

**DEPARTMENT OF ANTHROPOLOGY
MA/MSC SYLLABUS**

Semester	Course No	Course Title	Credits
I	ANT-PG-C101	Social - Cultural Anthropology	4
	ANT-PG-C102	Biological Anthropology	4
	ANT-PG-C103	Archaeological Anthropology	4
	ANT-PG-C104	Linguistic Anthropology	4
II	ANT-PG-C201	Economic and Political Anthropology	4
	ANT-PG-C202	Ecological Anthropology	4
	ANT-PG-C203	Applied Anthropology	4
	ANT-PG-O204	Human Evolution	4
SPECIALIZATION			
III	Social-Cultural		
	ANT-PG-C301	Fieldwork Methods and Techniques	4
	ANT-PG-O302	Anthropology of North East India	4
	ANT-PG-C303	Anthropology of India	4
	ANT-PG-C304	Theories in Social-Cultural Anthropology	4
	Physical		
	ANT-PG-C301	Fieldwork Methods and Techniques	4
	ANT-PG-O302	Anthropology of North East India	4
ANT-PG-C305	Human Growth and Development	4	
ANT-PG-C306	Practical in Physical Anthropology – I	4	
IV	Social-Cultural		
	ANT-PG-C401	Medical Anthropology	4
	ANT-PG-C402	Anthropology of Gender	4
	ANT-PG-C403	Anthropology of Development	4
	ANT-PG-C404	Dissertation and Viva Voce*	4
	Physical		
	ANT-PG-C404	Dissertation and Viva Voce*	4
	ANT-PG-C405	Human Genetics	4
ANT-PG-C406	Forensic Anthropology	4	
ANT-PG-C407	Practical in Physical Anthropology – II	4	
TOTAL		Social-Cultural	64
		Physical	64

*Theoretical and methodological preparation for this paper begins with **Course No.ANT-PG-C301**. Supervisors for this paper are allotted in the beginning of the 3rd Semester, and the students leave for fieldwork training soon after the 3rd Semester examination. They write their dissertations during the 4th Semester and the same are submitted for evaluation before the commencement of the 4th Semester examination.

ANT-PG-C101: SOCIAL-CULTURAL ANTHROPOLOGY

Unit I: Introduction

Aim, scope, development and methods of social and cultural anthropology. Relationship with other disciplines. Basic concepts: culture, civilization, tribe, caste, society, status, role, social institutions, ethno-centricism, cultural relativism, ethnicity, xenophobia.

Unit II: Marriage and family

Definition, types and rules of marriage, marriage payment. Definition and functions of family, types of family. Structure, marriage, and authority. Recent changes in marriage and family- impact of urbanization, industrialization and feminist movement, same sex marriage and live-in relationships.

Unit III: Kinship

Descent, principles of descent and alliance theory, forms of descent and residence. Lineage, clan, phratry, moiety and kindred. Kinship terminology- Morgan and Murdock. Kinship behaviour. Recent developments in kinship studies- Needham and Schneider.

Unit IV: Religion

Definition, ritual and myth, sacred and profane, magic and science, totem, taboo, priests, shamans, cultural revivalism and syncretism. Commercialization of religion.

Suggested Readings

- Auge, M. 1998. *A Sense of the Other*. Cambridge: University Press.
- Auge, M. 1999. *An Anthropology for Contemporary Worlds*. Cambridge: Cambridge University Press.
- Beattie, J. 1966. *Other Cultures*. London: Taylor and Francis.
- Doshi, S.L. 2001. *Social Anthropology*. New Delhi: Rawat.
- Dube, S.C. 1993. *Understanding Change: Anthropological and Sociological Perspectives*. New Delhi: Vikas Publishing House.
- Ember, C.R. and M.Ember. 1981. *Cultural Anthropology*. New Jersey: Prentice-Hall.
- Fox, R. 1967. *Kinship and Marriage: An Anthropological Perspective*. Harmondsworth: Penguin Books.
- Gough, K. 1959. 'Nayars and the Definition of Marriage,' *Journal of Royal Anthropological Institute*, 89:23-24.
- Keesing, Felix. 1958. *Cultural Anthropology*. New York: Rinehart.
- Kuper, A. 1988. *Culture: The Invention of Primitive Society: Transformation of an Illusion*. London: Routledge.
- Kuper, A. 1999. *Culture: The Anthropologist's Account*. London: Harvard University Press.
- Leach, E.R. 1961. *Rethinking Anthropology*. London: Athlone Press.
- Leach, E.R. 1986. *Social Anthropology*. Glasgow: Fontana Press.
- Lewis, I.M. 1990. *Social Anthropology in Perspective*. Cambridge: Cambridge University Press.
- Needham, R. 1962. *Structure and Sentiments*. Chicago: University of Chicago Press.
- Parkin, R and L. Stone. 2004. *Kinship and Family: An Anthropological Reader*. Oxford: Blackwell Publishers.
- Rapport, N. and J. Overing. 2000. *Social and Cultural Anthropology: The Key Concepts*. London: Routledge.
- Schneider, D and K. Gough. 1961. *Matrilineal Kinship*. Berkeley: University of California Press.

Uberoi, P (ed). 1993. *Family, Kinship and Marriage in India*. Delhi: Oxford University Press.
Williams, R. 1990. *Cultural Anthropology*. New Jersey: Prentice hall.

ANT-PG-C102: BIOLOGICAL ANTHROPOLOGY

Unit I: Introduction

Nature, scope and development of biological anthropology. Branches of biological anthropology. Relationship with allied disciplines, recent trends.

Unit II: Theories of evolution

Lamarck's theory, Darwin's theory, Mendel's theory, Mutation theory, Synthetic theory, mtDNA theory, Neutral theory.

Unit III: Evolution

Evidence of evolution, concept of microevolution and macroevolution. Principles of evolution: convergence, divergence, parallelism, adaptive radiation, speciation, irreversibility, mutation, genetic drift, natural selection.

Unit IV: Race

Concept of race, major races of world, controversies on race, racial criteria and formation races. Racial classification of Indian population – Guha, Risley and Sarkar.

Suggested Readings

- Ashley-Montagu, M.E. 1961. *An Introduction to Physical Anthropology*. Illinois: Charles C. Thomas.
- Buettner-Janusch, J. 1966. *Origins of Man*. New Delhi: Wiley Eastern Pvt. Ltd.
- Ciochon, R.L. 2011. *Introduction to Physical Anthropology*, 13th ed. Belmont: Wadsworth Cengage Learning.
- Das, B.M. 1997. *Outline of Physical Anthropology*. Allahabad: Kitab Mahal.
- Harrison, G.A., J.M.Tanner, D.R. Pilbeam and P.T. Baker. 1988. *Human Biology*. Oxford: Clarendon Press.
- Jurmain, R., L. Kilgore and W. Trevathan. 2011. *Essentials of Physical Anthropology*, 8th edition. Belmont: Wadsworth Cengage Learning.
- Larsen, C.S.(ed.). 2010. *A Companion to Biological Anthropology*. London: John Wiley & Sons.
- Lewin, R. and R. Foley. 2003. *Principles of Human Evolution*. Oxford: Blackwell Publishing.
- Lewin, R. 1999. *Human Evolution*. New York: Blackwell Science Ltd.
- Molnar, S. 1992. *Human Variation: Races, Types, and Ethnic Groups*. New Jersey: Prentice Hall.
- Park, M. A. 1996. *Biological Anthropology*. California: Mayfield Publishing Company.
- Poirier, F.E., W.A. Stini, and K.B. Wreden. 1990. *In Search of Ourselves: An Introduction to Physical Anthropology*, 4th edition. New Jersey: Prentice Hall.
- Roy, I.B. 2003. *Anthropology: The study of man*. New Delhi: S Chand and Co. Ltd.
- Stein, P. and B.M. Rowe. 2010. *Physical Anthropology*, 10th edition. New York: McGraw Hill Book Co.
- Sarkar, R.M. 2004. *Fundamentals of Physical Anthropology*. Kolkata: Book World Publishers.

