



Sri Venkateswara University :: Tirupati
DEPARTMENT OF ANTHROPOLOGY
M.Sc., Anthropology Course Scheme of Instruction and Examination
(With effect from 2021-2022)
CHOICE BASED CREDIT SYSTEM Pattern
The course of the study and scheme of examination

Semester	Particulars	No. of Credits	Total
I	CORE THEORY: 1. Introduction to Biological Anthropology 2. Introduction to Social Cultural Anthropology	8	24
	COMPULSARY FOUNDATION :3 Papers (select any one) 1. Introduction to Archaeological Anthropology 2. Indian Anthropology 3. Social Problems and Anthropology	4	
	ELECTIVE FOUNDATION: 3 Papers (select any one) 1.Economic and Political Anthropology 2. Human Ecology 3. Tribal Development in India	4	
	Practical -I : .Somatometry and Somatoscopy	4	
	Practical – II : Archaeological Anthropology	4	
	Audit Course : Human Values and Professional Ethics - I		
II	CORE THEORY: 1.Comparative Ethnography and Indian Anthropology 2. Principles of Genetics	8	24
	COMPULSORY FOUNDATION : 3 Papers (select any one) 1. Prehistoric India 2. Urban Anthropology 3. 3. Fieldwork Traditions	4	
	ELECTIVE FOUNDATION : 3 Papers (select any one) 1. Research Methods in Anthropology 2. Biology, Health and Disease 3. Early Civilizations	4	
	Practical -I : Doing Ethnography	4	
	Practical -II : Craniology and Craniometry	4	
	Audit Course : Human Values and Professional Ethics - II		
III	BIOLOGICAL ANTHROPOLOGY		24
	CORE THEORY: 1. Human Evolution and Fossil Evidence 2. Human Genetics	8	
	GENERIC ELECTIVES : 3 Papers (select any one) 1. Anthropological Demography 2. Forensic Anthropology 3. Epidemiology and Public Health	4	
	Practicals : 1. Dermatoglyphics and Human Osteometry	4	
	SKILL ORIENTED COURSE : (Theory=50 M + Practical =50M) 1. Bio statistics and Computer Applications	4	
	OPEN ELECTIVE: 1 Paper (For others): 1.Palaeoanthropology 2. Fundamentals of Anthropology	4	
III	SOCIAL CULTURAL ANTHROPOLOGY		24
	CORE THEORY: 1. Theories of Culture 2. Social Anthropology of Complex Societies	8	
	GENERIC ELECTIVES: 3 Papers (select any One): 1. Ecological Anthropology 2. Applied Anthropology- Indigenous Communities 3. Anthropology of Religion-Sacred Complexes In India	4	
	PRACTICAL: 1. Participatory Research Methods in Development Process	4	
	SKILL ORIENTED COURSE : : (Theory=50 M + Practical =50M) 1. Data Management and Computer Applications	4	
	OPEN ELECTIVE: 1 Paper (For others) : 1.Anthropology and Career Promotion 2. Tribal Studies	4	
IV	BIOLOGICAL ANTHROPOLOGY		24
	CORE THEORY: 1. Biological Anthropology 2. Human Population Genetics	8	
	GENERIC ELECTIVES : 3 Papers (select any one) : 1. Human Growth and Physique and Nutrition 2. Applied Biological Anthropology 3. Medical Genetics	4	
	PRACTICALS : 1. Advanced Biological Anthropology	4	
	MULTI DISCIPLINARY COURSE / PROJECT WORK : Field work and Dissertation , Viva-Voce	4	
	OPEN ELECTIVE: 1 Paper (For others): 1.Epidemiology 2. Applied Biological Anthropology	4	
IV	SOCIO CULTURAL ANTHROPOLOGY		24
	CORE THEORY: 1. Structural Anthropology 2. Developmental Anthropology	8	
	GENERIC ELECTIVES: 3 Papers (select any one) : 1. Medical Anthropology 2. Culture and Management 3. Anthropology of Displaced Populations	4	
	PRACTICALS: 1. Non- Government organizations and Extension studies	4	
	MULTI DISCIPLINARY COURSE / PROJECT WORK : Field work and Dissertation , Viva-Voce	4	
	OPEN ELECTIVE: 1 Paper (For others) : 1. Visual Anthropology 2. Environmental Anthropology	4	
Total credits			96
PS: Students can choose extra any number of external electives			

Semester-I

S.No	Components of study	Title of the Course	Title of the Paper	Credits Hrs/week	No. of Credit	IA Marks	Sem End Exam Marks	Total
1.	Core	1	Introduction to Biological Anthropology	6	4	20	80	100
2.		2	Introduction to Social –Cultural Anthropology	6	4	20	80	100
3.	Compulsory Foundation	3a	Introduction to Archaeological Anthropology	6	4	20	80	100
		3b	Indian Anthropology					
		3c	Social Problems and Anthropology					
4.	Elective Foundation	4a	Economic and Political Anthropology	6	4	20	80	100
		4b	Human Ecology					
		4c	Tribal Development in India					
5.	Practical -I	5	Somatometry and Somatoscopy	6	4	--	100	100
6.	Practical –II	6	Archaeological Anthropology	6	4	--	100	100
	Total			36	24	80	520	600
7.	Audit Course: Human values and professional Ethics-I			0	0	100	0	0

Semester-II

S.No	Components of study	Title of the Course	Title of the Paper	Credits Hrs/week	No. of Credit	IA Marks	Sem End Exam Marks	Total
1.	Core	1	Comparative Ethnography and Indian Anthropology	6	4	20	80	100
2.		2	Principles of Genetics	6	4	20	80	100
3.	Compulsory Foundation	3a	Prehistoric India	6	4	20	80	100
		3b	Urban Anthropology					
		3c	Field work Traditions					
4.	Elective Foundation	4a	Research methods in Anthropology	6	4	20	80	100
		4b	Biology, Health and Disease					
		4c	Early Civilizations					
5.	Practical -I	5	Doing Ethnography	6	4	--	100	100
6.	Practical –II	6	Craniology and Craniometry	6	4	--	100	100
	Total			36	24	80	520	600
7.	Audit Course: Human values and professional Ethics-II			0	0	100	0	0

(Specialization- B – Biological Anthropology)

Semester-III

S.No	Components of study	Title of the Course	Title of the Paper	Credits Hrs/week	No. of Credit	IA Marks	Sem End Exam Marks	Total
1.	Core	1	Human Evolution and Fossil Evidence	6	4	20	80	100
2.		2	Human Genetics	6	4	20	80	100
3.	Generic Elective	3a	Anthropological Demography	6	4	20	80	100
		3b	Forensic Anthropology					
		3c	Epidemiology and Public Health					
4.	Practicals	4	Dermatoglyphics and Human Osteometry	6	4	---	100	100
5.	Skill Oriented Course	5	Biostatistics and computer Applications	6	4	10	90 (40+50)	100
6.	Open Elective	6a	Palaeo Anthropology	6	4	20	80	100
		6b	Fundamentals of Anthropology					
	Total			36	24	90	510	600

Semester-IV

S.No	Components of study	Title of the Course	Title of the Paper	Credits Hrs/week	No. of Credit	IA Marks	Sem End Exam Marks	Total
1.	Core	1	Biological Anthropology	6	4	20	80	100
2.		2	Human Population Genetics	6	4	20	80	100
3.	Generic Elective	3a	Human Growth, Physique and Nutrition	6	4	20	80	100
		3b	Applied Biological Anthropology					
		3c	Medical Genetics					
4.	Practicals	4	Advanced Biological Anthropology	6	4	---	100	100
5.	Multi Disciplinary course/project work	5	Filed work, Dissertation, Viva-Voce	6	4	---	100	100
6.	Open Elective	6a	Epidemiology	6	4	20	80	100
		6b	Applied Biological Anthropology					
	Total			36	24	80	520	600

(Specialization - B : Social Cultural Anthropology)
Semester-III

S.No	Components of study	Title of the Course	Title of the Paper	Credits Hrs/week	No. of Credit	IA Marks	Sem End Exam Marks	Total
1.	Core	1	Theories of Culture	6	4	20	80	100
2.		2	Social Anthropology of Complex Societies	6	4	20	80	100
3.	Generic Elective	3a	Ecological Anthropology	6	4	20	80	100
		3b	Applied Anthropology- Indigenous communities					
		3c	Anthropology of Religion –Sacred complexes in India					
4.	Practicals	4	Participatory Research Methods in Community Development process	6	4	---	100	100
5.	Skill Oriented Course	5	Data Management and Computer Applications	6	4	10	90 (40+50)	100
6.	Open Elective	6a	Anthropology & Career Promotion	6	4	20	80	100
		6b	Tribal Studies					
	Total			36	24	90	510	600

Semester-IV

S.No	Components of study	Title of the Course	Title of the Paper	Credits Hrs/week	No. of Credit	IA Marks	Sem End Exam Marks	Total
1.	Core	1	Structural Anthropology	6	4	20	80	100
2.		2	Developmental Anthropology	6	4	20	80	100
3.	Generic Elective	3a	Medical Anthropology	6	4	20	80	100
		3b	Culture and Management					
		3c	Anthropology of Displaced Populations					
4.	Practicals	4	Non-Governmental Organizations and Extension studies	6	4	---	100	100
5.	Multi Disciplinary course/project work	5	Filed work, Dissertation, Viva-Voce	6	4	---	100	100
6.	Open Elective	6a	Visual Anthropology	6	4	20	80	100
		6b	Environmental Anthropology					
	Total			36	24	80	520	600

M. Sc., Anthropology Syllabus for I, II, III & IV Semesters
(Revised Syllabus Amended as per National Educational Policy - 2020)

(With effect from the batch admitted in the academic year -2021-2022)

CHOICE BASED CREDIT SYSTEM (CBCS)

**(First and Second Semesters are common for Specializations (A) Biological Anthropology
(B) Social Cultural Anthropology)**

SEMESTER – I

ANO : 101 - Core Theory : INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

Unit I: Meaning, Scope of Biological Anthropology. Relations with other Branches of Anthropology and with Biological, Social and Medical Sciences; Its historical development. Man's Place in the Animal Kingdom. Classification of Primates; Salient Feature of Primates; Primate behaviour with special reference to monkeys and apes Comparative Anatomy of Apes and Man

Unit II: Principles of Evolution – Speciation, Irreversibility, Parallelism and Convergence, Adaptive Radiation, Extinction and Theory of Orthogenesis; Theories of Organic Evolution - Lamarckism, Darwinism, Synthetic Theory.

Unit III: Human Origins and Evolution: Fossil Evidence-Pongid and Hominid, Emergence of Man: Evidences, Distribution and Pattern of Australopithecines, Homo erectus, Neandertal, Homo sapiens.

Unit IV: Race, Ethnicity and Populations: Concepts: Race, Racism; Classification of Races – Major Races of the World; Racial Criteria used for Racial Classification - Morphological, Serological and Genetic; Racial Classification of world population – Hooton, Coon, Garn and Boyd Racial Classification India Populations – Risley, Guha and Sarkar

Recommended Readings :

1. Buettner-Janusch, J. 1966. Origins of Man: Physical Anthropology. John Wiley & Sons, New York.
2. Buettner-Janusch, 1973. Physical Anthropology: A Perspective. New York: John Wiley and Sons.
3. Chiarelli, A.B. 1973. Evolution of the Primates: An Introduction to the Biology of Man. London: Academic Press.
4. Clark, Le Gross. W. E. 1962. The Antecedents of Man: An Introduction to the Evolution of the Primates. Edinburgh: Edinburgh University Press.
5. Clark, Le Gross, W. E. 1964. The Fossil Evidences of Human Evolution: An Introduction to the Study of Paleoanthropology. Chicago: University of Chicago Press.
6. Coon, C. S. 1965. The Origin of Races. New York: Alfred A. Knopf.
7. Das, B. M. 1999. Outlines of Physical Anthropology. New Delhi: Kitab Mahal.
8. Dobzhansky, T. 1962. Mankind Evolving: The Evolution of the Human species. New Haven: Yale University Press.

9. Hulse, F. S. 1963. *The Human Species: An Introduction to Physical Anthropology*. New York: Random House.
10. Montague, A. M. F. 1960. *An Introduction to Physical Anthropology*. Illinois: Charles C. Thomas Publishers.
11. Montagu, A. M. F. (Ed.). 1964. *The Concept of Race*. New York: The Free Press of Glencoe.
12. Napier, J. R. and Napier P.H. 1967. *A Handbook of Living Primates*. New York: Academic Press.
13. Pfeiffer, J.E. 1978. *The Emergence of Man*. New York: Harper and Row, Publishers.
14. Poirier, Frank, E. 1973. *Fossil Man: An Evolutionary Journey*. St. Louis: C.V. Mosby Company.
15. Shukla, B. R. K. and Rastogi, S. 2000. *Physical anthropology and Human Genetics - An Introduction*. Delhi: Palaka Prakash
16. Stein P. L. and Row, B. M. 1989. *Physical Anthropology*. New York: McGraw-Hill Book Company.
17. Turnbaugh, W. A., Nelson, H., Jurmain, R. and Kilgore, L. 1996. *Understanding Physical Anthropology and Archaeology*. New York: West Publishing House.
18. Weiss, M. L. and Mann, A. E. 1978. *Human Biology and Behavior: An Anthropological Perspective*. Boston: Little Brown.
19. Relethford, J.H. 2002. *An Introduction to Biological Anthropology*. Boston: Mc. Graw Hill.
20. Ember, C. Ember, M. and Peregrine, P. 2008 *Anthropology* (12th Edition] New Delhi: Prentice Hall of India.
21. Jurmain R, L. Kilgore and Trevathan, W 2010 *Essentials of Physical Anthropology*. [8th Edition New York, Wiley- Blackwell.

ANO : 102 - Core Theory : INTRODUCTION TO SOCIAL CULTURAL ANTHROPOLOGY

Unit I : Social-Cultural Anthropology: Meaning, Scope and Specializations; Basic Approaches: Holistic, Comparative, Historical, Nomothetic and Idiographic; Relationship to History, Psychology, Economics, Sociology, Management, Medical and Nutritional sciences.

Unit II : Basic Concepts: Society, Culture, Community, Association, Institution, Status and Role, Social Structure, Social Organization and Social Stratification.

Unit III : Family, Marriage and Kinship: Definition of Family and Marriage; Rules, Typology; Feminist Perspectives on Family and Marriage; Marriage Rules and Patterns of Marriage in Dravidian Kinship regions (Thomas T. Trautmann); Meaning and Sociological significance of Kinship; Classification of Kin terms; Descent: Rules and Descent groups; Kinship behavior.

Unit IV : Religion and Magic: Definition; Elements of Religion: Religious Beliefs; Ceremony; Ritual and Myth; Animism; Animatism; Taboo; Totemism; Ancestral Worship; Magic and Science; Types (J. Frazer).

Recommended Readings :

1. Beals, R. and Hoijer, H. 1971. *An Introduction to Anthropology*. London: Collier McMillan Company Ltd.
2. Bohannan, Paul. 1963 *Social Anthropology*. New York: Holt, Rinehart and Winston.
3. Child, A. B. and Child, I. I. 1975. *Religion and Magic in the Life of Traditional People*. Englewood Cliffs: Prentice-Hall, Inc.
4. Ember, C. R., Ember, M. and Peregrine, P. N. 2002. *Anthropology*. Delhi: Pearson Education Asia.

5. Evans-Pritchard, E. E. 1965. Theories of Primitive Religion. Oxford: Clarendon Press.
6. Firth, Raymond. 1956 Elements of Social Organization. London : Watts and Co.,
7. Fox, Robin. 1971. Kinship and Marriage: An anthropological Perspective. Harmondsworth: Penguin Books.
8. Herskovits, M. J. 1959. Cultural Anthropology. New Delhi:
9. Oxford & IBH Publications Co.
10. Hoebel, E.A and Weaver, T. 1979. Anthropology and the Human Experience. New York: McGraw Hill Book Company.
11. Kapadia, K.M. 1971. Marriage and Family in India. Calcutta: Oxford University Press.
12. Kottak, C. P. 1982. Anthropology: The Exploration of Human Diversity. New York: Random House.
13. Lowie, R.H. 1971. Social Organization. London: Routledge and Kegan Paul Ltd.
14. Murdock, G.P. 1965. Social Structure. Illinois: Free Press, Glencoe
15. Radcliffe-Brown, A. R. 1973. Structure and Function in Primitive Society. London: Routledge and Kegan Paul Ltd.
16. Scientific American. 1972. Biology and Culture in Modern Perspective. San Francisco: W. H. Freeman Company.
17. Stephens, W.N. 1963. The Family in Cross-cultural Perspective. New York: Holt, Rinehart and Winston.
18. Trautmann, T. R. 1998. Marriage Rules and Patterns of Marriage in the Dravidian Kinship Region. In. Family, Kinship and Marriage in India. (Ed.). Oberoi, P. New Delhi: Oxford.

ANO : 103 -3(a) – Compulsory foundation :

INTRODUCTION TO ARCHAEOLOGICAL ANTHROPOLOGY

Unit I: Meaning, definition and scope of archeological anthropology. Relationship to other Branches of Anthropology, Earth Sciences, Physical Sciences, Life Sciences and Social Sciences. Define environmental Archaeology and ethno-archaeology.

Unit II: A Brief Outline on the Origin of Earth and Life and Geological Time Scale. Pleistocene Epoch Chronology; Pleistocene - Holocene Interphase Changes, Tool Typology and Technology. Tool Families: Pebble Tools, Hand Axe-Cleaver Complex, Flake Tool Complex, Blade Tool Complex, Microliths and Ground and Polished Tools.

Unit III: Dating Methods: Absolute and Relative Dating: Stratigraphy, Dendrochronology, Thermo-luminescence Dating, Pollen Dating, Varve analysis, Uranium Dating, Potassium-Argon Method, and C-14 Dating.

Unit IV: Cultural Chronology - Paleolithic, Salient Features of the Lower, Middle and Upper Palaeolithic Cultures, Mesolithic and Neolithic Cultures and their Artificers.

