

A. SEMESTER-WISE DISTRIBUTION OF COURSES IN
B.A. / B.Sc. HONOURS (CBCS)

Sem	CORE COURSE (14)	Ability Enhancement Compulsory Course (AECC) (2)	Skill Enhancement Course (SEC) (2)	Elective: Discipline Specific DSE (4)	Elective: Generic (GE) (4)
I	C 1 (6C) ANTH-101 Introduction to Biological Anthropology	AECC 1 Communicative English (2 C)			GE-1(6C) * Introduction to Biological Anthropology Or Anthropology of Health
	C 2 (6C) ANTH-102 Introduction to Socio-cultural Anthropology	AECC 2 MIL/ Communicative Hindi/ Alternative English (2C)			
II	C 3 (6C) ANTH-201 Archaeological Anthropology	AECC 3 Environmental Science (4C)			GE-2(6C)* Archaeological Anthropology Or Indian Archaeology
	C 4 (6C) ANTH-202 Fundamentals of Human Origin & Evolution				
III	C 5(6C) ANTH-301 Tribes and Peasants in India		SEC-1.1 (2C) AECC-2: Business and Corporate Anthropology		GE-3(6C)* Introduction to Socio-Cultural Anthropology Or Tribal Cultures in India
	C 6(6C) ANTH-302 Human Ecology: Biological & Cultural dimensions				
	C 7(6C) ANTH-303 Biological Diversity in				

	Human Populations				
IV	C 8(6C) ANTH-401 Theories of Culture and Society		SEC-1.2 (2C) AEEC-4: Tourism Anthropology		GE-4(6C)* Research Methods in Anthropology
	C 9(6C) ANTH-402 Human Growth and Development				
	C 10(6C) ANTH-403 Research Methods				
V	C 11(6C) ANTH-501 Human Population Genetics			DSE-1 (6C) [Any Two] DSE- I(A): Indian Archaeology DSE- I(B) : Anthropology of Health DSE- I(C) : Tribal Cultures in India	
	C 12 (6C) ANTH-502 Anthropology in Practice				
VI	C 13(6C) ANTH-601 Dissertation			DSE-3(6C) [Any Two] DSE- I(A): Forensic Anthropology DSE- I(B) : Urban Anthropology DSE- I(C) : Human Genetics	
	C 14(6C) ANTH-602 Anthropology of India				

Semester –I, (Core Course)

C1 (6C), ANTH-101: Introduction to Biological Anthropology

Theory Credit- 4

Unit I: History and development of understanding human variation and evolutionary thought. Theories of evolution.

1. Human variation and evolution in ancient times pre-19th and post-19th Century.
2. Theories of evolution. Lamarckism, Neo Lamarckism, Darwinism, Synthetic theory, Mutation and Neo-Mutation theory.

Unit II: History of Physical Anthropology and development of Modern Biological anthropology, aim, scope and its relationship with allied disciplines.

1. Difference in the approaches of modern and traditional Biological Anthropology, with emphasis on human evolution.

Unit III: Non human primates in relation to human evolution

1. Classification and characteristics of living primates.
2. Comparative anatomy and behaviour of human and non-human primates.
3. Significance of non-human primate study in Biological Anthropology.

Unit IV: Great divisions of humanity

1. A comparative account of various racial classifications (Hooton, Deniker, Risley and Guha)
2. UNESCO Statement on Race.
3. Recent understanding of human biological categories in the context of human genome research.

Practical Credit-2

Somatometry (at least on 3 subjects)

1. Maximum head length 9. Physiognomic facial height
2. Maximum head breadth 10. Morphological facial height
3. Minimum frontal breadth 11. Physiognomic upper facial height
4. Maximum bizygomatic breadth 12. Morphological upper facial height
5. Bigonial breadth 13. Head circumference
6. Nasal height 14. Stature
7. Nasal length 15. Sitting height
8. Nasal breadth 16. Body weight

Somatometry (at least on 3 subjects)

1. Head form 2. Hair form 3. Facial form 4. Eye form
5. Nose form 6. Hair colour 7. Eye colour 8. Skin colour

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). Introduction to Physical Anthropology. Wadsworth Publ., USA
2. Kroeber A. L. (1948). Anthropology. Oxford & IBH Publishing Co., New Delhi.
3. Stanford C., Allen J.S. and Anton S.C. (2010). Exploring Biological Anthropology. The Essentials. Prentice Hall Publ, USA.
4. Statement on Race: Annotated Elaboration and Exposition of the Four Statements on Race (1972). Issued by UNESCO. Oxford University Press.

AC2 (6C), ANTH-102 Introduction to Socio-cultural Anthropology

Theory Credit- 4

Unit I: Anthropological perspective and orientation; Scope and relevance of Social anthropology; Relationship of Social Anthropology with other disciplines

Unit II: Concepts of society and culture; status and role; groups and institution, social stratification and civil society.

Unit III: Social fact; social action; social conflict; social system.

Unit IV: Theory and practice of ethnographic fieldwork; survey research; comparative and historical methods

Practical Credit- 2

Methods and Techniques of Social Anthropology: The practical will include the following techniques and methods in collection of data in Social Anthropology.

1. Observation
2. Interview
3. Questionnaire and Schedule
4. Case study
5. Life history

Suggested Readings

1. Beattie J. (1964). Other Cultures. London: Cohen & West Limited.
2. Bernard H.R. (1940). Research Methods in Cultural Anthropology. Newbury Park: Sage Publications.
3. Davis K. (1981). Human Society. New Delhi: Surjeet Publications.
4. Delaney C. (2004). 'Orientation and disorientation' In Investigating Culture: An Experiential Introduction to Anthropology. Wiley-Blackwell.
5. Ember C. R. et al. (2011). Anthropology. New Delhi: Dorling Kindersley.

6. Ferraro G. and Andreatta S. (2008). In Cultural Anthropology: An Applied Perspective. Belmont: Wadsworth.
7. Karen O'reilly. (2012). 'Practical Issues in Interviewing' Ethnographic Methods. Abingdon: Routledge
8. Lang G. (1956). 'Concept of Status and Role in Anthropology: Their Definitions and Use. The American Catholic Sociological Review.17(3): 206-218
9. O'reilly K. (2012). Ethnographic Methods. Abingdon: Routledge.
10. Parsons T. (1968). The Structure of Social Action. New York: Free Press
11. Rapport N. and Overing J. (2004). Key Concepts in Social and Cultural Anthropology. London: Routledge.
12. Royal Anthropological Institute of Great Britain and Ireland (1971). 'Methods' In Notes and Queries on Anthropology. London: Routledge & Kegan Paul Ltd.

(Ability Enhancement Compulsory Course) (AECC) (2)

AECC 1 Communicative English (2 C)
AECC 2 MIL/ Communicative Hindi/ Alternative English (2C)

Elective: Generic (GE) (4)

GE-1(6C) *

*Select one from the Generic Elective / interdisciplinary list given in the last page.

Semester –II, (Core Course)

C3 (6C), ANTH-201 Archaeological Anthropology

Theory Credit- 4

Unit I: Introduction

- Definition and scope of archaeological anthropology
- Relation with other disciplines
- Methods of studying archaeological anthropology

Unit II: Methods of Estimation of Time and Reconstruction of the Past

- Absolute dating methods
- Relative dating methods

- Methods of climatic reconstruction: palynology, palaeontology, soil pH estimation.

