

**STATE MODEL SYLLABUS FOR
UNDERGRADUATE COURSE IN
ANTHROPOLOGY
(Bachelor of Science Examination)**

**UNDER
CHOICE BASED CREDIT SYSTEM**

ANTHROPOLOGY UNDERGRADUATESYLLABUS FOR HONOURS

SL.No	Semester	Number	Title of the Course	Marks Theory-60 Mid-Term-15 Practical-25	Credit	
					Theory-4	Practical-2
1	1st	CORE PAPER-1	Introduction to Biological Anthropology	75	6	
			Practical	25		
2		CORE PAPER -2	Introduction to Socio-cultural Anthropology	75	6	
			Practical	25		
3		GE1.	Introduction to Biological Anthropology	75	6	
			Practical	25		
4		AECC-1		100	4	
5		2nd	CORE PAPER -3	Archaeological Anthropology	75	6
	Practical			25		
6	CORE PAPER -4		Fundamentals of Human Origin & Evolution	75	6	
			Practical	25		
7	GE2.		Introduction to Socio-cultural Anthropology	75	6	
			Practical	25		
8	AECC-2			100	4	
9	3rd		CORE PAPER -5	Tribes and Peasants in India	75	6
		Practical		25		

10		CORE PAPER -6	Human Ecology	75	6
			Practical	25	
11		CORE PAPER -7	Biological Diversity in Human Populations	75	6
			Practical	25	
12		GE 3.	Archaeological Anthropology	75	6
			Practical	25	
13		SEC-1		100	4
14		CORE PAPER -8	Theories of Culture and Society	75	6
			Practical	25	
15		CORE PAPER -9	Human Growth and Development	75	6
	Practical		25		
16	CORE PAPER-10	Research Methods	75	6	
		Practical	25		
17	GE4.	Anthropology of India	75	6	
		Practical	25		
18	SEC-2		100	4	
19	CORE PAPER -11	Prehistoric Archaeology of India	75	6	
		Practical	25		
20	CORE PAPER-12	Anthropology in Practice	75	6	
		Practical	25		
21	DSE1	Anthropology of Religion, Politics and Economy (Compulsory)	75	6	
		Practical	25		
22	DSE2.	Tribal Cultures of	75	6	

			India(Compulsory)		
			Practical	25	
23	6th	CORE PAPER-13	Forensic Anthropology	75	6
			Practical	25	
24			CORE PAPER -14	Fieldwork and Dissertation *	
		Practical		25	
25		DSE-3	THEORY	75	6
			Practical	25	
26		DSE-4	THEORY	75	6
			Practical	25	
TOTAL				2600	148

HONOURS PAPERS:

Core Papers – 14 papers

Discipline Specific Elective – 4 papers

Generic Elective for Non Anthropology students – 4 papers, Universities where 2 subjects of two paper each are offered can offer GE1 and GE2

Marks per paper - Midterm : 15 marks, End term : 60 marks, Practical: 25 Total – 100 marks

Credit per paper – Theory : 4 , Practical : 2 Total- 6

Teaching hours per paper – 40 hours (theory) + 10 hours (practical)

COREPAPER 1

Introduction to Biological Anthropology

Theory

Unit I: History of Physical Anthropology and development of Modern Biological anthropology, aim, scope and its relationship with allied disciplines; Difference in the approaches of modern and traditional Biological Anthropology.

Unit II: History and development of understanding human evolution (pre-19th and post-19th Century); Theories of evolution: Lamarckism, Darwinism, Synthetic theory, and Mutation theory.

Unit III: Primates: General Characteristics, Distribution and Classification of Non human living primates. Comparative anatomy and behaviour of human and non-human primates.

Unit IV: Structure and function of an animal cell; cell theory and cell division (Mitosis and Meiosis), Mendel's Laws of inheritance and its application to man.

Practical Osteology

Introduction to Anthropology Laboratory: Dry Lab and Wet Lab, Calibration and Standardization of Instruments, Demonstration of Instruments: Anthropometry, Spreading Calliper, Sliding Calliper, Weighing Machine and Steel tape.

Somatometry

- | | |
|-------------------------|--------------------------------|
| 1. Stature | 6. Maximum bizygomatic breadth |
| 2. Sitting height | 7. Bigonial breadth |
| 3. Body weight | 8. Morphological facial height |
| 4. Maximum head length | 9. Head circumference |
| 5. Maximum head breadth | 10. Minimum frontal breadth |

Text book recommended:

1. Shukla B.R.K. & Rastogi, S. 1990. *Physical Anthropology & Human Genetics: An Introduction*. PlakaPrakashan. Delhi.
2. Das B.M. 2008. *Outlines of Physical Anthropology*. Kitab Mahal, New Delhi.
3. Sarkar, R. M. 2004. *Fundamentals of Physical Anthropology* (New Edition).Book World. Kolkata.

4. Mukherji, D., D. Mukherjee and P. Bharti and A .Mukhopadhyaya. 2018. *Laboratory Manual for Biological Anthropology: Revised and Enlarged 2nd Edition*. SCHOLAR Booksellers & Publishers, Kolkata.

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). Introduction to Physical Anthropology Wadsworth Publ., USA.
2. Stanford C., Allen J.S. and Anton S.C. (2010). Exploring Biological Anthropology. The Essentials. Prentice Hall Publ, USA.

COREPAPER 2

Introduction to Socio-cultural Anthropology

Theory

Unit I: Anthropological perspective and orientation; Scope and relevance of Social Anthropology; Relationship of Social Anthropology with other disciplines. Its distinction from sociology.

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

Unit III: Social organization; social structure; social function; social system.

Unit IV: Theory and practice of ethnographic fieldwork; survey method; comparative and historical Methods.

Practical

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

Text book recommended:

1. Ember C. R. et al. (2011). *Anthropology*. New Delhi: Dorling Kindersley.

2. Haviland, Prins, Walrath, McBride (2008). *Cultural Anthropology*. Cengage Learning India Pvt. Ltd., New Delhi.
3. Kapadia, K.M, 1966, *Marriage and Family in India*, Oxford University Press, London
4. Murdock, G.P. 1949, *Social structure*, Macmillan Co. London
5. Tylor, E. B. 1920 (originally in 1871), *Primitive Culture*, New York: J.

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. Ferraro G. and Andreatta S. (2008). In *Cultural Anthropology: An Applied Perspective*. Belmont: Wadsworth.
6. 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
8. O'reilly K. (2012). *Ethnographic Methods*. Abingdon: Routledge.
9. Parsons T. (1968). *The Structure of Social Action*. New York: Free Press
10. Rapport N. and Overing J. (2004). *Key Concepts in Social and Cultural Anthropology*. London: Routledge.
10. Royal Anthropological Institute of Great Britain and Ireland (1971). 'Methods' In *Notes and Queries on Anthropology*. London: Routledge & Kegan Paul Ltd.