- Shukla, B.R.K. and S. Rastogi. 2002. *Physical Anthropology and Human Genetics - An Introduction*. Delhi: Palaka Prakashan.
- Stanford, C., J.S. Allen and S.C. Anton. 2013. *Biological Anthropology*, 3rd edition. New York: Pearson.

ANT-PG-C103: ARCHAEOLOGICAL ANTHROPOLOGY

Unit I: Introduction

Scope and aims, historical development, major branches, interpretation of archaeological materials, salvage archaeology, ethno-archaeology, experimental archaeology, action archaeology.

Unit II: Tools and techniques

Archaeological record, excavation, exploration, dating methods (relative and absolute) Geological time scale and the Pleistocene epoch.

Unit III: Prehistoric cultures

The salient features of palaeolithic (lower, middle, upper), mesolithic, and neolithic cultures

Unit IV: Chalcolithic and early iron age cultures

Ahar, Malwa, Jorwe; Beginning of Iron Age - PGW and NBP; Megalithic cultures of India and early civilizations.

Suggested Readings

- Agrawal, D.P. 1982. *The Archaeology of India*. New Delhi: Select Books Syndicate.
- Allchin, B and R. Allchin. 1983. *The Rise of Civilization in India and Pakistan*. New Delhi: SBS.
- Bar-Yosef, O and F.Valla. 1990. 'The Natufian Culture and the Origin of the Neolithic in the Levant', *Current Anthropology*. 31 (4): 433-436.
- Bhattacharya, D.K. 1989. *An Outline of Indian Prehistory*. New Delhi: Popular Books.
- Chard, C. S. 1975. *Man in Prehistory*. New York: McGraw-Hill Book Co.
- Debenath, A and H.L.Dibble. 1993. *Handbook of Palaeolithic Typology*. Philadelphia: University of Pennsylvania Press.
- Fagan, B.M. 2004. *People of the Earth*. 11th ed. Delhi: Pearson Edu.
- Gorman, C. 1969. Hoabinhian: A Pebble Tool Complex with Early Plant associations in Southeast Asia. *Science*. New Series. 163 (3868): 671-673.
- Hammond, N. 1973. *South Asian Archaeology*. London: Duckworth.
- Mishra, V.N. 1973. 'Bagor- A Late Mesolithic Settlement of Northwest India', *World Archaeology*. 5 (1): 92-110.
- Sankalia, H.D. 1969. 'Problems in Indian Archaeology and Methods and Techniques to Tackle Them', *World Archaeology*. 1 (1): 29-40.
- Sankalia, H.D. 1974. *The Prehistory and Protohistory of India and Pakistan*. Pune: Deccan College.
- Sharma, T.C and D.N Majumdar. 1979. *Eastern Himalayas*. New Delhi: Cosmo Publications.
- Tan, H. V. 1997. 'The Hoabinhian and Before', *IPPA*, Vol. 3.

ANT-PG-C104: LINGUISTIC ANTHROPOLOGY

Unit I: Language and communication

Origin, evolution and characteristics of language; verbal and non-verbal communication; human and nonhuman communication. Linguistic anthropology, linguistic relativism.

Unit II: Definition, nature and scope of linguistics

Socio-cultural dimensions of language. Study of multilingualism. Ethnic minorities and tribal languages, endangered languages and revitalization.

Unit III: Social context of language use

Process of language acquisition and socialization. Structural linguistics: lingua, parole, language and culture analysis in anthropological tradition, Sapir-Whorf hypothesis, language and social roles, phatic communion.

Unit IV: Structure of linguistic forms

Phonemes and phonology, morphemes and morphology, syntax and semantics. Lexical relations: synonymy, antonymy, homophony, homonymy.

Suggested Readings

- Bauman, R. 1992. 'Text and Discourse in Anthropological Linguistics', In W. Bright (ed.), *International Encyclopedia of Linguistics* Oxford: Oxford University Press. pp 145-147.
- Chomsky, N. 1957. *Syntactic Structures*. The Hague: Mouton Co.
- Chomsky, N. 1986. *Knowledge of Language*. New York: Praeger.
- Chomsky, N. 1988. *Language and Problems of Knowledge*. Cambridge, Mass: MIT.
- Das Gupta, J. 1970. *Language Conflict and National Development: Group Politics and National language Policy in India*. New Delhi: Oxford University Press.
- Dorian, N.C. 1981. *Language Death*. Philadelphia: University of Pennsylvania Press.
- Dua, H.R. 1986. *Language Use, Attitudes and Identity among Linguistic Minorities*. Mysore: CIIL.
- Duranti, A. 1997. *Linguistic Anthropology*. Cambridge: Cambridge University
- Dutta Baruah, P.N. (ed.). 1999. *Languages of the North-East*. Mysore: CIIL.
- Hymes, D. 1974. *Foundations in Sociolinguistics: An Ethnographic Approach*. Philadelphia: University of Pennsylvania Press.
- Malinowski, B. 1936. 'The problem of meaning in primitive languages', In CK. Ogden & I.A. Richards (eds.), *The meaning of meaning, [1923], Supplement I: 296-336*. London: Kegan Paul.
- Mishra, K. K. .2000. *Text Book of Anthropological Linguistics*. New Delhi: Concept Pub.
- Krishna, S. 1991. *India's Living Languages*. New Delhi: Allied Publishers.
- Lado, R. 1957. *Linguistics across Cultures*. Michigan: University of Michigan Press.
- Lakoff, R. 1975. *Language and Woman's Place*. New York: Harper & Row.
- Lakoff, R. 1990. *Talking Power: The Politics of Language in our Lives*. New York: Basic Books.
- Laura, M. A. 2012. *Living Language: An Introduction to Linguistic Anthropology*. Oxford: Wiley-Blackwell.
- Pandit, P. B. 1972. *India as a Socio-linguistic Area*. Poona: University of Poona Press Publications.

Sharma, R and E. Annamalai. 2003. *Indian Diaspora: In Search of Identity*. Mysore: CIIL
Verma, M.K. 1998. *Socio-linguistics, Language and Society*. New Delhi: Sage Publications.

ANT-PG-C201: ECONOMIC AND POLITICAL ANTHROPOLOGY

Unit I: Introduction

Origin and scope of economic anthropology; Approaches to the study of economic anthropology, substantivist, formalist and culturalist, tribal and peasant economies.

Unit II: Production, distribution and consumption

Provisioning, barter and trade, ceremonial exchange, reciprocity, redistribution, and market (gift, potlach, kula ring, jajmani system, and feast of merit).

Unit III: Introduction

Origin and growth of political anthropology; approaches to the study of political anthropology and political science.

Unit IV: Political organization and social control

Power, authority, legitimacy, political process, stateless societies, state and its formation, law and justice in simple societies, conflict and resolution.