Unit III: Geochronology of Pleistocene Epoch

- Glacial and Interglacial
- Pluviation and Inter Pluviation
- Different types of geoclimatic events

Unit IV: Understanding Culture

- Technique of tool manufacture and estimation of their relative efficiency
- Classification of tools: primary and combination fabrication techniques
- Typology and cultural nomenclature

Unit V: Earliest Evidence of Culture in the World

- Konso, Olorgesailie, Olduvai Gorge
- Pirro Nord, Dmanisi
- Attirampakkam, Isampur

Practical Credit- 2

Typo-technological Analysis of Prehistoric Tools: Identification, Interpretation and Drawings of the tool Types (at least on 3 tools)

1. Core Tool Types
2. Flake Tool Types
3. Blade Tool Types
4. Microlithic Tool Type
5. Neolithic Tool Type

Suggested Readings

1. Allchin and Allchin (1993). *The Rise of Civilization of India and Pakistan*. Cambridge University Press
2. Bhattacharya D.K. (1978). *Emergence of Culture in Europe*, Delhi, B.R. Publication.
3. Bhattacharya D.K. (1979). *Old Stone Age Tools and Techniques*. Calcutta, K.P. Bagchi Company
4. Bhattacharya D.K. (1996). *Palaeolithic Europe*. Netherlands, Humanities Press.
5. Champion et al. (1984). *Prehistoric Europe*. New York, Academic Press.
6. Fagan B.M. (1983). *People of Earth: An Introduction*. Boston, Little, Brown & Company.
7. Phillipson D. W. (2005). *African Archaeology*. Cambridge, Cambridge University Press.
8. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College

C4 (6C), ANTH-202 Fundamentals of Human Origin & Evolution

Theory Credit- 4

Unit-I:

Primate origins and radiation with special reference to Miocene hominoids: Ramapithecus, distribution, features and their phylogenetic relationships.

Unit-II:

1. Australopithecines: distribution, features and their phylogenetic relationships.
2. Appearance of genus Homo (*Homo habilis*) and related finds.

Unit-III:

Homo erectus from Asia, Europe and Africa: Distribution, features and their phylogenetic status.

Unit-IV:

The origin of *Homo sapiens*: Fossil evidences of Neanderthals and Archaic *Homo sapiens Sapiens*

Unit-V:

Origin of modern humans (*Homo sapiens sapiens*): Distribution and features

Unit-VI:

Hominisation process

Practical Credit- 2 (at least on 3 skull)

1. Craniometry: Maximum cranial length Maximum cranial breadth
Maximum bizygomatic breadth Maximum frontal breadth
Minimum frontal breadth Nasal height
Nasal breadth Bi-mastoid breadth
Greatest occipital breadth Upper facial height
Cranial index Nasal index
2. Osteometry: Measurements of long bones: lengths, minimum/least circumference and caliber index
3. Identification of casts of fossils of family hominidae: Drawing and comparison of characteristics.

Suggested Readings

1. Buettner-Janusch, J. (1966). *Origins of Man: Physical Anthropology*. John Wiley & Sons, Inc., New York, London, Sydney.
2. Conroy, G.C. (1997). *Reconstructing Human Origins: A Modern Synthesis*. W. W. Norton & Company, New York, London.
3. Howell F.C. (1977). *Horizons of Anthropology*. Eds. S. Tax and L.G. Freeman, Aldine Publishing House, Chicago.
4. Nystrom P. and Ashmore P. (2011). *The Life of Primates*. PHI Learning Private Limited, New Delhi.
5. Seth P. K. and Seth S. (1986). *The Primates*. Northern Book Centre, New Delhi, Allahabad.
6. Singh I. P. and Bhasin M.K. (1989). *Anthropometry: A Laboratory Manual on Biological Anthropology*. Kamla-Raj Enterprises, Chawri Bazar, Delhi.
7. Standford C.; Allen J.S. and Anton S.C. (2012). *Biological Anthropology: The Natural History of Mankind*. PHI Learning Private Limited, New Delhi.
8. Swindler D. R. (2009). *Introduction to the Primates*. Overseas Press India Pvt. Ltd., New Delhi.

(Ability Enhancement Compulsory Course) (AECC) (2)

AECC 3 Environmental Science (4C)

Elective: Generic (GE) (4)

GE-2(6C)*

*Select one from the Generic Elective / interdisciplinary list given in the last page.

Semester –III, (Core Course)

C5 (6C), ANTH-301 Tribes and Peasants in India

Theory Credit- 4

Unit I: Anthropological Concept of Tribe

1. Problems of nomenclature, definition and classification.
2. Features of tribes in India.

Unit II: Tribes and Wider world.

1. The history of tribal administration; Constitutional safeguards
2. Draft National Tribal Policy, Issues of acculturation assimilation and integration.
Impact of development schemes and programme on tribal life

Unit III: Anthropological Concept of Village

1. The concept of peasantry.
2. Approaches to the study of peasants – economic, political and cultural.
3. Characteristics of Indian village: social organization; economy and changes.
4. Caste system and changes.

Unit IV: Ethnicity Issues: Tribal and peasant, movements; Identity issues

Practical Credit- 2

Reading of Ethnography: Students are required to read and analyze any two of the ethnographies (as listed below) and prepare a report based upon it. The report should clearly link up the study with the concept of tribe and peasantry and delineate clearly the concept used in the text.

1. Research questions/objectives of the study and their relevance.
2. Theoretical schema.
3. Methods and techniques used in the study.
4. Key findings and their significance in the context of the objectives of the study.
5. Critical analysis of the finding on the basis of contemporary available resources.

List of Ethnographies:

- Das, T. C. (1945) *The Purums : An Old Kuki Tribe of Manipur*. Anthropological Papers, University of Calcutta
- Shyamchoudhuri, NK and M. M. Das (1973) *The Lalung Society : A Theme for Analytical Ethnography*. Anthropological Survey of India, Kolkata.
- Haimendarf, c von Furer (1980) *A Himalayan Tribe : From Cattle to Cash*. University of Califernea Press
- Walker A. (1986). *The Todas*. Delhi : Hindustan Publishing Corporation
- Verrier Elwin (1992). *The Muria and their Ghotul*. USA: Oxford University Press.
- Malinowski M. (1922). *Argonauts of the Western Pacific*. London: Routledge and Kegan Paul Ltd.
- Furer-Haimendorf C.V. (1939). *The Naked Nagas*. London: Methuen and Co.
- Evans-Pritchard E.E. (1940). *The Nuer: A Description of the Modes of Livelihood and Political Institutions of a Nilotic People*. Oxford : Clarendon Press.
- Majumdar D. N. (1950). *Affairs of tribes*. Lucknow: Universal Publishers Ltd.
- Dube S.C. (1955). *Indian Village*. London: Routledge and Kegan Paul Ltd.
- Berreman G.D. (1963). *Hindus of the Himalayas*. Berkeley: California University Press.

Suggested Readings

1. Gupta D. (1991). *Social Stratification*. Oxford University Press: Delhi.
2. Hazarika, L (2014) *Identity and Democracy*. EBH Publishers, Guwahati
3. Madan V. (2002). *The Village in India*. Oxford University Press: Delhi.
4. Nathan D. (1998). *Tribe-Caste Question*. Simla: IIAS.
5. National Tribal Policy (draft). (2006). Ministry of Tribal Affairs. Government of India.
6. Patnaik S.M. (1996). *Displacement, Rehabilitation and Social change*. Inter India Publication, Delhi.
7. Shah G. (2002). *Social Movement and the State*. Delhi: Sage.
8. Shanin T. (1987). *Peasants and Peasantry*. New York, Blackwell.
9. Vidyarthi L.P. and Rai B.K. (1985) *Tribal Culture in India*, New Delhi, Concept Publishing Company.
10. Wolf E. (1966). *Peasants*. NJ, Prentice Hall.

.....

C 6 (6C), ANTH-302 Human Ecology: Biological & Cultural dimensions

Theory Credit- 4

Biological Dimensions

Unit 1: Concepts in Ecology: Definition, ecosensitivity adaptation, acclimation, acclimatization, biotic and abiotic component.

Unit II: Methods of studying human ecology.

Unit III: Adaptation to various ecological stresses; Ecological rules and their applicability to human populations. Homeostasis and thermoregulation, ecological rules and their applicability among human beings

Unit IV: Impact of urbanization and industrialization on Man.

Cultural Dimensions

Unit V: Culture as a tool of adaptation; Various modes of human adaptation in pre-state societies.

