

THE UNIVERSITY OF BURDWAN



Curriculum for 3-Year B. Sc. (Honours)
in
ANTHROPOLOGY

Under Choice Based Credit System (CBCS)
w.e.f 2017-2018

OUTLINE OF CHOICE BASED CREDIT SYSTEM

COURSE TITLE	COURSE TYPE	L-T-P	CREDIT
SEMESTER-I			
CC-1: Introduction to Biological Anthropology	Core Course	4-0-2	6
CC-2: Introduction to Socio-cultural Anthropology	Core Course	4-0-2	6
GE-1 : Any discipline other than Anthropology	Generic Elective		6
AECC-1: Environmental Studies	Ability Enhancement Compulsory Course (AECC-1)		4
Total credit			22
SEMESTER-II			
CC-3: Archaeological Anthropology	Core Course	4-0-2	6
CC-4: Fundamentals of Human Origin & Evolution	Core Course	4-0-2	6
GE-2: Any discipline other than Anthropology	Generic Elective		6
AECC-2: Communicative English / MIL	Ability Enhancement Compulsory Course (AECC-2)		2
Total credits			20
SEMESTER-III			
CC-5: Tribes and Peasants in India	Core Course	4-0-2	6
CC-6: Human Ecology: Biological & Cultural dimensions	Core Course	4-0-2	6
CC-7 : Genetic and Linguistic Variability in Human Populations	Core Course	4-0-2	6
GE-3: Any discipline other than Anthropology	Generic Elective		6
SEC-1: Public Health and Epidemiology Or Visual Anthropology	Skill Enhancement Elective ((SEC-1)	2-0-0	2
Total credits			26

COURSE TITLE	COURSE TYPE	L-T-P	CREDIT
SEMESTER-IV			
CC-8: Theories of Culture and Society	Core Course	4-0-2	6
CC-9: Human Growth and Development	Core Course	4-0-2	6
CC-10: Research Methodology	Core Course	4-0-2	6
GE-4: Any discipline other than Anthropology	Generic Elective		6
SEC-2: Media Anthropology or Tourism Anthropology	Ability Enhancement Elective (SEC-2)	2-0-0	2
Total credits			26
SEMESTER-V			
CC-11: Human Genetics	Core Course	4-0-2	6
CC-12: Anthropology in Practice	Core Course	4-0-2	6
DSE-1: Sports and Nutritional Anthropology Or Human Genetics	Discipline Specific Elective Course	4-0-2	6
DSE-2: Paleoanthropology Or Tribal Cultures of India	Discipline Specific Elective Course	4-0-2	6
Total credits			24
SEMESTER-VI			
CC-13: Forensic Anthropology	Core Course	4-0-2	6
CC-14: Indian Anthropology	Core Course	4-0-2	6
DSE-3: Anthropology of Health Or Indian Archaeology	Discipline Specific Elective Course	4-0-2	6
DSE-4 : Anthropological Demography Or Dissertation	Discipline Specific Elective Course	4-0-2	6
Total credits			24
ALL TOTAL CREDITS			142

CORE COURSES

Core courses	Course title		Credit	Marks
CC-1	Introduction to Biological Anthropology	Th-4CR Pr-2CR	6	75
CC-2	Introduction to Socio-cultural Anthropology	Th-4CR Pr-2CR	6	75
CC-3	Archaeological Anthropology	Th-4CR Pr-2CR	6	75
CC-4	Fundamentals of Human Origin & Evolution	Th-4CR Pr-2CR	6	75
CC-5	Tribes and Peasants in India	Th-4CR Pr-2CR	6	75
CC-6	Human Ecology: Biological & Cultural dimensions	Th-4CR Pr-2CR	6	75
CC-7	Genetic and Linguistic Variability in Human Populations	Th-4CR Pr-2CR	6	75
CC-8	Theories of Culture and Society	Th-4CR Pr-2CR	6	75
CC-9	Human Growth and Development	Th-4CR Pr-2CR	6	75
CC-10	Research Methods	Th-4CR Pr-2CR	6	75
CC-11	Human Genetics	Th-4CR Pr-2CR	6	75
CC-12	Anthropology in Practice	Th-4CR Pr-2CR	6	75
CC-13	Forensic Anthropology	Th-4CR Pr-2CR	6	75
CC-14	Indian Anthropology	Th-4CR Pr-2CR	6	75

DISCIPLINE SPECIFIC ELECTIVE COURSES

Discipline Specific Elective	Course title		Credit	Marks
DSE-1	Sports and Nutritional Anthropology Or	Th-4CR Pr-2CR	6	75
	Human Genetics	Th-4CR Pr-2CR	6	75
DSE-2	Paleoanthropology Or	Th-4CR Pr-2CR	6	75
	Tribal Cultures of India	Th-4CR Pr-2CR	6	75
DSE-3	Anthropology of Health Or	Th-4CR Pr-2CR	6	75
	Indian Archaeology	Th-4CR Pr-2CR	6	75
DSE-4	Anthropological Demography Or	Th-4CR Pr-2CR	6	75
	Dissertation			

***DSE-1 AND 2 IN SEMESTER V
DSE-3 AND 4 IN SEMESTER VI**

GENERIC ELECTIVE COURSES (For any discipline other than Anthropology)

Generic Elective	Course title		Credit	Marks
GE-1	Foundation of Anthropology	Th-4CR Pr-2CR	6	75
		Th-4CR Pr-2CR	6	75
GE-2	Biological Anthropology	Th-4CR Pr-2CR	6	75
		Th-4CR Pr-2CR	6	75
GE-3	Archaeological Anthropology	Th-4CR Pr-2CR	6	75
		Th-4CR Pr-2CR	6	75
GE-4	Social-Cultural Anthropology	Th-4CR Pr-2CR	6	75
		Th-4CR Pr-2CR	6	75

SKILL ENHANCEMENT COURSES

Skill Enhancement Courses	Course Title	Credit	Marks
SEC-1	Public Health and Epidemiology OR Visual Anthropology	2	50
SEC-2	Media Anthropology OR Tourism Anthropology	2	50

*SEMESTER-III – SEC 1

*SEMESTER-IV – SEC2

ABILITY ENHANCEMENT COURSES

Skill Enhancement Courses	Course Title	Credit	Marks
AECC-1	Environmental Studies	4	100
AECC-2	Communicative English/ MIL	2	50

*SEMESTER-I – AECC 1

*SEMESTER-II – AECC2

CORE COURSES

Credits: Any four papers = Theory +Practical = (4+2) X 4 = 24

CC-1: Introduction to Biological Anthropology

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: History and Development of Biological Anthropology, Aim, scope, branches and its relationship with allied disciplines. 10L

Unit II: History and development of understanding human variation and evolutionary thoughts. Principles of evolution: Convergence, Divergence, Parallelism, Adaptive radiation, Irreversibility. Theories of evolution: Lamarckism, Neo Lamarckism, Darwinism, Synthetic theory, Mutation. 15L

Unit III: Non human primates in relation to human evolution 20L

1. Significance of non-human primate study in Biological Anthropology.
2. Classification, characteristics and distribution of living primates.
3. Primate locomotion
4. Primate behavior: brief concept of the terms- Core area, Home range, Dominance, Grooming, Male-female sexual bond and Allomothering.
5. Comparative anatomy of human and non-human primates.

Unit IV: 15L

1. Emergence of the concept of race, its historical development, racism
2. A comparative account of various racial classifications (Risley, Guha and Sarkar).
3. Approaches of classifying human race- ecological (local, micro and geographical) and criteria for racial classification- Stature, Skin colour, Hair, ABO blood group system.
4. UNESCO Statement on Race.

PRACTICAL CREDIT: 2

20P

1.Somatometry

Maximum head length	Morphological upper facial height
Maximum head breadth	Head circumference
Minimum frontal breadth	Mid upper arm circumference
Maximum bizygomatic breadth	Stature
Nasal height	Sitting height
Nasal breadth	Body weight
Bigonial breadth	
Morphological facial height	

2. Somatoscopy

1. Hair form
2. Nose form
3. Hair colour
4. Eye colour
5. 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.
5. Molnar S. (1982). Human Variation: Races, Types and Ethnic groups. New York: Pearson Education Inc.
6. Weiner J.S. and Lourie J.A. (1981). Practical Human Biology. UK: Academic Press.