COREPAPER 3

Archaeological Anthropology

Theory

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: Radiocarbon¹⁴ dating (C¹⁴), Potassium-Argon, Dendochronology, Fission Track Dating; Relative dating methods: Stratigraphy, Palaeontology, Palynology.

Unit III: Geochronology of Pleistocene Epoch; Glacial and Interglacial; Pluviation and Interpluviation; 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 of fabrication techniques; Earliest evidence of culture in the world: Konso, Olorgesaille, Olduvai Gorge, Pirro Nord, Damanisi, Attirampakkam, Isampur, Kuliana.

Practical

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

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

Text book recommended:

1. Bhattacharya D.K. (1978). *Emergence of Culture in Europe*, Delhi, B.R. Publication.
2. Bhattacharya D.K. (1979). *Old Stone Age Tools and Techniques*. Calcutta, K.P. Bagchi Company
3. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College

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. Renfrew, C. and Paul Bahn 1996, *Archaeology: Theory, Method and Practice*:Thames & Hudson ... London
9. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College

4. Singh I.P. and M.K. Bhasin. 1989. *A Laboratory Manual on Biological Anthropology: Anthropometry*. Kamal-Raj Enterprises, Delhi.

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.

COREPAPER 5

Tribes and Peasants in India

Theory

Unit I: Definition and Concept of Tribe; Problems of nomenclature, distribution and classification; Features of tribes in India.

Unit II: Tribes in India. The history of tribal administration; Constitutional safeguards; Draft of National Tribal Policy, Issues of acculturation assimilation and integration; Impact of development schemes and programme on tribal life.

Unit III: Concept of Indian Village; The concept of peasantry; Approaches to the study of peasants – economic, political and cultural. Characteristics of Indian village: social organization; economy and changes. Caste system and its changes in the Indian society.

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

Practical

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
2. Verrier Elwin (1992). *The Muria and their Ghotul*. USA: Oxford University Press.
3. Malinowski M. (1922). *Argonauts of the Western Pacific*. London: Routledge and Kegan Paul Ltd.
4. Furer-Haimendorf C.V. (1939). *The Naked Nagas*. London: Methuen and Co.
5. Evans-Pritchard E.E. (1940). *The Nuer: A Description of the Modes of Livelihood and Political Institutions of a Nilotic People*. Oxford : Clarendon Press.
6. Majumdar D. N. (1950). *Affairs of tribes*. Lucknow: Universal Publishers Ltd.
7. Dube S.C. (1955). *Indian Village*. London: Routledge and Kegan Paul Ltd.
8. 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. 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.

COREPAPER 6

Human Ecology

Theory

Unit 1: Concepts in Ecology: Definition, Ecosensitivity, adaptation, acclimation, acclimatization, Ecosystem: Types and Components (biotic and abiotic).

Unit II: Methods of studying human ecology. Adaptation to various ecological stresses: heat, cold and high altitude; Ecological rules and their applicability to human populations.

Unit III: Culture as a tool of adaptation; various modes of human adaptation in pre-state societies; (i) Hunting and food gathering (ii) Pastoralism and (iii) Shifting cultivation and Agriculture and peasantry.

Unit VI: Ecological themes of state formation: i. Neolithic revolution, ii. Hydraulic Civilization, Impact of urbanization and industrialization on Man.

Practical

Biological Dimensions

Size and Shape Measurements

- | | |
|---------------------------------|---------------------------------|
| 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 (Any two)

- | | |
|----------------------------|--|
| 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 |

Cultural Dimensions

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

Text book recommended:

1. Mukherji, D., D. Mukherjee and P. Bharti and A. Mukhopadhyaya. 2018. *Laboratory Manual for Biological Anthropology: Revised and Enlarged 2nd Edition*. SCHOLAR Booksellers & Publishers, Kolkata.

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.
9. Dave Deeksha & S.S. Katewa (2012). Text Book of Environmental Studies. Cengage Learning India Pvt. Ltd., Delhi
10. Eugene P. Odum and Gary W. Barrett (2004). Fundamentals of Ecology. Cengage Learning; 5 edition.

COREPAPER 7

Biological Diversity in Human Populations

Theory

Unit I: Concept of Biological Variability; Sources of Genetic Variation; Structuring Genetic Variation; Interpretation of Human Variation, Genetic Polymorphism (Serological, Biochemical and DNA Markers).

Unit II: Concept of Race and UNESCO Statement on Race, A Comparative account of various races of the world. A critical appraisal of contribution of Risley, Guha, Rickstett and Sarkar towards understanding ethnic elements in the Indian populations.

Unit III: Demographic Anthropology: meaning and scope, Sources of Demographic Data, Demographic Processes, Demographic profile of Indian populations and its growth structure. National population policy.

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

Practical (Any Two)

1. Craniometric Measurements (Skull & Mandible)
2. Determination of B, O; and Rh 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.

Text book recommended:

1. Shukla B.R.K. & Rastogi, S. 1990. *Physical Anthropology & Human Genetics: An Introduction*. PlakaPrakashan. Delhi.
2. Das B.M. 2008. *Outlines of Physical Anthropology*. Kitab Mahal, New Delhi.
3. Sarkar, R. M. 2004. *Fundamentals of Physical Anthropology* (New Edition).Book World. Kolkata.
4. Mukherji, D., D. Mukherjee and P. Bharti and A .Mukhopadhyaya. 2018. *Laboratory Manual for Biological Anthropology: Revised and Enlarged 2nd Edition*. SCHOLAR Booksellers & Publishers, Kolkata.

Text book recommended:

1. Shukla B.R.K. & Rastogi, S. 1990. *Physical Anthropology & Human Genetics: An Introduction*. PlakaPrakashan. Delhi.
2. Das B.M. 2008. *Outlines of Physical Anthropology*. Kitab Mahal, New Delhi.
3. Sarkar, R. M. 2004. *Fundamentals of Physical Anthropology* (New Edition).Book World. Kolkata.
4. Mukherji, D., D. Mukherjee and P. Bharti. 2009. *Laboratory Manual for Biological Anthropology*. Asian Books Pvt. Ltd., New Delhi.

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 kilgoreWendaTrevathan 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 Wiley & 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. Bhende A. and Kaniikar, T. (2010) *Principles of Population Studies*. Himalaya Publishing House. Mumbai (All Units, It covers most to

COREPAPER 8

Theories of Culture and Society

Theory

Unit I: Emergence of Anthropology: Interface with evolutionary theory and colonialism, 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; Symbolism and Interpretative approach.