- i. Hunting and food gathering
- ii. Pastoralism
- iii. Shifting cultivation

Unit VI: Ecological themes of state formation: i. Neolithic revolution, ii. Hydraulic civilization

Unit VII: Agriculture and peasantry; Industrial civilization and growth of urban societies

Practical Credit- 2

Biological Dimensions

Size and Shape Measurements(at least on 3 subjects)

1. Stature 5. Total Lower Extremity Length
2. Sitting Height 6. Nasal Breadth
3. Body Weight 7. Nasal Height
4. Total Upper Extremity Length

Size and Shape Indices

1. Body Mass Index 4. Relative Upper Extremity Length
2. Ponderal Index 5. Relative Total Lower Extremity Length
3. Relative Sitting Height 6. Nasal Index

(The students should maintain practical notebook for evaluation)

Cultural Dimensions

1. Make a research design pertaining to any environmental problem and do a project based on it.

Suggested Reading

1. Human ecology: biocultural adaptation in human communities. (2006) Schutkowski, H. Berlin. Springer Verlag.
2. Human ecology and cognitive style: comparative studies in cultural and physical adaptation. (1976).Berry, J.B. New York: John Wiley.
3. Human ecology. (1964) Stapledon. Faber & Faber.
4. Studies in Human Ecology. (1961) Theodorson, G.A. Row, Peterson & Company Elmsford, New York.
5. Human ecology: (1973) Problems and Solutions. Paul R. Ehrlich, Anne H. Ehrlich and John P. Holdress. W.H. Freeman & Company, San Francisco.
6. Cohen, Yehudi A. 1968. Man in adaptation; the cultural present. Chicago: Aldine Pub. Co.

7. Redfield, Robert. (1965). Peasant society and culture an anthropological approach to civilization. Chicago [u.a.]: Univ. of Chicago Press.

8. Symposium on Man the Hunter, Richard B. Lee, and Irven DeVore. 1969. Man the hunter. Chicago:Aldine Pub. Co.

C7 (6C) ANTH-303 Biological Diversity in Human Populations

Theory Credit- 4

Unit I: Concept of Biological Variability; Race; Hardy-Weinberg Law; Sources of Genetic Variation; Structuring Genetic Variation; Interpretation of Human Variation, Genetic Polymorphism (Serological, Biochemical and DNA Markers); Human Adaptability –Adaptive Mechanisms determining the types of adaptation.

Unit II: A critical appraisal of contribution of Risley, Guha, Rickstett and Sarkar towards understanding ethnic elements in the Indian populations.

Unit III: Pre and Proto historic racial elements in India. Linguistic classification of Indian population.

Unit IV: Role of Bio-cultural Factors, Cultural Biology; Bio-cultural factors influencing the diseases and nutritional status. Evolution of Human diet, biological perspectives of ageing process among different populations.

Unit V: Demographic Perspective

Demographic Anthropology; Sources of Demographic Data, Demographic Processes, Demographic profile of Indian populations and its growth structure; Inbreeding and Consanguinity – Biological consequences of inbreeding, frequency of inbreeding in world populations; Methods of counselling.

Unit VI: Genetic diversity among Indian Population

Practical Credit- 2

1. Craniometric Measurements (Skull & Mandible)
2. Determination of A1, A2, B, O; M N; and Rh (Test with five Anti Rh sera) blood groups of ten subjects.
3. Analysis and interpretation of finger ball pattern types, palmar main lines and pattern index; Finger print classification and development of chance prints and statistical treatment of the data collected (Ten Subjects)
4. Collection of demographic data from secondary sources.

(The students should maintain practical notebook for evaluation)

Suggested readings:

1. Baker P.T. and J.S. Weiner (ed.) (1996) *The Biology of Human Adaptability*. Oxford & New York, Oxford University Press.
2. Bhende A. and T. Kantikar (2006) *Principles of Population Studies*. Himalayan Publishing House, Mumbai

3. Bogin B. (1999). *Pattern of Human Growth*. 2nd edition CUP.
4. Cameron Noel and Barry Bogin (2012) *Human Growth and development*. Second edition, Academic Press Elsevier.
5. Eckhardt R.B.(1979) *The Study of Human Evolution*. McGrand Hill Book Company, USA.
6. Frisancho R. (1993) *Human Adaptation and Accommodation*. University of Michigan press
7. Harrison G.A., Tanner, J.M., Pilbeam, D.R., Baker, P.T. (1988) *Human Biology*. Oxford University Press.
8. Jurmain Robert Lynn kilgore Wenda Trevathan and Ciochon (2010). *Introduction to Physical Anthropology*. Wadsworth Publishing, USA.
9. Kapoor A.K. and Satwanti Kapoor (ed) (1995). *Biology of Highlanders*. Jammu, Vinod Publisher & Distributor.
10. Kapoor A.K. and Satwanti Kapoor (eds) (2004) *India's Elderly-A Multidisciplinary Dimension*. Mittal Publication, New Delhi.
11. Klepinger L.L. (2006). *Fundamentals of Forensic Anthropology*. John Willey & Sons.,New Jersey.
12. Malhotra K.C. and B. Balakrishnan(1996) *Human Population Genetics in India*
13. Malina Robert M., Claude. Bouchard, Oded. Bar-Or. (2004) Growth, and Physical Activity. *Human Kinetics*.
14. Stanford C., Allen, S.J. and Anton, C.S. (2013): *Biological Anthropology*. 3rd edition, Pearson, USA.

Skill Enhancement Course (SEC) (2)

SEC-1.1 (2C)

AEEC-2: Business and Corporate Anthropology

Business and Corporate Anthropology

1. Business and corporate Anthropology: History and subject matter
2. Applied anthropology in industry, application of the ethnography in business management.
3. Anthropology and consumer behaviour,
4. Globalization, international trade and anthropology

Practical Credit-

1. Techniques for Conducting Fieldwork for Business Organizations

Suggested Readings:

1. Jordan, Ann T. Business Anthropology. Waveland Press, Long Grove, Illinois.
2. Whyte, W.F. 1948 Incentives for Productivity: The Case of the Bundy Tubing Company Applied Anthropology 7(2):1-16

3. Gardner, Burleigh B. 1978 Doing Business with Management. In Applied Anthropology in America, Elizabeth M. Eddy and William Partridge (Eds.).New York: Columbia University Press. Pp.245- 260.
4. Handbook of Anthropology in Business by Rita M Denny.
5. Advanced reading in Business Anthropology edited by Robert Guang Tian, Daming Zhu, Alfons van Marrewijk.

Elective: Generic (GE) (4)

GE-3(6C) *

*Select one from the Generic Elective / interdisciplinary list given in the last page.

Semester – IV, (Core Course)

C8 (6C), ANTH-401 Theories of Culture and Society

Theory Credit- 4

Unit I: Emergence of Anthropology: Interface with evolutionary theory and colonialism, changing perspectives on Evolutionism, Diffusionism and Culture area theories

Unit II: Emergence of fieldwork tradition, Historical Particularism, American Cultural Tradition

Unit III: Durkheim and social integration, Functionalism and Structural-functionalism and British Social Anthropology

Unit IV: Structuralism: Claude Levi-Strauss and Edmund Leach

Unit V: Symbolic and Interpretative approach

Practical Credit- 2

As a part of the practical following exercises will be undertaken by the students so as to enable them to connect the theories they learn with things of everyday living.

1. To identify a topic relating to contemporary issue and formulate research questions and clearly identify the theoretical perspectives from which they are derived.
2. Identification of variables of a study.
3. Various types of hypotheses.
4. Formulation of hypothesis.
5. Distinction between hypothesis testing and exploratory research.
6. Identification of universe and unit of study with justifications.
7. Choice of appropriate research technique and method in the context of theoretical

framework.

8. Data collection and analysis

Suggested Readings

1. Applebaum H.A. (1987) *Perspectives in Cultural Anthropology*. Albany: State University of New York.
2. Barnard A. (2000). *History and Theory in Anthropology*. Cambridge: Cambridge University.
3. McGee R.J. and Warms R.L. (1996) *Anthropological Theories: An Introductory History*.
4. Moore M. and Sanders T. (2006). *Anthropology in Theory: Issues in Epistemology*, Malden, MA: Blackwell Publishing.