Recommended Readings :

1. Agrawal, D.P. 1982. The Archaeology of India. London: Curzon Press
2. Barnouw, V. 1978. Physical Anthropology and Archaeology. Homewood: The Dorsey Press.
3. Bhattacharya, D. K. 1990. An Outline of Indian Prehistory. Delhi: Palaka Prakashan
4. Bordes, J. 1970. Tools of the Old and New Stone Age. New York: Natural History Press.
5. Bordes, F. 1968. The Old Stone Age. London: Weidenfeld & Nicholson.
6. Coles, J. M. and Higgs, E. S. The Archaeology of Early Man. London: Faber & Faber.
7. Daniel, G. 1967. The Origins and Growth of Archaeology. London: C.A. Watts & Co.

8. De Terra, H. and Paterson, T. T. 1939. Studies on the Ice Age in India and Associated Human Culture. Washington: Carnegie Institute, Publication No. 499.
9. Hole, F and Heizer, R. F. 1965. An Introduction to Prehistoric Archaeology. New York: Holt, Rinehart and Winston, Inc.
10. Kottak, C. P. 1982. Anthropology: The Exploration of Human Diversity. New York: Random House.
11. Michel, J. W. 1980. Dating Methods in Archaeology. Seminar Press.
12. Oakley, K. P. 1964. Man the Tool Maker. Chicago: University of Chicago Press.
13. Oakley, K. P. 1964. Frameworks for Dating Fossil Man. Chicago: Aldine Publishing Company.
14. Piggot, S. 1950. Prehistoric India. Harmondsworth: Pelican Books.
15. Rami Reddy, V. 1987. Elements of Prehistory. New Delhi: Mittal Publication.
16. Sali, S. A. 1990. Stone Age India. Aurangabad: Shankar Publications.
17. Sankalia, H.D. 1964. Stone Age Tools: Their Techniques, Names and Probable Functions. Poona: Deccan College Series.
18. Sankalia, H. D. New Archaeology - Its Scope and Application to India, Ethnographic and Folk Culture Society
19. Sankalia, H. D. 1974. Prehistory and Prehistory of India and Pakistan. Pune: Deccan College Series.
20. Sankalia, H. D. 1977. New Archaeology: Its Scope and Application to India. (D.N. Majumdar Memorial Lecture 1964) Lucknow: Ethno- graphic and Folk Culture.
21. Scientific American. 1972. Biology and Culture in Modern Perspective. San Francisco: W. H. Freeman Company.
22. Turnbaugh, W. A., Nelson, H., Jurmain, R. and Kilgore, L. 1996. Understanding Physical Anthropology and Archaeology. New York: West Publishing House.
23. Weitz, C. A. 1979. Introduction to Physical Anthropology and Archaeology. Englewood Cliffs: Prentice-Hall, Inc.
24. Zeuner, F. E. 1958. Dating the Past. London: Methuen & Co.

ANO : 103- 3 (b) – Compulsory foundation : INDIAN ANTHROPOLOGY

Unit- I : Unity and diversity in Indian society and culture : linguistic. Political , ethnic, communal and religious tensions and conflicts national integration.

Unit-II : Basis of traditional Indian social structure and life cycle: varnasharam dharma, purushartha, village : a part society : Jajmani system

Unit-III : Caste system- definition and criteria of caste system, varna and caste dominant caste Back ward castes and scheduled castes: statutory provisions.

Unit-IV : Major contributions of Indian Anthropologists M. N. Srinivas, S.C. Dube Andre Battlie and L. P. Vidyarthi.

Recommended Readings :

1. Allchin . B. & Allchin. T. The Rise of civilization in India and Pakistan, Cambridge University Press.
2. Sankalia, H. D. pre and proto History of India and Pakistan, Pune , Deccan college.
3. Karve, Irawathi, Kinship organization in India
4. Karve, Irawathi, Hindhu society – an interpretation.
5. Mandelbaum, D. Society in India
6. Marriot, M, Village Indl: Studies in the Little community.
7. Singh, K. People of India: An Introduction , Calcutta Anthropological survey of India.
8. Vidyarthi, L. P. Sacred complex of Kashi, A. Microcosm of Indian civilization, New Delhi, concept publication.

9. Leach, E. R. Aspects of caste in south India, Ceylon and North- West Pakistan.
10. Singer M; when a Great Tradition Modernizes.
11. Srinivas, M. N. Social change in Modern India.
12. Haimendorf, c. Tribes of India the struggle for survival..
13. Singh, K. S. Tribal Society in India.
14. Dube, S. C. India's changing villages.

ANO : 103 3 (c)– Compulsory Foundation : SOCIAL PROBLEMS AND ANTHROPOLOGY

Unit- I : Ecology : Basics concepts-Ecosystem, Ecological population , Symbiosis, Niche, adaptation and Homeostasis

Unit-II : Ecological Problems: Shifting Cultivation and Ecological imbalance.

Unit-III : Peasantry : Characteristics of Peasant life. Peasant Upheavals. Indian Peasantry (problem and prospects)

Unit-IV : Urban social problems : Family, Kinship and castes in Indian Peasantry (problem and prospects)

Recommended Readings :

1. Frake, C. D. 1962. Cultural Ecology and Ethnography. American Anthropologist. 64: 53-60.
2. Harris, M. 1968. The Rise of Anthropological Theory. New York: Thoma Y. Crusell. (Chapter 23. pp. 654-687.
3. Meggars, B. J. 1954. Environmental Limitation to the Development of Culture. American Anthropologist. 56: 801-824.
4. Hardesty, D. L. 1977. Ecological Anthropology. New York: Wiley and Sons.
5. Kothari, A. et al. 1998. Communities and Conservation. New Delhi: Sage Publications.
6. Moran, E. R. 1971. Human Adaptability: An Introduction to Ecological Anthropology. Colorado: Westview Press.
7. Netting, R. Mc, C. 1971. The Ecological Approach in Cultural Study. New York: Addison Wesley Modules in Anthropology. Module – 6 Sand Hill; Road, Menlo Park: Cummings Publishing Company.
8. Odum, E. P. 1991. Fundamentals of Ecology. Delhi: Nataraj Publishers.
9. Fox, Robin. 1971. Kinship and Marriage: An anthropological Perspective. Harmondsworth: Penguin Books.
10. Herskovits, M. J. 1959. Cultural Anthropology. New Delhi:
11. Oxford & IBH Publications Co.
12. Hoebel, E.A and Weaver, T. 1979. Anthropology and the Human Experience. New York: McGraw Hill Book Company.
13. Kapadia, K.M. 1971. Marriage and Family in India. Calcutta: Oxford University Press.
- Kottak, C. P. 1982. Anthropology: The Exploration of Human Diversity. New York: Random House
14. Foster, G. M. 1965. Peasant Society and the Image of the Limited Good. American Anthropologist. 63: 293-315.
15. Halperin, R. 1977. Peasant Livelihood: Studies in Economic Anthropology and Cultural Ecology. New York: St. Martins.
16. Redfield, R. 1956. Peasant Society and Culture: An Anthropological Approach to Culture. Chicago: university of Chicago Press.
17. Rudolph, K. and Rudolf, L. 1960. The Political Role of India's Caste Associations. Pacific Affairs Vol. XXXIII No.1
18. Shanin, T. (Ed). 1970. Peasant and Peasant Societies. New York: Penguin Books.

ANO : 104- 4 (a) – Elective Foundation : ECONOMIC AND POLITICAL ANTHROPOLOGY

Unit I: Economic Anthropology: Definition and Scope; Social Framework; Formalist – Substantives Controversy. Basic Concepts: Economic Organization; Concept of Property; Primitive Communism; Division of Labour; Barter; Reciprocity and Redistribution; Ceremonial Exchange; Subsistence Economy and Market Economy.

Unit II: Economic Organization: Types of Traditional Economic Organization: Hunting-Gathering/Fishing/Pastoralism/Horticulture/Shifting/Settled Agriculture; Modernization of Peasant Economics. Globalization and impact of capital penetration in traditional Societies

Unit III: Political Organization: Meaning and Scope; Basic Concepts: Power and Authority; Sanction; Leadership; Law and Customary Law; Cultural background of Law; Laws in Cross-cultural Perspectives: Eskimo Law; Ifugao Law; Nuer Law and Ashanti Law.

Unit IV: Political Systems: Types: Stateless and State Systems; Band; Tribe; Chieftains; Kingship; State: Local Institutions: Panchayats (Traditional and Statutory); Decision by Consensus: F. G. Bailey; Factions: Ralph W. Nicholas.

Recommended Readings:

1. Balandier, Georges. 1970. Political Anthropology. pp. 1-12
2. Banton, Michael. (Ed.) 1965. Political System and the Distribution of Power. ASA Monograph 2. London: Tavistock Publications. (pp. 1 - 60)
3. Beals, R. and Hoijer, H. A. 1977. An Introduction to Anthropology New York: Macmillan Publishing Company, Inc.
4. Bohannan, Paul. 1963. Social Anthropology. New York: Holt, Rinehart and Winston
5. David Hocks and Margaret A. Gwynne. 1994. Cultural Anthropology. Harper Collins College Publications, (pp. 207 – 229)
6. Dalton, George 1971. Traditional Tribal and Peasant Economies: An Introductory Survey of Economic Anthropology. A Mc Calab Module in Anthropology. An Addison-Wesley Module, Massachusetts: Addison-Wesley publishing Co. Inc.
7. Fried, Morton H. 1976. Explorations in Anthropology. New York: Dutton and Dutton Publishing Company.
8. Gould, H. A. 1971 Caste and Class: A Comparative View. A Mc Calab Module in Anthropology. Massachusetts: Addison-Wesley Publishing Co. Inc.
9. Herskovits, M.J. 1974. Economic Anthropology. New Delhi: Eurasia Publishing House (p) Ltd.
10. Hoebel, A. and Weaver, T. 1979. Anthropology and Human Experience. McGraw-Hill Book Company. pp 486–518
11. Keesing, R.M. & Keeling, F.M. 1971. New Perspectives in Cultural Anthropology. New York: Holt, Rinehart and Winston.
12. Kottak, C. P. 1982. Anthropology: The Exploration of Human Diversity. New York: Random House.

ANO : 104 – 4 (b)- Elective Foundation : HUMAN ECOLOGY

Unit- I : Human Ecology : Definition , Terms and concepts, Types of Habitat and Scope

Unit-II : Human Variation : Sources and Evidences, Ecological Evaluation and Adaption.

Unit-III : Human Growth, and development: An Environmental Perspective, Reactivity , Eco-Sensitivity, Adaptability of Human organism.

Unit-IV : Genetic Adaption : Differential Fertility and Mortality, Survival Indices, quality of Life and Fitness.

Recommended Readings :

1. Barth, F. 1956. Ecological Relationships of Ethnic Groups in Swat, Northern Pakistan. *American Anthropologist*, 58: 79
2. Beals, A. R. 1974. *Village Life in South India: Cultural Design and Environmental Variation*. Aldine Publishing Company, Chicago.
3. Conklin, H. C. 1954. An Ecological Approach to Shifting Agriculture. *Transactions of the New York Academy of Sciences Series 2*. 17: 133-142.
4. Fikret B. (Ed.). *Common Property Resources: Ecology and Community Based Sustainable Development*. London: Belhaven Press - A Division of Printer Publishers. (Chapter 3: Natural Resources: Access Rights-to-Use and Management. Pp. 33-54).
5. Harrison, G. A., Tanner, J. M., Pilbeam, D. R. and Baker, P. T. (Eds.). 1988. *Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability*. Oxford: Oxford University Press.
6. Lewis, R. 2001. *Human Genetics: Concepts and Applications*. London: McGraw Hill.
7. Little, M. A. and Haas, J. D. 1989. *Human Population Biology: A Transdisciplinary Science*. New York: Oxford University Press.
8. Nussbaum, Robert L., McInnes, Roderick R. and Willard, Huntington F. 2001. *Thompson and Thompson's Genetics in Medicine*. Philadelphia: W. B. Saunders Company.
9. Schutkowski, H. Berlin 2006 *Human Ecology: Bio- Cultural adaptations in human communities*-Springer Verlag.
11. Brown D E. 2010 *Human Biological Diversity- An introduction to human biology*.
12. Barry Bogin, *Patterns of Human Growth*, 2nd ed. (1991) Cambridge University, London.
13. J.M. Tanner, *Growth at Adolescence*, 2nd ed. (1962) Oxford ; Blackwell Scientific..
14. Kaushik Bose *Concept of Human physical growth and development* (03-10-2007) URL No. <http://nsdl.niscair.res.in/jspui/handle/123456789/243>
15. Harrison, G. A., Tanner, J. M., Pilbeam, D. R. and Baker, P. T. (Eds.). 1988. *Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability*. Oxford: Oxford University Press.
16. Garm, S.M. and Zvishamir. 1958. *Methods for Research in Human Growth* Charless. C. Thomas publishers, Springfield, Illinois.
17. Indian Council for Medical Research, 1989. *Growth and Physical Development of Indian infants and children*. Tech. Rep. ser.,18. New Delhi.
18. Singh, I.P. and Bhasin, M.K. 1968 *Anthropometry*, Bharathi Bhavan Delhi.
19. Watson, E.H. and Lowrey, G.H. 1954. *Growth and development of children*. The year book publishers, Inc. Chicago, pp.296.
20. Nag, M. 1962. *Factors Affecting Human Fertility in Non-Industrial Societies: A Cross-Cultural Study*. Yale University Publication in Anthropology. No. 66.
21. Swedlund, A. C. and Armelagos, G. J. 1976. *Demographic Anthropology*. Dubuque: WM. C. Brown Company Publishers.
22. Thomlinson, R. 1976. *Population Dynamics: Causes and Consequences of World Demographic Change*. New York: Random House.
23. Weiss, K.M. and Ballonoff, P. A. (Eds.). 1975. *Demographic Genetics*. Pennsylvania: Hutchinson & Ross.

ANO : 104 – 4(c)- Elective Foundation : TRIBAL DEVELOPMENT IN INIDA

Unit- I : Concept and Definition of Tribe : Definition and classification of Tribe; Approaches towards Tribal development during pre and post independent period, Constitutional safeguards for Schedule Tribes; Fifth & Sixth schedules.

Unit-II : Tribal Development Administration : Tribal Sub- Plan- Integrated Tribal Development Agency (ITDA). Modified Area Development Agency(MADA), Cluster, Disperse Tribal Development Plan (DTDP) and Micro project.

Unit-III : Constitutional bodies and institutional arrangement for Tribal Development National Commission for STs, Tribal Advisory Council, Tribal Welfare Department, Tribal Research Institute.

Unit-IV : Development Initiative- Implementation and Impact of R& R Act, PESA and FRA.

Recommended Readings:

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

ANO : 105 – Practical – I : SOMATOMETRY AND SOMATOSCOPY

Unit I: Anthropometry and Anthropometric Instruments: Different Divisions of Anthropometry; Description of Anthropometric Instruments Used in the Practicals; Instrumental Errors and Description of Landmarks.

Unit II: Somatometric Measurements on Head and their Indices: Maximum Head Length, Maximum Head Breadth, Head Circumference, Minimum Frontal Breadth, Maximum Bizygomatic Breadth, Bigonial Breadth, Nasal Height, Nasal Length, Nasal Breadth, Morphological Facial Height, Morphological Upper Facial Height and the Indices.

Unit III: Somatometric Measurements on Body and their Indices: Height Vertex (Stature), Body Weight, Sitting Height, Biacromial Breadth, Chest Breadth (Transverse), Chest Depth (Sagittal),

Chest Girth (Inspiration, Expiration and Normal), Total Right Upper Extremity Length / Total Right Lower Extremity Length, Right Upper Arm Length, Right Fore Arm Length, Right Hand Breadth, Right Hand Length, Right Foot Length, Right Foot Breadth, Upper Arm Girth, Skin fold Measurement at Biceps, Triceps, Sub scapular and Supra-Iliac.

Unit IV: Somatoscopic Observations on Living Individuals: Head Form; Hair – Colour and Form; Eye – Colour and Form; Nose Form and Skin Colour.

Recommended Readings:

1. Comas, J. 1960. Manual of Physical Anthropology Springfield: Charles C. Thomas and Co.
2. Croney, John. 1981. Anthropometry for Designers New York: Van Nostrand Reinhold Company.
3. Das, B. M. and Deka, R. 1993. Physical Anthropology Practical. Allahabad: Kitab Mahal.
4. France, D. L. and Horn, A. D. 1992. Lab Manual and Workbook for Physical Anthropology. St. Paul: West Publishing Company.
5. Ghoshmaulik, S. K., Rath, B. and Mishra, S. K. 1990. Practical Anthropology. Bhubaneswar: Society for Anthropological and Archaeological Studies, Orissa.
6. Kelso, J. and Ewing, G. 1985. Introduction to Physical Anthropology Laboratory Manual. Boulder: Pruett Press, Inc.
7. Lohman, T. G., Roche, A. F. and Martorell, R. 1988. Anthropometric Standardization Reference Manual. Champaign: Human Kinetics Books.
8. Montague, A. M. F. 1960. A Handbook of Anthropometry. Springfield: Charles C. Thomas and Co.
9. Singh, I. P. and Bhasin, M. K. 1968. Anthropometry. Delhi: Kamalraj Publications.
10. Wiener, J. S. and Lourie J. A. 1969. Human Biology: A Guide to Field Methods. London: Blackwell Scientific Publications.
11. Wiener, J. S. and Lourie, J. A. 1981. Practical Human Biology. London: Academic Press.
12. Wolfe, L. D. and Lieberman, L. S. 1990. Physical Anthropology: Laboratory Textbook. Raleigh: Contemporary Publishing Company.
13. Sing, Inder P., and Bhasin, M.K. 2004. A manual of Biological Anthropology Kamal-Raj Enterprises, Delhi.

ANO :106- Practical- II: ARCHAEOLOGICAL ANTHROPOLOGY

Unit I: Drawing, Description and Measurement of Tool Families belonging to Paleolithic cultural Period

Unit II: Drawing, Description and Measurement of Tool Families belonging to Mesolithic cultural Period

Unit III: Drawing, Description and Measurement of Tool Families belonging to Neolithic cultural Period

Recommended Readings :

1. Bhattacharya, D. K. 1979. Old stone Age Tools: A Manual of Laboratory Techniques of Analysis. Calcutta: K. P. Bagchi & Company.
2. Bordes, F. 1968. The Old Stone Age. London: Weidenfeld & Nicholson.
3. Cornwall, I. W. 1958. Soils for the Archaeologist. London: Phoenix House.
4. Jackson, M.L. Physical and Chemical Analysis of Soil. Englewood Cliffs: Prentice-Hall
5. Oakley, K. P. 1964. Man the Tool Maker. Chicago: University of Chicago Press, Phoenix Books.
6. Oakley, K. P. 1964. Frameworks for Dating Fossil Man. Chicago: Aldine Publishing Company.