Suggested Readings

- Balandier, G. 1970. *Political Anthropology*. Harmondsworth: Penguin Books.
- Belshaw, C. 1975. *Traditional Exchange and Modern Markets*. New Jersey: Prentice-Hall.
- Carrier, J. G. 2005. *A Handbook of Economic Anthropology*. Cheltenham: Edward Elgar Publishing.
- Clastres, P. 1977. *Society against the State: The Leader as Servant and the Humane Uses of Power among the Indians of the Americas*. Oxford: Blackwell.
- Cohen, A. 1969. 'Political Anthropology: The Analysis of the Symbolism of Power Relations', *Man*, 4, 215-235.
- Dalton, G. 2011. *Tribal and Peasant Economies: Readings in Economic Anthropology*. New York: American Museum of Natural History.
- Eriksen, T. H. 2002. *Ethnicity and Nationalism; Anthropological Perspectives*. London: Pluto.
- Evans-Pritchard, E.E. 1940. *The Nuer, a Description of the Modes of Livelihood and Political Institutions of a Nilotic people*. Oxford: Oxford University Press.
- Firth, R. 1975. *Themes in Economic Anthropology*. Tavistock: ASA Series.
- Forde, D. 1986. *Habitat, Economy and Society*. London: Methuen & Co.
- Fortes, M. and E.E. Evans Pritchard (eds.).1940. *African Political Systems*. Oxford: The Clarendon Press.
- Foucault, M. 1980. *Power/Knowledge: Selected Interviews and Other Writings 1972-1977*. New York: Pantheon Books.
- Gledhill, John. 2000. *Power and its Disguises: Anthropological Perspectives on Politics*. London: Pluto.
- Gregory, C.A. 1997. *Savage Money*. New York: Harvard Academic Publishers.
- Gudeman, S. 1986. *Economics as Culture*. London: Routledge.
- Hann, C and K. Hart. 2011. *Economic Anthropology: History, Ethnography and Critique*. London: Polity.
- Kurtz, Donald.V. 2001: *Political Anthropology: Power and Paradigms*. Boulder: Westview Press.

- Leach, E.R., 1954. *Political Systems of Highland Burma: A Study of Kachin Social Structure*. London: Athlone.
- Lewellen, Ted. 2003. *Political Anthropology: An Introduction*. London: Praeger Publications.
- Mauss, Marcel. 2001. *The Gift: The Form and Reason for Exchange in Archaic Societies with an Introduction by Mary Douglas*. London: Routledge.
- Middleton, John and David Tait. 1958. *Tribes without Rulers: Studies in African Segmentary Systems*. London: Routledge.
- Nash, M. 1974. *Primitive and Peasant Economic Systems*. San Francisco: Chandler Publications.
- Parry, J. and M. Bloch (eds.). 1989. *Money and the Morality of Exchange*. Cambridge: Cambridge University Press.
- Scott, J.C. 1976. *The Moral Economy of the Peasant: Rebellion and Subsistence in Southeast Asia*. New Haven and London: Yale University Press.
- Scott, J.C. 1985. *Weapons of the Weak: Everyday Forms of Peasant Resistance*. New Haven and London: Yale University Press.
- Sahlins, M. 1974. *Stone-Age Economics*. London: Tavistock Publications.
- Singh, K.S. 1982. *Economies of Tribes and Their Transformation*. New Delhi: Concept Publishing House.
- Sharma, A. and A. Gupta (eds.). 2006. *The Anthropology of the State: A Reader*. Oxford: Blackwell.
- Spencer, J. 2007. *Anthropology, Politics, and the State: Democracy and Violence in South Asia*. Cambridge: Cambridge University Press.
- Swartz, Marc J. et al. (eds). 1966. *Political Anthropology*. Chicago: Aldine.
- Vincent, Joan.(ed). 2002. *The Anthropology of Politics: A Reader in Ethnography, Theory and Critique*. Oxford: Blackwell.
- Wiser, W.H. 1936. *The Hindu Jajmani System: A Socio-Economic System Interrelating Members of a Hindu Village Community in Services*. Lucknow: Lucknow Publishing House.

ANT-PG-C202: ECOLOGICAL ANTHROPOLOGY

Unit I: Ecology and culture

Cultural materialism, ethno ecology, political ecology.

Unit II: Environmental degradation

Concerns and movements: Chipko movement, Narmada Bachao movement; dams, displacement, rehabilitation, emerging ecological issues.

Unit III: Human Ecology

Definition and objective, approaches to the study of human ecology, variety of human ecosystem, acclimatization, adaptation, homeostasis.

Unit IV: Adaptation

Human adaptation to heat, cold and high altitude, population variation in physiological responses to climatic stresses, body build and climatic adaptation, infectious diseases.

Suggested Readings

Baker, P.T. 1978. *The Biology of High Altitude Peoples*. Cambridge: University Press.

- Baker, P.T. and J.S.Weiner. 1966. *The Biology of Human Adaptability*. Oxford: Clarendon Press.
- Bhasin V., Srivastava V.K. and M.K. Bhasin. 2001. *Human Ecology in the New Millenium*. New Delhi: Kamla Raj Enterprise.
- Bose, K. 2006. *Ecology, Culture, Nutrition, Health and Disease*. New Delhi: Kamla Raj Enterprise.
- Chapman, J.L. and M.J. Reiss. 1994. *Ecology: Principles and Applications*. Cambridge: Cambridge University Press.
- Harrison, G.A. and H. Morphy. 1998. *Human Adaptation*. Oxford: Oxford University Press.
- Little, M.A. and J.D. Haas 1989. *Human Population Biology*. New York: Oxford University Press.
- Maiti, S. 2009. 'Question of Rights: A Case Study of the Bhotia of Uttarakhand (India)', *Anthropology in Action*. 16 (3) 55- 66.
- Malik, S. L. and D. K. Bhattacharya. 1986. *Aspects of Human Ecology*. New Delhi: Northern Book Centre.
- Marten, G.G. 2001. *Human Ecology*. London: Stylus Publishing.
- Mascie-Taylor, C.G.N. and B. Bogin. 1995. *Human Variability and Plasticity*. Cambridge: Cambridge University Press.
- Moran, E.F.(ed.) 1990. *The Ecosystem Approach in Anthropology*. Michigan: University Press.
- Roberts, D.F. 1978. *Climate and Human Variability*. California: Cumming.

ANT-PG-C203: APPLIED ANTHROPOLOGY

Unit I: Meaning, scope and history of applied anthropology

Action anthropology, role of anthropology in education, industry.

Unit II: Policy, planning, programmes, administration, and development in India

Role of anthropology in advocacy: poverty alleviation programs, social equity and justice.

Unit III: Innovation, planned and directed change

Problems and issues arising out of the impact of modernization, urbanization, industrialization and technological change in traditional societies.

Unit IV: Application of anthropological knowledge

In public health, medico-legal matters, sports, disputed paternity, genetic counseling and human genome project.

Suggested Readings

- Barnet, H. 1956. *Anthropology in Administration*. Evanston, Illinois: Row Peterson.
- Barnet, H.G. 1953. *Innovation: The Basis of Culture Change*. New Delhi: McGraw-Hill Paperback.
- Barrett, R.A. 1984. *Culture and Conduct: An Excursion in Anthropology*. Belmont: Wadsworth Publishing Company.
- Beals, R.L and H. Hoijer. 1971. *An Introduction to Anthropology*. 4th Ed. New York: Macmillan.
- Bose, K. 2006. *Ecology, Culture, Nutrition, Health and Disease*. New Delhi: Kamla Raj Enterprise.