C9 (6C), ANTH-402 Human Growth and Development

Theory Credit- 4

Unit I: Concept of human growth, development, differentiation and maturation. Evolutionary perspective on human growth (including living primates and fossil human ancestors)

Unit II: Prenatal (conception till birth) and postnatal (birth till senescence) period of growth, pattern of normal growth curves, variation from normal growth (canalization, catch-up growth and catch-down growth), ethnic and gender differences in growth curves, secular trend

Unit III: Bio-cultural factors (genetic, social, and ecological factors) influencing patterns of growth and variation, methods and techniques to study growth, significance/ applicability of growth studies

Unit IV: Nutritional epidemiology-concept of balanced diet, impact of malnutrition (over and under) with special reference to obesity, Kwashiorkor and Marasmus. Assessment of nutritional status.

Unit V: Human physique and body composition – models and techniques; gender and ethnic differences

Unit VI: Somatotyping and human physique with reference to Sheldon, Parnell, Heath and Carter methods

Unit VII: Bio-cultural adaptation to environmental stresses- heat, cold and altitude.

Practical Credit- 2 (at least on 5 Subjects)

1. Growth status: Somatometry (stature, body weight, mid upper arm circumference etc), assessment of chronological age, percentile, z-score, height for age, weight for age, BMI for age
2. Obesity assessment: General (BMI, body fat %, Conicity index, body adiposity indices) and regional adiposity indices (WC, WHR, WHtR)

3. Estimation of body composition (fat percentage and muscle mass) with skinfold thickness and bioelectric impedance
4. Nutritional assessment through dietary pattern and anthropometric indices

(The students should maintain practical notebook for evaluation)

Suggested Readings

1. Bogin B. (1999) Patterns of human growth. Cambridge University Press.
2. Frisancho R. (1993) Human Adaptation and Accommodation. University of Michigan Press.
3. Cameron N and Bogin B. (2012) Human Growth and Development. Second edition, Academic press Elsevier.
4. Harrison GA and Howard M. (1998). Human Adaptation. Oxford University Press.
5. Harrison GA, Tanner JM, Pibeam DR, Baker PT. (1988). Human Biology. Oxford University Press.
6. Jurmain R, Kilgore L, Trevathan W. Essentials of physical anthropology. Wadsworth publishing.
7. Kapoor AK and Kapoor S. (1995) Biology of Highlanders. Vinod Publisher and Distributor.
8. Kathleen K. (2008). Encyclopedia of Obesity. Sage.
9. Malina RM, Bouchard C, Oded B. (2004) Growth, Maturation, and Physical Activity. Human Kinetics.
10. McArdle WD, Katch FI, Katch VL. (2001) Exercise Physiology: Energy, Nutrition, and Human Performance.
11. Singh I, Kapoor AK, Kapoor S. (1989). Morpho-Physiological and demographic status of the Western Himalyan population. In Basu and Gupta (eds.). Human Biology of Asian Highland Populations in the global context.
12. Sinha R and Kapoor S. (2009). Obesity: A multidimensional approach to contemporary global issue. Dhanraj Publishers. Delhi.

C 10 (6C), ANTH-403 Research Methods

Theory Credit- 4

Unit I: Research Design

Review of literature, conceptual framework, formulation of research problem, formulation of hypothesis, sampling, tools and techniques of data collection, data analysis and reporting, guiding ideals and critical evaluation of major approaches in research methods, basic tenets of qualitative research and its relationship with quantitative research.

Unit II: Fieldwork tradition in Anthropology

Ethnographic approach, contribution of Malinowski, Boas and other pioneers; cultural relativism, ethnocentrism, etic and emic perspectives, comparative and historical methods, techniques of rapport establishment identification of representative categories of informants, maintenance of field diary and logbook.

Unit III: Tools and techniques of data collection

Concept of survey, relationship of survey method with ethnographic method, construction of questionnaire and interview schedule, validation and internal consistency of questionnaire Observation - Direct, Indirect, Participant, Non-participant, Controlled Interview - Structured and unstructured, Focussed Group Discussion, key informant Interview Case Study and life history. Genealogy - Technique and application

Unit IV: Ethics and Politics of Research

1. Identify, define, and analyze ethical issues in the context of human subject research.
2. Reasons for conducting ethical review of research, theories and concepts related to ethical decision-making including consequentialism, deontology, respect, dignity, discourse ethics, communitarianism, liberalism and the four principles approach.
3. Ethical importance of consent, privacy and confidentiality in research
4. Issues of academic fraud and plagiarism, conflicts of interest, authorship and publication

Unit V: Analysis and Writing Up

1. Chapterization, preparing a text for submission and publication, concepts of preface, notes (end and footnotes), glossary, prologue and epilogue, appendix, bibliography (annotated) and references cited, review and index.
2. Similarities and differences between qualitative and quantitative data analysis; introduction of software for data analysis.

Unit VI: Bio-Statistics

1. Types of variables, presentation and summarization of data (tabulation and illustration).
2. Descriptive statistics- Measurers of Central Tendency, Measure of Variation, Skewness and Kurtosis, Variance and standard deviation, Normal and binomial distribution.
3. Tests of Inference- Variance ratio test, Student's 't' tests, Chi-square test and measures of association, Analysis of variance, Estimation of confidence interval, Correlation, Regression Analysis, Study design issues: Sample size and Power,
4. Pedigree Analysis- Importance and implication.

Practical Credit- 2

1. Construction of Genealogy.
2. Observation: Direct, Indirect, Participant, Non-participant, Controlled
3. Questionnaire and Schedule, Interview- Unstructured, Structured, Key informant interview, Focussed Group Discussion, and Free listing, pile sorting
4. Case study and life history
5. Project report writing- preparation of research problem, study design, data collection techniques, analysis and report writing based on somatometric, dermatoglyphic and serological data or social problem.

Suggested Readings

- Garrard E and Dawson A. What is the role of the research ethics committee? Paternalism, inducements, and harm in research ethics. *Journal of Medical Ethics* 2005; 31: 419-23.
- Bernard H.R. *Research Methods in Anthropology, Qualitative and Quantitative Approaches*. Jaipur: Rawat Publications. 2006.
- Madrigal L. *Statistics for Anthropology*. Cambridge: Cambridge University Press. 2012.
- Zar JH. *Biostatistical Analysis*. Prentice Hall. 2010.
- Michael A. *The Professional Stranger*. Emerald Publishing. 1996.
- Bernard R. *Research Methods in Anthropology: Qualitative and Quantitative Approaches*. AltaMira Press. 2011.
- Emerson RM, Fretz RI and Shaw L. *Writing Ethnographic Fieldnotes*. Chicago, University of Chicago Press. 1995.
- Lawrence NW. *Social Research Methods, Qualitative and Quantitative Approaches*. Boston: Allyn and Bacon. 2000.
- O'reilly K. *Ethnographic Methods*. London and New York: Routledge. 2005.
- Patnaik S.M. *Culture, Identity and Development: An Account of Team Ethnography among the Bhil of Jhabua*. Jaipur: Rawat Publications. 2011.
- Pelto PJ and Pelto GH. *Anthropological Research, The Structure of Inquiry*. Cambridge: Cambridge University Press. 1978.
- Sarantakos S. *Social Research*. London: Macmillan Press. 1998.

Skill Enhancement Course (SEC) (2)

SEC-1.2 (2C)

AEEC-4: Tourism Anthropology

Tourism Anthropology

Unit I: Tourism- aspects and prospects, anthropological issues and theoretical concerns, tourist as ethnographer; pilgrimage and Authenticity Issues

Unit II: Interconnections between tourism history and the rise of the socio-cultural study of tourism including temporary migration, colonial exploration, pilgrimage, visiting relatives, imagined and remembered journeys, and tourism.

Unit III: understand the implications of tourism as a major mechanism of cross-cultural interaction; role of symbolism, semiotics, and the imagination in tourism; tourism and the commodification of culture or cultural degradation

Unit IV: understand the global and local political economy of contemporary tourism, particularly in relation to international development; explore dynamic relationships between heritage-making enterprises, revival and preservation projects, the international flow of capital; role of museums and other branches of the cultural industries" (including music, art, and food) in tourism economies; tourism and global mobility; Ecotourism and sustainable development.

