal, S. N. India's Population Problem.
3. Arora, Gomti. Social Structure & Fertility.
4. Bhenda, Asha, A. & Kanetkar Tara. Principles of Demography.
5. Bose, Ashish. India's Urbanization 1901-2001.
6. Srivastava, O. Demography.
7. Chand, Gyan. Population in Perspective.
8. Sandhya, S. Socio-Economic and Cultural Correlates of Infant mortality.6. Council for Social Development Publication. Aspects of Population Policy in India.
9. Davis-Kingsley. The Population of India and Pakistan.
10. G.A. Harrison, J.M. Tanner, D.R. Pilbeam, P.T. Baker. Human Biology.8. Driver, E. R. Differential Fertility in Central India.
11. Kesarwani, Baburam. Fertility and Differential Fertility.
12. Kumarg, T. K. Vimala. Infant Mortality among the Fishermen.
13. Mahadevan, K. Sociology of Fertility.
14. Mitra, Ashok. India's Population Vol. I & II.
15. Senapati R.N, P.K. Nayak, P.K.Das. Population profile of Orissa.
16. Sinha, V. Dynamics of Indian Population Growth.
17. Donald J. Bogue. Principles of Demography.
18. John H. Relethford. Human Population Genetics.
19. Eric Abella Roth. Culture, Biology and Anthropological Demography.

M.A./M.Sc. IVth Semester
Paper Code: ANT-M406 (A)

Course Credit: 6

Field Work Dissertation

Full Marks: 200

All the students of PG (M.A./M.Sc. IVth & Integrated Xth Semester) are required to undertake field work in rural/ tribal/ urban areas of Chhattisgarh state for a period of 21 days for preparation of dissertation under the guidance of teacher(s). The topic of the dissertation will be allotted by the concerned teacher (Supervisor).

Dissertation	120 marks
Seminar Presentation & Viva-Voce	80 marks

Group B

SOCIAL & CULTURAL ANTHROPOLOGY

(Elective Papers)
M.A./M.Sc. IVth Semester
Paper Code: ANT-M403B
Tribal Culture and its Transformation

Course Credit: 4
Full Marks: 100
(60+40)

- Unit I:** Tribal and Identity: Ethnic conflict', Ethos and Values, Identity and Language; Liberalisation, Market and its impact on Tribal Culture, Modernity and Post-Modernity.
- Unit II:** Tribal Ethnic Movement and Quest for Identity formation; Tribal Ethnic Movement in Central India; Common Property Resources and Customary Rights of the Tribal People of Central India; Indigenous Knowledge of Natural Resources in Management.
- Unit III:** Role of Tribal women in Society, Tribal Women in Globalizing World, Violence against Tribal women, Empowerment of Tribal Women.
- Unit IV:** Tribal situation in Chhattisgarh: Demographic Characteristics, Racial and language affinity, Integration of Tribes and Castes, Issues related to Natural Resources
- Unit V:** Impact of modernization and Globalisation on Tribal life and their livelihood.

Suggested Readings

1. Gunewardena, Nandini and Ann E Kingsolver. (2007) The Gender of Globalisation: Women navigating Cultural and economic marginalities. Santa Fe N.M. School for Advanced Research Press.
2. Leela. Dube, 1997. Women and Kinship: Comparative Perspective, on Gender in South and South-East Asia, Tokyo: United Nations University Press.
3. Haimdorf. The Tribes of India of India: The struggle for survival.
4. Harrison, Faye Venetia. 2005. Resisting Racism and Xenophobia: Global Perspective on race, Gender and Human Rights. Walnut Creek (Calif): Altamira Press.
5. Kapadia, Karin 1995. Shiva and Her Sisters: gender, caste and class in rural south India. Studies on Ethnographic imagination. Boulder, Colo: Westview Press.
6. Misra, K.K. and Janet Huber Lowr. 2007. Recent studies on Indian Women: Empirical work of social scientists, Jaipur: Rawat Publications.
7. Napels, Nancy A., and Manisha Desai. 2002. Womens activism and Globalisation: Linking Local struggles and Transnational Politics. New York: Routledge.
8. Sharma, B.D. Basic Issues in Tribal Development.
9. Singh, K.S. Tribal Movements in India, Vol-I & II
10. Singh, K.S. (Ed). Tribal Situation in India.
11. Redfield, Robert. 1965. Peasant Society and Culture: An anthropological approach to civilization (Chicago) U.A. University of Chicago Press.
12. Xaxa, Virginius, 2008. Status, Society and Tribes: Issues in post-colonial India, New Delhi: Dorling Kindersley (India) licensee of Pearson Education in South Asia.
13. Miri, Mrinal. 2003. Identity and Moral Life, New Delhi, Oxford University Press.
14. Miri Mrinal. 1993. Continuity and Change in tribal society, Shimla: Indian institute of Advanced Studies.
15. Unnithan-Kumar Maya, 1997. Identity, Gender and Poverty: New Perspective on Caste and Tribe in Rajasthan, Providence: Berghen Books.

- Unit I:** Preparation of Study tools: Schedule, Questionnaire, Case Study, In-depth Interview guidelines.
- Unit II:** Review of Literature; Book Review; Content Analysis
- Unit III:** Data Processing; Tabulation; Coding; Interpretation
- Unit IV:** Preparation of Dissertation / Ethnography document, Reference Citation, End Notes
- Unit V:** Seminar Presentation: Preparation of Slides, Photographs, Plates, Annexure in the report.