- Cochrane, G. 1971. *Development Anthropology*. Oxford: Oxford University Press.
- Crawford, M.H. (ed.). 2006. *Anthropological Genetics*. Cambridge: Cambridge University Press.
- Das, B.M. 1997. *Outline of Physical Anthropology*. Allahabad: Kitab Mahal.
- Elwin, V. 1957. *A Philosophy for NEFA*. NEFA: Gyan Publishers.
- Foster, G.M. 1962. *Traditional Cultures and Impact of Technological Change*. New York: Harper Collins.
- Gisli, P. 2007. *Anthropology and the New Genetics*. Cambridge: Cambridge University Press.
- Harrison, G.A. 1990. *Diet and Disease in Traditional and Developing Societies*. Cambridge: Cambridge University Press.
- Hedrick, P.W. 2011. *Genetics of Populations*, 4th ed. Massachusetts: Jones and Bartlett Publishers.
- Knight, J.C. 2009. *Human Genetic Diversity*. Oxford: Oxford University Press.
- Lewis, R. 2003. *Human Genetics: Concepts and Applications*, 9th edition. New York: McGraw-Hill.
- Linton, R. (ed.). 1946. *Science of Man in the World Crisis*. New York: Columbia University Press.
- Mair, L. 1961. *Studies in Applied Anthropology*. London: University of London.
- Mathur, H.M. 1978. *Anthropology in the Development Process*. New Delhi: Vikas Publishing House Pvt. Ltd.
- Mead, M. 1953. *Cultural Patterns and Technical Change*. Paris: UNESCO.
- Pasternak, J.J. 2005. *An Introduction to Human Molecular Biology*. New Jersey: John Wiley & Sons.
- Paul, B.D. (ed.) 1972. *Health, Culture and Community*. Manhattan: Russell Sage Foundation
- Spicer, E.H. (ed.) 1952 *Human Problems in Technological Change*. Manhattan: Russell Sage Foundation.
- Stapp, D.C., J.H. Bodley and M.T. Choldin. 2012. *Action Anthropology and Sol Tax in 2012: The Final Word?* Washington: Northwest Anthropology LLC.
- Strang, V. 2009. *What Anthropologists Do*. New York: Berg.
- Van Willigen, J. 2002. *Applied Anthropology: An Introduction*. Westport: Greenwood Publishing Group.
- Vidyarathi, L.P. (ed.) *Applied Anthropology in India*. New Delhi: National Publishing House
- Willet, W. 2006. *Nutritional Epidemiology*. Oxford: Oxford University Press.

ANT-PG-O204: HUMAN EVOLUTION

Unit I: Palaeontology

Fossils-fossilization and preservation.

Classification and characteristics of primates, position of man in animal kingdom, relationship of man to higher primates like chimpanzee, gibbon, orangutan and gorilla, primate behaviour.

Unit II: Earliest Primates

Discovery, distribution and characteristics of Aegyptopithecus Propliopithecus, Dryopithecus and Proconsul.

Unit III: Hominid evolution

Discovery, distribution, anatomical features and phylogenetic position of Ramapithecus, Australopithecines, Homo habilis, Homo erectus and Neanderthals.

Unit IV: Neanthropic human

Discovery, anatomical features and geographical distribution of Cro-Magnon, Grimaldi, Chancelade. Anatomical changes in human skeleton due to erect posture and bipedal gait - skull, vertebral column, thorax, pelvic girdle, femur, hand and foot.

Suggested Readings

- Bishop, C. W. 1989. *Evolution of Mankind*. Delhi: Akashdeep Publishing House.
- Cachel, S. 2006. *Primate and Human Evolution*. Cambridge: Cambridge University Press.
- Das, B.M. 1997. *Outline of Physical Anthropology*. Allahabad: Kitab Mahal.
- Hooton, E. A. 1965. *Up from the Ape*. New York: Macmillan.
- Lewin, R. and R. Foley. 2003. *Principles of Human Evolution*. Oxford: Blackwell Publishing.
- Lewin, R. 1999. *Human Evolution*. New York: Blackwell Science Ltd.
- Nystrom, P. and P. Ashmore. 2011. *The Life of Primates*. New Delhi: PHI Learning Pvt. Ltd.
- Poirier, F. E. 1993. *Understanding Human Evolution*. New Jersey: Prentice Hall.
- Poirier, F.E., W.A. Stini and K.B. Wreden. 1990. *In Search of Ourselves: An Introduction to Physical Anthropology*, 4th edition. New Jersey: Prentice Hall.
- Smith, F.H. and F. Spencer. 1984. *The Origins and Evolution of Modern Humans*. New York: Allan Liss.
- Srivastava, R.P. 2011. *Morphology of the Primates and Human Evolution*. New Delhi: PHI Learning Pvt. Ltd.
- Strickberger, M. W. 2000. *Evolution*, 3rd edition. New York: Jones & Barlett Publishers.
- Swindler, D.R. 2004. *Introduction to the Primates*. New Delhi: Overseas Press India Pvt. Ltd.
- Tattersall, I. 1995. *Fossil Trail: How We Know, What We Think, We Know About Human Evolution*. New York: Oxford University Press.
- Volpe, P.E. 1989. *Understanding Evolution*. New Delhi: Universal Book Stall.

ANT-PG-C301: FIELDWORK METHODS AND TECHNIQUES

Unit I: Fieldwork traditions in anthropology

Preparing for the field: selection of the locale, learning the language. Rapport establishment and key informant. Ethics and challenges of fieldwork.

Unit II: Types of research

Descriptive, exploratory, diagnostic, experimental, and evaluative. Hypotheses, formulation of research design. Primary and secondary sources. Sampling. Qualitative and quantitative research. Inductive and deductive.

Unit III: Methods and techniques of data collection in anthropological fieldwork

Comparative method, observation – participant and non-participant, interview - interview guide, focused group discussion; genealogy, schedule and questionnaire, participatory rapid appraisal, case study, audio-visual methods.

Unit IV: Analysis, interpretation and presentation of data

Use of statistical measures: mean, median, mode, standard deviation, standard error, computer aided analysis, tabulation, diagrammatic representation. Report writing.

Suggested Readings

- Amit, V. 1999. *Constructing the Field*. London: Routledge.
- Bechhofer, F. and L. Paterson. 2000. *Principles of Research Design in the Social Sciences*. London: Routledge.
- Beteille, A. and T. N. Madan. 1975. *Encounter and Experience*. New Delhi: Vikas Publishing House.
- Burgess, R. G. 1984. *In the Field: An Introduction to Field Research*. London: Routledge.
- Ellen, R. F. 1984. *Ethnographic Research: A Guide to General Conduct*. London: Academic Press.
- Epstein, A.L. 1978. *Crafts in Social Anthropology*. Delhi: Hindustan Publishing Corp.
- Foster, G. M. et al. 1979. *Long Term Field Research in Social Anthropology*. New York: Academic Press.
- Frelich, M. 1970. *Marginal Natives: Anthropologists at Work*. New York: Harper & Sons.
- Goode, W J and P K Hatt. 1981. *Methods in Social Research*. Singapore: McGraw-Hill Book Company.
- Herle, A. 1998. *Cambridge and the Torres Strait*. Cambridge: Cambridge University Press.
- Jongmans, D.G. and P.C.W. Gutkind. 1967. *Anthropologists in the Field*. Assen: Van Gorcum & Company.
- Kumar, S. 2002. *Methods for Community Participation*. New Delhi: Vistaar.
- Levinson, D. and M Ember (eds), 1996. *Encyclopaedia of Cultural Anthropology*, Vol.2, New York: Henry, Holt & Co.
- Russell, B. H. 1995. *Research Methods in Anthropology: Qualitative and Quantitative Approaches*. Walnut Creek, CA: AltaMira Press.
- Sarana, G. 1975. *The Methodology of Anthropology*. New York: The University of Arizona Press.
- Srinivas, M.N. 1983. *The Observer and the Observed*. Faculty Lecture 1, Faculty of Arts and Social Sciences, University of Singapore.
- Stocking, G.W. 1983. *Observers Observed: Essays on Ethnographic Fieldwork*. Madison: The University of Wisconsin Press.
- Williams, T. R. 1967. *Field Methods in the Study of Culture*. London: Holt, Rinehart and Winston.