Unit V: New Directions in the Anthropology of Tourism: Globalization, Tourism and Terrorism; applied aspects of anthropology in tourism development and planning.

Suggested Readings

1. Chambers E. (2000). *Native Tours: The Anthropology of Travel and Tourism*. Prospect Heights: Waveland.
2. Crick M. (1995). *The Anthropologist as Tourist: An Identity in Question*. In Lanfant MF, Allcock JB, Bruner EM (eds.) *International Tourism: Identity and Change*. London: Sage. pp. 205-223.
3. Dann GMS, Nash D and Pearce PL. (1988). *Methodology in Tourism Research*. *Annals of Tourism Research*. 15:1-28.
4. Gmelch SB. (2004). *Tourists and Tourism: A Reader*. Long Grove: Waveland.
5. Graburn NHH. (1977). *Tourism: The Sacred Journey. Hosts and Guests: The Anthropology of Tourism*. Valene L. Smith, ed. Philadelphia: University of Pennsylvania Press. Pp. 33-47.
6. Dann G. (2002). *The Tourist as a Metaphor of the Social World*. Wallingford: CAB International.
7. Nash D. (1996). *Anthropology of Tourism*. New York: Pergamon.
8. Kirshenblatt-Gimblett B.(1998). *Destination Culture: Tourism, Museums, and Heritage*.University of California Press.
9. Lippard LR. (1999). *On the Beaten Track: Tourism, Art and Place*. New Press.
10. Picard M and Wood R. (1997). *Tourism, Ethnicity, and the State in Asian and Pacific Societies*.University of Hawai Press.
11. Crick M. (1994). *Anthropology and the Study of Tourism: Theoretical and Personal Reflections*. In Crick M (eds.). *Resplendent Sites, Discordant Voices: Sri Lankans and International Tourism*. Chur, Switzerland: Harwood Publishers.
12. Wood R. (1997). *Tourism and the State: Ethnic Options and the Construction of Otherness*. In Picard and Wood *Tourism, Ethnicity and the State in Asian and Pacific Societies*. University of Hawai Press.
13. Richard B. (1992). *Alternative Tourism: The Thin Edge of the Wedge*. In Valene Smith and Eadington *Tourism* (eds.). *Alternatives: Potentials and Problems in the Development of Tourism*. University of Pennsylvania Press.
14. Hitchcock. (1997). *Cultural, Economic and Environmental Impacts of Tourism among the Kalahari*. In Chambers E (eds.) *Tourism and Culture: An Applied Perspective*. SUNY Press.

Elective: Generic (GE) (4)

GE-4(6C)*

*Select one from the Generic Elective / interdisciplinary list given in the last page.

Semester – V, (Core Course)

C 11, (6C), ANTH-501 Human Population Genetics

Theory Credit- 4

Unit I. Essentials of Genetics

Landmarks in the history of genetics, principles in human genetics, single locus (Mendelian) versus multilocus (quantitative/complex) inheritance, chromosome theory of inheritance (segregation and independent assortment) Mendelian inheritance (single factor and multifactorial inheritance, polygenic inheritance), Non- Mendelian inheritance (multiple allelism, Co-dominance; sex linked, epistasis; penetrance and expressivity; Cytoplasmic inheritance).

Unit II. Ecological Genetics and Polymorphism

phenotypic & genotypic polymorphisms, transient polymorphism, balanced polymorphisms, models explaining the maintenance of genetic polymorphism (Relationship between sickle cell and malaria, X-linked polymorphism, selection due to infectious diseases and its association with blood groups and other)

Unit III: Hardy-Weinberg principle

Genotypic and allelic frequencies, assumptions of Hardy-Weinberg equilibrium, its applications and exceptions

Unit IV: Mechanism for dynamics in Gene Frequency mutation, selection (pattern and mechanism), Genetic drift (bottle neck and founder effect), Gene flow/migration, inbreeding (inbreeding co-efficient and its genetic consequences)

Unit V: Population structure and admixture in human populations random & non-random mating (positive and negative assortative mating), heritability, linkage disequilibrium, genetic markers utility of genetic markers in forensic, population and disease association studies.

Unit VI: Human evolutionary genetics From Mendel to molecules: A brief history of evolutionary genetics, Epistasis and the conversion of genetic variances, Human-Ape comparisons.

Practical Credit- 2

1. Color Blindness
2. Glucose-6-phosphate dehydrogenase deficiency(G6PD)
3. PTC tasting ability
4. Biochemical markers-DNA isolation and polymerase chain reaction (PCR)

(The students should maintain practical notebook for evaluation)

Suggested Readings

1. Brooker R.J. (2012). *Genetics: analysis & principles*. The McGraw-Hill Companies, Inc 4th ed.
2. Cavalli-Sforza, L.L. and Bodmer, W.F (1971). *The Genetics of Human Population*. San Francisco: Freeman
3. Cooper DN and Kehrer-Sawatzki H. (2008). *Handbook of Human Molecular Evolution*. John Wiley & Sons, volume-2.
4. Crawford MH (2007). *Anthropological Genetics Theory, Methods and Applications*. Cambridge University Press
5. Cummings M.R. (2011). *Human Heredity: Principles and Issues*. Ninth Edition. Brooks/Cole, Cengage Learning
6. Jobling, M.A. Hurlst M. and Tyler-Smith C. (2004). *Human Evolutionary Genetics: Origins, Peoples & Disease*. GS. NY
7. Lewis R. (2009). *Human Genetics: Concepts and Applications* 9th Edition. The McGraw–Hill Companies, Inc.
8. Patch C. (2005). *Applied Genetics in Healthcare*. Taylor & Francis Group
9. Relethford J.H. (2012). *Human Population Genetics*. Wiley-Blackwell, USA
10. Snustad .D.P. and Simmons M.J. (2006). *Principles of Genetics*, Fourth Edition, John Wiley & Sons USA, Hoboken NJ
11. Strachan T, Read A.P. (2004). *Human Molecular Genetics*. Garland Science/Taylor & Francis Group.
12. Vogel F. and Motulsky A.G. (1996). *Human Genetics*. Springer, 3rd revised edition.

C 12 (6), ANTH-502 Anthropology in Practice

Theory Credit- 4

Unit I: Academic Anthropology

Academics and Practitioners: Differences, Structure, Activities, Controversies and Issues: Applied Anthropology, Action Anthropology and Development Anthropology.

Unit II: Role of Anthropology in Development

Anthropology and Public Policy, Need Assessment and Community Development, Anthropology of NGO's, Management Anthropology, Environment and Community Health, Social and economic sustainability, Cultural resource management

Unit III: Future Dynamics in Anthropology

Trends in Anthropology: Anthropology of Tourism, Anthropology In Census; Designing And Fashion, Visual Anthropology

Unit IV: Constitutional Perspective and Human Rights

Constitutional Provisions, Evaluation, Planning and Development of Indian Populations; Human Rights, Interrelationships of rights and duties: Harmony and Conflict, Protection and enforcement of human rights and duties, National and State Human Rights Commission and other grievance redressal mechanism, Human rights of

special category and marginal groups, Emerging trends of human rights respective to terrorism, environment and globalization

Unit V: Biosocial anthropology in practice

Bio-social elements of human development at national and international level, application of conceptual framework of Forensic Anthropology in judicial settings both criminal and civil, Population Dynamics and relationship between population growth and various aspects of culture such as means of subsistence, kinship, social complexity, social stratification and political organization, Bio-social counselling of an individual or population

Practical Credit- 2

1. The students will visit a NGO or corporate office or census office in neighbouring area and write principal observations on the same.
2. Write a project on constitutional provisions or evaluation of any development project/report.
3. Draw a scene of crime and identify the various evidences in a portrayed crime scene.
4. Write a project on Religious Tourism / Tribal Tourism / Health Tourism / Fashion / Human Rights / Ecotourism.
5. Write a project on the demographic profile from secondary data.
6. Collect data on bio-social problem and design counselling and give the analysis and interpretation.