7. Mukherji D., Mukherjee D, Bharati P. (2009). *Laboratory Manual for Biological Anthropology*. Calcutta: Asian Books Pvt. Ltd.
8. Le Gros Clark W. E. (1960). *The Antecedents of Man: An Introduction to Evolution of the Primates*. Chicago: Quandrangle Books.
9. Seth S., Seth P.K. (1986). *The Primates*. New Delhi: Northern Book Centre.
10. Sen T. (1994). *Guide to Anthropometry*. Delhi: Friends Publications.

CC-2: Introduction to Socio-cultural Anthropology

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Anthropological perspective and orientation; Scope and relevance of Social Anthropology; Relationship of Social Anthropology with other disciplines. 10L

Unit II: Concepts of society and culture; status and role; groups and institution, social stratification, and civil society. 15L

Unit III: Social fact; social conflict; social system, Concept of Social Structure and Organization- Family (types, basic structure, functions, factors associated with the changes in joint family), Marriage (forms and functions; rule of marriage- Hypergamy, Hypogamy, Endogamy and Exogamy; Ways of acquiring mates Prescribed; Proscribed; Preferential marriage and Incest), Kinship (Concept, Kinship Typology, Kinship Terminological system, Kinship behavior: avoidance, joking relationship, tekhnonymy, couvade, amitate, avunculate, Significance of studying kinship). 25L

Unit IV: Theory and practice of ethnographic fieldwork; survey research; comparative and historical Methods. 10L

PRACTICAL CREDIT: 2

20P

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. Karen O'reilly. (2012). '*Practical Issues in Interviewing*' *Ethnographic Methods*. Abingdon: Routledge
7. Rapport N. and Overing J. (2004). *Key Concepts in Social and Cultural Anthropology*. London: Routledge.
8. Scupin, R. 2011. *Cultural Anthropology: A Global Perspective*. Delhi: Pearson.
9. Miller, Barbara. *Cultural Anthropology*. 6th ed. 2011. PHI Learning Private Limited: New Delhi.
10. Fox, Robin. 1983. *Kinship and Marriage: An Anthropological Perspective*. Cambridge University Press.
11. Nanda, Serena. 2006. *Cultural Anthropology*. USA: Cengage Learning.
12. Haviland et. al. 2008. *Anthropology*. Australia: Wordsworth.

CC-3: Archaeological Anthropology

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Introduction, Definition and scope of Archaeological Anthropology. Relation with other disciplines. Methods of studying Archaeological Anthropology. 10L

Unit II: Methods of Estimation of Time and Reconstruction of the Past- Absolute dating methods (C14, K-AR, Dendrochronology, TL) and Relative dating methods (Stratigraphy, River Terrace, Pollen-Analysis). 10L

Unit III: Geochronology of Pleistocene Epoch, Glacial and Interglacial, Pluvial and Inter Pluvial, Different types of geo-climatic events. 10L

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. 15L

Unit V: Earliest Evidence of Culture in the World: Olduvai Gorge, Sohan, Attirampakkam and Isampur. 15L

PRACTICAL CREDIT: 2 20P

Typo-technological Analysis of Prehistoric Tools: Identification, Interpretation and Drawings of the following tool Types

1. Core Tool
2. Flake Tool
3. Blade Tool
4. Microlithis
5. Neolithic Tool

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.
9. Okley KP.1967. Man The tool Maker. Trustees of the British Museum.

CC-4: Fundamentals of Human Origin & Evolution 6 CREDIT

THEORY CREDIT: 4 60L

Unit-I: Primate: origin and radiation with special reference to Oligocene and Miocene hominoids, distribution, features and their phylogenetic relationships (Apidium, Propithecus, Aegyptopithecus, Proconsul-Dryopithecus, Sivapithecus-Ramapithecus). 15L

Unit-II: Australopithecines: distribution, features and their phylogenetic relationships, Appearance of genus Homo (*Homo habilis*) and related findings. 15L

Unit-III: *Homo erectus* from Asia, Europe and Africa: Distribution, features and their phylogenetic position. 10L

Unit-IV: The origin of *Homo sapiens*: Fossil evidences of Neanderthals and Archaic *Homo sapiens*. 10L

Unit-V: Origin of modern humans (*Homo sapiens sapiens*): Distribution and features 10L

PRACTICAL CREDIT: 2 20P

1. Craniometry

Maximum cranial length	Greatest occipital breadth
Maximum cranial breadth	Length of Foramen magnum
Maximum frontal breadth	Breadth of Foramen magnum
Minimum frontal breadth	Frontal arc
Bizygomatic breadth	Sagittal arc

Nasal height	Occipital arc
Nasal breadth	Cephalic index
Upper facial height	Nasal index
Bi-mastoid breadth	Jugo-frontal index

2. Osteometry

Measurements of long bones (any two): lengths, minimum/least circumference and caliber index.

3. Identification of casts of fossils of family hominidae [Drawing and Characteristics (Photographs may be utilized); one from each of the following]

Anthropoid ape skull: Gorilla, Chimpanzee, Orangutan and gibbon;

Fossil ape: Parapithecus, Dryopithecus, Sivapithecus and Ramapithecus;

Protohominid: Australopithecines;

Fossil hominids: Homo habilis, Homo erectus, Neanderthal, Homo sapiens)

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.
9. Day M.H. (1965). *Guide to Fossil Man*. Chicago: University of Chicago Press.
10. Mukherji D., Mukherjee D, Bharati P. (2009). *Laboratory Manual for Biological Anthropology*. Calcutta: Asian Books Pvt. Ltd.

CC-5: Tribes and Peasants in India

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Anthropological Concept of Tribe

10L

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

Unit II: Tribes and Wider world.

10L

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

Unit III: Anthropological Concept of Village

25L

1. The concept of peasantry.
2. Approaches to the study of peasants – economic, political and cultural.
3. Characteristics of Indian village, Scope of village study in Anthropology.
4. Caste system and changes.

Unit IV: Ethnicity Issues- Tribal (Santal, Munda, Naga,) and peasant (Tebhaga) movements; Identity issues

15L

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:

1. Walker A. (1986). *The Todas*. Delhi : Hindustan Publishing Corporation Verrier Elwin (1992). *The Muria and their Ghotul*. USA: Oxford University Press.
2. Malinowski M. (1922). *Argonauts of the Western Pacific*. London: Routledge and Kegan Paul Ltd.
3. Furer-Haimendorf C.V. (1939). *The Naked Nagas*. London: Methuen and Co.
4. Evans-Pritchard E.E. (1940). *The Nuer: A Description of the Modes of Livelihood and Political Institutions of a Nilotic People*. Oxford : Clarendon Press.
5. Majumdar D. N. (1950). *Affairs of tribes*. Lucknow: Universal Publishers Ltd.
6. Dube S.C. (1955). *Indian Village*. London: Routledge and Kegan Paul Ltd.
7. Berreman G.D. (1963). *Hindus of the Himalayas*. Berkeley: California University Press.
8. Roy S.C. (1912). *The Munda and Their Country*. Calcutta.
9. Roy S.C. (1915). *The Oraons of Chtanagpur*. Ranchi.
10. Rivers, W.H.R. (1906). *The Todas*. New York: Macmillan.
11. Radcliffe A.R. (1922). *The Andaman Islanders*. Cambridge: Cambridge University Press.
12. Geertz Clifford (2001). *The Interpretation of Cultures: Selected Essays*. New York, N.Y.: Basic Books.