ANT-PG-O302: ANTHROPOLOGY OF NORTHEAST INDIA

Unit I: Origin and growth of social anthropology in Northeast India

Colonial and post-colonial ethnographies, contemporary social/cultural anthropological research in Northeast India.

Unit II: People of North-East India

Language, culture, customary law, folk tradition, ethnicity, religion, social change, development.

Unit III: Issues and problems

Politics of identity, migration, insurgency, movements, indigeneity, relevant constitutional provisions, inner-line permits. Look East Policy.

Unit IV: Growth and development of physical anthropology in Northeast India

Major researches: anthropometric assessment of body composition, dermatoglyphics, dental pathology, population genetics, demography (fertility, mortality, migration), nutrition and

health, reproductive and child health, bio-cultural implications of obesity and co-morbidities.

Suggested Readings

- Aisher, A. 2007. 'Voices of Uncertainty: Spirits, Humans and Forests in Upland Arunachal Pradesh, India', *South Asia: Journal of South Asian Studies*. 30 (3): 479-98.
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- Subba, T.B. (ed.). 2012. *Northeast India: A Handbook of Anthropology*. New Delhi: Orient Blackswan.
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- Ulijaszek, S.J. and Strickland, S. 1993. *Nutritional Anthropology: Prospects and Perspectives*. London: Smith Gordon.
- Wells, J.C.K. 2010. *The Evolutionary Biology of Human Body Fatness*. Cambridge: Cambridge University Press.
- Zadzinska, E. (ed). 2005. *Current Trends in Dental Anthropology Research*. Lodz: Lodz University Press.

ANT-PG-C303: ANTHROPOLOGY OF INDIA

Unit I: Origin and growth of Indian anthropology

Approaches to the study of Indian society, culture and civilization - indological, historical, and anthropological. Great tradition and little tradition, sacred complex, universalization, parochalization.

Unit II: Social stratification and hierarchy

Caste, varna, jati. Caste among non-Hindus (Muslims, Christians, Sikhs). Dominant caste, caste mobility: sanskritization, westernization. Caste identity and politics: caste organizations and khap panchayat.

Unit III: Tribes in India

Concept, definition, scheduling the tribe, socio-economic status of tribes, tribe-caste continuum, tribal movements.

Unit IV: Contributions to Indian Anthropology

L.K.A. Krishna Aiyer, D. N. Majumdar, M.N. Srinivas, Louis Dumont, Iravati Karve, N. K. Bose, L. P. Vidyarthi, and C.von. Furer-Haimendorf, Verrier Elwin.

Suggested Readings

- Bansal, I.J.S. 1984. *Anthropology in Indian Context*. New Delhi: Today & Tomorrow.
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- Luke, P.Y. and J.B.Carmen. 1968. *Village Christians and Hindu culture: Study of a Rural Church in Andhra Pradesh, South India*. London: Lutterworth Press.
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- Mosse, D. 1994. 'Idioms of Subordination and Styles of Protest among Christian and Hindu Harijan Castes in Tamil Nadu', *Contributions to Indian Sociology*. 28: 67-106.
- Mosse, D. 1994. 'The Politics of Religious Synthesis: Roman Catholicism and Hindu village society in Tamil Nadu'. In C. Stewart and R. Shaw (eds.) *Syncretism/antisyncretism: the Politics of Religious Synthesis*. London: Routledge.
- Nadkarni, M.V. 2003. 'Is Caste System Intrinsic to Hinduism? Demolishing a Myth', *Economic and Political Weekly*. 38(45): 4783-4793.
- Rudolph, L. and S. Rudolph. 1970. *The Modernity of Tradition*. London: Chicago University Press.
- Saksena, H.S. et.al. (eds.). 2010. *Anthropology in India*. Delhi: Serials Publications.
- Shah, G. 2004. *Caste and Democratic Politics in India* (ed.). Delhi: Orient Blackswan.
- Singer, M. 1955. The Cultural Pattern of Indian Civilization. *The Far Eastern Quarterly*, 15(1).
- Srinivas, M.N. 1976. *The Remembered Village*. London: University of California Press.
- Srinivas, M.N. 1987. *Dominant Caste and Other Essays*. Delhi: Oxford University Press.
- Xaxa, V. 2008. *State, Society and Tribes: Issues in Post-colonial India*. Delhi: Pearson Longman.

ANT-PG-C304: THEORIES IN SOCIAL CULTURAL ANTHROPOLOGY

Unit I: Classical Theories

Evolutionism - Tylor, Frazer, Morgan, Spencer. Diffusionism- British School, German-Austrian School and American School. Historical particularism – Boas. Neo-evolutionism- Childe, Steward and White, Durkheimian approach.

Unit II: Structuralism and Functionalism

Malinowski, Structural-functionalism - Radcliffe-Brown, Firth and Nadel, Structuralism - Levi-Strauss and Leach.

Unit III: Culture and Personality School

Mead, Benedict, Whiting, Kardiner and Cora Du-Bois. Cognitive Systems - Goodenough, Whitehouse. Symbolism - Turner, Douglas. Marxist approach.

Unit IV: Postmodernism

Schneider, Geertz, Clifford, Marcus and Tyler.

Suggested Readings

- Barnard, A. 2000. *History and Theory in Anthropology*. Cambridge: University Press.
- Bloch, M. 1991. 'Language, Anthropology and Cognitive Science', *Man* 26 (2): 183-98.
- Charon, J. 1992. *Symbolic Interactionism*. New Jersey: Prentice hall.
- Clifford, J. and G. E. Marcus. 1986. *Writing Culture: the Poetics and Politics of Ethnography*. Berkeley: University of California Press.
- Ember, C.R and M. Ember. 1981. *Anthropology*. IIIrd ed. NJ: Prentice-Hall.
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- Geertz, C. 1974. *Myth, Symbol and Culture*. New York: W.W. Norton.
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- Goode, W.J. 1973. *Explanation in Social Theory*. New York: Oxford University Press.
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- Hastrup, K. and P. Hastrup. 1994. *Social Experience and Anthropological Knowledge*. London: Routledge.
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- Herzfeld, M. 2001. *Anthropology: Theoretical Practice in Culture and Society*. Oxford: Blackwell.
- James, W. 2004. *The Ceremonial Animal: A new Portrait of Anthropology*. Oxford: Oxford University Press.
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- Levi-Strauss, C. 1963. *Structural Anthropology*. New York: Basic Books.
- Mann, R. S. 1984. *Anthropological and Sociological Theory*. Jaipur: Rawat.
- McGee, R. J. and R. L. Warms. 1996. *Anthropological Theory*. London: Mayfield Publishers.
- McNeil, P. 1990. *Research Methods*. London: Routledge.
- Radcliffe-Brown, A. R. 1952. *Structure and Function of Primitive Society*. London: Routledge & Kegan.
- Rose, D. 1990. *Living the Ethnographic Life*. London: Sage Publications.

- Stocking, G. 1995. *After Tylor: British Social Anthropology, 1888-1951*. Madison: University of Wisconsin Press.
- Turner, V.W. 1969. *The Ritual Process; Structure and Anti-Structure*. London: Routledge.

ANT-PG-C305: HUMAN GROWTH AND DEVELOPMENT

Unit I: Definition and concept of growth and development

Methods of studying growth and development, stages of growth and their characteristics- prenatal, infant, childhood, adolescence, senescence.

Unit II: Growth curve

Distance growth curve, velocity growth curve, catch-up growth, changing human growth patterns, factors affecting growth-hereditary, environment, hormone, nutrition, socio-economic factors, secular trend.

Unit III: Nutritional requirement of human

Proteins, fats, minerals and vitamins, assessment of growth and nutritional status, growth and adaptation to stresses of under-nutrition and diseases, malnutrition.