Suggested Readings

1. Arya A and Kapoor AK. (2012). Gender and Health Management in Afro-Indians. Global Vision Publishing House, New Delhi.
2. Kertzner DI and Fricke T. (1997). Anthropological Demography. University of Chicago Press.
3. Basu, A. and P. Aaby (1998). The Methods and the Uses of Anthropological Demography. 329 pp. Oxford, Clarendon Press
4. Carter A. (1998). Cultural Models and Demographic Behavior. In The Methods and the Uses of Anthropological Demography edited by Basu A and Aaby P. Oxford: Clarendon Press. pp 246-268.
5. Census of India (2001, 2011) and National Family Health Survey (2006,2010).
6. Ervic, Alexander M., (2000). Applied Anthropology: Tools and Perspectives for Contemporary Practise, Boston, MA: Allyn and Bacon.
7. Erwin A. (2004). Applied Anthropology Tools and Practice, Allyn and Bacon.
8. Gupta S and Kapoor AK. (2009). Human Rights among Indian Populations: Knowledge, Awareness and Practice. Gyan Publishing House, New Delhi.
9. Willen SS. (2012). Anthropology and Human Rights: Theoretical Reconsiderations and Phenomenological Explorations. Journal of Human Rights. 11:150–159.
10. Goodale M. (2009). Human Rights: An Anthropological Reader. Wiley Blackwell.
11. Gupta S and Kapoor AK. (2007). Human Rights, Development and Tribe. In : Genes, Environment and Health – Anthropological Perspectives. K. Sharma, R.K. Pathak, S. Mehra and Talwar I (eds.). Serials Publications, New Delhi.
12. Margaret AG. (2003). Applied Anthropology: A Career-Oriented Approach, Boston, MA: Allyn and Bacon.
13. Halbar BG and Khan CGH. (1991). Relevance of Anthropology – The Indian Scenario. Rawat Publications, Jaipur.

14. Kapoor AK (1998). Role of NGO's in Human Development : A Domain of Anthropology. J Ind Anthropol Soc; 33:283-300.
15. Kapoor AK and Singh D. (1997). Rural Development through NGO's. Rawat Publications, Jaipur.
16. Klepinger LL (2006). Fundamentals of Forensic Anthropology. Wiley-Liss Publications
17. Kumar RK and Kapoor AK. (2009). Management of a Primitive Tribe: Role of Development Dynamics. Academic Excellence, Delhi.
18. Mehrotra N and Patnaik SM. (2008). Culture versus Coercion: The Other Side of Nirmal Gram Yojna, Economic and Political weekly. pp 25-27.
19. Mishra RC (2005). Human Rights in a Developing Society, Mittal Publications, Delhi.
20. Noaln RW. (2002). Anthropology in Practice: Building a Career outside the Academy. Publishing Lynne Reinner.
21. Patnaik SM (1996). Displacement, Rehabilitation & Social Change. Inter India Publications, New Delhi.
22. Patnaik SM (2007). Anthropology of Tourism: Insights from Nagaland. The Eastern Anthropologist. 60(3&4):455-470
23. Srivastav OS (1996). Demographic and Population Studies. Vikas Publishing House, India
24. Vidyarthi LP and BN Sahay (2001). Applied Anthropology and Development in India, National Publishing House, New Delhi.
25. Vidyarthi LP. (1990). Applied Anthropology in India – Principles, Problems and Case Studies. Kitab Mahal, U.P.
26. Vidyarthi V (1981). Tribal Development and its Administration. Concept Publishing Company, New Delhi.

Elective: Discipline Specific DSE (4)

DSE-1.A: Indian Archaeology
DSE-1.B: Anthropology of Health
DSE-1.C: Tribal Cultures in India

(Students may opt for any two of the following DSE papers)

DSE-1.A Indian Archaeology (6C)

Theory Credit: 4

Unit I: Understanding culture

- a. Technique of tool manufacture and estimation of their relative efficiency;
- b. Classification of tools: primary and combination fabrication techniques;
- c. Typology and cultural nomenclature.

Unit II: Methods of climatic reconstruction: palynology, paleontology, soil pH estimation.

Unit III: Prehistoric India

Pleistocene chronology of India: A critical assessment

Unit IV: Character, distribution and interpretation of habitat and economy of :

- i Lower palaeolithic
- ii Middle palaeolithic
- iii Upper palaeolithic
- iv Mesolithic culture
- v Neolithic, Chalcolithic, Megalithic
- vi Art, ritual and belief

Practical Credit 2

1. Identification of tools: (at least on 3 tools)

- (a) Handaxe varieties, chopper/chopping tools (f) End scrapers
- (b) Cleaver varieties (g) Borers
- (c) Side scraper varieties (h) Microlithic tools
- (d) Knives (i) Bone tools
- (e) Burins

2. Identification of lithic technology.

(The students should maintain practical notebook for evaluation)

Suggested reading:

1. D. K. Bhattacharya (1996) An Outline of Indian Prehistory. Delhi, Palika Prakashan.
2. H. D. Sankalia (1974) Prehistory and Protohistory of India and Pakistan. Poona, Deccan College.
3. H. D. Sankalia (1982) Stone Tool Type and Technology. Delhi, B.R.Publication.

DSE-1.B **Anthropology of Health (6C)**

Theory Credit: 4

Unit-1: Introduction and Overview of the Field of Anthropology & Health.

A. Health Anthropology within the Context of Anthropology.

- Anthropology and its subfields
- The unique place of Health anthropology in anthropology
- Competing perspectives on the study of anthropology of health.

B. Defining Health and Illness in Cross-Cultural Perspective.

Looking at “health,” “illness,” and related concepts in Western culture, including sociological “sick role” models, Some important variations in the process of seeking health care.

Unit – 2: Measuring Health: Morbidity, Mortality, and Epidemiology

Morbidity, Mortality, Epidemiology: Meaning, scope and methods. Epidemiology of common communicable diseases: Malaria, Tuberculosis, Leprosy, Diabetes, Cardiovascular disease and Sexually Transmitted Diseases (STDs), HIV/AIDS,

Unit – 3: Women’s Health, Sex, Family Planning, and Maternal-Infant Health.

Reproductive life, child Birth, Family planning adoption, male dominance, Nursing and early nurture, hyper-menstruation and its corollaries. Population variation and its relation to health and disease.

Unit – 4: Chronic Disease, Injury, Stress, and Mental Health

Effect of Chronic Disease in Health, Relationship between mental health, chronic disease, and injury, Understanding Stress and Its Effects Cross-Culturally, Mental Disorders and Related Phenomena, diseases associated with specific sociocultural and environmental contexts: Kuru, osteomalacia, sickle cell anaemia. Adaptations to Health Threats: Genetic Vulnerability and Resistance & Environment, Developmental and Cultural Adaptations to adverse Conditions.

Unit – 5: Variations in Health Care Systems: A Comparative Perspective.

Health promotion and health care delivery programmes. Family welfare programmes. Child health and nutrition programmes. Reproductive health awareness.

Unit – 6: Healing and Healers in Cross-Cultural Perspectives.

A. Shamanism, Magic, and Healing.

Shaman, Magic, Witchcraft and Sorcery,

B. Folk Healers and “Alternative Medicine.”

Types of healers and healing, Problems in evaluating efficacy, Sources of dissatisfaction with mainstream medicine.

Unit – 7: Health and Human Rights

Introduction to Human rights, Development of a Human Rights Impact Assessment for the Formulation and Evaluation of Public Health Policies.

Unit – 8: Legal Aspects & Future Prospects for Health

Rules and regulations of international health policy, Medico- Legal Problems in relation to health administration, International health organization / NGOs, Medical Ethics, Critical issues in global health.

Practical Credit 2

1. Make a Schedule on Health and Demography.

2. Calculation of Infant Sex ratio, Fertility rate, Total fertility rate, Mortality rate, Birth rate, crude birth rate, crude death rate, Mortality rate, life expectancy, immigration rate, population growth rate.
3. Identification and Characteristics of Various diseases.
4. Case Studies of Traditional and Modern healers.