Suggested Readings

1. Gupta D. (1991). *Social Stratification*. Oxford University Press: Delhi.
2. Madan V. (2002). *The Village in India*. Oxford University Press: Delhi.
3. Nathan D. (1998). *Tribe-Caste Question*. Simla: IAS.
4. National Tribal Policy (draft). (2006). Ministry of Tribal Affairs. Government of India.
5. Patnaik S.M. (1996). *Displacement, Rehabilitation and Social change*. Inter India Publication, Delhi.
6. Shah G. (2002). *Social Movement and the State*. Delhi: Sage.
7. Shanin T. (1987). *Peasants and Peasantry*. New York, Blackwell.
8. Vidyarthi L.P. and Rai B.K. (1985) *Tribal Culture in India*, New Delhi, Concept Publishing Company.
9. Wolf E. (1966). *Peasants*. NJ, Prentice Hall.
10. Sahlins M.D. (1968). *Tribesman*. Prentice Hall.
11. Das, Veena (ed). 2003. *The Oxford India Companion to Sociology and Social Anthropology*, Delhi, OUP, 2003, 2 volumes.
12. Dube, SC. (1998). *Indian Village*. Delhi: Psychology Press.
13. Srinivas, M.N. (Ed.) 1961 *India's Villages*. New York and Bombay: Asia Publishing House. Second revised edition.
14. McKim Marriott (ed.) 1955. *Village India*. Illinois: University of Chicago Press.

CC-6: Human Ecology: Biological & Cultural dimensions

6 CREDIT

THEORY CREDIT: 4

60L

Biological Dimensions

Unit I: Concepts and definition of Ecology, adaptation, acclimatization, homeostasis, biotic and abiotic component. 10L

Unit II: Bio-cultural adaptation to environmental stresses- heat, cold and altitude. Ecological rules and their applicability among human beings (Allen's, Bergmann's and Gloger's rules). 10L

Unit III: Impact of urbanization and industrialization on Man. 10L

Cultural Dimensions

Unit IV: Culture as a tool of adaptation; various modes of human adaptation in pre-state societies; Hunting and food gathering, Pastoralism, Shifting cultivation. 10L

Unit V: Ecological themes of state formation: i. Neolithic revolution, ii. Hydraulic civilization. 10L

Unit VI: Agriculture and peasantry; Industrial civilization and growth of urban societies 10L

PRACTICAL CREDIT: 2 20P

Biological Dimensions

Size and Shape Measurements

Total arm length	Bi-acromial diameter
Total Lower Extremity Length	Bi-iliocrystal diameter
Total Upper Extremity Length	Upper arm circumference
Bi-condylar diameter of femur	Bi-condylar diameter of humerus
Chest circumference	Hand length
Hand breadth	

Size and Shape Indices

Body Mass Index	Relative Upper Extremity Length
Ponderal Index	Relative Total Lower Extremity Length
Relative Sitting Height	

Cultural Dimensions

The students require preparing a project report based on any environmental problem.

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 and 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.
9. Singh S.P. and Mehta P. (2009). Human body measurements: Concepts and applications. New Delhi: PHI Learning Private Ltd.
10. Harrison G.A., Tanner, J.M., Pilbeam, D.R., Baker, P.T. (1977) Human Biology: An introduction to human evolution, variation, growth and ecology. Oxford University Press.

CC-7: Genetic and Linguistic Variability in Human Populations

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Concept of Genetic Variability; Hardy-Weinberg Law; Sources of Genetic Variation; Structuring Genetic Variation; Interpretation of Human Variation, Genetic Polymorphism (Serological, Biochemical and DNA Markers). 15L

Unit II: Linguistic classification of Indian population. 15L

Unit III: Role of Bio-cultural factors influencing the diseases and nutritional status. Evolution of Human diet, biological perspectives of ageing process among different populations. 15L

Unit IV: Demographic Perspective

Demography, Anthropological Demography and its importance; Concept of Demographic events, rates and ratio, Sources of Demographic Data, Demographic Processes/ transition, Inbreeding and Consanguinity – Biological consequences of inbreeding and its Anthropological relevance.15L

PRACTICAL CREDIT: 2

20P

1. Analysis and interpretation of finger pattern types (Arch, Loops and Whorls) of at least ten subjects.
2. Write a project report on Genetic Counseling.
3. Collection of demographic data from secondary sources.

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. Klepinge 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.
15. Pressat R. (1961). Demographic analysis. UK: Edward Arnold Publisher Pvt. Ltd.
16. Cummins H. and Midlo C. (1976). Finger prints, palms and soles: An introduction to dermatoglyphics. Research Publishing Company.

CC-8: Theories of Culture and Society

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Emergence of Anthropology: 19th and 20th Century Evolutionism, Diffusionism and Culture area theories. 10L

Unit II: Emergence of fieldwork tradition, American Cultural Tradition- cultural relativism and Historical Particularism. 10L

Unit III: Durkheim and social integration, Functionalism and Structural-functionalism and British Social Anthropology. 10L

Unit IV: Culture-Personality School (Ruth Benedict and Margaret Mead) 10L

Unit V: Structuralism: Claude Levi-Strauss. 10L

Unit VI: Symbolic and Interpretative approach. 10L

PRACTICAL CREDIT: 2

20P

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. Choice of appropriate research technique and method in the context of theoretical framework.
5. 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.
5. Clifford, James and George E. Marcus (1986) *Writing culture: the poetics and politics of ethnography*. Berkeley: University of California Press.
6. Goffman, E. (1959). *The Presentation of Self in Everyday Life*. University of Edinburgh Social Sciences Research Centre. Anchor Books.
7. Marvin Harris.(1968). *Rise of Anthropological Theories: A History of theories of Culture*. Routledge and Kegan Paul.
8. Pandey and Upadhyaya. (2002). *History of Anthropological Thoughts*. New Delhi: Concept Publishing Company.

CC-9: Human Growth and Development

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Concept of human growth, development, differentiation and maturation. 10L

Unit II: Prenatal (conception till birth) and postnatal (birth till senescence) period of growth, pattern of normal growth curves (distance, velocity and acceleration), catch-up growth and catch-down growth), ethnic and gender differences in growth curves, secular trend 20L

Unit III: Bio-cultural factors (genetic, social, and ecological factors) influencing patterns of growth and variation, methods and techniques to study growth (Longitudinal, cross-sectional, mixed-longitudinal), significance/ applicability of growth studies. 15L

Unit IV: Human nutrition: food, diet, nutrition, and metabolism (definitions only); the basic nutrients—micro, and macronutrients—their sources and utility; malnutrition: over-, and under-nutrition, malnutrition—their evaluation and general consequences with special reference to obesity, Kwashiorkor and Marasmus 15L

PRACTICAL CREDIT: 2

20P

Assessment of nutritional status of using anthropometric measurements (stature, body weight, mid upper arm circumference, BMI, body fat %, Conicity index, body adiposity indices, regional adiposity indices: WC, WHR, WHtR, fat percentage and muscle mass, etc.) [At least ten subjects]

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 Himalayan 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.
13. Weiner J.S. and Lourie J.A. (1981). *Practical Human Biology*. UK: Academic Press.
14. Mann J., Truswell A. S. (eds.). (2012). *Essentials of Human Nutrition*. Oxford University Press.
15. Mader S. S., Windelspecht M. (2011). *Human Biology*. McGraw-Hill Higher Education.

CC-10: Research Methodology**6 CREDIT****THEORY CREDIT: 4****60L****Unit I: Research Design**

Review of literature, conceptual framework, formulation of research problem/hypothesis, sampling, data collection, data analysis and report writing, guiding ideals and critical evaluation of major approaches in research methods, basic tenets of qualitative research and its relationship with quantitative research. 10L

Unit II: Field work tradition in Anthropology, Concept of survey, Ethnographic approach, cultural relativism, ethnocentrism, etic and emic perspectives, comparative and historical methods, techniques of rapport establishment, categories of informants, field notes. 10L

Unit III: Tools and techniques of data collection, 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, Focused Group Discussion; key informant, Case Study and life history, Genealogy - Technique and application 10L

Unit IV: Ethics and Politics of Research 10L

1. Identify, define, and analyze ethical issues in the context of human subject research.
2. Reasons for conducting ethical review of research.
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 10L

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 (Excel and/ or SPSS).