Practical

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

Text Book Recommended:

- 1.. Behura, N.K. Anthropological thought and Theories ,New Delhi
2. Geertz, C. 1973. *The Interpretation of Culture*, New York: Basic Books.
- 3.. Harris, M. 1969. *The Rise of Anthropological Theory*, London: Routledge and Kegan paul.
4. Honnigman, J. J. (Ed). 1997, *A Hand Book of Social and Cultural Anthropology*, Vol-II, University of North Carolina, New Delhi: Rawat Publications
5. Kroeber, A. L. 1953. *Anthropology Today: An Encyclopedic Inventory*. Chicago
6. Levi-Strauss, C. 1983, *Structural Anthropology*, Chicago: University of Chicago Press
7. Manners and Kaplan (Ed). 1968. *Theory in Anthropology: A Course Book*, Chicago: Aldine Publishing Company
8. Morgan, L. H. 1963. (Originally 1877), *Ancient Society*, New York
9. Merton, R. K. 1957, *Social Theory and Social Structure*, New York
10. Radcliffe-Brown, A. R. 1952, *Structure and Function in Primitive Society*. New York: Free Press

COREPAPER 9
Human Growth and Development

Theory

Unit I: Concept of human growth, development, differentiation and maturation; Evolutionary perspective on human growth.

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

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 IV: Human physique and body composition – models and techniques; gender and ethnic differences; Somatotyping and human physique with reference to Sheldon, Parnell, Heath and Carter methods.

Practical (Any two)

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

Suggested Text Books

Text book recommended:

1. Das B.M. 2008. *Outlines of Physical Anthropology*. Kitab Mahal, New Delhi.

2. Mukherji, D., D. Mukherjee and P. Bharti and A .Mukhopadhyaya. 2018. *Laboratory Manual for Biological Anthropology: Revised and Enlarged 2nd Edition*. SCHOLAR Booksellers & Publishers, Kolkata.

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.

CORE PAPER10

Research Methods

Theory

Unit I: Field work 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 II: Research Design, Review of literature, conceptual framework, formulation of research problem, formulation of hypothesis, sampling and reference. Genealogy; data analysis and report writing- Chapterization, preparing a text for submission and publication, concepts of preface, notes (end and footnotes), bibliography (annotated) and references cited,

review and index.

Unit III: Ethics and Politics of Research, ethical issues in the context of human subject research; privacy and confidentiality in research; Issues of academic fraud and plagiarism, conflicts of interest, authorship and publication.

Unit IV: Basic tenets of qualitative research and its relationship with quantitative research; Types of variables, presentation and summarization of data (tabulation and illustration). Descriptive statistics- Measurers of Central Tendency, standard deviation,

Practical

1. Construction of Genealogy & Pedigree Analysis.
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.

Text book Recommended

1. Garrard E and Dawson A. What is the role of the research ethics committee? Paternalism

Suggested Readings

2. Garrard E and Dawson A. What is the role of the research ethics committee? Paternalism,
3. inducements, and harm in research ethics. Journal of Medical Ethics 2005; 31: 419-23.
4. Bernard H.R. Research Methods in Anthropology, Qualitative and Quantitative
5. Approaches. Jaipur: Rawat Publications. 2006.
6. Madrigal L. Statistics for Anthropology. Cambridge: Cambridge University Press. 2012.
7. Zar JH. Biostatistical Analysis. Prentice Hall. 2010.
8. Michael A. The Professional Stranger. Emerald Publishing. 1996.
9. Bernard R. Research Methods in Anthropology: Qualitative and Quantitative
10. Approaches. AltaMira Press. 2011.
11. Emerson RM, Fretz RI and Shaw L. Writing Ethnographic Field notes. Chicago,
12. University of Chicago Press. 1995.
13. Lawrence NW. Social Research Methods, Qualitative and Quantitative Approaches.
14. Boston: Allyn and Bacon. 2000.
15. O'reilly K. Ethnographic Methods. London and New York: Routledge. 2005.
16. Patnaik S.M. Culture, Identity and Development: An Account of Team Ethnography
17. among the Bhil of Jhabua. Jaipur: Rawat Publications. 2011.

18. Peltó PJ and Peltó GH. Anthropological Research, The Structure of Inquiry. Cambridge: Cambridge University Press. 1978.
19. Cambridge University Press. 1978.
20. Sarantakos S. Social Research. London: Macmillan Press. 1998

CORE PAPER11
Prehistoric Archaeology of India

Theory

Unit I: Pleistocene chronology of India; Palaeolithic cultures in India.

Palaeolithic cultures in India: Lower Palaeolithic cultures – evidences from Kashmir Valley and Peninsular India), Middle Palaeolithic culture in India, Upper Palaeolithic culture in India (characteristic features, major tool types, important sites, chronology with stratigraphic evidences). Some important sites of Odisha may be discussed on the above cultural periods.

Unit II: Mesolithic cultures in India.

Mesolithic cultures in India (characteristic features, major tool types, important regions and sites, chronology with stratigraphic evidences (some important sites of Odisha may be discussed on above cultural periods).

Unit III: Neolithic cultures in India.

Neolithic culture in India (characteristic features, major tool types, important regions and sites, chronology with stratigraphic evidences (some important sites of Odisha may be discussed on above cultural periods).

Unit IV: Rock art of India.

Prehistoric Art in India with special reference to Central India and Odisha.

Practical

1. Identification of tools:
 - (a) Hand axe varieties, chopper/chopping tools
 - (b) Cleaver varieties
 - (c) Side scraper varieties
 - (d) Knives e) Burins(f) End scrapers(g) Borer(h) Microlithic tools
 - (i) Bone tools
2. Identification of lithic technology.

Text Books Recommended:

1. Bhattacharya, D. K.1990, *An Introduction to Prehistoric Archaeology*. Delhi: Hindustan

Publishing Corporation.

2. Bhattacharya, D. K.1990, *An Outline of Indian Prehistory. Delhi: PalakaPrakashan.*

Suggested Reading:

1. Agarwal, D. P.1984, *Archaeology of India.* New Delhi: Select Book Services Syndicate.
2. Allchin, Briget. and Raymond Allchin,1982. *The Rise of Civilization in India and Pakistan.*Cambridge: Cambridge University Press.
3. Allchin, B. and R. Allchin, 1997. *Origins of Civilization: The Prehistory and Early Archaeology of South Asia.* New Delhi. Viking by Penguin Books India (P) Ltd.
4. Bhattacharya, D. K.1990, *An Introduction to Prehistoric Archaeology.* Delhi; Hindustan Publishing Corporation
5. Bhattacharya, D. K.2001. *AnOutline of Indian Prehistory.* Delhi: PalakaPrakashan.
6. Chakrabarti, D.K. 2001. *India: An Archaeological History: Palaeolithic Beginning to Early Historic Foundation.* New Delhi: Oxford University press.
7. Jain, V.K.2009, *Prehistory and Protohistory of India.* New Delhi: D.K. Printworld (P) Ltd.
8. Paddayya, K. (Ed.), 2002, *Recent Studies in Indian Archaeology.* New Delhi.
9. Pappu R. S.2001, *Aheulian Culture in Peninsular India-- An Ecological Perspective,* New Delhi: D.K. Printworld (P) Ltd.
- 10.Rammi Reddy, V.1987, *Elements of Prehistory.* New Delhi: Mittal Publications.
- 11.Rammi Reddy, V.1989, *Palaeolithic and Mesolithic Cultures.* New Delhi: Mittal Publications.
- 12.Rammi Reddy, V.1991, *Neolithic and Post-Neolithic Cultures.* New Delhi: Mittal Publications.
- 13.Sankalia, H.D.1974. *Prehistory and Protohistory of India and Pakistan.* Pune: Deccan College.
- 14.Sankalia (1982) *Stone Tool Type and Technology.* Delhi, B.R.Publication.
- 15.Settar, S. and R. Korisettar (Ed), 2001, *Indian Archaeology in Retrospect, Vol.1: PREHISTORY Archaeology of South Asia.* New Delhi: Manohar in association with Indian Council of Historical Research.

COREPAPER 12

Anthropology in Practice

Theory

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, Business 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: 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

1. The students will visit a NGO or corporate office or census office in Odisha 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. 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.

Text Books Recommended:

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

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 Practice*, 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

CORE PAPER13

Forensic Anthropology

Theory

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

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 skeletal 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. Forensic Odontology-Tooth Structure and Growth, Bite Marks, and DNA Profiling.

Practical

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.

Text book recommended:

1. Mukherji, D., D. Mukherjee and P. Bharti and A .Mukhopadhy. 2018. *Laboratory Manual for Biological Anthropology: Revised and Enlarged 2nd Edition*. SCHOLAR Booksellers & Publishers, Kolkata.

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.
 10. Nath, Surendra . *Forensic Anthropology*. Kitab Mahal, New Delhi.

COREPAPER 14

Fieldwork and Dissertation

Empirical study among the tribal, rural and urban communities of Odisha is to be conducted for a minimum period of 21 days in semester VI under the guidance of a teacher or teachers. Two copies of dissertations are to be submitted for examination on the basis of fieldwork and presentation of seminar. The Examination of Dissertation shall be conducted by an internal and an external examiner.

Mid-term Examination

= 15 marks

(Seminar presentation by the student based on his/her fieldwork/field topic)

End-term Examination

Dissertation based on 21 days fieldwork

=60 marks

Field diary (15 marks) and

=25 marks

Viva-voce (10 marks)

*The dissertation has to be submitted by the student positively before the end semester examination. The dissertation will be evaluated both by the internal and external examiners

DSE 1-COMPULSORY
Anthropology of Religion, Politics and Economy

Theory

Unit I: Anthropological approaches to understand religion- magic, animism, animatism, totemism, naturism; witchcraft and sorcery; Religious specialists: shaman, priests, mystics; Overview of Anthropological Theories of Religion; Religion as the sacrality of ecological adaptation and socialness

Unit II: Economic institutions: principles of production, distribution, and consumption in simple and complex societies; critical examination of relationship between economy and society through neo-classical, substantivist, and neo-marxist approaches, various forms of exchange: barter, trade and market; Forms of currencies; reciprocities: generalized, balanced and negative.

Unit III: Political institutions: concepts of power and authority; types of authority; state and stateless societies; law and justice in simple and complex societies; the prospects for democracy and tolerance among and within the world's diverse civilizations; the meaning and sources of identity in complex contemporary societies; the origins of modern politics, its institutions, and cultures, both Western and non-Western.

Unit IV: Interrelationship between religion, politics and economy; religious conversion and movements, emergence of new religious sects in the global order.

Practical

1. Case study of any of the social institute (religion, economic, political) with respect to culture perspective

Text book recommended:

1. Barbara M. (2011). Cultural Anthropology. New Jersey: Pearson Education.
2. Ember C.R. (2011). Anthropology. New Delhi: Dorling Kinderslay

Suggested Readings:

2. Durkheim E. (1986). The elementary forms of the religious life, a study in religious sociology. New York: Macmillan.
3. Benedict A. (2006). Imagined Communities: Reflections on the Origin and Spread of Nationalism. Verso
4. Gledhill J. (2000). Power and Its Disguises: Anthropological Perspectives on Politics. 2nd ed. London: Pluto Press.
5. Ellis F. (2000). A framework for livelihood analysis. In Rural Livelihoods and Diversity in

Developing Countries . Oxford: Oxford University Press.

6. Henrich J, Boyd R, Bowles S, Camerer C, Fehr E, Gintis H, McElreath R, Alvard M et al. (2005). 'Economic Man' in cross-cultural perspective: Behavioral experiments in 15 small-scale societies. *Behavior and Brain Science*. 28(6):795-815;
7. Henrich J. (2002). Decision-making, cultural transmission, and adaptation in economic anthropology. In: J. Ensminger (Ed.), *Theory in Economic Anthropology* (pp. 251-295). Walnut Creek, CA: Altamira Press.
8. Lambek. M. (2008) *A Reader in the Anthropology of Religion*.
9. Eller JD. (2007). *Introducing Anthropology of Religion*. New York: Routledge.
10. Glazier SD. (1997). *Anthropology of Religion: A Handbook*. Westport, CT: Greenwood Press.
11. Frick GD and Langer R. (2010). *Transfer and Spaces*. Harrassowitz (Germany).
12. Evans-Pritchard EE. (1937). *Witchcraft, Oracles and Magic among the Azande*, Oxford: Clarendon Press.
13. Frazer JG. (1978). *The Illustrated Golden Bough*, London: Macmillan.
14. Barbara M. (2011). *Cultural Anthropology*. New Jersey: Pearson Education.
15. Ember CR. (2011). *Anthropology*. New Delhi: Dorling Kinderslay.
16. Herskovits MJ. (1952). *Economic Anthropology: A Study in Comparative Economics*. New York: Alfred A Knopf Inc.
17. Malinowski B. (1922) *Argonauts of the Western Pacific*. London: Routledge.
18. Polyani K. et al (1957), *Trade and Market in the Early Empires*. Chicago: Henry Regnery Company.
19. Balandier G. (1972). *Political Anthropology*. Middlesex: Penguin

DSE-2-COMPULSORY

Tribal cultures of India

Theory

Unit I: Concept of tribes and its problematic nature, General and specific characteristics of tribes, Classification and distribution of tribes based on their economy, occupation and religion, Racial elements among the tribes, Scheduled and non-scheduled categories of tribes, Particularly Vulnerable Tribal Groups (PVTGs).