7. Sankalia, H. D. 1971. Stone Age Tools and Techniques. Deccan College, Pune
8. Sankalia, H. D. 1994. Stone Age Tools: Their Techniques, Names and Probable Functions. Poona: Deccan College Series.
9. Shackley, M. L. 1975. Archaeological Sediments: A Survey of Analytical Methods. New York: Butterworth.

ANO : 107 - AUDIT COURSE : HUMAN VALUES AND PROFESSIONAL ETHICS - I

UNIT-I : Definition and Nature of Ethics-its relation to Religion, Politics, Business, Legal, Medical and Environment. Need and Importance of Professional Ethics-Goals –Ethics values in various professionals.

UNIT –II : Nature of Values –Good and Bad, Ends and means, Actual and potential values, objectives and subjective values, Analysis of basic moral concepts-right, ought duty obligation justice, responsibility and freedom. Good behavior and respect for elders, character and conduct.

UNIT – III : Ahimsa (non-violence) satya (truth), Brahmacharya (Elibacy), Asteya (non-possession) and Aparigraha (non-stealing). Purusharthas (Cardinal virtues) –Dharma (Righteousness), Artha (wealth) Kama (Fulfillment Bodily Desires) Moksha (Liberation).

UNIT – IV : Bhavad Gita-(a) Niskama karma. (b) Buddhism-The Four Noble truths-Arya Astanga marga, (c) Jainism-mahavrats and anuvrats. Values embedded in various religions, religious tolerance, Gandhian ethics.

UNIT – V : Crime and theories of punishments – (a) Reformatory, Retributive and Deterrent (b) views on Manu and Yajnavalkya.

References :

1. R. Subramanyam. Professional ethics, Oxford University Press.
2. John S Mackenzie: A manual of Ethics
3. The Ethics of Management by Larue Tone Hosmer. Richard D. Irwin Inc
4. Management ethics integrity at work by Joseph A. Petrick and John F Quinn Response Books: New Delhi.
5. Ethics in management by S.A. Sherlekar Himalaya publishing house.
6. Harold H. Titus: Ethics for today
7. Maitra, S.K. Hindu Ethics
8. William Lilly: Introduction to Ethics
9. Sinha: A Manual of Ethics
10. Manu: Manava Dharma Sastra or the institute of Manu: Comprising the Indian system Samh of Duties: Religious and Civil (ed) G C. Halington.
11. Susruta Samhita: Tr. Kaviraj Kunjanlal, Kunjalal Brishagratha. Chowkarnba Sanskrit series. Vol.LII and III Varanasi Vol.I 00,16'20,21,-32 and 74-77 only.
12. Caraka Samhita: Tr. Dr. Ram Karan Sarma and Vaidya Bhagavan Dash, Chowkambaha Sanskrit series. Varanasi I, 11.111 Vol IPP 183-191.
13. Ethics, theory and Contemporary Issues. Barbara Makinnon Wadsworth/Thomson learning, 2001.
14. Analyzing Moral Issues, Judith A. Boss. May Field Publishing Company – 1999.
15. An Introduction to Applied Ethics (Ed) John H. Piet and Ayodhya Prasad.
16. Text Book for Intermediate First Year Ethics and Human Values. Board of Intermediate Education – Telugu – Akademi, Hyderabad.
17. I.C Sharma Ethical Philosophy of India. Nagin & co Julundhar.

SEMESTER - II

ANO : 201 – Core Theory : COMPARATIVE ETHNOGRAPHY AND INDIAN ANTHROPOLOGY

Unit I: Ethnology and Ethnography – Meaning, Scope and Method; Major Ethnological Regions of the World.

Unit II: Peoples and Cultures of India – Ethnic and Linguistic Classifications; Caste, Tribe, Dalits and Minorities (Broad Features and Identities); The Aryan controversy; Caste, family, marriage, kinship, authority and female autonomy in South India and North India.

Unit III: Traditional Indian Culture – Hindu Religious and Philosophical Traditions; Jajmani System and agrarian economy; Joint family; India as a Cultural Region; Ethnicity and pluralism; Sanskritization; Westernization; Modernization.

Unit IV: Contributions to Indian Anthropology – V. Elwin; N. K. Bose; I. Karve; M. N. Srinivas; S. C. Dube; S. C. Sinha; C. V. Furer-Haimendorf, L.P. Vidyarthi, Milton Singer
Contemporary India: Globalization and Indian culture and society

Recommended Readings :

1. Cohn, B. S. 1975. India: Social Anthropology of a Civilization. Englewood Cliffs: Prentice-Hall.
2. Elwin, V. 1959. A Philosophy for NEFA. Shillong: Sachin Roy on behalf of the North-East Frontier Agency.
3. Elwin, V. 1965. Tribal World of Elwin.
4. Forde, C. D. 1963. Habitat, Economy and Society: A Geographical Introduction to Ethnology. New York: Dutton and Company
5. Government of India. 1973. Tribal People of India. New Delhi: Publications Division, Ministry of Information and Broadcasting.
6. Haimendorf, C. 1982. Tribes of India, the Struggle for Survival. Delhi: Oxford..
7. Karve, I. Hindu Society - an Interpretation
8. Leach, E. R. Aspects of Caste in South India, Ceylon and North-West Pakistan
9. Linton, R. 1955. The Tree of Culture New York: Harper & Row Publishers.
10. Majumdar, D. N. 1973. Races and Cultures of India. Bombay: Asia Publishing
11. Mandelbaum, D. 1970. Society in India. Bombay: Popular Prakashan.
12. Oswald, W. H. 1972. Other Peoples and Other Customs: World Ethnography and Its History. New York: Holt, Rinehart and Winston.
13. Singer, M. 1972. When a Great Tradition Modernizes: An Anthropological Approach to Indian Civilization. New York: Praeger.
14. Singh, K. People of India: An Introduction. Anthropological survey of India, Calcutta
15. Singh, K. S. Tribal Society in India.
16. Srinivas, M. N. 1962. Caste in Modern India and other Essays. London: Asia Publishing House.
17. Vidyarthi, L. P. and Rai, B. K. 1993. Tribal Cultures of India New Delhi: Concept Publishing House.
18. Middleton, J. 1976. Studies in Social and Cultural Anthropology. New York: Thomas Cromwell & Co.

ANO : 202 – Core Theory : PRINCIPLES OF GENETICS

Unit I: Meaning and Scope of Genetics; Brief History and Development of Genetics. Basic concepts and principles

Unit II: Biology of Cell: Structure, Function and Biological Significance. Cell Division: Mitosis and Meiosis and their Genetic Significance.

Unit III: Mendelian Laws of Heredity in Man. Patterns of Inheritance in Man: Autosomal dominant and recessive, Sex-linked dominant and recessive, Sex-limited and Sex- Influenced. Additive (Codominant).

Unit IV: Multiple allelism and Polygenic Inheritance with suitable examples. Blood groups and their Anthropological Perspectives. The ABO, Rh, and MN System.

Recommended Readings :

1. Bodmer, W. F. and Cavalli-Sforza, L. L. 1976. Genetics, Evolution and Man. San Francisco: W. H. Freeman and Company.
2. Buettner-Janusch, J. 1966. Origins of Man: Physical Anthropology. New York: John Wiley and Sons.
3. Buettner-Janusch, 1973. Physical Anthropology: A Perspective. New York: John Wiley and Sons.
4. Cummins, A. and Midlo, C. 1962. Finger Prints, Palms and Soles: An Introduction to Dermatoglyphics. New York: Dover.
5. Das, B.M. 1999. Outlines of Physical Anthropology. New Delhi: Kitab Mahal.
6. Downs, J. F. and H. B. Bleibtreau 1969. Human Variation: An Introduction to Physical Anthropology London: Collier - Macmillan & Co.
7. Holt, S. B. 1978. The Genetics of Epidermal Ridges. Springfield: Charles C. Thomas and Company.
8. Emery, A. E. H. 1983. Elements of Medical Genetics. Edinburgh: Churchill Livingstone.
9. Pai, A. C. 1985. Foundations of Genetics: A Science for Society. New York: McGraw Hill Book Company.
10. Peter Snustad, D. and Michael J. Simmons, 2003. Principles of Genetics. New York: John Wiley & Sons, Inc.
11. Race, R. R. and Sanger, R. 1975. Blood Groups in Man. Oxford: Blackwell Scientific Publications.
12. Shukla, B. R. K. and Rastogi, S. 2000. Physical Anthropology and Human Genetics. Delhi: Palaka Prakashan.
13. Robert H. Tammarin, 2002. Principles of Genetics. Delhi: Tata Mc. Graw-Hill publishing company limited.
14. Singh, B.D. 2004. Fundamentals of Genetics. New Delhi: kalyani publishers.
15. Stern, C. 1973. Principles of Human Genetics. San Francisco: W. H. Freeman and Company.
16. Vogel, F and Motulsky, A.G. 1982. Human Genetics: Problems and Approaches. New York: Springer Publications.

ANO : 203 – 3 (a) - Compulsory Foundation : PREHISTORIC INDIA

Unit I: Prehistory of India: Regional Distribution of Lower Paleolithic, Middle Paleolithic and Upper Paleolithic Cultures.

Unit II: Mesolithic Cultures: Climatic Changes, Typo-Technology, Habitat, Economic Activity and Socio-Religious features; Indian Mesolithic Cultures.

Unit III: Neolithic: Northern Zone, North-East Zone, Central Zone and Southern Zone; Harappan Civilization:

Unit IV: Copper and Iron age, Features and Distribution Megaliths.

Recommended Readings:

1. Agrawal, D.P. 1982. The Archaeology of India. London: Curzon Press
2. Allchin, B. and Allchin, F. R. 1968. The Birth of Civilization. Harmondsworth: Penguin Books
3. Allchin, B and Allchin, F. R. 1982. The Rise of Civilization of India and Pakistan. Cambridge: Cambridge University Press
4. Banerjee, N. R. 1965. Iron Age in India. Delhi: Munshiram Manoharlal
5. Barnouw, V. 1978. Physical Anthropology and Archaeology. Homewood: The Dorsey Press.
6. Bhattacharya, D.K. 2006. An Outline of Indian Prehistory. Delhi: Palaka Prakashan
7. Bordes, F. 1968. The Old Stone Age. New York: World University Press.
8. Brothwell, D. and Higgs, E. (Ed). 1970. Science in Archaeology. London: Thames & Hudson.
9. Butzer, K. W. 1971. Environment and Archaeology: An Ecological Approach to Prehistory. Chicago: Aldine.
10. Chakrabarti, D. K. 1992. The Early Use of Iron in India. Delhi: Oxford University Press.
11. Clark, D. L. 1968. Analytical Archaeology. London: Methuen & Co. Ltd
12. Coles, J. M. and Higgs, E. S. The Archaeology of Early Man. London: Faber & Faber
13. Hester, J. J. Introduction to Archaeology. New York: Holt, Rinehart and Winston.
14. Kennedy, A. R. and Gregory, L. P. Studies in Archaeology and Palaeoanthropology of South Asia. London: Oxford & IBH Publishing Co.
15. Oakley, K. P. 1951. Man the Tool Maker. London: Weidenfeld and Nicolson.
16. Ramana, M. S. 1983. Megaliths of South India and South-East Asia. Madras: New Era Publications.
17. Rami Reddy, V. 1989. Palaeolithic and Mesolithic Cultures. New Delhi: Mittal Publication.
18. Rami Reddy, V. 1991. Neolithic and Post-Neolithic Cultures. New Delhi: Mittal Publication.
19. Sankalia, H. D. 1977. New Archaeology: Its Scope and Application to India. (D.N. Majumdar Memorial Lecture 1964) Lucknow: Ethno- graphic and Folk Culture Society.
20. Sankalia, H. D. 1974. Prehistory and Protohistory of India and Pakistan. Pune: Deccan College Series.
21. Turnbaugh, W. A., Nelson, H., Jurmain, R. and Kilgore, L. 1996. Understanding Physical Anthropology and Archaeology. New York: West Publishing House.
22. Bailey, G & Pspikns (Edn 2008) Mesolithic Europe Cambridge Uni Press
23. Possehi, G 2002. Harappan civilization A contemporary perspective New Delhi: Vistar Pub.

ANO : 203 -3 (b)- Compulsory Foundation : URBAN ANTHROPOLOGY

Unit- I : History of Urbanization : Cultural process, theory-orthogenetic-Cultural Transformation Heterogenitic Cultural Transformation, Chicago School Folk – Urban Continuum, Urbanization and Urbanism.

Unit- II : Urban Environment and Ecological Processes : General Structure of Cities, Concentric Zone, Multiple Nuclei, Minor Nuclei, Slums, Suburbs and Satellites; Land use patterns ; Growth

Unit- III : Urban Ethnicity : Concept of Ethnicity : Formation of Language, Religious and Ethnic Groups Ethnic identity Ethnic Behavior : Ethnicity among Urban Immigrants; Ethnic Conflicts and its effects on Urban Folk.

Unit- IV : Urbanization and Industrialization in India: Cultural complexity and Urban society, Urbanism and Social organization; Social Categories : caste, Kinship and other forms of Associations Life styles of Urban Folk; Urban immigrants; Regional – Linguistic Patterns of Immigrants, Structural Factors responsible for the inflow from Rural areas.

Unit- V : Urban Development : Problems and Perspectives, Urban Poverty, relevance of Anthropology to Urban Industry, Business and Corporate Sectors; Urbanization and Social Change in India.

Recommended Readings :

1. Banton, M. (Ed.). 1966. Social Anthropology of Complex Societies. London: Tavistock Publications.
2. Basham, R. and Degroot, D. 1977. Current Approaches to the Anthropology of Urban and Complex Societies. American Anthropologist. 79: 414-440.
3. Beidelman, T. O. 1959. A Comparative Analysis of the Jajmani System. Locust Valley, New York: Monograph of the Association for Asian Studies, No.8.
4. Betteille, A. 1974. Six Essays in Comparative Sociology. Delhi: Oxford University Press.
5. Blanter. 1976. Anthropological Study of Cities. ARA.
6. Eisenstadt, S. N. 1961. Anthropological Studies of Complex Societies, Current Anthropology, Vol.2, 201-210.
7. Fox, R. G. 1977. Urban Anthropology: Cities in their Cultural Setting. New York: Prentice-Hall.
8. Marriott, M. (Ed.). 1972. Village India: Studies in the Little Community. Chicago: The University of Chicago Press.
9. Rudolph, K. and Rudolf, L. 1960. The Political Role of India's Caste Associations. Pacific Affairs Vol. XXXIII No.1
10. Shah, A. M. Baviskar, B. S. and Ramaswamy, E. A.1996. Social Structure and Change. Vol. 3. Complex Organizations and Urban Communities. New Delhi: Sage Publications. Chapters 1, 4, 5 and 10.
11. Sharma, K. L. 1972. 'Modernization and Rural Stratification: An Application at the Micro-Level. Economic and Political weekly, Vol. 37.
12. Singer, M. When a Great Tradition Modernizes: An Anthropological Approach to Indian Civilization. New York: Praeger.

ANO : 203 -3 (c)- Compulsory Foundation : FIELD WORK TRADITIONS

Unit I: Field Work Tradition in Anthropology; Approaches: Emic-Etic, Macro-Micro Methods

UNIT 2: Ethnography, Comparative Method, Genealogical Method, Case Study and Survey.

Unit III: Participatory Rural Appraisal (PRA): Conventional Research Methodology; Genesis of PRA; Critical Appraisal of PRA; Prerequisites for PRA.

Unit IV: Social Mobilization and Extension: Meaning and Nature; Development of Tourism: A Critique; Demand Driven Approach.

Recommended Readings:

1. Bernard, H. R. 1988. Research Methods in Cultural Anthropology. London: Sage Publications.
2. Cohen, L. 1963. Statistical Methods of Social Scientists: An Introduction. New Delhi: Prentice - Hall of India (p) Ltd.
3. Danda, A. Research Methodology in Anthropology. Inter-India New Delhi
4. Goode, J. and Hatt, P. K. 1962. Methods in Social Research, New York: Mc Graw Hill Book Company.
5. Kothari, C. R. 1997. Research Methods: Methods and Techniques. Delhi: Wishwa Prakashan.
6. Madge, J. 1952. Tools of Social Science. New York: Free Press of Glencoe

ANO : 204 – 4 (a)-Elective Foundation : RESEARCH METHODS IN ANTHROPOLOGY

Unit I: Field Work Tradition in Anthropology; Approaches: Emic-Etic, Macro-Micro Methods: Ethnography, Comparative Method, Participant Observation, Genealogical Method, Case Study and Survey.

Unit II: Research Design: Review of Literature, statement of the research problem; Objectives, Hypotheses, Research Questions, Conceptual Model, Types of Research Design.

Unit III: Techniques of Data Collection: (a) Primary Sources: Observation, Interview, Key Informants, Schedule and Questionnaire, Life History, Focus Group Discussion, Scaling Techniques, (b) Secondary Sources: Census, National Sample Survey, Documents and Records, Maps, National and International Reports (UNDP, World Bank, UNICEF, etc.); Archaeological Methods – Exploration, Excavation and Documentation.

Unit IV: Statistical Methods and Research Report: Sampling, Classification and Tabulation of Data, Variables, Measures of Central Tendency and Dispersion; Hypothesis Testing Statistics: t-Test and χ^2 Test; Different Types of Reports. Preparation of Anthropological Research Report.

Recommended Readings

1. Bernard, H. R. 1988. Research Methods in Cultural Anthropology. London: Sage Publications.
2. Cohen, L. 1963. Statistical Methods of Social Scientists: An Introduction. New Delhi: Prentice - Hall of India (p) Ltd.
3. Danda, A. Research Methodology in Anthropology. Inter-India New Delhi
4. Goode, J. and Hatt, P. K. 1962. Methods in Social Research, New York: Mc Graw Hill Book Company.
5. Kothari, C. R. 1997. Research Methods: Methods and Techniques. Delhi: Wishwa Prakashan.
6. Madge, J. 1952. Tools of Social Science. New York: Free Press of Glencoe
7. Royal Anthropological Institute. 1967. Notes and Queries on Anthropology. London: Routledge and began Paul
8. Sundar Rao, P. S. S. and Richard, J. 1996. An Introduction to Biostatistics. New Delhi: Prentice-Hall of India.
9. Thomas, D. H. 1976. Figuring Anthropology: First Principles of Probability and Statistics. New York: Holt, Rinehart and Winston.