Unit VI: Bio-Statistics 10L

1. Basic concept of statistics, terms and concepts used in statistics (population, sample, variable)
2. Types of variables, presentation and summarization of data (tabulation and illustration)
3. Basic knowledge about sampling and sampling types
4. Types of data: parametric and non-parametric.
5. Descriptive statistics- Measurers of Central Tendency and Dispersion, Skewness and Kurtosis, Normal and binomial distribution.
6. Tests of Inference- Student's 't' tests, Chi-square test, Correlation and Regression Analysis.

PRACTICAL CREDIT: 2

20P

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 (Any one).

Suggested Readings

1. 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.
2. Bernard H.R. *Research Methods in Anthropology, Qualitative and Quantitative Approaches*. Jaipur: Rawat Publications. 2006.
3. Madrigal L. *Statistics for Anthropology*. Cambridge: Cambridge University Press. 2012.

4. Zar JH. Biostatistical Analysis. Prentice Hall. 2010.
5. Michael A. The Professional Stranger. Emerald Publishing. 1996.
6. Bernard R. Research Methods in Anthropology: Qualitative and Quantitative Approaches. AltaMira Press. 2011.
7. Bernard, H.R. 1988. Research Methods in Cultural Anthropology. Sage Publication.
8. Emerson, R.M., Fretz RI and Shaw L. Writing Ethnographic Fieldnotes. Chicago, University of Chicago Press. 1995.
9. Lawrence, N.W., Social Research Methods, Qualitative and Quantitative Approaches. Boston: Allyn and Bacon. 2000.
10. O'reilly, K., Ethnographic Methods. London and New York: Routledge. 2005.
11. Patnaik S.M., Culture, Identity and Development: An Account of Team Ethnography among the Bhil of Jhabua. Jaipur: Rawat Publications. 2011.
12. Pelto, P.J. and Pelto, G.H., Anthropological Research, The Structure of Inquiry. Cambridge: Cambridge University Press. 1978.
13. Sarantakos, S., Social Research. London: Macmillan Press. 1998.
14. Ahuja, R. Research Methods. Rawat Publications. 2013.
15. Rastogi, V.B. Fundamentals of Biostatistics. Ane Books Pvt. Ltd. 2009
16. Viswesswara Rao, K., Biostatistics. Jaypee Brothers Medical Publishers. 2009.
17. Das, N.G., Statistical Methods. Tata McDraw Hill Education Pvt. Ltd. 2009.
18. Daniel, W.W. Biostatistics: A Foundation for Analysis in the Health Sciences. Wiley & Sons 1995.
19. Goode, W.J., and P.K. Hatt. Methods in Social Research. McGraw-Hill Inc.,US; International edition 1952.

CC – 11: Human Genetics

6 CREDIT

THEORY CREDIT: 4

60L

Unit-I. Essentials of 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 (Single factor inheritance (Autosomal dominant and recessive), multiple allelism, Co-dominance; sex linked, Multifactorial inheritance, Sex controlled and Sex limited traits; penetrance and expressivity 15L

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). 15L

Unit-III: 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). 10L

Unit-IV: Population structure and admixture in human populations random & non-random mating (positive and negative assortative mating), heritability, genetic markers utility of genetic markers in forensic, population and disease association studies. 10L

Unit-V: Genetic Counseling: Definition, aim and scope, methods, Hemophilia screening. 10L

PRACTICAL

CREDIT: 2

20P

1. Blood group typing- ABO and Rh blood groups (at least 10 individuals)
2. Color Blindness test (at least 10 individuals)
3. PTC tasting ability (at least 10 individuals)

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. Hurler 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.

CC-12: Anthropology in Practice
THEORY CREDIT: 4

6 CREDIT
60L

Unit-I: Academic Anthropology

10L

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

Unit-II: Role of Anthropology in Development

15L

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, Visual Anthropology.

10L

Unit-IV: Constitutional Perspective and Fundamental Human Rights and duties, Constitutional Provisions, Evaluation, protection and enforcement of human rights, harmony and conflict. National and state human right commission, Human rights of special categories and marginalized groups.

15L

Unit-V: Biosocial anthropology in practice Bio-social elements of human development at national and international level, application of conceptual framework of Forensic Anthropology .

10L

PRACTICAL

CREDIT: 2

20P

1. The students will visit a NGO or corporate office or census office in Kolkata-BDO, NSS or any local bodies and its adjoining areas and write principal observations on the same.
2. Write a project on constitutional provisions or evaluation of any development project/report.
3. Write a project on Religious Tourism / Tribal Tourism / Health Tourism / Human Rights / Ecotourism.
4. Write a project on the demographic profile from secondary data.

Suggested Readings

1. Arya A and Kapoor AK. (2012). *Gender and Health Management in Afro-Indians*. Global Vision Publishing House, New Delhi.
2. Kertzer 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. Goodale M. (2009). *Human Rights: An Anthropological Reader*. Wiley Blackwell.
10. 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.
11. Halbar BG and Khan CGH. (1991). *Relevance of Anthropology – The Indian Scenario*. Rawat Publications, Jaipur.
12. Kumar RK and Kapoor AK. (2009). *Management of a Primitive Tribe: Role of Development Dynamics*. Academic Excellence, Delhi.
13. Mishra RC (2005). *Human Rights in a Developing Society*, Mittal Publications, Delhi.
14. Noaln RW. (2002). *Anthropology in Practice: Building a Career outside the Academy*. Publishing Lynne Reinner.
15. Srivastav OS (1996). *Demographic and Population Studies*. Vikas Publishing House, India

16. Vidyarthi LP and BN Sahay (2001). Applied Anthropology and Development in India, National Publishing House, New Delhi.
17. Vidyarthi LP. (1990). Applied Anthropology in India – Principles, Problems and Case Studies. Kitab Mahal, U.P.
18. Vidyarthi V (1981). Tribal Development and its Administration. Concept Publishing Company, New Delhi.

CC-13: Forensic Anthropology

6 CREDIT

THEORY CREDIT: 4

60L

Unit-I: Introduction to Forensic Anthropology: Definition, Brief History, Scope, Applications and Integration of Forensic Anthropology. 10L

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. 15L

Unit-III: Personal Identification, Complete and Partial Identification, Methods of Identification in Living Persons: Somatometry, Somatoscopy, Occupational Marks. 10L

Unit-IV: Serology: Identification and Individualization of bloodstain, urine, semen and saliva. Patterns of Bloodstains. 15L

Unit-V: Individualization: Forensic Odontology-Tooth Structure and Growth, Bite Marks, Facial Reconstruction, DNA Profiling. 10L

PRACTICAL

CREDIT: 2

20P

1. Somatometric indices and Somatoscopic observation on living persons (at least ten subjects).
2. Examination of Fingerprints and calculation of Pattern Intensity Index (PII), Main lines formula (A, B, C, D) and value of atd-angle, as well as a, b, c, d, t triradii are to be traced (at least ten subjects).

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.

CC-14: Indian Anthropology

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Origin, history and development of Anthropology in India, approaches to the studying Indian society, culture and civilization - Indological, historical, and anthropological. 10L

Unit II: Understanding the diversity of Indian social structure - concept of Varna and *jati*, Caste system. 10L

Unit-III: Basic concepts emerged from village studies -Great tradition and little tradition, Universalization and parochialization, Sanskritization and Westernization, Dominant caste, Tribe-caste continuum, Nature-Man-Spirit complex, sacred complex, Impact of culture-contact, urbanization and industrialization on tribal and rural population. 15L

Unit-IV: Problems of exploitation and deprivation of scheduled caste/ tribe and Other Backward Classes, Contribution of Ambedkar. 15L

Unit V: Contribution of some renowned Indian Anthropologists: S.C Roy, T. C. Das, L.K.A. Krishna Aiyer, D. N. Majumdar, M. N. Srinivas, Iravati Karve, N. K. Bose, L. P. Vidyarthi and Verrier Elwin 10L

PRACTICAL ` CREDIT: 2 (any two) 20P

1. Review a book/edited volume on Indian social structure such as caste, religion, tribe or rural population and give its salient features.
2. Explore the biological diversity of any population group considering any one genetic trait.
3. Highlight the contributions of any one Indian anthropologist.