Unit II: Tribe- caste continuum, Gender and Tribe, Distribution of tribes in India.

Unit III: Tribes: Nomenclature- emic and etic differences; Tribal movements, Problems of tribal development.

Unit IV: Forest policies and tribes, Migration and occupational shift, Tribal arts and

aesthetics Displacement, rehabilitation and social change Globalization among Indian tribes.

Practical

1. Distribution of Indian Tribes: PVTGs, ST
2. Location of different tribes on the map of India
3. Write an annotated bibliography on any one tribe
4. Write the social structure of any one tribe of India

Text book recommended:

1. Vidyarthi L.P and Rai B.K.. (1976). The tribal culture of India. Concept Publishing Co, Delhi

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

Suggested Readings

1. Bhende A. and Kaniikar, T. (2010) *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*. BanarsidasBhanot, 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. Riley N.E. and Mc Carthy, J. (2003) *Demography in the Age of the Postmodern*. Cambridge University press. UK. Pages 1-13 and 32-98

13. Sharma A.K. (1979) Demographic transition: A Determinant of Urbanization. *Social Change* 9: 13-
14. Srivastava O.S. (1996) *Demographic and Population Studies*. Vikas Publishing House, India
15. Zubrow E.B.W. (1976) *Demographic anthropology. Quantitative approaches*. University of New Mexico Press, Albuquerque.
16. <http://human-nature.com/dm/chap3.html>
17. <http://biography.yourdictionary.com/john-graunt>
18. <http://www.marathon.uwc.edu/geography/demotrans/demtran.htm>

DSE-3-OPTIONAL

Anthropology of India

Theory

Unit I: Origin, history and development of Anthropology in India, approaches to study Indiansociety and culture- traditional and contemporary Racial and linguistic elements in Indian population.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 andtheir underlying philosophies; Contribution of contemporary biological, social and archaeologicalanthropologists in India.

Unit II: Aspects of Indian Village –social organisation, agriculture and impact of marketeconomy on villages; Tribal situation in India- biogenetic variability, linguistic and socio-economiccharacteristics; Problems of tribal peoples, land-alienation, indebtedness, lack ofeducational facilities, shifting-cultivation, migration, forests and tribal unemployment,health and nutrition, tribal movement and quest for identity

Unit-III: Developmental projects- tribal displacements and rehabilitation problem; Impact of culture-contact, urbanization and industrialization on tribal and rural Population ; Basic concepts -Great tradition and little tradition, sacred complex, Universalization andparochialization, Sanskritization and Westernization, Dominant caste, Tribe-caste; continuum, Nature-Man-Spirit complex, pseudotribalism.

Unit IV: Problems of exploitation and deprivation of scheduled caste/ tribe and Other Backward

Classes. Constitutional Provisions for the Scheduled caste and scheduled tribes, Evaluation and Development of Indian Population; Human Rights, Protection and enforcement of human rights, Human rights of special category and marginal groups, Emerging trends of human

rights with respect to terrorism, globalization and environment.

Practical

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.

Text book recommended:

1. Dube SC. (1992). Indian Society. National Book Trust, India : New Delhi.
2. Malhotra K.C. (1978). Morphological Composition of people of India. J. Human Evolution.
3. Trautmann T.R (2011). India: Brief history of Civilization. Oxford University Press : Delhi

Suggested Reading

1. Nicholas D. (2001). Castes of Mind: Colonialism and the Making of Modern India. Princeton University Press.
2. Bernard C.S. (2000). India: The Social Anthropology of Civilization. Delhi: Oxford University Press.
3. Bhasin M.K, 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 D.S. (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. 9. Vidyarthi L.P and Rai B.K.. (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, D.N. (1901). Races and Culture of India. Asia Publishing House, Bombay
13. Dumont, L. (1980). Homo Hierarchicus. University of Chicago Press.
14. Guha B.S. (1931). The racial attributes of people of India. In : Census of India, 1931, vol I, Part III (BPO, Simla)

DSE-4-OPTIONAL
Human Genetics

Theory

Unit I: Human Genetics: Meaning and Scope; Structure and Function DNA and RNA, DNA replication, repair and recombination, Concept of Human genome and codon.

Unit II: Gene expression, Expression of genetic information from Transcription to Translation, RNA processing, encoding genetic information

Unit III: Methods of studying heredity: Twin method, Pedigree method and Sib- pair method; Heritability estimate; Human Cytogenetics: Chromosome Karyotypes, Banding Techniques and Molecular cytogenetic, Polygenic Inheritance in Man, Concept of non-mendelian inheritance and complex diseases.

Unit IV: Population Genetics: Hardy-Weinberg Law and its application. Genomic Diversity & Human Evolution Genomic Variation: Genomic Polymorphisms (SNPs, VNTR, CNVs, etc); haplotypes and haplogroups; genotype-phenotype correlations, epigenetics, Peopling of the Indian Subcontinent: Evidence from *mtDNA* and Y-chromosome.

Practical (Any two)

1. Blood group typing-A1, A2, B, O, MN and Rh (D) blood groups
2. Color Blindness
3. Glucose-6-phosphate dehydrogenase deficiency (G6PD)
4. PTC tasting ability
6. Gel Documentation
5. Biochemical markers-DNA isolation and polymerase chain reaction (PCR)

Text book recommended:

1. Shukla B.R.K. & Rastogi, S. 1990. *Physical Anthropology & Human Genetics: An Introduction*. PlakaPrakashan. Delhi.
2. Das B.M. 2008. *Outlines of Physical Anthropology*. Kitab Mahal, New Delhi.
3. Mukherji, D., D. Mukherjee and P. Bharti and A .Mukhopadhyaya. 2018. *Laboratory Manual for Biological Anthropology: Revised and Enlarged 2nd Edition*. SCHOLAR Booksellers & Publishers, Kolkata.

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. Cummings Michael R. (2009). Human Genetics. Cengage Learning India Pvt. Ltd, Delhi.
7. Cummings MR (2011). Human Heredity: Principles and Issues. Brooks/Cole, Cengage Learning
8. Giblett, ER. (1969). Genetic Markers in Human Blood. Blackwell Scietific, Oxford.
9. Jobling M, Hurls M and Tyler-Smith C. (2004). Human Evolutionary Genetics: Origins, Peoples & Disease. New York: Garland Science.
10. Lewis R. (2009). Human Genetics: Concepts and Application. The McGraw–Hill Companies, Inc.
11. Patch C. (2005). Applied Genetics in Healthcare. Taylor & Francis Group
12. Snustad .D.P. and Simmons M.J. (2006). Principles of Genetics, Fourth Edition, John Wiley & Sons USA
13. 14. Verma, P.S. and V.K. Aggarwal (1974). Cell Biology, Genetic, Molecular Biology, Evolution and Ecology. S.Chand and Company Pvt. Ltd., New Delhi.
14. Vogel F. and Motulsky A.G. (1996). Human Genetics. Springer, 3rd revised edition.
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. 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.