ANO : 204 – 4 (b)-Elective Foundation : BIOLOGY, HEALTH AND DISEASE

Unit- I : Reproductive Health of Mankind : Meaning and Definition, the Reproductive Health situation in India, Need for an integrated Reproductive Health Services Programme: Bio – Social implications in sex related diseases like STD, HIV and Aids- problems and prevention.

Unit- II : Nutrition, Diet, Health and Disease : Diet and Nutrition – Balanced diet, malnutrition, under nutrition Nutritional status and susceptibility to infectious diseases, Bio-social implications of Malnutrition in India.

Unit- III : Ecology, Biology and Disease : Malaria and Sickle –Cell Haemoglobin (HbS), and G-6-PD Deficiency: Thalassaemia and Haemoglobin disorder, Ecology and Disease –Fluorosis, Filariasis ----- etc. Pollution- water, Air, Soil, Noise – and health Hazards.

Unit- IV : Ageing and Longevity : Meaning, Processes of Ageing, Factors affecting Ageing, Socio – Cultural problems of Aged- people in india; factors influencing Longevity – Genetic, Socio – Cultural Psychological. Health status of the aged people in India.National policy for the welfare of the aged in india.

Recommended Readings :

1. Robert H. Fletcher, Suzanne W Fletcher. Clinical Epidemiology : The Essentials
Robert C. E. Ston, Jare M Olson, Lyce Palmes. Biostatistical Genetics and Genetic Epidemiology
2. Ron Stall, Sandra m Cifford, Croing R Jeans. Anthropology and Epidemiology : Inter Disciplinary Approaches to the study of Health and Disease
3. Gary D Friedman. Primer of Epidemiology
4. Sackett et al., 1991. Clinical Epidemiology : A Basic Science for Clinical Medicine
5. Penny Webb, Chris Bain, Sandi Pirozzo. Essential Epidemiology : An Introduction for students and Health Professionals
6. JH. Abramson, Z.H. Abramson. Survey Methods in Epidemiological research, Programme Evaluation and Community Medicine
7. Singh, I.P. and Bhasin, M.K. 1968 Anthropometry, Bharathi Bhavan Delhi.
8. Bhende, A. and Kanitkar, T. Principles of Population Studies. Bombay: Himalaya Publishing House.
9. Bogue, D. 1969. Principles of Demography. New York: John C. Wiley & Sons, Inc.
10. Cavalli-Sforza, L. L. and Bodmer, W. F. 1971. The Genetics of Human Population. San Francisco: W. H. Freeman and Company.
11. Crawford, M. H. and Workman, P. L. (Eds.). 1973. Methods and Theories of Anthropological Genetics. Albuquerque: University of New Mexico Press.
12. Harrison G.A. and Boyce, J. (Eds.). 1972. The Structure of Human Populations. Oxford: Clarendon Press.
13. Hauser G. A. and Duncan, O. D. 1959. The study of Population. Chicago: The University of Chicago.

ANO : 204 –4 (c)- Elective Foundation : Early Civilizations

Unit- I : Concept of Civilization, Genesis of Civilization, Factors Contributing to the Emergence of Civilization and Urbanization.

Unit- II : Early Indian Civilizations- Indus Valley and Indus Civilization Distribution; settlement patterns; Economy and Agriculture; Craft and Technology; Art and Religion, Burial Customs; Language; Racial Composition; Chronology; Origin and Decline.

Unit- III : Early Civilizations of West Asia-Mesopotamia, Sumer and Egypt.

Unit- IV : Early Civilizations in China and South East Asia-Examples from China and Thailand and Early Civilizations in New world – Mexico and Peru.

Recommended Readings :

1. Allchin, B and Allchin, F. R. 1968. The Birth of Indian Civilization. Harmondsworth: Pelican Books.
2. Allchin, B and Allchin F. R. 1982. The Rise of Civilization of India and Pakistan, Cambridge University press.
3. Barnouw V. 1978, Physical Anthropology and Archaeology Homewood: The Dorsey press.
4. Braidwood, R. J, 1952. The Near East and the Foundation of Civilizations. Oregon: Condon Lectures, Oregon state system of Higher Education, Eugene.
5. Childe, V. G. 1964. New Light on the Most Ancient East. London. Routledge & Kegan Paul Ltd.
6. Gordon, D. H. The Pre-historic background of Indian cultures
7. Makkan L. 1985. Rise of Civilization in the middle Ganga Valley New Delhi: B. R. Publishing corporation.
8. Mellart L. 1965. The Earliest Civilization of the Near East. London : Thames and Hudson.
9. Mallowan, M. E. L. Early Mesopotamia and Iran
10. Sankalia, H. D. 1974. Prehistory and Protohistory of India and Pakistan. Pune : Deccan College Series.
11. Weitz C.A. 1979. Introduction to Anthropology and Archaeology. Englewood Cliffs. Prentice-hall, Inc

ANO : 205 – PRACTICAL - I : DOING ETHNOGRAPHY

Unit I: Ethnographic tools: Introduction Anthropological. Applications Photography

Unit II: Material Culture: Identification, Drawing and Description of the Prescribed Ethnographic Objects; Implements used in Procuring Food –Hunting and Gathering, Fishing, and Agriculture;

Recommended Readings:

1. Basu, M. N. 1975. A Study of Material Culture. Calcutta: The World Press Pvt. Ltd.
2. Lips, J. 1938. Material Culture. New York: Watts & Co.
3. Collier, Jr. J. 1978. Visual Anthropology: Photography as a Research Method.

4. Gabel, C. 1967. Analysis of Prehistoric Economic Patterns. New York: Holt, Rinehart and Winston, Inc.
5. Indian National Trust for Art and cultural Heritage. 1987. A Portrayal of Peoples. In Essays on Visual Anthropology in India. ASA New Delhi: Inter-India Publications.
6. Langness, L. L. 1967. The Life History in Anthropological Sciences. New York: Holt, Rinehart and Winston, Inc.
7. Madge, J. 1952. Tools of Social Science. New York: Free Press of Glencoe
8. Mead, M. 1963. Anthropology and the Camera. Encyclopedia of Photography. Ed. W.D. Morgan.
9. Royal Anthropological Institute. 1967. Notes and Queries on Anthropology. London: Routledge.
10. Sahay, K. N. 1982. A Brief History of Ethnographic Films in India. Visual Anthropology. Bulletin. IV: (1). June.
11. Williams, T. R. 1907. Field Methods in the Study of Culture. New York: Holt, Rinehart and Winston, Inc.

ANO : 206 – PRACTICAL - II- CRANIOLOGY AND CRANIOMETRY

Unit I: Human Osteology: Identification, Location and Description of the Human Skeleton. Sex Determination from Skull and Pelvis.

Unit II: Drawing of different views of Skull and Description of Landmarks.

Unit III: Craniometry: Techniques, Landmarks and Measurements on Skull and Mandible and Relevant Indices: Skull – Maximum Cranial Length, Maximum Cranial Breadth, Maximum Frontal Breadth, Maximum Occipital Breadth, Least Frontal Breadth, Palatal Length, palatal Breadth, Facial Depth/Prosthion-Basion Line, Bizygomatic Breadth, Bimaxillary Breadth, Nasal Height, Nasal Breadth, Biauricular Breadth, Basion-Bregma Length, Frontal Chord, Parietal Chord, Occipital Chord, Facial Profile Angle/ Lower Jaw (Mandible) Height of Ramus, Symphysal Height, Minimum Breadth of Ramus, Mandibular Angle Bicodylar Breadth and, Bigonial Breadth.

Recommended Readings:

1. Comas, J. 1960. Manual of Physical Anthropology Spring Field: Charles C. Thomas and Co.
2. France, D. L. and Horn, A. D. 1992. Lab Manual and Workbook for Physical Anthropology. St. Paul: West Publishing Company.
3. Kelso, J. and Ewing, G. 1985. Introduction to Physical Anthropology Laboratory Manual. Boulder: Pruett Press, Inc.
4. Lohman, T. G., Roche, A. F. and Martorell, R. 1988. Anthropometric Standardization Reference Manual. Champaign: Human Kinetics Books.
5. Montague, A. M. F. 1960. A Handbook of Anthropometry. Springfield: Charles C. Thomas and Co.
6. Singh, I. P. and Bhasin, M. K. 1968. Anthropometry. Delhi: Kamalraj Publications.
7. Wiener, J. S. and Lourie J. A. 1969. Human Biology: A Guide to Field Methods. London: Academic Press.
8. Wiener, J. S. and Lourie, J. A. 1981. Practical Human Biology. London: Academic Press.
9. Wolfe, L. D. and Lieberman, L. S. 1990. Physical Anthropology: Laboratory Textbook. Raleigh: Contemporary Publishing Company.
10. Singh, Inder P., and Bhasin, M.K.. 2004. A manual of Biological Anthropology. Kamal Raj Enterprises, Delhi.

ANO : 207 : AUDIT COURSE - HUMAN VALUES AND PROFESSIONAL ETHICS - II

Unit – I : Value Education – Definition – relevance to present day – Concept of Human Values – self introspection – self esteem – family values – components, structure and responsibilities of family – Neutralization of anger – Adjustability – Threats of family life – status of women in family and society – Caring for need and elderly – Time allotment for sharing ideas and concerns.

Unit – II : Medical ethics – views of Charaka, Sushruta and Hippocrates on moral responsibility of medical practitioners. Code of ethics for medical and healthcare professionals. Euthanasia, Ethical obligation to animals. Ethical issues in relation to health care professionals and patients. Social justice in health care human cloning problems of abortion. Ethical issues in genetic engineering and Ethical issues raised by new biological technology or knowledge.

Unit – III : Business ethic – Ethical standards of business – Immoral and illegal practices and their solutions. Characteristics of ethical problem in management, ethical theories, causes of unethical behavior, ethical abuses and work ethics.

Unit – IV : Environmental ethics – Ethical theory, man and nature – Ecological crisis, pest control, pollution and waste, Climate change, energy and population, justice and environmental health.

Unit – V : Social ethics-organ trade, human trafficking. Human rights violation and social disparities, Feminist ethics. Surrogacy/pregnancy. Ethics of media – impact of newspapers Television, Movies and Internet.

Recommended Readings:

1. John S Mackenzie: A Manual of ethics
2. The Ethics of Management by Larue Tione Hosmer, Richard D. Irwin Inc.
3. Management Ethics integrity at work by Joseph A. Petrick and John F. Quinn. Response books : New Delhi.
4. Ethics in Management by S.A. Sherlekar, Himalaya Publishing House.
5. Harold H. Titus : Ethics for Today
6. Maitra, S.K. : Hindu Ethics.
7. William Lilly : Introduction to Ethics.
8. Sinha : A Manual of Ethics.
9. Manu: Manava Dharma Sastra or the Institutes of Manu Comprising the Indian system of Duties: Religious and civil (ed) GC Haligton.
10. Susruta Samhita : Tr. Kaviraj Kunjara Bhishagratna. Chowkarnba Sanskrit series. Vol. LII and LI, Varanasi, Vol I 00, 16'20,21-32 and 74-77 only.
11. Charaka Samhita : Tr Dr. . Ram karan sarma and vaidya bhagavan dash.
12. Ethics theory and contemporary issues. Barbara Mackinnon wadsworth/Thomson learning, 2001.
13. Analyzing Moral Issues, Judith A. Boss. May Field Publishing Company – 1999.
14. An Introduction to Applied Ethics (Ed) John H. Piet and Ayodhya Prasad.
15. Text Book for Intermediate First Year Ethics and Human Values. Board of Intermediate Education – Telugu – Akademi, Hyderabad.
16. I.C Sharma Ethical Philosophy of India. Nagin & co Julundhar.

SEMESTER - III

(SPECIALIZATION IN BIOLOGICAL ANTHROPOLOGY)

ANB : 301 -Core Theory : HUMAN EVOLUTION AND FOSSIL EVIDENCES

Unit I: Theories of Human evolution Paleontological evidence, evolutionary trends of primates prosimians to homosapiens with special reference to Dentition and limbs, Human bipedalism, Homanization processes.

Unit II: Hominid evolution. The problem of Ramapithicus and Dryopithicus. The Stages of Human Evolution Austrolopithicine stage Pithicinthropine stage - The Distribution, Antiquity and Origin; Nomenclature; Taxonomic Status; Skeletal Biology and Phylogeny; Cultural Life.

Unit III: The Neanderthals: Distribution, Taxonomy, Western European or Classical Neanderthals; The Neanderthal Collaterals: Fossil Hominids from Eastern Europe, Western Asia and Northern Africa; The Neaderthaloids and the Progressive Neanderthals; The Neanderthal Origin; Phylogeny; Extinction; Affinities; Antiquity and Cultural Life.

Unit IV: Homo sapiens: Discoveries; Distribution in Europe, Asia, Africa and Australia; Anatomical Characters; Cultural Variation and Development; Phylogenic Position. The Continuing Human Evolution and the Future of Human Species.

Recommended Readings:

1. Brace, C. L. 1967. The Stages of Human Evolution: Human and Cultural Evolution. Englewood Cliffs: Prentice-Hall, Inc.
2. Buettner-Janusch, J. 1969. Origins of Man: Physical Anthropology. New Delhi: Wiley Eastern Pvt. Ltd.
3. Buettner-Janusch, J. 1973. Physical Anthropology: A Perspective. New York: Wiley and Sons.
4. Chiarelli, A. B. 1973. Evolution of the Primates: An Introduction to the Biology of Man. Oxford: Clarendon Press.
5. Clark, Le Gross, W. E. 1962. The Antecedents of Man: An Introduction to the Evolution of the Primates. Edinburgh: Edinburgh University Press.
6. Clark, Le Gross, W. E. 1964. The Fossil Evidences of Human Evolution: An Introduction to the Study of Paleoanthropology. Chicago: University of Chicago Press.
7. Lewin, R. 1989. Human Evolution: An Illustrated Introduction. Boston: Blackwell Scientific Publications.
8. Nelson, H and Jurmain, R. 1991. Introduction to Physical Anthropology. New York: West Publishing Company.
9. Poirier, F. E. 1973. Fossil Man: An Evolutionary Journey. St. Louis: C.V. Mosby Company.
10. Poirier, F. E. 1974. In Search of Ourselves: An Introduction to Physical Anthropology. Minneapolis: Burgess and Company.
11. Stein P. L. and Row, B. M. 1989. Physical Anthropology. New York: McGraw-Hill Book Company.
12. Camilo.J, Cela – Conde and Fransisco J, 2007 – Human Evolution trails from the past – Ayola oxford Uni press.
13. David.W Cameron & Collin.P, Goves- Elsevier In.2004.
14. Russel Tuttel 2007 The functional and Evolutionary biology of primates.
15. B.A. Wooded, L.B. Martin, Peter Andruess 2009 Manor topics in primate in Human evolution

ANB : 302 – Core Theory : HUMAN GENETICS

Unit I: Human Genetics, its Meaning, Scope and Development. Difficulties in Subjecting Man for Genetic Investigations, Methods of Studying Heredity: Pedigree Method, Twin method, Population, Family, Linkage Studies, Karyotyping, Cytogenetic and Biochemical, DNA Techniques.

Unit II: Human Cytogenetics: Chromosome Nomenclature and Mapping; Methods of Studying Human Chromosomes; Numerical and Structural Chromosomal Abnormalities. Prenatal Diagnosis of Chromosomal Abnormalities. Sex Determination: Bar Body; Inactivation of X chromosome and Lyon's Hypothesis.

Unit III: Human Biochemical Genetic Variation: Red Cell and Serum Proteins and Enzymes Hb, G6PD, PGM and Tf. Haemoglobinopathies; Gene-Enzyme Hypothesis; Inborn errors of Metabolism - Protein, Carbohydrate, Lipid Metabolites, HLA System.

Unit IV: Structure of DNA, Concept of Gene and its Expression. Replication, Transcription, Translation. Genetic Code. Recombinant DNA Molecules; Genetic Engineering; Genome Project and Ethical Issues.

Recommended Readings:

1. Bodmer, W. F. and Cavalli-Sforza, L. L. 1976. Genetics, Evolution and Man. San Francisco: W. H. Freeman and Company.
2. Brock, D. J. H. and Mayo, O. (Eds.). 1972. The Biochemical Genetics of Man. New York: Academic Press.
3. Crawford, M. H. and Workman, P. L. (Eds.). 1973. Methods and Theories of Anthropological Genetics. Albuquerque: University of New Mexico Press.
4. Giblett, E. R. 1969. Genetic Markers in Human Blood. Oxford: Blackwell Publications.
5. Harris, H. 1980. The Principles of Human Biochemical Genetics. Amsterdam: North-Hall and Publishing Company.
6. Harrison, G. A., Tanner, J. M., Pilbeam, D. R. and Baker, P. T. 1988. Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford: Oxford Science Publications.
7. Kan, Y. W. 1982. Haemoglobin Abnormalities: Molecular and Evolutionary Studies. Harvey Lecture Series. 76. Academic Press Inc.
8. Livingstone, F. B. 1967. Abnormal Hemoglobins in Human Populations. Chicago: Aldine.
9. Rothwell, N. V. 1977. Human Genetics. London: Prentice-Hall International.
10. Stern, C. 1973. Principles of Human Genetics. London: W. H. Freeman & Company.
11. Yunis, J. J. (Ed). 1969. Biochemical Methods in Red Cell Genetics. New York: Academic Press.

ANB : 303- 3(a) - Generic Elective: - : ANTHROPOLOGICAL DEMOGRAPHY

Unit I: Definition and Concept of Anthropological Demography. Population Growth: Theories – Biological and Socio-Cultural.

Unit II: Basic Demographic Variables - Age, Sex, Marriage, Sex ratio, Fertility, Mortality,

Migration and Population Growth. Factors Affecting Demographic Variables - Life tables – Their Construction and Uses.

Unit III: Factors Regulating Population Growth - Fertility Rate, Birth rate, Age-Specific Fertility Rates, Net Reproductive Rate, Mortality Rate, Migration Rates, Intrinsic Rate of Natural Increase;

Unit IV: Demographic and Genetic Consequences of Family Planning and Family Welfare. Demographic Models: Mathematical and Migration Models. Demographic Studies in Anthropology.