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. Guha B.S. (1931). The racial attributes of people of India. In : Census of India, 1931, vol I, Part III (BPO, Simla)
16. Malhotra K.C. (1978). Morphological Composition of people of India. J. Human Evolution.
17. Nadeem Hasnain. (2004). India Society and Culture: Continuity and Change. New Delhi: Jawahar Publisher and Distributors.

DISCIPLINE SPECIFIC ELECTIVE COURSES

Credits: Any four papers = Theory +Practical = (4+2)X4 = 24

DSE-1: Sports and Nutritional Anthropology

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Anthropology of sports- Physical fitness, component of physical fitness 10L

Unit II: Environmental effects on physical performance: effect of heat stress, cold stress and high altitude on physiological response and performance. 20L

Unit III: Somatotyping and human physique with reference to Sheldon, Parnell, Heath and Carter methods, Body composition and Athletes 15L

Unit IV: Human biological variability, health and nutrition; doping and performance; cultural constructions and physiologic implications of food; an integrated bio-behavioural perspective towards food preference. 15L

PRACTICAL ` CREDIT: 2

20P

1. Assessment of daily nutrient intake/or assessment of nutritional status through anthropometric measurements.
2. Evaluate association of nutritional status and physical performance.
3. Demonstrate cultural perspective for preference of specific food of a population.

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.
6. Chatterjee C.C. (2016). Human Physiology. CBS Publishing.
7. Tanner J.M. (1964). Phisique of the Olympic Athlete. Allen & Unwin.
8. Carter J.E.L., Heath B.H. (1990). Somatotyping: Development and Application. Cambridge University Press.

OR

DSE-1: Human Genetics

6 CREDIT

THEORY CREDIT: 4

60L

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 15L

Unit II: Expression of genetic information: from Transcription to Translation – the relationship between genes and protein, transcription and RNA processing, encoding genetic information, decoding the codons: the role of transfer RNAs 15L

Unit III: Genomic Variation: Genomic Polymorphisms (SNPs, VNTR); haplotypes and haplogroups; genotype-phenotype correlations. 10L

Unit IV: Methods of Genetic Study in Human: Twin and co-twin method; Pedigree and Family method (May be included); Chromosomal aberrations/ abnormalities (Down's syndrome, Turner's syndrome, Klinefelter's syndrome) concept of non-mendelian inheritance and complex diseases. 10L

Unit V: Genomic Diversity & Human Evolution 10L

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

PRACTICAL ` CREDIT: 2

20P

1. DNA Extraction from tissue
2. DNA Quantification, Aliquoting and sample preparation

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, John Wiley & Sons USA.

DSE-2: Paleoanthropology**6 CREDIT****THEORY CREDIT: 4****60L**

Unit I: Dating methods, geological time scale, taphonomy and interpretation of the paleontological and archaeological records, taxonomic and chronological problems of fossils records. 15L

Unit II: Primate, speciation and extinctions: a geological perspective, adaptive primate radiation, differential rate of somatic evolution. 15L

Unit III: Evolutionary biology: Origins and evolution of stone age technology and its impact on hominization, Human origins: Development, distribution and fossilized evidence of Australopithecines, Paranthropus (Zinjanthropus), Homo habilis, Homo erectus, Archaic H. sapiens, prehistoric hunter-gatherers, modern pastoral communities, emergence of prehistoric people in Africa. 15L

Unit IV: Primate and Non-Primate Models for Early Hominid Behaviour; hominization process- Evolution of hominid, human bipedalism 15L

PRACTICAL ` CREDIT: 2**20P**

1. Description and identification of the disarticulated skeleton of non-human primates (Photographs may utilize)

2. Identification and description of fossil casts (Photographs may utilize).

Suggested readings

1. Napier JR and Napier PH. (1985). The Natural History of the Primates. Cambridge, MA: The MIT Press
2. Boyd R and Silk JB. (2009). How Humans Evolved. London: WW Norton.
3. Tattersall I. (2009). The Fossil Trail: How We Know What We Think We Know about Human Evolution. New York: Oxford University Press.
4. Waldron T. (2008): Palaeopathology. Cambridge University Press.
5. Cela-conde CJ and Frisancho J. (2007). Human Evolution: Trails from the past. Ayala Oxford University Press.
6. Barnes E. Diseases and Human Evolution. (2005). University of New Mexico Press.
7. Pinhasi R and Mays S (2008). Advances in Human Palaeopathology. Chichester: John Wiley & Sons, Inc. (PM).
8. Hoppa RD and Vaupel JW. (2002). Paleodemography: Age Distributions from Skeletal Samples. Cambridge University Press.
9. Lansen CS, Matter RM and Gebo DL. (1998). Human Origin: The fossil Record. Waveland Press.
10. Cameron DW and Colin P. Groves CP. (2004). Bone, Stones and Molecules: "Out of Africa" and Human Origins. Elsevier Inc.
11. Stringer C. (2011). The Origin of Our Species. London: Allen Lane.

OR**DSE-2: Tribal Cultures of India****6 CREDIT****THEORY CREDIT: 4****60L**

Unit I: Concept of tribes, General and specific characteristics of tribes, Scheduled tribes. Primitive Tribal Group (PTG) and Particularly Vulnerable Tribal Group (PVTG), Denotified tribes 10L

Unit II: Distribution of Tribes in India: Geographic, Economic and Linguistic distribution 10L

Unit III: Tribe-caste continuum; Gender and Tribe; Problems of tribes in India: land and forests alienation, indebtedness, lack of educational facilities, shifting-cultivation, Migration and occupational shift, tribal unemployment, health and nutrition; Developmental projects- tribal displacements and rehabilitation problem 15L

Unit IV: Tribal movement in terms of identity (Santal, Munda, Naga), language (Santal) 15L

Unit V: Constitutional safe guards/ provisions, Forest policies (pre and post independence), Grant-in-Aids, and role of NGOs and Voluntary organisations 10L

PRACTICAL ` CREDIT: 2**20P**

1. Point out the Geographic, Economic and Linguistic distribution of Indian Tribes and distribution of PVTGs, STs on map.

2. Write the social structure of any one tribe of India from secondary sources

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. Vidarthy, 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.
5. Hasnain, Nadeem. Tribal India. New delhi. Palaka prakashan

DSE-3: Anthropology of Health

6 CREDIT

THEORY CREDIT: 4

60L

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

5L

A. Health Anthropology within the Context of Anthropology.

- Anthropology and its subfields
- The unique place of Health anthropology in anthropology
- Different dimension of studying health.

B. Define Health, Illness and Disease. Concept of “health,” “illness,” and “disease” in Cross-Cultural Perspective.

Unit – II: Measuring Health: Morbidity, Mortality, and Epidemiology- Meaning, scope and methods. Epidemiology of common communicable diseases: Tuberculosis, Leprosy, Diabetes, HIV/AIDS, 10L

Unit – III: Women’s Health, Sex, Family Planning, and Maternal-Infant Health, Reproductive life and health; child Birth, Population variation and its relation to health and disease. 10L

Unit – IV: Chronic Disease, Injury, Stress, and Mental Health, Understanding Stress and its Effects Cross-Culturally, Mental Disorders and Related Phenomena, diseases associated with specific socio-cultural and environmental contexts: Kuru, osteomalacia, sickle cell anaemia. 15L

Unit – V: Variations in Health Care Systems: A Comparative Perspective, Biomedical and Traditional Health care system, Health promotion and health care delivery programmes. Family welfare programmes; Child health and nutrition programmes; Reproductive health awareness 10L

Unit – VI: Healing and Healers in Cross-Cultural Perspectives; Shamanism, Magic, and Healing. Ethno-medicines, Shaman, Magic, Witchcraft and Sorcery. Folk Healers and “Alternative Medicine”- Types of healers and healing, Problems in evaluating efficacy, Sources of dissatisfaction with mainstream medicine 5L

Unit – VII: Health and Human Rights, International health organization / NGOs

5L

PRACTICAL ` CREDIT: 2

20P

1. Make a Schedule on Health or Demography (execute on any of the following).
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 from secondary data (Census).
2. Assessment of health status of any tribal or ethnic group using first hand data.