DSE-5-OPTIONAL

Medical Anthropology

Theory

Unit-I: 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 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 – II: 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; Chronic Disease, Injury, Stress, and Mental 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 –III: 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; Healing and Healers in Cross-Cultural Perspectives; 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.

Unit – IV: 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

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.

Text book recommended:

1.Rajesh Khanna and A.K. Kapoor. 2007. Ethnic Groups and Health Dimensions. Discovery Publishing House, New Delhi.

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.

DSE-6-OPTIONAL

Demographic Anthropology

Theory

Unit I: Demographic Anthropology; Introduction, definition and basic concepts Relationship between demography, population studies and anthropology Population Theories: John Graunt, Thomas R. Malthus; Biological theory of population; Theory of demographic transition.

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

Unit III: 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.

Unit IV: National policies; National Population Policy; National Health Policy; National Policy on Reproductive Health Care.

Practical

A student will collect and compile demographic data from different secondary sources on any given topic by the concerned teacher and a project report will be submitted for its evaluation.

Text book recommended:

1. Bhende A. and Kanitkar, T. (2010) *Principles of Population Studies*. Himalaya Publishing House. Mumbai (All Units, It covers most topics)
2. Sinha V C and Zacharia E, (2010). *Elements of Demography*, 2nd Ed. New Delhi: Allied Publishers

Suggested Readings

1. Caldwell J.C. (2006). *Demographic Transition Theory*. Springer.
2. Census of India (2001,2011), SRS bulletin (2013), NFHS (2006), CRS, NSSO (Can be seen from browsing net)
3. Gautam R.K., Kshatriya, G.K. and Kapoor A.K. (2010) *Population Ecology and Family Planning*. Serials publications. New Delhi.
4. Howell N. (1986) Demographic Anthropology. *Ann. Rev. Anthropol.* 15: 219-246
5. Kshatriya G.K. (2000). Ecology and health with special reference to Indian tribes. *Human Ecology special volume 9:229-245*.
6. Kshatriya G.K., Rajesh,G. and Kapoor , A.K. (2010) Population Characteristics of Desert Ecology.VDM Verlag Dr. Muller Gmbh and Co., Germany.
7. Misra BD (1982). *An introduction to the study of population*. South Asia publ. ltd. New

Delhi.

8. National Population Policy <http://populationcommission.nic.in/npp.htm>
9. Park K. (2000) *Text book of Preventive and Social Medicine*. BanarsidasBhanot, Jabalpur.
10. Patra P.K. and Kapoor, A.K. (2009) *Demography And Development Dynamics in a Primitive Tribe of Himalayas*. International Book Distributors, Dehradun
11. Riley N.E. and Mc Carthy, J. (2003) *Demography in the Age of the Postmodern*. Cambridge University press. UK. Pages 1-13 and 32-98
12. Sharma A.K. (1979) Demographic transition: A Determinant of Urbanization. *Social Change* 9: 13-14. Srivastava O.S. (1996) *Demographic and Population Studies*. Vikas Publishing House, India
13. Zubrow E.B.W. (1976) *Demographic anthropology. Quantitative approaches*. University of New Mexico Press, Albuquerque.
14. <http://human-nature.com/dm/chap3.html>
15. <http://biology.yourdictionary.com/john-graunt>
16. <http://www.marathon.uwc.edu/geography/demotrans/demtran.htm>

GENERIC ELECTIVE-1

Introduction to Biological Anthropology

Theory

Unit I: History of Physical Anthropology and development of Modern Biological anthropology, aim, scope and its relationship with allied disciplines; Difference in the approaches of modern and traditional Biological Anthropology.

Unit II: History and development of understanding human evolution (pre-19th and post-19th Century); Theories of evolution: Lamarckism, Darwinism, Synthetic theory, and Mutation theory.

Unit III: Primates: General Characteristics, Distribution and Classification of Non human living primates. Comparative anatomy and behaviour of human and non-human primates.

Unit IV: Structure and function of an animal cell; cell theory and cell division (Mitosis and Meiosis), Mendel's Laws of inheritance and its application to man.

Practical

Osteology

Introduction to Anthropology Laboratory: Dry Lab and Wet Lab, Calibration and

Standardization of Instruments, Demonstration of Instruments: Anthropometry, Spreading Calliper, Sliding Calliper, Weighing Machine and Steel tape.

Somatometry

- | | |
|-------------------------|--------------------------------|
| 1. Stature | 6. Maximum bizygomatic breadth |
| 2. Sitting height | 7. Bigonial breadth |
| 3. Body weight | 8. Morphological facial height |
| 4. Maximum head length | 9. Head circumference |
| 5. Maximum head breadth | 10. Minimum frontal breadth |

Text book recommended:

1. Shukla B.R.K. & Rastogi, S. 1990. *Physical Anthropology & Human Genetics: An Introduction*. PlakaPrakashan. Delhi.
2. Das B.M. 2008. *Outlines of Physical Anthropology*. Kitab Mahal, New Delhi.
3. Sarkar, R. M. 2004. *Fundamentals of Physical Anthropology* (New Edition).Book World. Kolkata.
4. Mukherji, D., D. Mukherjee and P. Bharti and A .Mukhopadhy. 2018. *Laboratory Manual for Biological Anthropology: Revised and Enlarged 2nd Edition*. SCHOLAR Booksellers & Publishers, Kolkata.

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). *Introduction to Physical Anthropology* Wadsworth Publ., USA.
2. Stanford C., Allen J.S. and Anton S.C. (2010). *Exploring Biological Anthropology. The Essentials*. Prentice Hall Publ, USA.
- 3.

GENERIC ELECTIVE-2

Introduction to Socio-cultural Anthropology Theory

Unit I: Anthropological perspective and orientation; Scope and relevance of Social Anthropology;Relationship of Social Anthropology with other disciplines.Its distinction from sociology.

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

Unit III: Social organization; social structure; social function; social system.

Unit IV: Theory and practice of ethnographic fieldwork; survey method; comparative and historical
Methods

Practical

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

Text book recommended:

1. Ember C. R. et al. (2011). *Anthropology*. New Delhi: Dorling Kindersley.
2. Haviland, Prins, Walrath, McBride (2007). *Introduction to Anthropology*. Cengage Learning India Pvt. Ltd., New Delhi
3. Haviland, Prins, Walrath, McBride (2008). *Cultural Anthropology*. Cengage Learning India Pvt. Ltd., New Delhi

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.
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.