Recommended Readings:

1. Baker, P. T. and Sanders, W. T. 1972. Demographic Studies in Anthropology. In. Annual Reviews in Anthropology, Volume I, (Ed.). Siegel, B. Palo Alto: Annual Reviews, Inc. pp. 151-178.
2. Bhende, A. and Kanitkar, T. Principles of Population Studies. Bombay: Himalaya Publishing House.
3. Bogue, D. 1969. Principles of Demography. New York: John C. Wiley & Sons, Inc.
4. Cavalli-Sforza, L. L. and Bodmer, W. F. 1971. The Genetics of Human Population. San Francisco: W. H. Freeman and Company.
5. Crawford, M. H. and Workman, P. L. (Eds.). 1973. Methods and Theories of Anthropological Genetics. Albuquerque: University of New Mexico Press.
6. Harrison G.A. and Boyce, J. (Eds.). 1972. The Structure of Human Populations. Oxford: Clarendon Press.
7. Hauser G. A. and Duncan, O. D. 1959. The study of Population. Chicago: The University of Chicago.
8. Malhotra, K.C. (Ed). 1988. Statistical Methods in Human Population Genetics. Calcutta: IBRAD, ISI and ISHG Publication.
9. Nag, M. 1962. Factors Affecting Human Fertility in Non-Industrial Societies: A Cross-Cultural Study. Yale University Publication in Anthropology. No. 66.
10. Swedlund, A. C. and Armelagos, G. J. 1976. Demographic Anthropology. Dubuque: WM. C. Brown Company Publishers.
11. Thomlinson, R. 1976. Population Dynamics: Causes and Consequences of World Demographic Change. New York: Random House.
12. Weiss, K.M. and Ballonoff, P. A. (Eds.). 1975. Demographic Genetics. Pennsylvania: Hutchinson & Ross.

ANB : 303 - 3 (b)-Generic Elective: - : FORENSIC ANTHROPOLOGY

Unit I: Meaning and Scope of Forensic Anthropology, Crime types, Crime scene, Methods of Investigation; Death- Modes of Death, Assessment of time since death

Unit II: Dermatoglyphics in Forensic Anthropology, Poroscopy, Dead body finger printing, Somatoscopic characters in personal identification; Body fluids- Blood, Semen, Nasal secretion, Sweat, Hairs and Fibers in Personal Identification. Hand Writing, Foot and Tire marks in Criminal Investigation

Unit III: Skeletal remains in Forensic Anthropology: Age, Sex and Stature estimation; Forensic Odontology, Superimposition, Facial Physiognomy

Unit IV: Modern methods in Crime Investigation: DNA Finger Printing, Iris Image, Biometry, Polygraph and Lie Detection Tests

Recommended Readings:

1. Cherril, F. R. Finger Print Systems at Scotland.
2. El-Najjer, M. Y. and McWilliams, R. 1978. Forensic Anthropology. Springfield: Charles C. Thomas Publishers.
3. Kind, S. and Micheal. Science Against Crime.
4. Krik, P. L. Crime Investigation.
5. Lewis, Rick. 2001. Human Genetics: Concept and Applications. London: McGraw Hill.
6. Lundquist, F. and Curry, A. S. Methods in Forensic Sciences.
7. Steward, T. D. Forensic Anthropology.
8. Stewart, T. D. 1979. Essentials of Forensic Anthropology. Springfield: Charles C. Thomas and Company.
9. Surinder Nath. 1984. Finger Print Identification. Delhi: Department of Anthropology, Delhi University.
10. Surinder Nath. 1989. An Introduction to Forensic Anthropology. New Delhi: Gain Publishing House.
11. Symans, J. Crime and Detection.
12. Turner. Forensic Science and Laboratory Techniques.
13. Yunis, J. J. (Ed.). 1969. Biochemical Method in Red Cell Genetics. New York; Academic Press.

ANB : 303- 3(c) - Generic Elective: - : EPIDEMIOLOGY AND PUBLIC HEALTH

UNIT I: Epidemiology: Meaning and Scope, Methods, Rates, Indices, Genetic Epidemiology, Clinical Epidemiology

UNIT II : Complex Diseases: Concept, Genetic Factors, Environmental Impact, Etiology, Diagnosis, Prevalance; Prevention and Control of Diabetics, Cardio-Vascular Diseases and HIV/AIDS

UNIT III: Human Obesity : Characteristics, Types, Reasons and Complications on Individual Health, Prevention and Control.

UNIT IV : Major Communicable and Non-communicable diseases : Global and Indian Scenario; Malaria, and Tuberculosis : Etiology, Prevalance, Prevention and Management.

Recommended Readings:

1. Robert H. Fletcher, Suzanne W Fletcher. Clinical Epidemiology : The Essentials
2. Robert C. E. Ston, Jare M Olson, Lyce Palmes. Biostatistical Genetics and Genetic Epidemiology
3. Ron Stall, Sandra m Cifford, Croing R Jeans. Anthropology and Epidemiology : Inter Disciplinary Approaches to the study of Health and Disease
4. Gary D Friedman. Primer of Epidemiology
5. Sackett et al., 1991. Clinical Epidemiology : A Basic Science for Clinical Medicine
6. Penny Webb, Chris Bain, Sandi Pirozzo. Essential Epidemiology : An Introduction for students and Health Professionals
7. JH. Abramson, Z.H. Abramson. Survey Methods in Epidemiological research, Programme Evaluation and Community Medicine

ANB : 304 - Practical- : Dermatoglyphics and Human Osteometry

Unit I: Techniques and Procedures of taking Finger, and Palm.

Unit II: Finger Dermatoglyphics: Pattern Identification; Finger Ridge Counts, Total and Absolute Finger Ridge Counts; Pattern Intensity Index, Furuhashi's and Dankmeijer's Indices.

Unit III: Palmar Dermatoglyphics: Configurational Areas, Palmar Patterns, Main Line Formula, Main line Index, Palmar Ridge Counts, atd Angle and Palmar Flexion Creases and types.

Unit IV: Osteometry: Take the following linear and angular measurements on Clavicle, Scapula, and Limb Bones.

Recommended Readings:

1. Bartsocas, C. S. (Ed.). Progress in Dermatoglyphics. New York: Alan R. Liss, Inc.
2. Cummins, H. and Midlo, C. 1962. Finger Prints, Palms and Soles. New York: Dover Press.
3. Galton, F. 1892. Finger Prints. London: Macmillan.
4. Holt, Sarah B. 1978. The Genetics of Epidermal Ridges. Springfield: Charles C. Thomas and Company.
5. Loesch, D. Z. 1983. Quantitative Dermatoglyphics: Classification, Genetics and Pathology. Oxford: Oxford University Press.
6. Loesch, D. Z. (Ed.). 1982. Quantitative Dermatoglyphics: Normal Variation, Genetics and Pathology. London: Oxford University Press.
7. Wortelecki, W. and Plato, C. C. (Eds.). 1979. Dermatoglyphics – Fifty Years Later. New York: Alan R. Liss, Inc.

ANB : 305 - Skill Oriented Course : BIOSTATISTICS AND COMPUTER APPLICATIONS

Unit I: Biometry: Concept and Definition, Development of Biometry. Data in Biological Anthropology, Variables in biological anthropology. Variables: Continuous and discontinuous variables, attributes and derived variables. Accuracy and precision of the data: Error groups.

Unit II: Statistical tools: Descriptive statistics, Paired independent sample tests Chi square test, one way analysis of variance, Correlation and regression.

Unit III: Personal computer operating system – MS office –creating a document using word, editing and formatting text Use of computers in the analysis of the data.

Unit IV: A note on statistical software packages: Excel and SPSS, charts and graphs and interpretation of the out put. Power point presentation.

Recommended Readings:

1. Bryman, A and Cramer, D. 1977. Quantitative Data Analysis with SPSS for windows: A Guide for social Scientists London: Routledge.
2. Bryman, A. and Cramer, D. 1999. Quantitative Data Analysis with SPSS Release : 8 for windows: For Social Scientists. London: Routledge.
3. Foster, J. J. 2001. Data Analysis Using SPSS for Windows Versions 8.0-10.0: A Beginner's Guide. Sage Publications India Pvt. Ltd. New Delhi.
4. Gilbert, N. 1989. Biometrical Interpretation, Making Sense of Statistics in Biology. Oxford: Oxford Science Publications.
5. Johnson, R. A. and Wichern, D. W. 1988. Applied Multivariate Statistical Analysis.

- London: Prentice-Hall International.
6. Kempthorne, O. 1957. An Introduction to Genetic Statistics. New York: Wiley.
 7. Khan, I. And Atiya, K. 1994. Fundamentals of Biostatistics. Ukaaz Publications.
 8. Kinneer, P. R. and Gray, C. D. 1999. SPSS for Windows Made Simple. 3rd Edition. London: Psychology Press.
 9. Malhotra, K. C. (Ed.). 1988. Statistical Methods in Human Population Genetics. Calcutta: IBRAD, ISI and ISHG Publication.
 10. Mather, K. and Jinks, J. L. 1977. Introduction to Biometrical Genetics. London: Chapman and Hall.
 11. Morrison, D. F. 1984. Multivariate Statistical Methods. Singapore: McGraw Hill.
 12. Neibauer, A. L. 2000. Office 2000 – The Basics and Beyond 2000. New Delhi: Tata McGraw-Hill Publishing Company.
 13. Rao, C. R. 1965. Advanced Statistical Methods in Biometric Research. New York: John-Wiley & Sons Inc.
 14. Sarkar, S. K. and Gupta, A. K. 1998. Elements of Computer Science. New Delhi: S. Chand & Company. (Selected Chapters)
 15. Sarma, K.V.S (2000), Statistics Made Simple, Do it Yourself on PC, Prentice Hall of India.
 16. Siegel, S. 1956. Non-Parametric Statistics for the Behavioural Sciences. New York: McGraw-Hill.
 17. Snedecor and Cochran. 1967. Statistical Methods. Oxford: Oxford Press.
 18. Sokal, R. R. and Rholf, F. J. 1973. Biometry. San Francisco: W. H. Freeman and Company.
 19. Sokal, R. R. and Rholf, F. J. 1973. Introduction to Biostatistics. San Francisco: W. H. Freeman and Company.
 20. Sundar Rao, P. S. S. and Richard, J. 1996. An Introduction to Biostatistics. New Delhi: Prentice-Hall of India.

ANB : 306 - 6(a) - Open Elective : PALEO ANTHROPOLOGY

Unit I: A brief outline on the origin of earth and life and geological time scale; Pleistocene epoch chronology, Pleistocene Glaciations' of Europe, Evidences and Causes of Great Ice Age.

Unit II: Typology and technology: tool making techniques, tool types.

Unit III: Dating methods: absolute and relative dating: stratigraphy, river terraces, dendrochronology, thermoluminescence dating, pollen dating, Glacial varve analysis, potassium-argon method, fluorine dating, C-14 dating.

Unit IV: Cultural chronology: Paleolithic, Mesolithic and Neolithic cultures in India: special salient features of environment, sites and areas, typo-technology, distribution, artifacts and their physical forms. Copper, Iron age, features and distribution.

Recommended Readings:

1. Agrawal, D.P. The Archaeology of India, Curzon Press.
2. Allchin, B. & Allchin, F.R. The Rise of Civilization of India and Pakistan. Cambridge University Press.
3. Ashley, Montague. Physical Anthropology and Archaeology.
4. Barmown, Victor. Physical Anthropology and Archaeology, Illinois, The Dorse Press Home Wood.
5. Banerjee. Iron Age in India. Munshiram Manoharlal.
6. Bordes, F. Old stone Age. Weidenfeld and Nicolson.

7. Brothwell D. & Higgs E. (ed.). Science in Archaeology. Thames and Hudson.
8. Budtzer, K.W. Environment and Archaeology.
9. Clark, D.L. Analytical Archaeology. Methuen and Co. Ltd.
10. Coles, J.M. & Higgs, E.S. The Archaeology of Early Man. Faber and Faber.
11. Das, B.M., Outlines of Physical Anthropology. Kitab Mahal.
12. James, J. Hester, Introduction to Archaeology. Holt, Rinehart and Winston.
13. Michel, J.W., Dating Methods in Archaeology. Seminar Press.
14. Sankalia, H.D., New Archaeology – Its Scope and Application to India, Ethnographic and Folk Culture Society.
15. Sankalia, H.D. Stone Age Tools, Families and Techniques. Pune, Deccan College.
16. Sankalia, H.D. Pre- and Proto-history of India and Pakistan. Pune, Deccan College.
17. Zeuner, F.E. Pleistocene Period. Hutchinson.

ANB : 306 (b) - Open Elective : FUNDAMENTALS OF ANTHROPOLOGY

Unit I: Meaning, Scope of Biological Anthropology. Relations with other Branches of Anthropology and with Biological, Social and Medical Sciences; Its historical development. Man's Place in the Animal Kingdom.

Unit II : Social-Cultural Anthropology: Meaning, Scope and Specializations; Basic Approaches: Holistic, Comparative, Historical, Nomothetic and Idiographic; Relationship to History, Psychology, Economics, Sociology, Management, Medical and Nutritional sciences.

Unit III: Meaning, definition and scope of archeological anthropology. Relationship to other Branches of Anthropology, Earth Sciences, Physical Sciences, Life Sciences and Social Sciences. Define environmental Archaeology and ethno-archaeology.

Unit IV: Race, Ethnicity and Populations: Concepts: Race, Racism; Classification of Races – Major Races of the World; Racial Criteria used for Racial Classification - Morphological, Serological and Genetic; Racial Classification of world population – Hooton, Coon, Garn and Boyd Racial Classification India Populations – Risley, Guha and Sarkar.

Recommended Readings:

1. Buettner-Janusch, J. 1966. Origins of Man: Physical Anthropology. John Wiley & Sons, New York.
2. Buettner-Janusch, 1973. Physical Anthropology: A Perspective. New York: John Wiley and Sons.
3. Chiarelli, A.B. 1973. Evolution of the Primates: An Introduction to the Biology of Man. London: Academic Press.
4. Clark, Le Gross. W. E. 1962. The Antecedents of Man: An Introduction to the Evolution of the Primates. Edinburgh: Edinburgh University Press.
5. Clark, Le Gross, W. E. 1964. The Fossil Evidences of Human Evolution: An Introduction to the Study of Paleoanthropology. Chicago: University of Chicago Press.
6. Beals, R. and Hoijer, H. 1971. An Introduction to Anthropology. London: Collier McMillan Company Ltd.
7. Bohannan, Paul. 1963 Social Anthropology. New York: Holt, Rinehart and Winston.
8. Child, A. B. and Child, I. I. 1975. Religion and Magic in the Life of Traditional People. Englewood Cliffs: Prentice-Hall, Inc.
9. Ember, C. R., Ember, M. and Peregrine, P. N. 2002. Anthropology. Delhi: Pearson Education Asia.
10. Evans-Pritchard, E. E. 1965. Theories of Primitive Religion. Oxford: Clarendon Press.
11. Firth, Raymond. 1956 Elements of Social Organization. London : Watts and Co.,

12. Fox, Robin. 1971. Kinship and Marriage: An anthropological Perspective. Harmondsworth: Penguin Books.
13. Herskovits, M. J. 1959. Cultural Anthropology. New Delhi:
14. Oxford & IBH Publications Co.
15. Agrawal, D.P. 1982. The Archaeology of India. London: Curzon Press
16. Barnouw, V. 1978. Physical Anthropology and Archaeology. Homewood: The Dorsey Press.
17. Bhattacharya, D. K. 1990. An Outline of Indian Prehistory. Delhi: Palaka Prakashan
18. Bordes, J. 1970. Tools of the Old and New Stone Age. New York: Natural History Press.
19. Bordes, F. 1968. The Old Stone Age. London: Weidenfeld & Nicholson.
20. Coles, J. M. and Higgs, E. S. The Archaeology of Early Man. London: Faber & Faber.
21. Shukla, B. R. K. and Rastogi, S. 2000. Physical anthropology and Human Genetics - An Introduction. Delhi: Palaka Prakash
22. Stein P. L. and Row, B. M. 1989. Physical Anthropology. New York: McGraw-Hill Book Company.
23. Turnbaugh, W. A., Nelson, H., Jurmain, R. and Kilgore, L. 1996. Understanding Physical Anthropology and Archaeology. New York: West Publishing House.
24. Weiss, M. L. and Mann, A. E. 1978. Human Biology and Behavior: An Anthropological Perspective. Boston: Little Brown.
25. Relethford, J.H. 2002. An Introduction to Biological Anthropology. Boston: Mc. Graw Hill.
26. Ember, C. Ember, M. and Peregrine, P. 2008 Anthropology (12th Edition] New Delhi: Prentice Hall of India.
27. Jurmain R, L. Kilgore and Trevathan, W 2010 Essentials of Physical Anthropology. [8th Edition New York, Wiley- Blackwell.

SEMESTER – IV

(SPECIALIZATION IN BIOLOGICAL ANTHROPOLOGY)

ANB : 401 – Core Theory : BIOLOGICAL ANTHROPOLOGY

Unit I: Meaning, Scope of Biological Anthropology; Human Biology and Biological Anthropology; Methods and Approaches: Anthropometric, Serological, Biochemical, Physiological and Molecular.

Unit II: Biological Variation in Modern Human Populations: Causes of Human Variation; Size, Shape of the Body, Pigmentation, Blood Groups and Natural Selection, Biochemical Variations.

Unit III: Human Adaptability: Human Ecology and Ecosystems, Human Adaptation (Biological and Cultural) to Heat, Cold and Altitude. Human Energetics. Impact of urbanization and Industrialization on Man.

Unit IV: Bio-Cultural Aspects of Health and Disease: Concepts of Health and Disease; Determinants of Health; Genetic, Communicable and Non-Communicable Diseases – Causes and Impact; Co-Evolution of People and Disease; Population Aging and its Implications.

Recommended Readings:

1. Anderson, R. M. and May, R. M. (Eds.). 1982. Population Biology of Infectious Diseases. Berlin: Springer-Verlag.
2. Damon, A. (Ed.). 1975. Physiological Anthropology. New York: Oxford University Press.