Unit IV: Human physique and somatotype

Heath-Carter and Sheldon, levels of body composition (atomic, molecular, cellular, tissue levels and whole body levels), Body composition models (two component models; methods for estimation of body composition with reference to anthropometry).

Suggested Readings

- Bogin, B. 1999. *Patterns of Human Growth*. Cambridge: Cambridge University Press.
- Cameron, N. 2002. *Human growth and development*. St. Louis: Academic Press.
- Carter, J.E.L. 1980. *The Heath-Carter Somatotype Method*. San Diego: SDSU Syllabus Service.
- Dasgupta, P. and R. Hauspie. (ed.). 2001. *Perspective in Human Growth, Development and Maturation*. New Delhi: Springer.
- Eveleth, P. B. and J. M. Tanner. 1990. *Worldwide variation in Human Growth*. Cambridge: Cambridge University Press.
- Forbes, G.B. 1987. *Human Body Composition: Growth, Aging, Nutrition and Activity*. New York: Springer-Verlag.
- Heath, B. H. and J. E. L. Carter. 1990. *Somatotyping: Development and Applications*. Cambridge: Cambridge University Press.
- Heyward, V. H. and D.R. Wagner. 2004. *Applied Body Composition Assessment*. Illinois: Champaign.
- Himes, J. H. (ed.). 1991. *Anthropometric Assessment of Nutritional Status*. New York: Wiley-Liss.
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- Pelto, G. H., P. J. Pelto and E. Messer. (eds.). 1989. *Research Methods in Nutritional Anthropology*. Tokyo: The UN University.
- Roche, A. F. 1992. *Growth, Maturation and Body Composition*. Cambridge: Cambridge University Press.
- Shephard, R. J. 2005. *Body Composition in Biological Anthropology*. Cambridge: Cambridge University Press.

- Tanner, J.M. 1989. *Foetus into Man*. Cambridge: Cambridge University Press.
- Thompson, J. L., G.E. Krovitz and A.J. Nelson. 2003. *Patterns of Growth and Development in the Genus Homo*. Cambridge: Cambridge University Press.
- Ulijaszek, S. J. and S. Strickland. 1993. *Nutritional Anthropology: Prospects and Perspectives*. London: Smith Gordon.
- Ulijaszek, S. J., F. E. Johnston and M.A. Preece. 1998. *The Cambridge Encyclopaedia of Human Growth and Development*. Cambridge: University Press.
- Willet, W. 2006. *Nutritional Epidemiology*. Oxford: Oxford University Press.

ANT-PG-C306: PRACTICAL IN PHYSICAL ANTHROPOLOGY – I

Unit I: Osteology

Introduction, scope, shape and functions of bones, identification, drawing and description of bones of human skeleton-skull, vertebrae, scapula, clavicle, humerus, radius, ulna, hip bone, femur, tibia and fibula.

Unit II: Anthropometry and Somatometry

Introduction and scope. *Somatometric measurements*: stature, sitting height, body weight, acromion height, ilio-spinal height, ilio-cristale height, chest breadth, biacromial breadth, bicristal breadth, maximum hip breadth, upper-arm length, forearm length, hand length, hand breadth, leg length, foot length, foot breadth, humerus bicondylar breadth, femur bicondylar breadth, chest circumference, head circumference, mid upper arm circumference, mid calf circumference, head length, head breadth, bigonial breadth, nasal height, nasal breadth, nasal depth, mouth breadth, physiognomic facial height, morphological facial height, morphological superior facial height, physiognomic ear length, physiognomic ear breadth, bizygomatic breadth and minimum frontal breadth.

Somatometric indices: body mass index, ponderal index, relative sitting height (cormic) index, relative biacromial breadth index, relative bicristal breadth index, Relative chest girth index, acromo-iliac index, acromo-chest index, inter-bicondylar index, index of hand, index of foot, cephalic index, total facial index, morphological upper facial index, fronto-parietal index, fronto-zygomatic index, nasal index and jugo-mandibular index.

Unit III: Measurements of body composition

Skinfold measurement on biceps, triceps, sub-scapular, supra-iliac and calf. *Indices* - conical index, body fat percentage, fat mass and fat free mass, somatotyping techniques and analyses.

Unit IV: Somatoscopic observations

Skin colour, hair (colour, form and texture), eye (colour, eye fold and eye slit), nose (nasal root, nasal bridge, nasal septum and nasal tip), lips and chin.

Suggested Readings

- Chaurasia, B. D. 1984. *Human Osteology*. New Delhi: CBS.
- Das, B. M. and R. Deka. 1992. *Physical Anthropology Practical*. Allahabad: Kitab Mahal.
- Dwight, T. 1978. *The Identification of the Human Skeleton*. Boston: Massachusetts Medical Society.
- Montague, M. F. A. 1961. *An Introduction to Physical Anthropology*. Illinois: Charles C. Thomas.

- Mukherji, D., D. P. Mukherjee and P. Bharati. 2009. *Laboratory manual for Biological Anthropology*. Kolkata: Asian Books Pvt. Ltd.
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- Singh, I. P. and M. K. Bhasin. 2004. *A Manual of Biological Anthropology*. Delhi: Kamla Raj Enterprises.
- Ulijaszek, S. J. 1995. *Human Energetics in Biological Anthropology*. Cambridge: Cambridge University Press.
- Ulijaszek, S. J. and C. G. N. Mascie-Taylor. 1994. *Anthropometry: The Individual and Population*. Cambridge: Cambridge University.
- Weiner, J. S. and J. A. Lourie. 1981. *Practical in Human Biology*. London Academic Press.

ANT-PG-C401: MEDICAL ANTHROPOLOGY

Unit I: Introduction

Scope of medical anthropology. Concepts of health, disease, illness, healing. Approaches: popular, folk, professional. Socio-cultural and environmental dimensions of health, occupational and life-style ailments.

Unit II: Ethno-medicine

Meaning and scope, ethnomedical practices in India, traditional healers and their predicaments, ethno-psychiatry, normality and abnormality, culture-bound psychological disorders and healing, social stigma towards diseases and ailments.

Unit III: Medical pluralism in India

Ayurveda, Siddha, Unani, Naturopathy, Homeopathy and Allopathic medical practices.

Unit IV: Application of anthropological knowledge in health care

Social inequality and health. Current health care programs and policies in India.

Suggested Readings

- Alland, A.D Jr. 1970. *Adaptation in Cultural Evolution: An Approach to Medical Anthropology*. New York: Columbia University Press.
- Banerjee, B.G and Jalota, R. 1988. *Folk Illness and Ethnomedicine*. New Delhi: Northern Book Centre.
- Basu, S. 1994. *Tribal Health in India*. Delhi: Manak Publications.
- Budd, S. and S. Ursula. 1994. *The Healing Bond: The Patient-Practitioner Relationship and Therapeutic Responsibility*. London: Routledge.
- Caudill, W. 1953. *Applied Anthropology in Medicine*. Chicago: University of Chicago Press.
- Chaudhuri, B. 1986. *Tribal Health: Socio-Cultural Dimensions*. New Delhi: Inter-India Publication.
- Foster, G.M. 1978. *Medical Anthropology*. New York: John Wiley.
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- Good, B. J. 1993. *Medicine, Rationality and Experience: An Anthropological Perspective*. Cambridge: University Press.
- Hans A. Baer, M. Singer and I. Susser. 2003. *Medical Anthropology and the World System*. 2nd edn. London: Preager.
- Jose, B. K. 1998. *Tribal Ethnomedicine: Continuity and Change*. New Delhi: APH Publishing.