GENERIC ELECTIVE-3

Archaeological Anthropology

Theory

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: Radiocarbon¹⁴ dating (C¹⁴), Potassium-Argon, Dendochronology, Fission Track Dating; Relative dating methods: Stratigraphy, Palaeontology, Palynology.

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 of fabrication techniques; Earliest evidence of culture in the world: Konso, Olorgesaille, Olduvai Gorge, Pirro Nord, Damanisi, Attirampakkam, Isampur, Kuliana.

Practical

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

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

Text book recommended:

1. Bhattacharya D.K. (1978). *Emergence of Culture in Europe*, Delhi, B.R. Publication.
2. Bhattacharya D.K. (1979). *Old Stone Age Tools and Techniques*. Calcutta, K.P. Bagchi Company
3. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College

1.

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. Renfrew, C. and Paul Bahn Archaeology 1996
9. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College

GENERIC ELECTIVE-4

Anthropology of India

Theory

Unit I: Origin, history and development of Anthropology in India, approaches to study Indiansociety and culture- traditional and contemporary Racial and linguistic elements in Indian population.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 andtheir underlying philosophies; Contribution of contemporary biological, social and archaeologicalanthropologists in India.

Unit II: Aspects of Indian Village –social organisation, agriculture and impact of marketeconomy on villages; Tribal situation in India- biogenetic variability, linguistic and socio-economiccharacteristics; Problems of tribal peoples, land-alienation, indebtedness, lack ofeducational facilities, shifting-cultivation, migration, forests and tribal unemployment,health and nutrition, tribal movement and quest for identity

Unit-III: Developmental projects- tribal displacements and rehabilitation problem; Impact of culture-contact, urbanization and industrialization on tribal and rural Population ; Basic concepts -Great tradition and little tradition, sacred complex, Universalization andparochialization, Sanskritization and Westernization, Dominant caste, Tribe-caste; continuum, Nature-Man-Spirit complex, pseudotribalism.

Unit IV: Problems of exploitation and deprivation of scheduled caste/ tribe and Other Backward

Classes. Constitutional Provisions for the Scheduled caste and scheduled tribes, Evaluation and Development of Indian Population; Human Rights, Protection and enforcement of human rights, Human rights of special category and marginal groups, Emerging trends of human rights with respect to terrorism, globalization and environment.

Practical

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. 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.

FOR B.A/B.SC PASS

S. No.	Discipline Specific Core (DSC) Courses	Total-100 Theory-60 Mid Term-15 Practical-25	Total Credit- 6 Theory-4 Practical-2
DSC 1.	Introduction to Biological Anthropology	100	6
DSC 2.	Introduction to Socio-cultural Anthropology	100	6
DSC 3.	Archaeological Anthropology	100	6
DSC 4.	Anthropology of India	100	6
DSE 1	Anthropology of Religion, Politics and Economy	100	6
DSE 2	Tribal Cultures of India	100	6

Discipline Specific Core – 4 papers

Discipline Specific Elective – 2 papers

Marks per paper - Midterm : 15 marks, End term : 60 marks, Practical-25 Total – 100 marks

Credit per paper – Theory-4 Practical-2 Total-6

Teaching hours per paper – 40 hours (theory) + 10 hours (practical)

Introduction to Biological Anthropology

Theory

Unit I: History of Physical Anthropology and development of Modern Biological anthropology, aim, scope and its relationship with allied disciplines; Difference in the approaches of modern and traditional Biological Anthropology.

Unit II: History and development of understanding human evolution (pre-19th and post-19th Century); Theories of evolution: Lamarckism, Darwinism, Synthetic theory, and Mutation theory.

Unit III: Primates: General Characteristics, Distribution and Classification of Non human living primates. Comparative anatomy and behaviour of human and non-human primates.

Unit IV: Structure and function of an animal cell; cell theory and cell division (Mitosis and Meiosis), Mendel's Laws of inheritance and its application to man.

Practical

Osteology

Introduction to Anthropology Laboratory: Dry Lab and Wet Lab, Calibration and Standardization of Instruments, Demonstration of Instruments: Anthropometry, Spreading Calliper, Sliding Calliper, Weighing Machine and Steel tape.

Somatometry

- | | |
|-------------------------|--------------------------------|
| 1. Stature | 6. Maximum bizygomatic breadth |
| 2. Sitting height | 7. Bigonial breadth |
| 3. Body weight | 8. Morphological facial height |
| 4. Maximum head length | 9. Head circumference |
| 5. Maximum head breadth | 10. Minimum frontal breadth |

Text book recommended:

1. Shukla B.R.K. & Rastogi, S. 1990. *Physical Anthropology & Human Genetics: An Introduction*. PlakaPrakashan. Delhi.
2. Das B.M. 2008. *Outlines of Physical Anthropology*. Kitab Mahal, New Delhi.
3. Sarkar, R. M. 2004. *Fundamentals of Physical Anthropology* (New Edition).Book World. Kolkata.
4. Mukherji, D., D. Mukherjee and P. Bharti and A .Mukhopadhy. 2018. *Laboratory Manual for Biological Anthropology: Revised and Enlarged 2nd Edition*. SCHOLAR Booksellers & Publishers, Kolkata.
- 5.

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). Introduction to Physical Anthropology Wadsworth Publ., USA.
2. Stanford C., Allen J.S. and Anton S.C. (2010). Exploring Biological Anthropology. The Essentials. Prentice Hall Publ, USA.
- 3.

DSC 2

Introduction to Socio-cultural Anthropology

Theory

Unit I: Anthropological perspective and orientation; Scope and relevance of Social Anthropology; Relationship of Social Anthropology with other disciplines. Its distinction from sociology.

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

Unit III: Social organization; social structure; social function; social system.

Unit IV: Theory and practice of ethnographic fieldwork; survey method; comparative and historical Methods.

Practical

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. Haviland, Prins, Walrath, McBride (2007). *Introduction to Anthropology*. Cengage Learning India Pvt. Ltd., New Delhi
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 9. Karen O'reilly. (2012). '*Practical Issues in Interviewing*' *Ethnographic Methods*. Abingdon: Routledge
 10. Lang G. (1956). 'Concept of Status and Role in Anthropology: Their Definitions and Use. *The American Catholic Sociological Review*, 17(3): 206-218
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 12. Parsons T. (1968). *The Structure of Social Action*. New York: Free Press
 13. Rapport N. and Overing J. (2004). *Key Concepts in Social and Cultural Anthropology*. London: Routledge.
 13. Royal Anthropological Institute of Great Britain and Ireland (1971). '*Methods*' In *Notes and Queries on Anthropology*. London: Routledge & Kegan Paul Ltd.

DSC-3

Archaeological Anthropology

Theory

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: Radiocarbon¹⁴ dating (C¹⁴), Potassium-Argon, Dendochronology, Fission Track Dating; Relative dating methods: Stratigraphy, Palaeontology, Palynology.