3. Emery, A. E. H. 1983. Elements of Medical Genetics. Edinburgh: Churchill.
4. Frisancho, R. A. 1981. Human Adaptation: A Functional Interpretation. Ann Arbor: The University of Michigan Press.
5. Harrison, G. A., Tanner, J. M., Pilbeam, D. R. and Baker, P. T. (Eds.). 1988. Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford: Oxford University Press.
6. Lewis, R. 2001. Human Genetics: Concepts and Applications. London: McGraw Hill.
7. Little, M. A. and Haas, J. D. 1989. Human Population Biology: A Transdisciplinary Science. New York: Oxford University Press.
8. Morton, N. E. 1982. Outline of Genetic Epidemiology. New York: S Krager.
9. Nussbaum, Robert L., McInnes, Roderick R. and Willard, Huntington F. 2001. Thompson and Thompson's Genetics in Medicine. Philadelphia: W. B. Saunders Company.
10. Overfield, T. 1985. Biologic Variation in Health and Illness: Race, Age and Sex Differences. Menlo Park: Addison-Wesley Publishing Co.
11. Park, J. E. and Park, K. 1985. Textbook of Preventive and Social Medicine. Jabalpur: M/s Banarasidas Bhanot.
12. Schutkowski, H. Berlin 2006 Human Ecology: Bio- Cultural adaptations in human communities-Springer Verlag.
13. Brown D E. 2010 Human Biological Diversity- An introduction to human biology.
14. Stanford C, Allen J.S. and Anton S.C 2011 Biological Anthropology [3rdEdition] Pearson.s

ANB : 402 – Core Theory : HUMAN POPULATION GENETICS

Unit I: Definition and Scope of Population Genetics, its Relevance in Anthropology; its Relationship and Differences with other Branches of Human Genetics. Mendelian Population with Reference to Man; other Concepts and Definitions - Statistical, Geographical, Demographic, Ecological, etc. Endogamous group as the Ultimate Unit of Study in Population Genetics.

Unit II: Principles of Genetic Equilibrium: Hardy-Weinberg Law; Causes for Changes in Gene Frequencies: Mutation, Hybridization, Genetic Drift and Selection. Selection and its Influence: Heterozygous, Intra-Uterine, Differential Fertility and Selection Relaxation. Reproductive Isolates and the Concept of Gene Pool: Genetic Isolates, Geographic Isolates.

Unit III: Population Structure: Mating system - Random Mating/Panmixia; Selective Mating/ P referential Mating; Mate Choice/ Sex Selection; Assortative Mating. Effective Population Size; Biological consequences of Mating Systems: Consanguinity; Inbreeding and Outbreeding. Inbreeding Coefficient (F ratios), Inbreeding Depression: Heterozygotes, Homozygotes; Hybrid Vigour (Heterosis); Genetic Load.

Unit IV: Models to Study Gene Flow – ‘Island’ Model, ‘Diffusion’ Model, ‘Isolation by Distance’ Model; Role of Social Divisions and Hierarchy in Genetic Isolation. Genetic Distance: Concepts and Approaches to Study; Population Distance Measures.

Recommended Readings :

1. Bodmer, W. F. and Cavalli-Sforza, L. L. 1976. Genetics, Evolution and Man. San Francisco: W. H. Freeman and Company.
2. Cavalli-Sforza, L. L. and Bodmer, W. F. 1971. The Genetics of Human Population. San Francisco: W. H. Freeman and Company.
3. Crawford, M. H. and Workman, P. L. (Eds.). 1973. Methods and Theories of Anthropological Genetics. Albuquerque: University of New Mexico Press.

4. Crow, J. F. and Kimura, M. 1970. An Introduction to Population Genetic Theory. New York: Harper and Row.
5. Falconer, D. S. 1981. Introduction to Quantitative Genetics. London: Longman.
6. Harrison G.A. and Boyce, J. (Eds.). 1971. The Structure of Human Populations. New York: Clarendon Press.
7. Harrison, G. A., Tanner, J. M., Pilbeam, D. R. and Baker, P. T. 1988. Human Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford: Oxford University Press.
8. Hartl, D. L. 1985. Our Uncertain Heritage: Genetics Human Diversity. New York: Harper & Row, Publishers. Levitan, M. 1988. Textbook of Human Genetics. New York: Oxford University Press.
9. Levitan, M. and Montagu, A. 1977. Textbook of Human Genetics. New York: Oxford University Press.
10. Malhotra, K.C. (Ed.). Statistical Methods in Human Population Genetics. Calcutta: IBRAD, ISI and ISHG.
11. Morris, L. N. 1973. Human Populations, Genetic Variation and Evolution. New York: Intertext Books.
12. Pai, A. C. 1985. Foundations of Genetics: A Science for Society. New York: McGraw Hill Book Company.
13. Rothwell, N. V. 1977. Human Genetics. London: Prentice-Hall International.
14. Vogel, F. and Motulsky, A. G. 1982. Human Genetics: Principles and Approaches. Berlin: Springer-Verlag.

ANB : 403 -3(a)– Generic Elective :HUMAN GROWTH, PHYSIQUE AND NUTRITION

Unit I: Human Growth: Definition and Concept of Growth, Development, Differentiation and Maturation. Concept of Age and its Ascertainment: Chronological, Dental, Skeletal and Morphological. Stages of Growth: Infancy, Childhood, Juvenile, Adolescence, Adulthood and Senescence.

Unit II: Methods of Studying Growth: Cross-Sectional, Longitudinal and Semi-Longitudinal Studies and their Relative Merits and Demerits; Factors Affecting Growth: Genetic, Environmental and Hormonal. Growth Curves - Universal Curves: Lymphoid, Neural, General and Genital. Basic (Data) Curves: Distance, Velocity, Incremental and Percentile.

Unit III: Analysis of Human Physique and constitution or Body composition : Viola, Kretschmer, Sheldon and Health Carter. Human Physique and its Relation of Function, Disease and Behavior.

Unit IV: Human nutrition Basics Terms and Concept : Nutrients and Nutrition, Malnutrition, Under nutrition over nutrition and Obesity; Socio-Cultural Aspects of Nutrition; Functions and uses of Nutrients in Health and Disease. Groups at Risk. Infants growing children pregnant women and lactating mothers and aged people. Determinants of nutritional levels Anthropometric clinical sings and Biochemical diet and nutrition through diet surveys. Concept of References standards of Growth status. Secular trends of Growth and Nutrition.

Recommended Readings :

1. Barry Bogin, Patterns of Human Growth, 2nd ed. (1991) Cambridge University, London.
2. J.M. Tanner, Growth at Adolescence, 2nd ed. (1962) Oxford ; Blackwell Scientific..
3. Kaushik Bose Concept of Human physical growth and development (03-10-2007) URL No. <http://nsdl.niscair.res.in/jspui/handle/123456789/243>
4. Harrison, G. A., Tanner, J. M., Pilbeam, D. R. and Baker, P. T. (Eds.). 1988. Human

Biology: An Introduction to Human Evolution, Variation, Growth and Adaptability. Oxford: Oxford University Press.

5. Garm, S.M. and Zvishamir. 1958. Methods for Research in Human Growth Charless. C. Thomas publishers, Springfield, Illinois.
6. Indian Council for Medical Research, 1989. Growth and Physical Development of Indian infants and children. Tech. Rep. ser.,18. New Delhi.
7. Singh, I.P. and Bhasin, M.K. 1968 Anthropometry, Bharathi Bhavan Delhi.
8. Watson, E.H. and Lowrey, G.H. 1954. Growth and development of children. The year book publishers, Inc. Chicago, pp.296.

ANB : 403- 3 (b)– Generic Elective : APPLIED BIOLOGICAL ANTHROPOLOGY

Unit I: Applications of Anthropometry: Assessment of Nutritional Status; Clinical Applications of Anthropometry; Kinanthropometry – Body Proportionality in Relation to Sports; Applications in the Fields of Defense and Air Force, Artificial Limbs, Readymade Garments, Shoe Making and Furniture Industries, etc.

Unit II: Forensic Anthropology: Definition, Aims and Scope; Establishment of Identity through Skeletal Remains – Age, Sex and Reconstruction from Skeletal Remains; Dermatoglyphics in Forensic Anthropology; Personal Identification – Identification through Somatometry and Somatoscopy; Identification through Hair and Body Fluids in Personal Identification; Blood Location, Semen, Saliva and Urine Collection and Evaluation, Medico-Legal Aspects; Questioned Paternity; DNA Finger Printing.

Unit III: Genetic and Society: Congenital Malformations; Genetic Counseling – Genetical, Medical and Social Concepts and Essential Qualities of Genetic Counseling; Genetic Screening and Prenatal Diagnosis of Genetic Diseases; Genetic Engineering. Ethical Aspects of Genetic Counseling; Human Genome Project; Treatment of Genetic Diseases and Gene Therapy.

Unit IV: Bio-Medical Anthropology: Physical Anthropological Approaches to the study of Diseases: Goiter, Kuru and Sickle-Cell Anaemia. Blood Groups and Disease Associations. Concept of Race and Racism, UNESCO Statement, Race Relations Racial Fallacies.

Recommended Readings :

1. Croney, J. 1981. Anthropometry for Designers. New York: Von Nostrand Reinhold Company.
2. El-Najjer, M. Y. and McWilliams, R. 1978. Forensic Anthropology. Springfield: Charles C. Thomas Publishers.
3. Emery, A. E. H. 1983. Elements of Medical Genetics. Edinburgh: Churchill.
4. Kitano, H. H. L. 1974. Race Relations. Englewood Cliffs: Prentice-Hall, Inc.
5. Lewis, Rick. 2001. Human Genetics: Concepts and Applications. London: McGraw Hill.
6. Lohman, T. G., Roche, A. F. and Martorell R. 1988. Anthropometric Standardization Reference Manual. Illinois: Human Kinetic Books.
7. Mueller, R. F. and Young, I. D. 1998. Emery's Elements of Medical Genetics. Livingstone: Churchill.
8. Nussbaum, Robert L., McInnes, Roderick R. and Willard, Huntington F. 2001. Thompson and Thompson Genetics in Medicine. Philadelphia: W. B. Saunders Company.
9. Safe, P. 1993. Sociology. (Chapter 21: Race Relations). McMillan.
10. Singh, S. P. and Malhotra, P. 1989. Kinanthropometry. Patiala: Lunar Publications.
11. Sodhi, H. S. 1991. Sports Anthropometry. Mohali: Anova Publications.
12. Stevenson, A. C. and Davidson, B. C. 1976. Genetic Counselling. London: Heinmann.
13. Stewart, T. D. 1979. Essentials of Forensic Anthropology. Springfield: Charles C. Thomas

- and Company.
14. Surinder Nath. 1984. Finger Print Identification. Delhi: Department of Anthropology, Delhi University.
 15. Surinder Nath. 1989. An Introduction to Forensic Anthropology. New Delhi: Gian Publishing House.

ANB : 403-3(c)– Generic Elective : MEDICAL GENETICS

Unit – I : Medical Genetics vis-à-vis Medical Sciences and Genetics ; Anthropology and Genetics , Anthropology and Medicine (Diseases) overlapping areas and their relevance; Formal Genetics and Medical Genetics: Identification and Distinguishing of their boundaries.

Unit – II : Onset and possible causation of Genetic Disease/Syndrome defects /Disorders / and the Congenital Deformities having adverse bearing on community level; methods of identification of Genetics Diseases: Pedigree Method, Twin Method, Cytogenetic, Biochemical, Molecular Gene and Prenatal Diagnosis.

Unit – III : Genetic classification (Autosomal, sex-linked etc.,) of the disease and their variations with reference to syndrome; Racial / population variations – Epidemiology; Demographic, Socio-Cultural and Ecological dimensions of Genetic diseases, Perception knowledge and attitude towards such diseases Ethno-Medicinal aspects of Diagnosis; control and treatment.

Unit – IV : Society and Genetic Disease: knowledge, attitude and practice (KAP) and curing practices; genetic counseling approaches.

Recommended Readings :

1. Connor, J.M. Essential Medical Genetics.
2. Emery A. E.H. 1976 Methodology in Medical Genetics, New York: Churchill, Livingstone.
3. Emery A. E.H. 1983 Elements of Medical Genetics, New York: Churchill, Livingstone
4. Mueller, R.F and Young I.D 1998 Emery's Elements of Medical Genetics Churchill, Livingstone.
5. Nussbaum, Robert L., Melnickers, Roderick R. and Willard , Huntington F. 2001. Thompson and Thompson's Genetics in Medicine. Philadelphia: W.B Saunders company.
6. Thompson and Thompson's M.W. 1966 Genetics in Medicine. Philadelphia: W.B Saunders company.
7. Harper, P.S. Practical Genetic counseling.
8. Morton, N.E 1982 outlines of Genetic Epidemiology New York: S Kraeger.
9. Landy, D. Culture, Disease and Healing.
10. Foster, G.M. et al., Medical anthropology.

ANB : 404 – Practical : ADVANCED BIOLOGICAL ANTHROPOLOGY

Unit I: Serology: Techniques and Procedures in Blood Grouping of A1A2BO, Rh (D), MN Systems.

Unit II: Other Genetical Traits: Techniques and Procedures in determining the Tasting Ability to Phenyl Thio-carbamide and Identifying the Colour Blindness using the Ishihara Colour Plates.

Unit III: Techniques and Procedures of Quantitative Estimation of Haemoglobin and the Determination of Blood Pressure. Sick cell Na2S2O5 slide test.

Recommended Readings :

1. Boorman, K. E., Dodd, B. and Lincoln, P. J. 1977. Blood Group Serology. Edinburgh: Churchill Livingstone.
2. Ishihara, I. Test for Colourblindness. Tokyo: Kanehara.
3. Kalmus, H. 1965. Diagnosis and Genetics of Defective Colour Vision. Oxford: Pergamon Press.
4. Race, R. R. and Sanger, R. 1975. Blood Groups in Man. Oxford: Blackwell Scientific.
5. Wiener, J. S. and Lourie J. A. 1969. Human Biology: A Guide to Field Methods. London: Academic Press.
6. Weiner, J. S. and Lourie, J. A. 1981. Practical Human Biology. London: Academic Press.
7. Yunis, J. J. (Ed). 1969. Biochemical Methods in Red Cell Genetics. New York: Academic Press.

ANB : 405 – Multi Disciplinary Course / Project work :**FIELD WORK, DISSERTATION AND VIVA VOCE**

Unit I: Field Work: The Student has to undertake Field Work Programme for a Period of 15 days under the Supervision of Teachers in the Field on the Specified Research Topic chosen in consultation with the Research Supervisor concerned.

Unit II: Preparation of Dissertation: The Student has to prepare the Dissertation on the basis of Statistical Analysis of the Data collected in the Field and the same be submitted to the Department for Evaluation at least 10 days before the commencement of the Fourth Semester Examinations.

Recommended Readings :

1. Boorman, K. E., Dodd, B. and Lincoln, P. J. 1977. Blood Group Serology. Edinburgh: Churchill Livingstone.
2. Garn and Shamir. Methods of Research in Human Growth
3. Ishihara, I. Test for Colour blindness. Tokyo: Kanehara.
4. Jelliffe, D. B. 1966. The Assessment of the Nutritional Status of the Community. WHO Monograph Series No. 53. Geneva: WHO.
5. Race, R. R. and Sanger, R. 1975. Blood Groups in Man. Philadelphia: Davis.
6. Wiener, J. S. and Lourie J. A. 1969. Human Biology: A Guide to Field Methods. London: Blackwell Scientific Publications.
7. Weiner, J. S. and Lourie, J. A. 1981. Practical Human Biology. London: Academic Press.

ANB : 406-6 (a) - Open Elective : EPIDEMIOLOGY

UNIT I: Epidemiology: Meaning and Scope, Methods, Rates, Indices, Genetic Epidemiology, Clinical Epidemiology

UNIT II : Complex Diseases: Concept, Genetic Factors, Environmental Impact, Etiology, Diagnosis, Prevalance; Prevention and Control of Diabetics, Cardio-Vascular Diseases and HIV/AIDS

UNIT III: Human Obesity : Characteristics, Types, Reasons and Complications on Individual Health, Prevention and Control.

UNIT IV : Major Communicable and Non-communicable diseases : Global and Indian Scenario; Malaria, and Tuberculosis : Etiology, Prevalance, Prevention and Management.

Recommended Readings:

1. Robert H. Fletcher, Suzanne W Fletcher. Clinical Epidemiology : The Essentials
2. Robert C. E. Ston, Jare M Olson, Lyce Palmes. Biostatistical Genetics and Genetic Epidemiology
3. Ron Stall, Sandra m Cifford, Croing R Jeans. Anthropology and Epidemiology : Inter Disciplinary Approaches to the study of Health and Disease
4. Gary D Friedman. Primer of Epidemiology
5. Sackett et al., 1991. Clinical Epidemiology : A Basic Science for Clinical Medicine
6. Penny Webb, Chris Bain, Sandi Pirozzo. Essential Epidemiology : An Introduction for students and Health Professionals
7. JH. Abramson, Z.H. Abramson. Survey Methods in Epidemiological research, Programme Evaluation and Community Medicine

ANB : 406 -6(b) - Open Elective : APPLIED BIOLOGICAL ANTHROPOLOGY

Unit I: Applications of Anthropometry: Assessment of Nutritional Status; Clinical Applications of Anthropometry; Kinanthropometry – Body Proportionality in Relation to Sports; Applications in the Fields of Defense and Air Force, Artificial Limbs, Readymade Garments, Shoe Making and Furniture Industries, etc.

Unit II: Forensic Anthropology: Definition, Aims and Scope; Establishment of Identity through Skeletal Remains – Age, Sex and Reconstruction from Skeletal Remains; Dermatoglyphics in Forensic Anthropology; Personal Identification – Identification through Somatometry and Somatoscopy; Identification through Hair and Body Fluids in Personal Identification; Blood Location, Semen, Saliva and Urine Collection and Evaluation, Medico-Legal Aspects; Questioned Paternity; DNA Finger Printing.

Unit III: Genetic and Society: Congenital Malformations; Genetic Counseling – Genetical, Medical and Social Concepts and Essential Qualities of Genetic Counseling; Genetic Screening and Prenatal Diagnosis of Genetic Diseases; Genetic Engineering. Ethical Aspects of Genetic Counseling; Human Genome Project; Treatment of Genetic Diseases and Gene Therapy.

Unit IV: Bio-Medical Anthropology: Physical Anthropological Approaches to the study of Diseases: Goiter, Kuru and Sickle-Cell Anaemia. Blood Groups and Disease Associations. Concept of Race and Racism, UNESCO Statement, Race Relations Racial Fallacies.