- Landy, D. 1977. *Culture, Disease and Healing*. New York: Macmillan.
- Leslie, C. 1976. *Asian Medical Systems*. Berkeley: University of California Press.
- Ohtsuka, R. and J. Ulijaszek. (eds.). 2007. *Health Change in Asia-Pacific Region*. Cambridge: Cambridge University Press.
- Paul, B. D. 1955. *Culture, Health and Community*. New York: Russel Sage Foundation.
- Read, M. 1966. *Culture, Health and Disease*. London: Tavistock Publications.
- Singh, B. and N. Mahanti. 1995. *Tribal Health in India*. New Delhi: Inter-India Publishers.
- Worsley, P. 1982. 'Non-Western Medical Systems', *Annual Review of Anthropology* 11.
- Young, A. 1982. 'The Anthropology of Illness and Sickness', *Annual Review of Anthropology*, 11.

ANT-PG-C402: ANTHROPOLOGY OF GENDER

Unit I: Concept of gender

Theorizing gender, social and biological theories of gender, psychoanalytical theories, literary theories, theory of gender performativity and queer theory.

Unit II: Anthropological approaches to gender studies

Agents of socialization- family, school and peers. Gender and religion. Gender and language.

Unit III: Recent changes in gender studies

Masculinities, feminities and third/ fourth genders in worldwide perspective- gay and transsexuality. Discourses concerning gender and sexual orientation- feminist movement and gender movement.

Unit IV: Gender and human rights

Right of reproduction, gender discrimination, gender and violence, gender and development.

Suggested Readings

- Connell, R. W. 2000. *The Men and Boys*. Berkeley: University of California Press.
- Connell, R. W. 2002. *Gender*. Cambridge: Polity Press.
- Connell, R. W. 2005. *Masculinities*. Cambridge: Polity Press.
- Cormack, C. M and M. Strathern. 1998. *Nature, Culture and Gender*. Cambridge: University Press.
- Croll, E. 2000. *Endangered Daughters: Discrimination and Development in Asia*. London: Routledge.
- Dube, L. 1997. *Comparative Perspectives in Gender in South and Southeast Asia*. New Delhi: Vistaar.
- Dube, L. 2001. *Anthropological Explorations in Gender*. New Delhi: Sage Publications.
- Harris, M. 1991. *Cultural Anthropology*. NY: Harper Collins.
- Mayers, M. J. et.al. 1990. *Gender, Kinship, Power*. New York: Routledge.
- McGee, R. J and Warms. R. L. 1996. *Anthropological Theory*. London: Mayfield Pub.
- Mead, M. 1928. *Coming of Age in Samoa*. New York: William Morrow & Company.
- Moore, H. L. 1990. *Feminism and Anthropology*. Minneapolis: University of Minnesota Press.
- Moore, H. L. 1994. *A Passion for Difference: Essays in Anthropology and Gender*. Bloomington: Indiana University Press.
- Moser, C. 1993. *Gender, Planning and Development*. London: Routledge.

- Ortner, S.B. and Whitehead. H. 1956. *Sexual Meanings: The Cultural Context of Gender and Sexuality*. Cambridge: University Press.
- Pal, M., et al. 2012. *Gender Issues and Empowerment of Women*. New York: Nova Science Publishers.
- Rachel A. Annette F. and Kathleen L (eds.) 2002 . *Theorizing Gender*, Oxford: Polity Press.
- Rappaport, N and Overing.J. 2000. *Social and Cultural Anthropology*. London: Routledge.
- Robyn. R. 2012. *Questioning Gender. A Sociological Exploration*. New Delhi: Sage Publications.

ANT-PG-C403: ANTHROPOLOGY OF DEVELOPMENT

Unit I: Introduction

Concept of development in anthropology, indices of development, development from below, culture and development, sustainable human development.

Unit II: Theories of development

Modernization theory, dependency theory, world system theory, post development.

Unit III: Policy and practice

Application of anthropological knowledge in planning and development, community development and Panchayat Raj, rural and urban development, MGNREGA, role of national and international NGOs and civil societies.

Unit IV: Issues and challenges of development in India

Environment, displacement, migration, land alienation, power, corruption, caste, gender, naxalism/maoism.

Suggested Readings

- Arce, Alberto and N. Long. 1999. *Anthropology, Development and Modernities*. London: Routledge.
- Bardhan, P. 1995. *Development and Change*. Delhi: Oxford University Press.
- Cochrane, G. 1971. *Development Anthropology*. Delhi: Kitab Mahal.
- Desai, A.R. 1984. *India's Path to Development*. Bombay: Popular Prakashan.
- Dreze, J and A. Sen. 1996. *Indian Development*. New Delhi: Oxford.
- Dube, S.C. 1990. *Tradition and Development*. New Delhi: Vikas Publishing House.
- Hobart, M. 1993. *An Anthropological Critique of Development: The Growth of Ignorance*. London: Routledge.
- Mair, L. 1984. *Anthropology and Development*. London: Macmillan.
- Malhotra, R. 1992. *Anthropology of Development*. New Delhi: Mittal.
- Mathur, H. M. 1977. *Anthropology in Development Process*. New Delhi: Vikas Publishing House.
- Mathur, H. M. 1990. *Human Dimension of Development: Perspective from Anthropology*. New Delhi: Concept Publishing House.
- Mayer, R. 1985. *Policy and Programme Planning*. New Jersey: Prentice-hall.
- Pathy, J. 1987. *Anthropology of Development*. Delhi: Gian Publishing House.
- Pitt-David, C. (ed.) 1976. *Development from Below: Anthropologists and Development Situation*. Chicago: The Hague: Mouton.

- Sardan, Jean-Pierre Olivier de. 2005. *Anthropology and Development: Understanding Contemporary Social Change*. London: Zed Books.
- So, A.Y. 1990. *Social Change and Development*. New Delhi: Sage Publications.
- Streeten. P. P.1995. *Thinking about Development*. Cambridge: Cambridge University Press.
- Subba, T. B. 1992. *Ethnicity, State and Development*. New Delhi: Vikas Publishing House.
- Vidyarthi, L.P. 1980. *Applied Anthropology and Development in India*. New Delhi: National Publishing House.

ANT-PG-C405: HUMAN GENETICS

Unit I: Human genetics

Fundamentals of human genetics, cell structure, cell division -mitosis and meiosis, linkage, crossing over, chromosome structure and chromosomal aberrations, gene, Watson-Crick model of DNA structure, types of RNA and their functions, genetic code.

Unit II: Methods of studying heredity

Mendelian principle of inheritance in human, modes of inheritance –autosomal (dominant, recessive and co-dominance), sex-linked genes, sex-influenced, sex-limited, lethal genes, modifying genes, suppressor genes, ABO, MN and Rh systems, sex determination, Lyon hypothesis.

Unit III: Population genetics

Hardy-Weinberg Law, genetic polymorphism, breeding population, mating patterns- random mating, assortative mating, consanguinity and inbreeding coefficient, genetic load.

Unit IV: Concept of genetic variation

Causes of genetic variation between and within human populations with special reference to the role mutation, selection, genetic drift, isolation and gene flow.