Suggested Readings

1. Rajesh Khanna and A.K. Kapoor. 2007. Ethnic Groups and Health Dimensions. Discovery Publishing House, New Delhi.
2. 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.*
3. 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.*
4. Mann, Jonathon M., et al. (eds.) 1999. Health and Human Rights. New York: Routledge.

5. Albrecht, Gary L., Ray Fitzparick, and Susan C. Scrimshaw (eds.) 2000. *The Handbook of Social Studies in Health and Medicine*, SAGE Publications.
6. Bannerman, Robert, J. Burton, and Ch'en Wen-Chieh (eds.) 1983. *Traditional Medicine and Health Care Coverage*. Geneva: World Health Organization.
7. Chen, Lincoln C. Arthur Kleinman, and Norma C. Ware 1994. *Health and Social Change in International Perspective*. Harvard University Press.
8. Coreil, Jeannine and J. Dennis Mull (eds.) 1990. *Anthropology and Primary Health Care*, Boulder: Westview Press.
9. Hahn, Robert A. 1999. *Anthropology in Public Health. Bridging Differences in Culture and Society*. New York: Oxford University Press.
10. Helman, Cecil G. 1994. *Culture, Health, and Illness*. 3rd ed. Oxford: Butterworth -Heinemann.
11. Inhorn, Marcia C. and Peter J. Brown 1997. *The Anthropology of Infectious Disease. International health Perspectives*. Gordon and Breach Publishers.
12. Koop, C. Everett, Clarence E. Pearson, and M. Roy Schwartz (eds.) 2001. *Critical Issues in Global Health*. San Francisco: Jossey-Bass. A Wiley Company.
13. 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.
14. Nichter, Mark and Mimi Nichter 1996. *Anthropology and International Health. Asian Case Studies*. Gordon and Breach Publishers.
15. Paul, Benjamin D. (ed.) 1955. *Health, Culture, and Community. Case Studies of Public Reactions to Health Programs*.
16. Williams, Cicely D., Naomi Baumslag, and Derrick B. Jelliffe 1994. *Mother and Child Health. Delivering the Services*. 3rd Edition. New York: Oxford University Press
17. Basch, Paul F. *Textbook of International Health* 1999. New York: Oxford University Press.
18. Tsui, Amy O., Judith N. Wasserheit, and John G. Haaga (eds.) 1997. *Reproductive Health in Developing Countries*. Washington, D.C.: National Academy Press.
19. Winkelman, M. 2009. *Culture and Health: Applying Medical anthropology*, San Francisco: Jossey Bass.

OR

DSE-3: Indian Archaeology

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Understanding culture-

15L

- 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

10L

Unit III: Prehistoric India: Pleistocene chronology of India: A critical assessment

10L

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

25L

i. Lower Palaeolithic India

ii. Middle Palaeolithic India

iii. Upper Palaeolithic India

iv. Mesolithic culture India

v. Neolithic culture India

PRACTICAL ` CREDIT: 2

20P

1. Identification of tools (drawing, structure and function of tools):

- (a) Handaxe, (b) Chopper/Chopping tools, (c) Cleaver, (d) Side scraper, (e) Knives, (f) End scrapers, (g) Willow/Laurel Leaf point (h) Microlithic tools, (i) Bone tools (j) Celt

2. Tool-making techniques

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-4: Anthropological Demographic**6 CREDIT****THEORY CREDIT: 4****60L**

Unit I: Demographic Anthropology- definition and basic concepts, demographic rates and ratio, Relationship between demography and anthropology, Importance of demography in Anthropological studies 10L

Unit II: Population Theories; John Graunt, Thomas R. Malthus; Biological theory of population; Theory of demographic transition. 10L

Unit III: Tools of Demographic Data; Measures of population composition, distribution and growth, Measures of fertility, Measures of mortality, Measures of migration. 15L

Unit IV: Population of India; Sources of demographic data in India, Growth of Indian population, Demography of Indian tribal and non-tribal groups, Anthropological determinants of population growth, Impact of urbanization on the migration of tribal groups 15L

Unit V: National policies- National Population Policy, National Health Policy, National Policy on Reproductive Health Care. 10L

PRACTICAL CREDIT: 2**20P**

The students will collect and compile demographic data from different first hand/ secondary sources on any given topic by the concerned teacher and will prepare a project report for its evaluation.

Suggested Readings

1. Bhende A. and Kaniikar, T. (2006) *Principles of Population Studies*. Himalaya Publishing House. Mumbai (All Units, It covers most topics)
2. Caldwell J.C. (2006). *Demographic Transition Theory*. Springer.
3. Census of India (2001,2011), SRS bulletin (2013), NFHS (2006), CRS, NSSO (Can be seen from browsing net)
4. Gautam R.K., Kshatriya, G.K. and Kapoor A.K. (2010) *Population Ecology and Family Planning*. Serials publications. New Delhi.
5. Howell N. (1986) Demographic Anthropology. *Ann. Rev. Anthropol.* 15: 219-246
6. Kshatriya G.K. (2000). Ecology and health with special reference to Indian tribes. *Human Ecology special volume* 9:229-245.
7. Kshatriya G.K., Rajesh,G. and Kapoor , A.K. (2010) *Population Characteristics of Desert Ecology*.VDM Verlag Dr. Muller Gmbh and Co., Germany.
8. Misra BD (1982). *An introduction to the study of population*. South Asia publ. ltd. New Delhi.
9. National Population Policy <http://populationcommission.nic.in/npp.htm>
10. Park K. (2000) *Text book of Preventive and Social Medicine*. Banarsidas Bhanot, Jabalpur.
11. Patra P.K. and Kapoor, A.K. (2009) *Demography And Development Dynamics in a Primitive Tribe of Himalayas*. International Book Distributors, Dehradun
12. Sharma A.K. (1979) Demographic transition: A Determinant of Urbanization. *Social Change* 9: 13-17.
13. Srivastava O.S. (1996) *Demographic and Population Studies*. Vikas Publishing House, India

OR**DSE-4: Dissertation****6 CREDIT**

Each student should conduct compulsory dissertation on social-cultural aspect(s) of any cultural group/ community under a group fieldwork in any village/semi-urban/urban area of India, designed and organised solely by the department. The students should be supervised by the teacher(s). This study work should be conducted for at least ten days (excluding journey). The underlying purpose of such agenda is to train the students on how to conduct fieldwork by using conventional anthropological research methods and field techniques. Each student has to submit hard copy of the comprehensive ethnographic report after the fieldwork but before the practical examination of Semester-VI. The students will be provided all types of necessary lectures and guideline to have theoretical and methodological orientation on ethnography/ fieldwork for conducting field study and dissertation.

Guidelines for the Field Report and dissertation:

- Importance of fieldwork in social - cultural anthropology
- Aim & Object of the study
- Methodology
- General information of the study area
- The people and Demographic profile of the study area
- A brief outline of material life/ culture
- Economic structure and principal occupation with a case study
- A brief outline of Social Organization
- Political structure (both traditional and non-traditional i.e. present panchayet system)
- Life cycle rituals: Birth (conception, rituals and ceremonies), Childhood and adolescence; Marriage (conception, premarital ceremonies, rituals, ceremonies, consummation of marriage, post-marital ceremonies and post marital maintenance); Death (conception, rituals and ceremonies).
- Impact of development / Welfare programmes (both Governmental and non-Governmental)

Marks distribution:

Question from methodology (Written)	10
Evaluation of Field Report	50
Viva-voce	15

Suggested Readings

1. Clifford, James and George E. Marcus (1986) Writing culture: the poetics and politics of ethnography. Berkeley: University of California Press.
2. Geertz, Clifford (1973) The Interpretation of Cultures. New York: Basic Books.
3. Harris, Marvin (1997) Culture, People, Nature: An Introduction to General Anthropology (7th Edition). Boston: Allyn & Bacon
4. Salzmann, Zdeněk. (1993) Language, culture, and society: an introduction to linguistic anthropology. Boulder, CO: Westview Press.
5. Shweder, Richard A., and Robert A. LeVine, eds. (1984) Culture Theory: essays on mind, self, and emotion. Cambridge, UK: Cambridge University Press.