Recommended Readings :

1. Croney, J. 1981. Anthropometry for Designers. New York: Von Nostrand Reinhold Company.
2. El-Najjer, M. Y. and McWilliams, R. 1978. Forensic Anthropology. Springfield: Charles C. Thomas Publishers.
3. Emery, A. E. H. 1983. Elements of Medical Genetics. Edinburgh: Churchill.
4. Kitano, H. H. L. 1974. Race Relations. Englewood Cliffs: Prentice-Hall, Inc.
5. Lewis, Rick. 2001. Human Genetics: Concepts and Applications. London: McGraw Hill.
6. Lohman, T. G., Roche, A. F. and Martorell R. 1988. Anthropometric Standardization

Reference Manual. Illinois: Human Kinetic Books.

7. Mueller, R. F. and Young, I. D. 1998. Emery's Elements of Medical Genetics. Livingstone: Churchill.
8. Nussbaum, Robert L., McInnes, Roderick R. and Willard, Huntington F. 2001. Thompson and Thompson Genetics in Medicine. Philadelphia: W. B. Saunders Company.
9. Safe, P. 1993. Sociology. (Chapter 21: Race Relations). McMillan.
10. Singh, S. P. and Malhotra, P. 1989. Kinanthropometry. Patiala: Lunar Publications.
11. Sodhi, H. S. 1991. Sports Anthropometry. Mohali: Anova Publications.
12. Stevenson, A. C. and Davidson, B. C. 1976. Genetic Counselling. London: Heinmann.
13. Stewart, T. D. 1979. Essentials of Forensic Anthropology. Springfield: Charles C. Thomas and Company.
14. Surinder Nath. 1984. Finger Print Identification. Delhi: Department of Anthropology, Delhi University.
15. Surinder Nath. 1989. An Introduction to Forensic Anthropology. New Delhi: Gian Publishing House.

SEMESTER – III

(SPECIALIZATION IN SOCIAL CULTURAL ANTHROPOLOGY)

ANS : 301 - Core Theory : THEORIES OF CULTURE

Unit I: Culture and Cultural Evolution: Meaning; Culture as Adaptive System; Ideational Theory of Culture (Culture as Cognitive, Structural and Symbolic Systems). Conceptual Contributions of E. B. Tylor, B. Malinowski, A. L. Kroeber, L. White, Unilineal Evolution (L. H. Morgan and E. B. Tylor); Multilineal Evolution (J. Steward); Universal Evolution (L. White); General and Specific Evolution (Sahlins and Service).

Unit II: Diffusion and Diffusions: British School; German-Austrian School; American – Distribution School.

Unit III: Culture and Personality; Patterns of Culture (R. Benedict); Basic Personality, Model Personality (Kardiner, Linton, Cora Dubois); Selfhood (Murphy); Symbolic (G. Obeyesekere)

Unit IV: Historical Approach: History and Social Anthropology; Relevance of Historical Approach; Historical Particularism (F. Boas).

Recommended Readings:

1. Carneiro, Robert L. 1973. The Four Faces of Evolution: Unilinear, Universals
2. Keesing, R. M. Theories of Culture. Annual Review of Anthropology. 12: 73-94.
3. Harris, M. 1968. The Rise of Anthropological Theory: A History of Theories of Culture. London: Routledge and Kegan Paul, (Chapters 6,7,9,10,14 and 22.)
4. Harold, R. S. and Naroll, F. 1973. Main Currents in Cultural Anthropology. New York: Appleton Century Crofts. (Chap.3: pp. 47-122 Chap 5: pp 157-184 and Chap.8: pp. 247-280)
5. Harris, M. 1969. Cultural Materialism: The Struggle for a Science of Culture. New York: Random House.
6. Kroeber, A. L. 1952. The Nature of Culture. Chicago: University of Chicago Press.
7. Lowie, R. H. 1973. History of Ethnological Theory. New York: Holt, Rinehart and Winston. (Chapters 9,10 and 11 pp 128-195)
8. Manners, R. A and Kaplan, D. (Eds.). 1969. Theory in Anthropology. London: Routledge and began Paul,
9. Malinowski, B. 1960. A Scientific Theory of Culture and other Essays. New York:

Oxford University Press.

10. Sahlins, M. D. and Service, E. R. (Eds.). 1960. Evolution, Specific and General, In Sahlins M. D. and Service E.R. (Eds.) Evolution and Culture. Ann Arbor: University of Michigan Press (PP 12-44)
11. Steward, J. H. 1955. Theory of Culture Change: The Methodology of Multilineal Evolution. Illinois: University of Urbana, (Chap.1: PP 11-29)
12. Tylor, E. B. 1958. Primitive Culture: Researches into the Development of Mythology, Philosophy, Religion, Language, Art and Custom. Revised Fourth edition. New York: Harper Torch Books (TB-33-4) (Originally Published by J. Murray and Company in 1871) Vol. 1, Chapter 1: pp. 1-25)
13. White, L. A. 1969. The science of Culture: A Study of Man and Civilization. New York: Farrer Strauss and Ciroux, (Chapter13: pp. 363-396)
14. White, L. A. 1959. The Concept of Culture. American Anthropologist. 6: 227-251.

ANS : 302 - Core Theory : SOCIAL ANTHROPOLOGY OF COMPLEX SOCIETIES

Unit I: Complex Societies: Meaning and Approach, Folk-Urban Continuum (R. Redfield); Great and Little Traditions (R. Redfield and Singer); Text and Context (Singer);

Unit II: Peasant Societies: Contributions of Redfield, Shanin and Eric Wolf; Peasants and Tribes; Peasants and Workers; The Image of Limited Good (G. M. Foster). Contemporary Peasant Communities.

Unit III: Complex Cultures in Western Societies: Social Class in Western Societies; Culture of Poverty (O. Lewis); Institutions in Complex Societies: Family and Kinship; Study of Culture at a Distance and National Character.

Unit IV: Urban Anthropology and Complex Organizations: Urban Anthropology: Meaning and Scope; Urban Problems and Anthropological Interventions; Urbanization and Social Change (Harshad R. Trivedi); Global problems and culture of capitalism.

Recommended Readings :

1. Banton, M. (Ed.). 1966. Social Anthropology of Complex Societies. London: Tavistock Publications.
2. Basham, R. and Degroot, D. 1977. Current Approaches to the Anthropology of Urban and Complex Societies. American Anthropologist. 79: 414-440.
3. Beidelman, T. O. 1959. A Comparative Analysis of the Jajmani System. Locust Valley, New York: Monograph of the Association for Asian Studies, No.8.
4. Betteille, A. 1974. Six Essays in Comparative Sociology. Delhi: Oxford University Press.
5. Blanter. 1976. Anthropological Study of Cities. ARA.
6. Eisenstadt, S. N. 1961. Anthropological Studies of Complex Societies, Current Anthropology, Vol.2, 201-210.
7. Foster, G. M. 1965. Peasant Society and the Image of the Limited Good. American Anthropologist. 63: 293-315.
8. Fox, R. G. 1977. Urban Anthropology: Cities in their Cultural Setting. New York: Prentice-Hall.
9. Halperin, R. 1977. Peasant Livelihood: Studies in Economic Anthropology and Cultural Ecology. New York: St. Martins.
10. Kothari, R. 1970. Caste in Indian Politics. New Delhi: Orient Longmans.
11. Marriott, M. (Ed.). 1972. Village India: Studies in the Little Community. Chicago: The University of Chicago Press.
12. Redfield, R. 1956. Peasant Society and Culture: An Anthropological Approach to Culture.

- Chicago: university of Chicago Press.
13. Rudolph, K. and Rudolph, L. 1960. The Political Role of India's Caste Associations. Pacific Affairs Vol. XXXIII No.1
 14. Shanin, T. (Ed). 1970. Peasant and Peasant Societies. New York: Penguin Books.
 15. Shah, A. M. Baviskar, B. S. and Ramaswamy, E. A.1996. Social Structure and Change. Vol. 3. Complex Organizations and Urban Communities. New Delhi: Sage Publications. Chapters 1, 4, 5 and 10.
 16. Sharma, K. L. 1972. 'Modernization and Rural Stratification: An Application at the Micro-Level. Economic and Political weekly, Vol. 37.
 17. Singer, M. When a Great Tradition Modernizes: An Anthropological Approach to Indian Civilization. New York: Praeger.
 18. Sober, G. 1960. The Pre-Industrial Society. New York:
 19. Srinivas, M. N. 1964. Caste in Modern India and Other Essays. Bombay: Asia Publishing House.
 20. Wolf, E. R. 1966. Peasants. Englewood Cliffs: Prentice Hall.

ANS : 303-3 (a) – Generic Elective : ECOLOGICAL ANTHROPOLOGY

Unit I: Ecological Anthropology: Meaning and Scope; Concepts: Ecology, Ecosystem, Homeostasis of the Ecosystem, community and Population, Habitat and Ecological Niche, Ecosystem Development (or Ecological Succession), Environment, Adaptation, Culture Core.

Unit II: Theoretical Formulations: Environmental Determinism (Meggars); Environmental Possibilism (C. Wisler, A. L. Kroeber, D. Forde); Cultural Ecology (J. Steward); Techno-Economic and Techno-Environmental Determinism (M.Harris) Cognitive Ecology (H. Conklin, C. Frake and A. Beals); Single Unified Ecology (Vayda and Rappaport); Nature-Culture Dualism; Ethno-ecology.

Unit III: Ecological Issues: Forest and Tribes; Traditional Resources Management; NTFP; Sacred Grooves. Biodiversity for Sustainable Development; Community based Conservation (CBC): Issues and Prospects; Development Projects (Hydro-electric, Irrigation Projects and Industries) and Displacement.

Unit IV: Environmentalism: Meaning and Issues for Debate; Role of Anthropology; Ecological Protest Movements (Chipko and Narmada Bachao Andolan (NBA)); Environmental Policy and NGOs.

Recommended Readings :

1. Barth, F. 1956. Ecological Relationships of Ethnic Groups in Swat, Northern Pakistan. American Anthropologist, 58: 79.
2. Beals, A. R. 1974. Village Life in South India: Cultural Design and Environmental Variation. Aldine Publishing Company, Chicago.
3. Conklin, H. C. 1954. An Ecological Approach to Shifting Agriculture. Transactions of the New York Academy of Sciences Series 2. 17: 133-142.
4. Fikret B. (Ed.). Common Property Resources: Ecology and Community Based Sustainable Development. London: Belhaven Press - A Division of Printer Publishers. (Chapter 3: Natural Resources: Access Rights-to-Use and Management. Pp. 33-54).
5. Frake, C. D. 1962. Cultural Ecology and Ethnography. American Anthropologist. 64: 53-60.
6. Harris, M. 1968. The Rise of Anthropological Theory. New York: Thoma Y. Crusell. (Chapter 23. pp. 654-687.

7. Meggars, B. J. 1954. Environmental Limitation to the Development of Culture. *American Anthropologist*. 56: 801-824.
8. Hardesty, D. L. 1977. *Ecological Anthropology*. New York: Wiley and Sons.
9. Kothari, A. et al. 1998. *Communities and Conservation*. New Delhi: Sage Publications.
10. Moran, E. R. 1971. *Human Adaptability: An Introduction to Ecological Anthropology*. Colorado: Westview Press.
11. Netting, R. Mc, C. 1971. *The Ecological Approach in Cultural Study*. New York: Addison Wesley Modules in Anthropology. Module – 6 Sand Hill; Road, Menlo Park: Cummings Publishing Company.
12. Odum, E. P. 1991. *Fundamentals of Ecology*. Delhi: Nataraj Publishers.
13. Poffenberger, M. and McGean. 1998. *Village Voices, Forest Choices: JFM in India*. New Delhi: Oxford (Selected Chapters).
14. Ramakrishna, P. S. 1989. *Managing Biodiversity for Sustainable Development*. Ahmadabad: IIMA.
15. Ramakrishna, P. S. 1998. *Conserving the Sacred: Ecological and Policy Implications*. In. Ashish K. et al. (Ed.). *Communities and Conservation*. Sage Publications, New Delhi. Chapter 11. pp. 239-251.
16. Sahins, M. 1966. *Culture and Environment: The Study of Cultural Ecology*. In, Sol Tax (Ed.). *Anthropology*. Higginbotham, Madras.
17. Steward, J. H. 1968. *Cultural Ecology*. In. David Sills (Ed.). *International Encyclopedia of Social Sciences*. The Macmillan Co., The Free Press, N. Y.
18. Tiwari, D. D. 1994. *Developing and Sustaining Non-timber Forest Products: Policy Issues and Concerns with Special Reference to India*. *Journal of World Forest Resource Management*. 7: 151-178.
19. Vayda, A. P. (Ed.). 1969. *Ecological Studies in Cultural Anthropology*. Natural History Press, Garden City, N.Y.
20. Vayda A. P. and Rappaport, R. A. 1968. *Ecology: Cultural and Non-Cultural*. In. J. A. Clifton (Ed.). *Introduction to Cultural Anthropology*. Boston: Houghton Mifflin. pp. 477-497.
21. Viswandha Reddy, K 2002 *Cultural Ecology of Indian Tribes*. Delhi, M/S Raj Publications.

ANS : 303-3(b) - Generic Elective : APPLIED ANTHROPOLOGY AND INDIGENOUS COMMUNITIES

Unit I: Applied and Action Anthropology – Meaning and Scope; Similarities and Differences between Applied and Action Anthropology . Indigenous communities and applied anthropology. Indigenous rights.

Unit II: Social-Cultural Change–Innovation; Diffusion; Acculturation; Assimilation; Trans-acculturation; Socialization; Cultural Lag; Cultural Shock; Barriers to Change: Social, Cultural and Psychological Barriers; Agents of Change; Chain Reaction; Promoters of Change.

Unit III: Applications of Anthropology in – Agriculture; Public Health; Medicine and Nutrition; Industry; Education; Environment and Bio-Diversity; Administration and Planning; Poverty Eradication (Rural-Urban).

Unit IV: Tribal Welfare – Planning and Administration: History and Approaches (British, Ghurye, Area Approach/MADA; ITDP; Sub-Plan); Tribal Problems: Forest and Property Rights; Shifting Cultivation; Displacement; Education; Indebtedness and Land Alienation; Health; Tribal Movements and National Integration: Nativistic and Revitalization Movements with Examples.

Recommended Readings :

1. Barnett, H.G. 1956. Anthropology in Administration Illinois: Row Peterson.
2. Chaudhuri, B. 1984. Tribal Development: Problems and Prospects. New Delhi: Inter India Publications.
3. Clifton, J .A. (Ed.). 1970. Applied Anthropology: Readings in the use of the Science of Man. Boston: Houghton-Mifflin.
4. Foster, G. M. 1969 Traditional Cultures and the impact of Technological Change. Bombay: Allied Publishers.
5. Hogbin, I. H. 1958. Social Change. London: Watts and Co.
6. Mair, L.P. 1955. Studies in Applied Anthropology. London School of Economics Monograph. London: London University.
7. Mead, M. 1955. Cultural Patterns and Technological Change. New York: Mentor Books.
8. Vidyarthi, L.P. 1968. Applied Anthropology in India. Allahabad: Kitab Mahal.
9. Varma, R.C. 1990 Indian Tribes through the Ages. Publication Divisions, Govt. of India, New Delhi.
10. Viswanadha Reddy, K. 2002, Cultural Ecology of Indian Tribes Delhi, M/s. Raj Publications.

ANS : 303-3 (c) – Generic Elective : ANTHROPOLOGY OF RELIGION- SACRED COMPLEX IN INDIA

Unit – I : Anthropology of Religion : Meaning scope and relation with power and political leverage, ethnic identity and other aspects of culture in traditional and modern societies; elements of religion : Ritual ceremony, myth, taboo, sacred and profane, Rites of passage; van Gennep (separation, Liminality and incorporation); Witchcraft; sacrifice (Hicks and Gwywne); purity and pollution (Pauline kolenda).

Unit – II : Anthropological theories of religion; Durkheims theory of religion; functional school of religion symbolism anthropological conceptualization of pilgrimage; sacred space; sacred time and sacred knowledge; man-nature-spirit complex and sacred complex as a dimension of Indian civilization (vidyarthi, sinha and saraswathi) conceptual contributions concerning civilization (primary-secondary of Robert redfield); universalization and parocholozation of Marriot cultural Media and cultural performance of singer.

Unit – III : Analytical studies on religion ; Mini-Readings-The imagined landscape; Patters in the construction of Hindu sacred Geography (Diana L. Eck); The issue of Right of Food among the Hindu – Notes and comments (R S Khare); Moharam (A R Saiyid); Five symbols of sikh identity (J.P.S Uberoi); Aspects of sarora ritual and Shamansism (victor tuner); Ritual Regulation of environmental relations among a new guinea people (Ray A Rapport) and Christianity in India (K.N. Sahey).

Unit – IV : Contemporary issues of religion; the logic of religious violence (M. Juergensmeyer); Secularism (Brass and Madan) and fundamentalism; Religious conversion; Religious tourism; management and ecological issues.

Recommended Readings :

1. Cole B. J. Ed.1982. Anthropology of Eighties introductory readings (chapter 23). The free press, New York. Pp371-385.
2. Das V. et. Al 1999 eds. Tradition pluralism and identify. Sage publications India Pvt Ltd., New Delhi (chapter 6) pp.111-136.
3. De Waal M.A. 1968. Religion and culture; An Introduction to Anthropology of Religion. New York: The McMillan Company.
4. Dube, S.C. 1965. The study of complex cultures in towards the sociology of culture in India. T.K.N. Unnithan, I and Yogendra Singh, New Delhi: Prentice Hall of India Pvt. Ltd.
5. Evans-Pritchard, E.E. 1965. Theories of Primitive Religion. Oxford: Clarendon Press.
6. Jha,M (Ed). 1991. Social Anthropology of Pilgrimage. New Delhi Inter-India Publications.
7. Madan, T.N. Ed 1977. Religion in India; 4th Edition. Oxford University Press, New Delhi, Chapters by P. Kolenda, A.R. Saiyid and J.P.S. Uberoi Stephen Fuchs, Origin of Religion.
8. Redfeild, Robert, 1956. Peasant society and culture; An Anthropological Approach to civilization. Chicago: University of Chicago Press.
9. Sahay, K.N. 1976 under the shadow of the cross. Calcutta; Institute of Social Science and Action Anthropology.
10. Singh, Yogendra 1973 Modernization of Indian tradition: New Delhi: Thomson press.
11. Siner, Milton 1972 When a great tradition modernizers? An Anthropological approach to Indian civilization. New York; Praeger publishers .
12. Srinivas M.N. 1952. Religion and society among the Coorgs if South India, Oxford: Clarendon press (chapters 3 & 4).
13. Tuner, V.W. 1967, Aspects of Saora ritual and shamanism: An approach to the Data of Ritual. In A.L. Epstein (Eds). 1967. The crafts of social Anthropology, London: Tavistock publications.
14. Vidyarthi, L.P. 1961. Sacred complex of Hindu-Gaya, Bombay Asia publishing house.