Suggested Readings

- Rajesh Khanna and A.K. Kapoor. 2007. *Ethnic Groups and Health Dimensions*. Discovery Publishing House, New Delhi.
- Chin, James, M.D., M.P.H. (ed.) 2000. *Control of Communicable Diseases Manual*. 17th Edition. American Public Health Association. *Anyone interested in field work in less developed areas should own this book for reference.*
- Helman, Cecil G. 2001. *Culture, Health, and Illness*. 4th ed. London: Arnold. *This book is written for health care practitioners and clearly explains the relevance of culture to health.*
- Mann, Jonathon M., et al. (eds.) 1999. *Health and Human Rights*. New York: Routledge.
- Albrecht, Gary L., Ray Fitzparick, and Susan C. Scrimshaw (eds.) 2000. *The Handbook of Social Studies in Health and Medicine*, SAGE Publications.
- Bannerman, Robert, J. Burton, and Ch'en Wen-Chieh (eds.) 1983. *Traditional Medicine and Health Care Coverage*. Geneva: World Health Organization.
- Chen, Lincoln C. Arthur Kleinman, and Norma C. Ware 1994. *Health and Social Change in International Perspective*. Harvard University Press.
- Coreil, Jeannine and J. Dennis Mull (eds.) 1990. *Anthropology and Primary Health Care*, Boulder: Westview Press.
- Hahn, Robert A. 1999. *Anthropology in Public Health. Bridging Differences in Culture and Society*. New York: Oxford University Press.
- Helman, Cecil G. 1994. *Culture, Health, and Illness*. 3rd ed. Oxford: Butterworth-Heinemann.
- Inhorn, Marcia C. and Peter J. Brown 1997. *The Anthropology of Infectious Disease. International health Perspectives*. Gordon and Breach Publishers.
- Koop, C. Everett, Clarence E. Pearson, and M. Roy Schwartz (eds.) 2001. *Critical Issues in Global Health*. San Francisco: Jossey-Bass. A Wiley Company.
- Mayer, Kenneth H. and H.F. Pizer (eds.) 2000. *The Emergence of AIDS. The Impact on Immunology, Microbiology, and Public Health*. Washington, D.C.: American Public Health Association.
- Nichter, Mark and Mimi Nichter 1996. *Anthropology and International Health. Asian Case Studies*. Gordon and Breach Publishers.
- Paul, Benjamin D. (ed.) 1955. *Health, Culture, and Community. Case Studies of Public Reactions to Health Programs*.

- Williams, Cicely D., Naomi Baumslag, and Derrick B. Jelliffe 1994. Mother and Child Health. Delivering the Services. 3rd Edition. New York: Oxford University Press
- Basch, Paul F. Textbook of International Health 1999. New York: Oxford University Press.
- Tsui, Amy O., Judith N. Wasserheit, and John G. Haaga (eds.) 1997. Reproductive Health in Developing Countries. Washington, D.C.: National Academy Press.

.....

DSE-1.C: Tribal Cultures of India (6C)

Theory Credit- 4

Unit I:

Concept of tribes and its problematic nature, General and specific characteristics of tribes, Tribes in India: Antiquity, historical, academic, administrative and anthropological importance, Denotified tribes.

Unit II:

Tribe- caste continuum, Constitutional safeguard/provisions, Gender and Tribe, Distribution of tribes in India

Unit III:

Tribes: Nomenclature- emic and etic differences, Classification of tribes based on their economy, occupation and religion, Racial elements among the tribes, Scheduled and non-scheduled categories of tribes

Unit IV:

Tribal movements, Tribal monographs, Problems of tribal development

Unit V:

Forest policies and tribes, Migration and occupational shift, Tribal arts and aesthetics
Displacement, rehabilitation and social change Globalization among Indian tribes.

Practical Credit- 2

Distribution of Indian Tribes: PTG, ST
Location of different tribes on the map of India
Write an annotated bibliography on any one tribe
Write the social structure of any one tribe of India

Suggested Readings:

1. Behera, D.K and Georg pfeffer. Contemporary Society Tribal Studies, Volume I to VII. New Delhi: Concept Publishing Company
2. Georg Pfeffer. Hunters, Tribes and Peasant: Cultural Crisis and Comparison. Bhubaneswar: Niswas.
3. Vidarthi, L.P. and Rai. Applied Anthropology in India.
4. Vidarrthy.L.P. and B.N. Sahay . Applied Anthropology and Development in India. New Delhi: National Publishing House

.....

Semester – VI, (Core Course)

C 13, (6C), ANTH-601

Dissertation

Student will prepare a dissertation based on fifteen days (15 days) ethnographic fieldwork and submit the same for evaluation. He/she will be attached with one supervisor or guide.

C 14 (6C), ANTH-602 Anthropology of India

Theory Credit- 4

Unit I:

1. Origin, history and development of Anthropology in India, approaches to study Indian society and culture- traditional and contemporary
2. Racial and linguistic elements in Indian population
3. Understanding the diversity of Indian social structure - concept of Varna, Jati, Caste, Ashram or purusharatha, gender hierarchies - their economic and cultural impact, origin and evolution of social structures and their underlying philosophies.

Unit II:

1. Critical appraisal of contribution of Risley, Guha, Rickstett and Sarkar towards understanding ethnic distinctness in the Indian populations
2. Contribution of conetemporary biological, social and archaeological anthropologists in India.

Unit III:

1. Aspects of Indian Village –social organisation, agriculture and impact of market economy on villages
2. Tribal situation in India- biogenetic variability, linguistic and socio-economic characteristics; Problems of tribal peoples, land-alienation, indebtedness, lack of educational facilities, shifting-cultivation, migration, forests and tribal unemployment, health and nutrition, tribal movement and quest for identity
3. Developmental projects- tribal displacements and rehabilitation problem
4. Impact of culture-contact, urbanization and industrialization on tribal and rural population
5. Basic concepts -Great tradition and little tradition, sacred complex, Universalization and parochialization, Sanskritization and Westernization, Dominant caste, Tribe-caste continuum, Nature-Man-Spirit complex, pseudotribalism,

Unit IV:

1. Problems of exploitation and deprivation of scheduled caste/ tribe and Other Backward Classes.
2. Constitutional safeguards for the Scheduled caste and scheduled tribes.

Practical ` Credit- 2

1. Identify various traits/variables which can be used in racial classification and comment on its relevance.
2. Review a book/edited volume on Indian social structure such as caste, religion, tribe or rural population and give its salient features.
3. Explore the biological diversity of any population group considering a minimum of five genetic traits.
4. Highlight the contributions of any two contemporary Indian anthropologists.

Suggested Reading

1. Nicholas D. (2001). *Castes of Mind: Colonialism and the Making of Modern India*. Princeton University Press.
2. Bernard CS. (2000). *India: The Social Anthropology of Civilization*. Delhi: Oxford University Press.
3. Bhasin MK, Watter H and Danker-Hopfe H. (1994). *People of India – An Investigation of Biological variability in Ecological, Ethno-economic and Linguistic Groups*. Kamla Raj Enterprises, Delhi
4. Lopez DS. (1995). *Religions of India in Practice*. Princeton University Press
5. Gupta D. *Social Stratification*. Delhi: Oxford University Press.
6. Karve I. (1961). *Hindu Society: An Interpretation*. Poona : Deccan College
7. Guha BS. (1931). The racial attributes of people of India. In: *Census of India, 1931, vol I, Part III (BPO, Simla)*
8. Trautmann TR (2011). *India: Brief history of Civilization*. Oxford University Press : Delhi
9. Vidyarthi LP and Rai BK. (1976). *The tribal culture of India*. Concept Publishing Co, Delhi.
10. Haddon AC. (1929). *Races of man*. Cambridge University, London.
11. Kapoor A.K. (1992). *Genetic Diversity among Himalayan Human Populations*. M/S Vinod Publishers, Jammu
12. Majumdar DN. (1901). *Races and Culture of India*. Asia Publishing House, Bombay
13. Dube SC. (1992). *Indian Society*. National Book Trust, India : New Delhi.
14. Dumont L. (1980). *Homo Hierachicus*. University of Chicagon Press.
15. Malhotra K.C. (1978). *Morphological Composition of people of India*. J. Human Evolution.