SKILL ENHANCEMENT ELECTIVE COURSE

Credits: Any two papers = (Theory + practical) = 2X2= 4

SEC-1: Public health and epidemiology

2CREDIT

25L

Unit I: Principles of Epidemiology in Public Health: Overview of epidemiology methods used in research studies to address disease patterns in community and clinic-based populations, distribution and determinants of health-related states or events in specific populations, and strategies to control health problems. 5L

Unit II: Statistical Methods for Health Science

Analysis and interpretation of data including data cleaning, data file construction and management; implementation of analytic strategies appropriate for the type of data, study design and research hypothesis; parametric and nonparametric methods, measures of association, Linear and Logistic regression, Generalized Linear Modelling, and Survival analysis 10L

Unit III: Environmental Health; Effects of biological, chemical, and physical agents in environment on health (water, air, food and land resources); ecological model of population health; current legal framework, policies, and practices associated with environmental health and intended to improve public health 5L

Unit IV: Psychological, Behavioural, and Social Issues in Public Health; Cultural, social, behavioural, psychological and economic factors that influence health and illness; behavioural science theory and methods to understanding and resolving public health problems; assess knowledge, attitudes, behaviours towards disease and patient compliance to treatment. 5L

Suggested reading

1. Gordis L. (2004). *Epidemiology*. Third edition. Philadelphia: Elsevier Saunders.
2. Remington PL, Brownson RC, and Wegner MV. (2010). *Chronic Disease Epidemiology and Control*. American Public Health Association.
3. Pagano M and Gauvreau K. (2000). *Principles of Biostatistics*. Belmont, CA: Wadsworth.
4. Turnock B. (2011). *Public health*. Jones & Bartlett Publishers.
5. Edberg M. (2013). *Essentials of Health Behavior. Social and Behavioral Theory in Public Health*. Second Edition, Jones and Bartlett Publishers.
6. Griffith JR and White KR. (2010). *The Well-Managed Healthcare Organization*. Health Administration Press: Chicago, IL.
7. Kovner AR, McAlearney AS, Neuhauser D. (2013). *Health Services Management: Cases, Readings, and Commentary*. 10th Ed. Chicago, IL: Health Administration Press.
8. Lee LM. (2010). *Principles and Practice of Public Health Surveillance*. Oxford University Press
9. Merson M, Black RE, Mills A. (2006). *International Public Health: Diseases, Programs, Systems and Policies*. Jones & Bartlett Learning.

OR

SEC-1: Visual Anthropology THEORY CREDIT- 2

25L

UNIT 1: Introduction to Visual Anthropology. Visual Culture. Photographic and Digital Media: Still, Interactive and Moving. 10L

UNIT 2: Anthropology and Images: Ethnophotography and ethnographic films and mass media. Theories of representation, modern media and political advocacy. 5L

UNIT 3: Early Ethnographic Photography: Contexts and Trends. Anthropology of Art and Aesthetics 5L

UNIT 4: Ethnographic Films: Theoretical issues concerning ethnographic film, ethical dimensions of ethnographic film 5L

Suggested Readings

1. Marcus Banks and Howard Morphy, 1998, *Rethinking Visual Anthropology*
2. David MacDougall *Transcultural Cinema*, (Princeton, 1999)
3. Ruby, Jay. 1996. "Visual Anthropology." In *Encyclopedia of Cultural Anthropology*, David Levinson and Melvin Ember, editors. New York: Henry Holt and Company, vol. 4: 1345- 1351.
4. Ch. 1, "Reading Pictures," pp. 1-12 [From: Banks, Marcus. 2001. *Visual Methods in Social Research*. London: Sage.]
5. Ember C.R. et al (2011). *Anthropology*. New Delhi: Dorling Kindersley. [Unit II, III, IV (Page: 282-321, 430-438, 464, 469-471)]
6. Banks M. and Ruby J. (2011). *Made do Be Seen. Perspectives on the History of Visual Anthropology*. University of Chicago Press [Practical]
7. Schneider A. and Wright C. (2010) *Between Art and Anthropology: Contemporary Ethnographic Practice*. Berg Publishers [Practical]
8. Henley P. (2010). *The Adventure of the Real. Jean Rouch and the Craft of ethnographic*

SEC-2: Media Anthropology THEORY CREDIT: 2

25L

Unit I: Theoretical Foundations: Introduction to Media Anthropology; Intellectual Antecedents 3L

Unit II: Audiences, Consumption and Identity Formation: The Social and Material Life of Cinema; Television and the Cultural Politics of Nation; Gender and Subjectivity; the Nation and Temporality; Media as Material Objects. 7L

Unit III: The Cultural Work of Mass Media Production 3L

Unit IV: The Social Sites of Film and TV Production; the Exigencies of Commercial Filmmaking; the Constraints of Public Television Production. 5L

Unit V: Producing Reality – Journalism and Advertising; News as Social Practice; the Local and the Global in Advertising. 4L

Unit VI: Small Media: Materiality, Circulation, Everyday Life & Social Transformations; Indigenous Media and Cultural Activism. 4L

Suggested readings

Rothenbuhler, Eric W; Coman, Mihai. Media anthropology. 2005. California, Sage.

OR

SEC-2: Tourism Anthropology

THEORY CREDIT: 2

25L

Unit I: Tourism- aspects and prospects, anthropological issues and theoretical concerns, tourist as ethnographer; pilgrimage and Authenticity Issues. 5L

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. 7L

Unit III: 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. 7L

Unit IV: New Directions in the Anthropology of Tourism: Globalization, Tourism and Terrorism; applied aspects of anthropology in tourism development and planning. 6L

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.

GENERIC ELECTIVE COURSE (For any discipline other than Anthropology)

Credits: Theory +Practical = (4+2)X4 = 24

GE - 1: FOUNDATION OF ANTHROPOLOGY

6 CREDIT

THEORY CREDIT: 4

60L

Unit-I: Anthropology- Definition, Objective, Aim & Scope; Major Branches of Anthropology— Biological, Social-Cultural, Archaeological; Relation of Anthropology with other disciplines (e.g. Life-sciences, Science, Medical, ergonomics, Arts (Humanities) 10L

Unit-II: Biological Anthropology—Concept, Aim, Scope, Sub-Branched, Development of Biological

anthropology

10L

Unit-III: Social-Cultural Anthropology- Concept, Aim & Scope, Sub-branches, Development of Social-Cultural Anthropology, Relation with other Social Sciences, Social-Cultural Anthropology—British and American School 10L

Unit-IV: Archaeological Anthropology—Definition, Aim and Scope; Relation between Archaeological Anthropology and Palaeoanthropology, Prehistory and Protohistory 10L

Unit- V: Uniqueness of Anthropology—Holism, Comparative Method, and Fieldwork 10L

Unit –VI: Development of Anthropology (in brief), Applied and Action Anthropology 10L

PRACTICAL CREDIT: 2 20P

Identification of human bones- Skull bones (Frontal, Parietal, Occipital, Temporal, Maxilla, Sphenoid, Zygoma, and Mandible); Long bones with side determination (Humerus, Radius, Ulna, Femur, Tibia, Fibula), Scapula, Clavicle, Hip Bone. 15 marks

Laboratory Note Book and Viva voice 10 marks

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.