Suggested Readings

1. Bernard, H.R., Research Methods in Anthropology. London: Sage, 1994.
2. Dey, I., Qualitative Data Analysis, London: Routledge, 1993.
3. Hammersley, M. And Alkinson, P., Ethnography: Principles in Practice. London: Tavistock, 1983.
4. Patton, M.Q., Qualitative Research and Evaluation Methods. London: Sage, 2002.
5. Silverman, D., Interpreting Qualitative Data. London: Sage, 1993.
6. Singha, K. "Participant Observation and In-depth Interviewing" in B.Y. Attig, et. al (eds), Qualitative Methods for Population and Health Research. Bangkok: Mahidol Univeristy, pp 120-128, 1993.
7. Watson, C. W. (Ed) Being There: Field work in Anthropology. London: Pluto Press.
8. Moser, C.A. and Kalton, G. Survey Methods in Social Investigation. London: Heinemann, 1971.
9. Goode, W.J. and Hatt, P.K. Methods of Social Research. New York: McGraw Hill. 1952.
10. Silverman, D. (Eds). Qualitative Research: The Methods and Practice. 2nd Edition; London: Sage.
11. Bryman, A. Social Research Methods. 3rd edition Oxford: OUP. 2008
12. Bryman, A. Research Methods and organisational Studies. London: Routledge, 1989.
13. Hardy, M. And Bryman. A (eds). Handbook of Data Analysis. London: Sage, 2004
14. Bryman, A. and Burgess, R. G (Ed) Qualitative Research, London: Sage .1999.
15. Jahoda, M., Deutsch, M, and Cook, S.W., Research Methods in Social Relations. New York: Dryde 1951.
16. Bernard, H.R. Research Methods in Anthropology: Qualitative and Quantitative Approaches (4th edition). Rawat Publication. 2008.
17. Srivastava, V (Ed.). Methodology and Fieldwork. Oxford India Paperbacks, New Delhi.2005.
18. Srinivash, M. N. (Ed.), Methods in Social Anthropology. Hindustan Publishing Corporation, New Delhi, 1995.
19. Krishnaswami, O. R. and Ranganatham, M. Methodology of Research in Social Sciences. Himalaya Publishing House, Mumbai, 2009.
20. Kothari, C.R. Research methodology: methods and techniques. 2 ed., New Delhi: Vishwaprakashan, 1990.

M.A./M.Sc. IVth Semester
Paper Code: ANT-M406B
Field Work Dissertation

Course Credit: 6

Full Marks: 200

All the students of PG (M.A./M.Sc. IVth & Integrated Xth Semester) are required to undertake field work in rural/ tribal/ urban areas of Chhattisgarh state for a period of 21 days for preparation of dissertation under the guidance of teacher(s). The topic of the dissertation will be allotted by the concerned teacher (Supervisor).

Dissertation	120 marks
Seminar Presentation & Viva-Voce	80 marks

Soft Skill Papers
M.A./M.Sc. Ist Semester
Paper Code: ANT-M107

Course Credit: 5

Demographic Anthropology

- Unit I:** Basic concepts and definition of demography relationship between demography and anthropology. Importance of population studies and their implications. Population dilemma and fluctuations in population thought.
- Unit II:** Various types of sampling design and their relevance in demographic studies.
- Unit III:** Sources of demographic data- Census, Civil Registration system (CRS), Sample Registration system (SRS), National samples survey organizations (NSSO), Model Registration System (MRS) - merits and demerits. Theories of demographic transition.
- Unit IV:** Population structure- Age and sex composition, Ethnic and racial composition, geographical distribution and urbanization, distribution according to various social characteristics. Literacy trend in world population, population projection.
- Unit V:** Population of India: Pre-independence and post-independence scenario, population dynamics of Indian tribes and castes.

Suggested Literature

1. Driver, E.D. **1963** Fertility differentials in Central India. Princeton University Press Princeton.
2. NFHS I II III, 1992, 1998, 2006 India : IIPS Bombay
3. Zubrow EBW 1976. Demographic Anthropology Quantitative Approaches University of New Mexico Press, Albuquerque.
3. World Bank 2000 World Development Report 2000, World Bank Publication.

Soft Skill Papers
M.A./M.Sc. IVth Semester

Course Credit: 5

Paper Code: ANT-M407

Anthropology of Disaster

- Unit I:** Disaster: Definition, typology, vulnerability, risk, coping.
- Unit II:** Anthropological approaches to study disasters - archaeological/historical, political ecology, socio-cultural behavioural, gendered perspective.
- Unit III:** Management of Disaster- Historical perspective, International and national agreements and protocols.
- Unit IV:** Methods for studying disasters. Health, social and economic impacts of disaster.
- Unit V:** Plans and National policies concerning disasters, disaster risk mitigation, disasters management.

Suggested Literature

1. The Angry Earth: Disasters in Anthropological perspectives. A. Oliver-Smith and SM Hoffman. Routledge. 1999.
2. Community in Disaster. WH Form and S. Nosow. Harper. 1958.
3. Environmental Disaster and the Archaeology of Human Response. G. Bawden and RM Reycraft. Univesity of New Mexico Press. 2000.
4. The Northridge Earthquake: Vulnerability and Disasters. RC Bolin! Stanford. 2000.
5. Disasters, Relief and the Media. J Benthall. IB Tauris and Company Ltd. 1993.
6. Mapping Vulnerability. J Bankoff and G Frerks. Earthscan. 2004.
7. Natural Disasters. A. Alexander. Routledge Taylor and Francesbrip. 1993.
8. Confronting Catastrophe: New perspective on Natural Disasters. DE Alexander. Terra Publishing. 2000.
9. Terrorism and Disasters: New threats, new ideas. LB Clarke. JAI Press. 2003.
10. Methods for Disaster Mental Health Research. FH Norris, S galea, MT Friedman, PJ Watson, Guilford Press. 2006.
11. Phenomenology of Disasters: Towards a Rhetoric of Tragedy. Pennsylvania State University Press. 2006.81