Suggested Readings

- Barua, S. 2002. *Human Genetics*. Kolkata: Classique Books.
- Crawford, M.H. (ed.). 2006. *Anthropological Genetics*. Cambridge: Cambridge University Press.
- Cummings, M. R. 2009. *Human Heredity: Principles and Issues*, 8th edition. Belmont, CA: Brooks.
- Gisli, P. 2007. *Anthropology and the New Genetics*. Cambridge: Cambridge University Press.
- Griffiths, A. J. F., *et. al.* 1999. *Introduction to Genetic Analysis*, 7th edition. New York: W H Freeman & Co.
- Hartwell, L.H. 2011. *Genetics: From Genes to Genomes*, 4th Edition. New York: McGraw-Hill.
- Hedrick, P. W. 2011. *Genetics of Populations*, 4th edition. Massachusetts: Jones and Bartlett Publishers.
- Jobling, M. E. *et. al.* 2014. *Human Evolutionary Genetics*, 2nd edition. New York: Tylor & Francis.
- Knight, J. C. 2009. *Human Genetic Diversity*. Oxford: Oxford University Press.
- Lewis, R. 2003. *Human Genetics: Concepts and Applications*, 9th edition. New York: McGraw-Hill.
- Mange, E. J. and A. P. Mange. 1999. *Basic Human Genetics*, 2nd ed. Massachusetts: Sinauer Associates, Inc.

- Maynard, S. J. 1999. *Evolutionary Genetics*. New York: Oxford University Press.
- Pasternak, J. J. 2005. *An Introduction to Human Molecular Biology*. New Jersey: John Wiley & Sons.
- Reddy, B.M. (ed.). 2008. *Trends in Molecular Anthropology*. Delhi: Kamla-Raj Enterprises.
- Relethford, J. H. 2001. *Genetics and the Search for Modern Human Origins*. New York: Wiley-Liss.
- Speicher, M. R., S. E. Antonarakis and A.G. Motulsky. 2010. *Vogel and Motulsky's Human Genetics*, 4th edition. Berlin: Springer-Verlag.
- Templeton, A. R. 2006. *Population Genetics and Microevolutionary Theory*. New Jersey: John Wiley & Sons.

ANT-PG-C406: FORENSIC ANTHROPOLOGY

Unit I: Introduction

Definition, scope and importance of forensic anthropology. Crime and related theories, treatment, aims and techniques of anthropology of crime including heredity, environment and criminal behaviour.

Unit II: Skeletal remains

Identification and differences between human and non-human bones, reconstruction of individual from the skeleton, estimation of age and ethnic identification, estimation of sex, stature reconstruction, morphology of human dentition and estimation of age from teeth.

Unit III: Importance of dermatoglyphics

Identification of living and dead individual through finger, palm and sole print, finger/palmer prints collection techniques, finger/palm print analysis.

Unit IV: Forensic haemogenetics

Biological evidences – identification of blood stain, semen, saliva and urine, disputed paternity and blood groups, DNA fingerprinting and other biochemical markers, somatometry and somatoscopy in personal identification.

Suggested Readings

- Black, S and E. Ferguson. 2011. *Forensic Anthropology: 2000 to 2010*. New York: Taylor & Francis.
- Chaurasia, B.D. 1983. *Handbook of General Anatomy*. Delhi: CBS.
- Cummins, H.H. and C. Midlo. 1961. *Finger Prints, Palms and Soles*. New York: Dover Publication Inc.
- Dwight, T. 1878. *The Identification of the Human Skeleton*. Boston: Massachusetts Medical Society.
- El-Najjar, M.Y. and K.R. McWilliams. 1978. *Forensic Anthropology*. Illinois: Charles C.Thomas.
- Hilson, S. 2002. *Dental Anthropology*. Cambridge: Cambridge University Press.
- Komar, D.A. and J. Buikstra. 2007. *Forensic Anthropology: Contemporary Theory and Practice*. Oxford: Oxford University Press.
- Krogman, W.M. 1962. *The Human Skeleton in Forensic Medicine*. Illinois: Charles C.Thomas.
- Nath, S. 1996. *An Introduction to Forensic Anthropology*. New Delhi: Gian Publications.

- Reddy, B.M., S.B. Roy and B.N. Sarkar. (eds.). 1991. *Dermatoglyphics today*. Kolkata: IIBRD publisher.
- Sen, T. 1994. *A Guide to Anthropometry*. Kolkata: The World Press Pvt. Ltd.
- Singh, I.P and M.K. Bhasin. 1989. *Anthropometry*. New Delhi: Kamala-Raj Enterprises.
- Steward, T. D. 1979. *Essentials of Forensic Anthropology*. Illinois: Charles C.Thomas.
- Ubelaker, D.H. 1989. *Human Skeletal Remains: Excavation, Analysis, Interpretation*, 22nd edition . Washington D.C: Taraxacum.

ANT-PG-C407: PRACTICAL IN PHYSICAL ANTHROPOLOGY – II

Unit I: Osteometry

Direct measurements on scapula, clavicle, humerus, ulna, radius, femur and tibia. Diaptograph tracing and measurements on scapula, clavicle, humerus, ulna, radius, femur and tibia.

Odontometry: Measurements on incisors and canines - total length, greatest breadth of crown, maximum anterior-posterior diameter of crown, minimum breadth of crown, height of crown. Measurements on premolars and molars - total tooth height, crown height, actual root length, projected root length, mesio-distal diameter and bucco-lingual diameter. *Indices* -crown index, crown module, incisor-breadth index and lower premolar index.

Unit II: Craniometry

Definition of landmarks, linear and angular measurements.

Linear measurements on Skull: Maximum cranial length, maximum cranial breadth, glabella-inion length, nasion-inion length, bi-mastoid diameter, bi-auricular breadth, maximum frontal breadth, minimum frontal breadth, bizygomatic breadth, nasion-prosthion length, nasal height, nasal breadth, orbital height, orbital breadth, palatal length, palatal breadth, maxillo-alveolar length, maxillo-alveolar breadth, length of foramen magnum, breadth of foramen magnum, frontal chord, parietal chord, occipital chord and horizontal circumference of skull.

Angular measurements on Skull: Angles with F.H. plane as base: facial profile angle, Nasal profile angle, Alveolar profile angle and Metopic angle, angles with Nasion-Inion plane as base: frontal angle of Schwalbe, Bregma angle of Schwalbe and Lambda angle of Schwalbe.

Unit III: Genetic markers

ABO, Rh and MN blood systems, total haemoglobin estimation, Dermatoglyphic of palms and fingers.

Unit IV: Physiological measurement

Pulse rate, body temperature, blood glucose test and blood pressure, colour blindness, PTC taste sensitivity.

Suggested Readings

- Cummings, R. M. 2009. *Human Genetics*. New Delhi: Cengage Learning India Pvt. Ltd.
- Cummins, H. H. and Midlo, C. 1961. *Finger Prints, Palms and Soles*. New York: Dover Publication Inc.
- Damon, A. 1975. *Physiological Anthropology*. New York: Oxford University Press.
- Das, B. M. and R. DeKa. 2001. *Physical Anthropology: Practical*. Allahabad: Kitab Mahal.
- Nunnally, B. 2008. *Analytical Techniques in DNA Sequencing*. USA: Taylor and Francis Group.

- Shukla, B.R.K. and S. Rastogi 2003. *Laboratory Manual of Physical Anthropology (Anthropometry and Osteology)*. Lucknow: Bharat Book Centre.
- Singh, I. P. and Bhasin, M. K. 1989. *Anthropometry*. New Delhi: Kamla Raj Enterprises.
- Singh, I. P. and Bhasin, M.K . 2004. *A Manual of Biological Anthropology*. New Delhi: Kamla Raj Enterprises.
- W.H.O. 1980. *Manual of Basic Technique for a Health Laboratory*. Calcutta: Academic Publishers.
- Walt, R. and Katharine, G. F. 1999. *Molecular Biology Techniques: An Intensive Laboratory Course*. New York: Academic Press.
- Weiner, J. S. and Laurie, J. A. 1969. *Practical in Human Biology*. Oxford: Blackwell Scientific Publications.
- Wolf, J. B. 2001. *Applied Molecular Biology: Beginning Laboratory Manual*. Baltimore: University of Maryland.