DSE – 3(6C)

Elective: Discipline Specific DSE (4)

DSE-1.A: Forensic Anthropology
DSE-1.B: Urban Anthropology
DSE-1.C: Human Genetics

(Students may opt for any two of the following DSE papers)

DSE – 1.A Forensic Anthropology

Theory Credit- 4

Unit-I

Introduction to Forensic Anthropology: Definition, Brief History, Scope, Applications and Integration of Forensic Anthropology.

Unit-II

Basic Human Skeletal Biology, Identification of Human and Non-Human Skeletal Remains, Ancestry, age, sex and stature estimation from bones, Discovery and Techniques for recovering skeletonized Human Remains.

Unit-III

Personal Identification, Complete and Partial Identification, Methods of Identification in Living Persons: Somatometry, Somatoscopy, Occupational Marks, Scars, Bite Marks, Tattoo Marks, Fingerprints, Footprints, Lip Prints, Nails, Handwriting, Deformities and Others.

Unit-IV

Serology: Identification and Individualization of bloodstain, urine, semen and saliva. Patterns of Bloodstains.

Unit-V

Individualization: Forensic Odontology-Tooth Structure and Growth, Bite Marks, Facial Reconstruction, DNA Profiling.

Practical Credit- 2 (at least on 3 subjects / specimen)

1. Study of Human Long Bones. Estimation of age, sex and stature from bones.
 2. Somatometric and Somatoscopic Observation on living persons.
 3. Identification of bloodstain, urine, semen and saliva.
 4. Examination of Fingerprints and Handwriting.
- (The students should maintain practical notebook for evaluation)

Suggested Readings:

1. Bass W.M. (1971). *Human Osteology: A Laboratory and Field manual of the Human Skeleton*. Columbia: Special Publications Missouri Archaeological Society.
2. Black S. and Ferguson E. (2011). *Forensic Anthropology 2000 to 2010*. CRC Press, London.
3. Byers, S. N. (2008). *Forensic Anthropology*. Boston: Pearson Education LTD.
4. Gunn A. (2009) *Essential Forensic Biology* (2nd ed). Chichester: Wiley-Blackwell
5. Modi, R. B. J. P. (2013). *A Textbook of Medical Jurisprudence and Toxicology*. Elsevier.
6. Reddy V. R. (1985). *Dental Anthropology*, Inter-India Publication, New Delhi.
7. Spencer, C. (2004). *Genetic Testimony: A Guide to Forensic DNA Profiling*, Pearson, New Delhi.
8. Vats Y., Dhall J.K. and Kapoor A.K. (2011). Gender Variation in Morphological Patterns of Lip Prints among some North Indian Population. *J. Forensic Odontology*, 4: 11-15.
9. Wilkinson, C. (2004). *Forensic facial reconstruction*. Cambridge University Press.

.....

DSE – 1.B Urban Anthropology (6C)

Theory Credit 4

Unit 1: Emergence of urban anthropology

Introduction, Extension of the anthropological interest in peasants and rural areas, Origins of Cities and Early Sociological Approaches, Urban planning and design

Unit 2: Political economy

Rural-urban migration, kinship in the city, problems that arise from urbanism, poverty and social stratification

Unit 3: Class approach

Culture of Poverty and the Underclass Approach, Comparison between relations function in an urban setting versus function in a rural setting, Race and Class in Urban Ethnography, Urban Dystopia

Unit 4: Urban Inequality and Disasters

Poverty, extended family for urban natives versus migrants , Global Cities and the Production of Space, Community study and urban ecology, Urban Space, Postmodern and Hypermodern City

Unit 5: Global Urban Developments

Urban ethnography research and methodology, Contemporary urban issues: Suburbs, Exurbs and Urban Decline, disciplinary perspectives

Practical Credit 2

- (i) Visit city life among business community and appreciate the role of culture with politics and economics.
- (ii) Media-popular culture behaviour
- (iii) Photo shoot in any city life, Creating captions and texts relating to urban anthropology findings.

Suggested readings

1. <http://www.oxfordbibliographies.com/>
2. Cities, classes and the social order. Anthony Leeds, Roger Sanjek
3. Childe, V. Gordon. 1950. “Urban Revolution.” Town Planning Review
4. Low Reader Part V: “The Postmodern City” in Low pp. 317-377; Dear and Flusty .
5. “Anthropological Fieldwork in Cities”, “The anthropology of Cities: Some Methodological Issues”.

DSE – 1.C Human Genetics

Theory Credit- 4

Unit I:

Structure, Function and Inheritance of the human genome- gene, DNA structure and replication, DNA repair and recombination, gene expression, coding and non-coding region

Unit II:

Expression of genetic information: from Transcription to Translation – the relationship between genes and protein, transcriptions; transcription and RNA processing, encoding genetic information, decoding the codons: the role of transfer RNAs

Unit III:

Genomic Variation: Genomic Polymorphisms (SNPs, VNTR, CNVs, etc); haplotypes and haplogroups; genotype-phenotype correlations, epigenetics

Unit IV:

Methods of Genetic Study in Human: Pedigree analysis and expressivity; Chromosomal Basis of Genetic Disorders (Karyotypes and identification of chromosome variation; Nucleic Acid Hybridization Assays, cytogenetic mapping), Genetic mapping (Microsatellite and other DNA polymorphisms), LOD score; sequencing strategies (PCR based Sanger sequencing to Exome sequencing), concept of non-mendelian inheritance and complex diseases

Unit V: Genomic Diversity & Human Evolution

1. Peopling of the Indian Subcontinent: Evidence from mtDNA and Y-chromosome; evolutionary genetics; Molecular evolution; DNA sequence variation and human origins

Practical Credit- 2

1. Blood Collection, transportation and storage in field
2. DNA Extraction from whole blood
3. DNA Quantification, Aliquoting and sample preparation
4. PCR and electrophoresis
5. Gel Documentation

(The students should maintain practical notebook for evaluation)

Suggested Readings:

1. Strachan T and Read AP. (2004). Human Molecular Genetics. Garland Science
2. Brown TA. (2007). Genomes. Garland Science.
3. Griffiths AJF. (2002). Modern Genetic Analysis: Integrating Genes and Genomes. WH Freeman Press.
4. Griffiths AJF, Wessler SR, Carroll SB, Doebley J. (2011). An Introduction to Genetic Analysis. Macmillan Higher Education.
5. Cavalli-sforza LL, Menozzi P, Piazza A (1994). History and Geography of Human Genes. Princeton University.
6. Giblett, ER. (1969). Genetic Markers in Human Blood. Blackwell Scietific, Oxford.
7. Cummings MR (2011). Human Heredity: Principles and Issues. Brooks/Cole, Cengage Learning
8. Jobling M, Hurls M and Tyler-Smith C. (2004). Human Evolutionary Genetics: Origins, Peoples & Disease. New York: Garland Science.
9. Lewis R. (2009). Human Genetics: Concepts and Application. The McGraw–Hill Companies, Inc.
10. Patch C. (2005). Applied Genetics in Healthcare. Taylor & Francis Group
11. Vogel F. and Motulsky A.G. (1996). Human Genetics. Springer, 3rd revised edition.
12. Snustad .D.P. and Simmons M.J. (2006). Principles of Genetics, Fourth Edition, JohnWiley & Sons USA

Generic Elective (GE-4)/Interdisciplinary

*** One each in Semester I, II, III and IV. To be chosen from the following.**

- | | |
|------------------------------------|---|
| GE-1 Health science | GE-12 Neuro Science |
| GE-2 Home science | GE-13 Physical Education |
| GE-3 Biotechnology | GE-14 Tourism Administration |
| GE-4 Psychology | GE-15 Insurance and Banking |
| GE-5 Animation and Visual Graphics | GE-16 Journalism and Mass Communication |
| GE-6 Interior Design | GE-17 BCA |
| GE-7 Economics | GE-18 BBA |
| GE-8 Environmental Science | GE-19 Hotel Management |
| GE-9 Fashion Design | GE-20 BBA (Health Care Management) |
| GE-10 Food Technology | GE-21 Marine Science |
| GE-11 Forestry | |