GE- 2 : BIOLOGICAL ANTHROPOLOGY

6 CREDIT

THEORY CREDIT: 4

60L

Unit-I: Cell - Definition, Type, Structure & Functions, Mitosis, Meiosis, Oogenesis, Spermatogenesis 5L

Unit-II: Theories of Human Evolution- Lamarckism, Darwinism, Synthetic Theory 5L

Unit-III: External morphological features of Man; Evolutionary changes in Human Skeleton and Human Morphology- Bipedalism and Erect Posture, Brain Development, Development of Grip 6L

Unit-IV: The Biological Basis of Inheritance- Human Chromosome (Structure and Shape), Human Karyotype - Denver's system, Numerical Chromosomal Aberrations/Abnormalities (Causes and manifestation): Down's syndrome, Turner's syndrome, Klinefelter's Syndrome 10L

Unit-V: Mendelian principles its explanation and application in man; Mendelian Inheritance in Man- autosomal dominant, autosomal recessive, sex chromosomal inheritance, X-linked dominant, X-linked recessive, Polymorphic character in man 10L

Unit- VI: Definition (Mivert) and general characteristic features of order Primates; Classification of the order Primates –Simpson (1945) and modified by Simons (1971) with features and examples up to family; Platyrrhine and Catarrhine monkeys- distribution, characteristics and differences 10L

Unit-VII: Anthropoid apes: Features, classification, distribution; skeletal comparison of anthropoid apes with that of man 7L

Unit –VIII: Earlier hominid-A. afarensis and A.africanus; H.habilis, H. erectus (Java and Peking variety); Neanderthal (Lachapelle-aux-saint and Tabun); Modern Homo sapiens- Cro-Magnon; Hominization process 7L

PRACTICAL

CREDIT: 2

20P

I.CRANIOMETRY: i) Maximum cranial length, ii) Maximum cranial breadth, iii) Least Frontal breadth, iv) Maximum bizygomatic breadth, v) Nasal length, vi) Nasal breadth, vii) Superior Facial Length

II. SOMATOMETRY (on three subjects)

A.10 Measurement on head and face (Cephalometry)-

i) Maximum head length, ii) Maximum head breadth, iii) Least frontal breadth, iv) Bi-zygomatic breadth, v) Bi-gonial breadth, vi) Nasal length, vii) Nasal breadth, viii) Nasal depth, ix) Morphological superior facial length, x) Morphological total facial length

B. Measurements on trunk and limbs-

i) Height vertex, ii) Height tragus, iii) Height acromion, iv) Sitting height Vertex, viii) Bi-acromial diameter, ix) Hand length, x) Hand breadth, xi) Foot length, xii) Foot breadth, xiii) Body weight

III. INDICES

i) Cephalic index, ii) Nasal index, iii) Facial index, iv) Jugo-frontal index, v) Body mass index (BMI)

IV. GENETIC TESTS (On three subjects)

i) PTC Test Testing or Test for colour blindness

Laboratory notebook and Viva Voice

5 marks

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, vol.-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. Hurls 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.
13. Buettnner-Janusch, J. (1966). *Origins of Man: Physical Anthropology*. John Wiley & Sons, Inc., New York, London, Sydney.
- 14.. Howell F.C. (1977). *Horizons of Anthropology*. Eds. S. Tax and L.G. Freeman, Aldine Publishing House, Chicago.
15. Nystrom P. and Ashmore P. (2011). *The Life of Primates*. PHI Learning Private Limited, New Delhi.
16. Seth P. K. and Seth S. (1986). *The Primates*. Northern Book Centre, New Delhi, Allahabad.
17. Sen, T. 1994. *A Guide to Anthropometry*. Delhi: Friends Publications.
18. Singh I. P. and Bhasin M.K. (1989). *Anthropometry: A Laboratory Manual on Biological Anthropology*. Kamla-Raj Enterprises, Chawri Bazar, Delhi.

19. Stanford C.; Allen J.S. and Anton S.C. (2012). *Biological Anthropology: The Natural History of Mankind*. PHI Learning Private Limited, New Delhi.
20. Swindler D. R. (2009). *Introduction to the Primates*. Overseas Press India Pvt. Ltd., New Delhi.
21. Dipak Mukherjee, Deviprasad Mukherjee and Premananda Bharati. 2009. *Laboratory Manual For Biological Anthropology*. Asian Books Pvt. Ltd.

GE- 3 : ARCHAEOLOGICAL ANTHROPOLOGY

6 CREDIT

THEORY CREDIT: 4

60L

Unit I: Concept and scope of Archaeological Anthropology, Relation with other disciplines, Methods of studying Archaeological Anthropology 5L

Unit II: Geological time scale, geochronology of Quarternary period: Pleistocene and Holocene, Villafranchian, Glacial and Interglacial, Pluvial and Inter-Pluvial, Different types of geo-climatic events, Importance of studying Pleistocene in Archeology. 10L

Unit III: Reconstructing the Past - dating method: Absolute dating (C14, K-AR, Dendrochronology, TL) and Relative dating (Stratigraphy, River Terrace). 10L

Unit IV: Understanding Culture: Concept of Culture in Prehistory—Three Age System, artifacts and tool (core tool, flake tool and flaking); Typology (structure, function and technique of tool manufacture) and cultural nomenclature. 15L

Unit V: Lithic culture in India – (i) Lower Palaeolithic, (ii) Middle Palaeolithic, (iii) Upper Palaeolithic, (iv) Mesolithic culture and, (v) Neolithic culture 20L

PRACTICAL CREDIT: 2

20P

Typo-technological Analysis of Prehistoric Tools – Drawing, Identification and Interpretation of the following tool Types

1. Core Tool
2. Flake Tool
3. Blade Tool
4. Microliths
5. Neolithic Tool

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. Okley KP.1967. *Man The tool Maker*. Trustees of the British Museum.
8. Phillipson D. W. (2005). *African Archaeology*. Cambridge, Cambridge University Press.
9. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College.
10. Sankalia H.D. (1974). *Prehistory and Protohistory of India and Pakistan*. Poona, Deccan College
11. Sankalia H.D. (1982). *Stone Tool Type and Technology*. Delhi, B.R.Publication

GE- 4 : SOCIAL-CULTURAL ANTHROPOLOGY**6 CREDITD****THEORY CREDIT: 4****60L**

Unit I: Basic concept, scope and relevance of Social Anthropology; Relationship of Social Anthropology with other disciplines 3L

Unit II: Concepts of Society; Status and Role; Community, Group, Association; Social System - Social Structure and Organization, Social Stratification, Social Control. 5L

Unit-III: Culture: concept, features and function; Aspects of culture: Culture universal, cultural integration, enculturation, process of culture change: diffusion and acculturation. 5L

Unit IV: Unit of Social Structure and Organization: Family (types, basic structure, functions, factors associated with the changes in joint family); Marriage (forms and functions; rule of marriage- Hypergamy, Hypogamy, Endogamy and Exogamy; Ways of acquiring mates Prescribed; Proscribed; Preferential marriage and Incest); Kinship (Concept, Kinship Typology, Kinship Terminological system). 20L

Unit- V: Religion (concept, function, theories), Magic (concept, types, function, practitioners), Economic anthropology (concept, function, production-subsistence strategies, distribution), Political anthropology (concept, function, types of political organization) 7L

Unit-VI: Essential theories: Evolutionism - Unilinear evolution, neo evolution and Multi-linear evolution; Diffusionism: British, German and American schools - cultural relativism and Historical Particularism (emergence of fieldwork tradition in Anthropology); Culture and Personality approaches; Functionalism; Structural – functionalism, structuralism 10L

Unit-VII: Ethnography and fieldwork; survey; qualitative and quantitative methods; comparative and historical Methods; Research methodology: Review of literature, conceptual framework, formulation of research problem/hypothesis, selection of area, sampling, rapport establishment, data collection, field note, data analysis and report writing; Ethical issues in social research; Tools and techniques of data collection: questionnaire and interview schedule, Observation, Interview, Focused Group Discussion, key informant, Case Study, Genealogy. 10L

PRACTICAL CREDIT: 2 (Any One)**20P**

1. Make a brief field report/account on any relevant social-cultural dimension/problem/issue grounded on basic research methodology.
2. Construction of genealogy and documentation of rites-de-passage of any local ethnic group.

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.

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