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 of fabrication techniques; Earliest evidence of culture in the world: Konso, Olorgesaille, Olduvai Gorge, Pirro Nord, Damanisi, Attirampakkam, Isampur, Kuliana.

Practical

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

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

Text book recommended:

1. Allchin and Allchin (1993). *The Rise of Civilization of India and Pakistan*. Cambridge University Press

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. Renfrew, C. and Paul Bahn Archaeology 1996
9. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College

DSC-4

Anthropology of India

Theory

Unit I: Origin, history and development of Anthropology in India, approaches to study Indiansociety and culture- traditional and contemporary Racial and linguistic elements in Indian population.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 andtheir underlying philosophies; Contribution of contemporary biological, social and archaeologicalanthropologists in India.

Unit II: Aspects of Indian Village –social organisation, agriculture and impact of marketeconomy on villages; 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

Unit-III: Developmental projects- tribal displacements and rehabilitation problem; Impact of culture-contact, urbanization and industrialization on tribal and rural Population ; 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: Problems of exploitation and deprivation of scheduled caste/ tribe and Other Backward

Classes. Constitutional Provisions for the Scheduled caste and scheduled tribes, Evaluation and Development of Indian Population; Human Rights, Protection and enforcement of human rights, Human rights of special category and marginal groups, Emerging trends of human rights with respect to terrorism, globalization and environment.

Practical

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 Hierarchicus. University of Chicago 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

DSE 1

Anthropology of Religion, Politics and Economy

Theory

Unit I: Anthropological approaches to understand religion- magic, animism, animatism, totemism, naturism; witchcraft and sorcery; Religious specialists: shaman, priests, mystics; Overview of Anthropological Theories of Religion; Religion as the sacrality of ecological adaptation and socialness

Unit II: Economic institutions: principles of production, distribution, and consumption in simple and complex societies; critical examination of relationship between economy and society through neo-classical, substantivist, and neo-marxist approaches, various forms of exchange: barter, trade and market; Forms of currencies; reciprocities: generalized, balanced and negative.

Unit III: Political institutions: concepts of power and authority; types of authority; state and stateless societies; law and justice in simple and complex societies; the prospects for democracy and tolerance among and within the world's diverse civilizations; the meaning and sources of identity in complex contemporary societies; the origins of modern politics, its institutions, and cultures, both Western and non-Western.

Unit IV: Interrelationship between religion, politics and economy; religious conversion and movements, emergence of new religious sects in the global order

Practical

1. Case study of any of the social institute (religion, economic, political) with respect to culture perspective

Text book recommended:

1. Barbara M. (2011). Cultural Anthropology. New Jersey: Pearson Education.
2. Ember C.R. (2011). Anthropology. New Delhi: Dorling Kinderslay.

Suggested Readings:

2. Durkheim E. (1986). The elementary forms of the religious life, a study in religious sociology. New York:Macmillan.
3. Benedict A. (2006). Imagined Communities: Reflections on the Origin and Spread ofNationalism. Verso
4. Gledhill J. (2000). Power and Its Disguises: Anthropological Perspectives on Politics. 2nd ed. London: Pluto Press.
5. Ellis F. (2000). A framework for livelihood analysis. In Rural Livelihoods and Diversity in Developing Countries . Oxford: Oxford University Press.
6. Henrich J, Boyd R, Bowles S, Camerer C, Fehr E, Gintis H, McElreath R, Alvard M et al. (2005). ‘Economic Man’ in cross-cultural perspective: Behavioral experiments in 15 small-scale societies. Behavior and Brain Science. 28(6):795-815;
7. Henrich J. (2002). Decision-making, cultural transmission, and adaptation in economic anthropology. In: J. Ensminger (Ed.), Theory in Economic Anthropology (pp. 251-295). Walnut Creek, CA: Altamira Press.
8. Lambek. M. (2008) A Reader in the Anthropology of Religion.
9. Eller JD. (2007). Introducing Anthropology of Religion. New York: Routledge.
10. Glazier SD. (1997). Anthropology of Religion: A Handbook. Westport, CT: Greenwood Press.
11. Frick GD and Langer R. (2010). Transfer and Spaces. Harrassowitz (Germany).
12. Evans-Pritchard EE. (1937). Witchcraft, Oracles and Magic among the Azande, Oxford: Clarendon Press.
13. Frazer JG. (1978). The Illustrated Golden Bough, London: Macmillan.
14. Barbara M. (2011). Cultural Anthropology. New Jersey: Pearson Education.
15. Ember CR. (2011). Anthropology. New Delhi: Dorling Kinderslay.
16. Herskovits MJ. (1952). Economic Anthropology: A Study in Comparative Economics. New York: Alfred A Knopf Inc.
17. Malinowski B. (1922) Argonauts of the Western Pacific. London: Routledge.
18. Polyani K. et al (1957), Trade and Market in the Early Empires. Chicago: Henry Regnery Company.
19. Balandier G. (1972). Political Anthropology. Middlesex: Penguin

DSE-2

Tribal cultures of India

Theory

Unit I: Concept of tribes and its problematic nature, General and specific characteristics of tribes, Classification and distribution of tribes based on their economy, occupation and religion, Racial elements among the tribes, Scheduled and non-scheduled categories of tribes, Particularly Vulnerable Tribal Groups (PVTGs).

Unit II: Tribe- caste continuum, Gender and Tribe, Distribution of tribes in India.

Unit III: Tribes: Nomenclature- emic and etic differences; Tribal movements, Problems of tribal development.

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

Practical

1. Distribution of Indian Tribes: PVTGs, ST
2. Location of different tribes on the map of India
3. Write an annotated bibliography on any one tribe
4. Write the social structure of any one tribe of India

Text book recommended:

1. Vidyarthi L.P and Rai B.K.. (1976). The tribal culture of India. Concept Publishing Co, Delhi

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

Suggested Readings

1. Bhende A. and Kaniikar, T. (2010) *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*. BanarsidasBhanot, 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. Riley N.E. and Mc Carthy, J. (2003) *Demography in the Age of the Postmodern*. Cambridge University press. UK. Pages 1-13 and 32-98
13. Sharma A.K. (1979) Demographic transition: A Determinant of Urbanization. *Social Change* 9: 13-
14. Srivastava O.S. (1996) *Demographic and Population Studies*. Vikas Publishing House, India
15. Zubrow E.B.W. (1976) *Demographic anthropology. Quantitative approaches*. University of New Mexico Press, Albuquerque.
16. <http://human-nature.com/dm/chap3.html>
17. <http://biography.yourdictionary.com/john-graunt>
18. <http://www.marathon.uwc.edu/geography/demotrans/demtran.htm>