ANS : 304 - Practical : Participatory Research Methods in Community Development Process

Unit I: Participatory Rural Appraisal (PRA): Conventional Research Methodology; Genesis of PRA; Critical Appraisal of PRA; Prerequisites for PRA.

Unit II: Social Mobilization and Extension: Meaning and Nature; Development of Tourism: A Critique; Demand Driven Approach.

Unit III: Tools and Techniques of PRA: Identification of the Knowledge. Interviews: Focus group Discussion; Group Interviews; Chain of Interviews; Sequence of Interviews; Ethno-history; Case Study. Mapping: Village Mapping; Social Mapping; Resource Mapping; Concept Mapping; Need Assessment (100 Seeds Method); Food Security Mapping. Ranking, Scoring and Rating: Weather Ranking; Pair-wise Ranking; Social Ranking; Wealth Ranking; Livelihood Analysis. Diagram: Venn Diagram; Seasonality Diagram Miscellaneous: Transect Walk; Problem Analysis; Time-Line. Health PRA: Seasonality; Intensity; Curative. Gender PRA: Decision-Making; Division of Labour. Micro plan.

Unit IV: Applications of Participatory Research Techniques. Note: The student has to write a record and present one PRA Technique after applying the same in Rural Context. Duplication of PRA Technique is to be avoided to the extent possible. In Case two or more Students were to apply one PRA Technique, the Context and Subject for which the Specific PRA Applied may be Suitably Different.

Recommended Readings:

1. Bernard, H. R. 1988. Research Methods in Cultural Anthropology. London: Sage.
2. Chambers, R. 1994. Participatory Rural Appraisal: Analysis of Experience. World Development Volume 22 (7).
3. Riley, J. M. 2002. Stakeholders in Rural Development. New Delhi: Sage Publications.
4. Sivaram, P. N.D. PRA: Techniques and Applications. Hyderabad: NIRD.
5. Somesh Kumar. 2002. Methods for Community Participation. Delhi: Vistar (Sage).
6. White, W. F. 1991. Participatory Action Research. New Delhi: Sage Publications.

ANS : 305 - Skill Oriented Course : Data Management and Computer Applications

Unit I: Data: Concept and Definition, Development of Data. Data in Anthropology, Variables: Continuous and discontinuous variables, attributes and derived variables. Data collection methods; types of data, Accuracy and precision of the data, choosing appropriate scale and measurements to the data; preparing code book.

Unit II: Personal computer operating system – MS office –creating a document using word, editing and formatting text. Use of computers in the analysis of the data.

Unit III: SPSS: Getting to know SPSS, Preparing the Data, Screening and cleaning data, Manipulation of Data, preliminary analysis, Descriptive statistics: Correlation, Multiple Linear regression, one sample and two independent sample t test. Independent Chi Square Test, Logistic Regression and Discriminant Analysis. Factor Analysis, Cluster Analysis.

Unit – IV : Excel: Introduction manage workbook options and settings : Format worksheets and work books : Customize options and views for worksheets and work books: Create Tables: Manage Table styles and options : Filter sort a Table perform operations with formulas and functions: create charts and objects: Apply custom data formats and layouts : create advanced formulas:

Recommended Readings:

1. Bryman, A and Cramer, D. 1977. Quantitative Data Analysis with SPSS for windows: A Guide for social Scientists London: Routeledge.
2. Bryman, A. and Cramer, D.1999. Quantitative Data Analysis with SPSS Release : 8 for windows: For Social Scientists. London: Routeledge.
3. Foster, J. J. 2001. Data Analysis Using SPSS for Windows Versions 8.0-10.0: A Beginner's Guide. Sage Publications India Pvt. Ltd. New Delhi.
4. Gilbert, N. 1989. Biometrical Interpretation, Making Sense of Statistics in Biology. Oxford: Oxford Science Publications.
5. Johnson, R. A. and Wichern, D. W. 1988. Applied Multivariate Statistical Analysis. London: Prentice-Hall International.

ANS : 306-6 (a) - Open Elective : ANTHROPOLOGY & CAREER PROMOTION

Unit – I : Introduction to Anthropology : Branches specializations; relation with other subjects; * Anthropology in competition examinations.

Unit – II : An Overview of Anthropology subject matter

Basic concepts of definitions

Institutions and organization

Medical Anthropology

Anthropology and Development

Field work and PRA, RRA

Globalization : Anthropological theories

Unit – III : Indian Anthropology

Prehistoric protohistoric cultures Ancient Civilizations, video and post vedic cultures Ethenic, Linguistics classifications of Indian populations

Caste, Scs, Traditions and Socio cultural processes

Tribes and Tribal welfare; problems; Administrations; tribal and rural development

Unit – IV : Preparation and the art of answering questions

Books to be consulted

Review of questions

Scheme of valuation

Recommended Readings :

1. Bohanman, P.1963 Social Anthropology
2. Ember C.R., Ember M Peregrine, P.N. 2002. Anthropology Delhi, Pearson Education.
3. Manumdar, DN and T.N. Madan, 1997, An Introduction to Social Anthropology, Mayoor paperback Nodia.
4. L.P. Vidyarthi 1968. Applied Anthropology in India Allahabad. Kitab Mahal.

ANS : 306-6 (b) - Open Elective : TRIBAL STUDIES

Unit- I : Concept of tribe, Characteristics of tribe, Tribes in India: classification and distribution of tribes based on economic, cultural, linguistics and racial, Tribal situation of Orissa.

Unit- II : Problems of tribes: Land Alienation, Indebtedness, Migration, and Cultural Degradation.

Unit- III : Tribal Economy : Shifting cultivation, Forest and tribe, Deforestation and its impact on tribal, Tribal education, Problems and prospects, Tribal health, Tribal craft.

Unit- IV : Tribal policies : Fifth and Sixth Schedules Constitutional safeguards.

Recommended Readings :

1. Behara, D.K and Georg pfeffer, Contemporary Society Tribal Studies, Volume 1 to VI. 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. Vidarthy, L.p and B. N. Sahay. Applied Anthropology and Development in India, New Delhi: National publishing House.
5. Vidarthy, L. P. Tribal Cultural in India

6. A. K. Pandey, Tribal situation in India. New Delhi, Manak
7. Vidyut Joshi, Tribal situation in India, New Delhi, Rawat
8. A. K. Singh Tribal Development in India.
9. Choudhury b. Tribalm Development in India
10. Hassnain, Nadim. Tribal India.

SEMESTER – IV

(SPECIALIZATION IN SOCIAL CULTURAL ANTHROPOLOGY)

ANS : 401 - Core Theory : STRUCTURAL ANTHROPOLOGY

Unit I: Structure and Function: Organism Analogy; Social Structure and Function (A.R . Radcliffe Brown); Functionalism and the Theory of Needs; Institution; Primitive Exchange and Religious Motivations; Psycho-Analytical and Bio-Cultural Interpretations (B. Malinowski)

Unit II: Social Structure and Social Organization: Ideal and Real (E. R. Leech); Social Organization (R. Firth); Status and Role (S. F. Nadal)

Unit III: Structuralism (Levi-Straus): General Notion of Structuralism; Surface Structure and Deep Structure; Binary Opposition; Model; Structural Approach and Myth.

Unit IV: Symbols and Meanings: Symbols and Structure (V. Turner and M. Douglas); Interpretative Anthropology (C. Geertz); Post-Modernism.

Recommended Readings :

1. Firth, R. W. 1972. Elements of Social Organization. London: Tavistock Publications.
2. Hatch, E. 1973. Theories of Man and Culture. New York: Columbia University Press.
3. Kaplan, D. and Manners, R. A. 1972. Culture Theory. Englewood Cliffs: Prentice-Hall, Inc.
4. Kuper, A. J. 1975. Anthropologists and Anthropology. England: Peregrine Books.
5. Leach, E. R. 1970. Levi-Strauss. Fontana Modern Masters Series. London: William Collins.
6. Leach, E. R. 1965. Political Systems of Highland Burma: A Study of Kachin Social Structure.
7. Moore, J. A. 1997. Visions of Culture. London: Alta Mira Press.
8. Radcliffe-Brown, A. R. 1973. Structure and Function in Primitive Society: Essays and Addresses. London: Routeledge and Kegan Paul.

ANS : 402 - Core Theory – DEVELOPMENTAL ANTHROPOLOGY

Unit I: Development Anthropology: Meaning and Scope; Concept of Development and Sustainable Development; Relevance of Anthropological Knowledge in Role of Values and Institution in Development); Indices and Measurement of Development; Models and Theories in Development.

Unit II: Steps in Planning Development Project: Concept of Planning; The Logical Framework-Project Planning and Management Technique; Project Preparation and Defining of

Goals; Process of Implementation; Monitoring and Evaluation; Social Assessment and Stake Holder Analysis.

Unit III: Agencies of Development: Role of Government Agencies; Non-Governmental Organizations; Community Based Organizations; Peoples Participation in Development.

Unit IV: Model Project (Intensive Study): Case Studies on Forestry; Watershed Management and Irrigation (Relegoan Siddi); Resettlement (Narmada); Poverty Alleviation (Velugu); Primary Education (VECs)

Recommended Readings :

1. Cochrane, G. 1971. Development Anthropology. New York: Oxford University Press
2. Dalton, G. 1967. Economic Anthropology and Development: Essays on Tribal Peasant Economies. New York: Natural History Press.
3. Dube, S. C. 1989. Tradition and Development. New Delhi: Vikas Publishing Home.
4. Kurien, C. T. 1978. Poverty, Planning and Social Transformation. Bombay: Allied: Publishers.
5. Long, N. 1977. An Introduction to Sociology of Rural Development. London: Tavistock Publications
6. Mair, Lucy P. 1957. Studies in Applied in Anthropology. London: Athlona Press.
7. Mair, Lucy P. 1984. Anthropology and Development. London: Macmillan and company.
8. Mathur, H. M. 1990. Ed. The Human Dimensions of Development: Perspectives from Anthropology. New Delhi: Concept Publishing Company.
9. Mathur, H. M. and Haimendorf, C. V. F. 1977. Anthropology in the Development Process. New Delhi: Vikas Publishing House.
10. Myrdal, G. 1970. The Challenges of World Poverty: A World Anti-Poverty Programme in Outline. Harmondsworth: Penguin Books.
11. Pitt D. C. 1967. Ed. Development from Below-Anthropologists and Development Situations. The Hague: Monton.
12. Spicer, E. H. (Ed.). Human Problems in Technological Change. A Case Book.
New York: Russell Sage Foundation

ANS : 403- 3 (a) - Generic Elective : MEDICAL ANTHROPOLOGY

UNIT – I

- 1) Meaning and scope
- 2) Basic Premises in Medical Anthropology
- 3) Central concepts
- 4) Major theoretical frameworks

UNIT-II

- 1) Epidemiology: Definition and Components of study in epidemiology, rates and ratios used in epidemiology
- 2) Epidemiology and Medical Anthropology.
- 3) Ecology, culture and diseases
- 4) Infectious and non-infectious diseases

UNIT-III: Ethno medicine

1. Aetiology, disease classification
2. Diagnosis and treatment : Folk methods
3. Cultural context of health and illness behavior: illness behavior – definition models of illness behavior

UNIT – IV: Modern Medical systems and Health care delivery services

1. Medical pluralism
2. Factors influencing health programmes
3. Medical practitioners and patients
4. Health Research: Anthropological methods critical medical and social economy approaches to health and illness.

Reading References:

1. Brown, Peter, 1998 understanding and Applying Medical Anthropology, London: Mayfield Publishers.
2. Leiban R W (1974): Medical Anthropology In Hand Book of Social and Cultural Anthropology (Ed) Honnigman; Chicago, Rand Mc Nally & Co (pages 1031 -1071)
3. Brown J Peter, Ronanld L. Barret, Mark B Padilla (1998) Medical Anthropology: An Understanding to the Fields; In Understanding and Applying Medical Anthropology (Ed) Brown J Peter
4. Joshi PC & Anil Mahajan (1990):Medical Anthropology: an Over View, In Medical Anthropology (Ed) P.C Joshi and Anil Mahajan, New Delhi, Reliance Publishing House.
5. Joshi PC & Anil Mahajan (Ed) (1990): Medical Anthropology, New Delhi, Reliance Publishing House.
6. Foster M George & Anderson B G (1977): Medical Anthropology, New York, John Wiley & Sons pp (1 – 10)
7. Baer A Hans et al (2000): Medical Anthropology and the World systems; PP 1 -53
8. Johnson T.M & Sargent FG (Ed)(1990): Medical Anthropology: A Hand Book of Theory and Method; New York, Green wood Press
9. Park JE and K Park (1977): Text Book of Social and Preventive Medicine, Jabalpur, Banarasi Das Bhanot
10. Trostle A James and Johannes Sommerfield (1996): Medical Anthropology and Epidemiology, Annual Review of Anthropology 25, PP 253 - 74
11. Janes RC Craig et al (Ed.) (1986): Anthropology and Epidemiology: Interdisciplinary Approaches to the Study of Health and Disease, Boston, D. Reidel Publishing Company
12. Dubos Rene(1977): Determinants of Health and Disease In Culture, Disease and Healing (Ed), David Landy, New York, Mac Millan Pub.
13. Johnson T.M & Sargent FG (Ed) (1990): Medical Anthropology: A Hand Book of Theory and Method; New York, Green wood Press
14. Foster M. Goerge & Anderson BG (1978): Medical Anthropology, New York, John Wiley & Sons; PP 51-79.
15. Banarjee B G and Ritual J(1988): Folk Illness and Ethno medicine, New Delhi, Northern Book Centre
16. Loudon JB (Ed) (1976): Social Anthropology and Medicine, London, Academic Press.
17. Salil Basu (Ed) (1994): Tribal Health in India, Delhi, Manak Publications

18. Joshi PC & Anil Mahajan (Ed)(1990) Medical Anthropology , New Delhi, Reliance Publishing House.
19. David Mechanic (1978): Medical Sociology, New York, Free Press PP 249 – 286
20. Rodney M Coe (1978): Sociology of Medicine, New York, Mac Graw Hill Book Comp, PP 95 – 114
21. Denton (1978): Medical Sociology Houston Moffillin Company PP 73-85
22. Ignu U A (1979: Stages in Health Seeking: A descriptive Model social sciences and Medicine. Vol. 13A
23. Logan HM et al (1978) Health and Human condition: Perspectives on Medical Anthropology; Massachusetts, Durabury Press.
24. Foster M George& Anderson BG (1978): Medical Anthropology New York, John Wiely & sons.
25. Lesile C (Ed)(1980): Medical Pluralism in world Perspectives, social Sciences and Medicine, VOL.14B 191.

ANS : 403-3 (b) - Generic Elective - CULTURE AND MANAGEMENT

Unit :I Basic concepts : Culture; institutions, organizations, values, norms and behaviours. National character. Small groups and networks. The concept of organizational culture. Its links with cultural anthropology Organizational ethnography. Anthropology of work

Unit-II Organization theory and comparative management. Theories of organizational culture. Different anthropological traditions (cognitive, structuralist, symbolic schools) Functionalist paradigm vs. interpretive paradigm in organization theory.

Unit_III Introducing management and culture. Management in East and West. Concepts of effectiveness and efficiency: Collectivism, Individualism, Uncertainty avoidance. Decision making, Communication. Knowledge management. How culture affect management Changes in management styles Future outlook.

Unit-IV Methodological issues in cross-cultural management research. The interpretive paradigm. Ethno methodological approaches. Phenomenology and the study of organizational activities. Organizational symbolism. Integration, differentiation and fragmentation as three perspective approaches to organizational culture analysis Basic assumptions and characteristics of the three approaches. Areas of application.

Recommended Readings :

1. Jean-Claude Usunier “International and Cross-Cultural Management Research”
2. Geert Hofstede “Culture's Consequences: International Differences in Work-Related Values”
3. Geert Hofstede Cultures and organisations: Software for the mind
4. Fons Trompenaars and Charles Hampden Turner “Riding the Waves of Culture: Understanding Cultural Diversity in Business”
5. Kim S. Cameron, Robert E. Quinn Diagnosing and Changing Organizational Culture: Based on the Competing Values Framework
6. Yvan Allaire, Mihaela E. Firsirotu “Theories of Organizational Culture”, Organizational Studies, 3, 1984
7. Gareth Morgan “Paradigm diversity in organizational research” in “The theory and philosophy of organizations” (edited by J. Hassard, D Pym), 1990,

8. G. Burrell, G Morgan, "Sociological Paradigms and Organizational Analysis", 1979
9. Mats Alvesson "Cultural Perspectives on Organizations", 1993
10. G. Burrell, G Morgan, "Sociological Paradigms and Organizational Analysis", 1979
11. G. Hofstede, "Cultures and Organizations", 1994.
12. Berger, Luckmann "The social construction of reality", 1966
13. Smircich L. "Organizations as shared meanings" in "Organizational symbolism", (1983), Greenwich, CT: JAI Press (pp. 55-65)
14. Garfinkel, H. "Studies in ethnomethodology", 1967
15. Pondy, L., Frost, P., Morgan, G "Organizational symbolism", (1983), Greenwich, CT: JAI Press
16. Martin, J., Meyerson, D, "Integration, differentiation and ambiguity", 1991
17. Helen Schwartzman, "Ethnography in Organizations", 1993, SAGE University paper
18. M. Schultz, M.J. Hatch, "Living with multiple paradigms", Academy of Management Review, 1996, Vol. 21, No 2, 529-557
19. J. Martin, P. Frost, "The Organizational Culture War Games: a Struggle for Intellectual Dominance"

ANS : 403-3(c) - Generic Elective: - ANTHROPOLOGY OF DISPLACED POPULATIONS

Unit – I : Development and Displacement ; Concept conceptual variation between displacement up-rooted, refugees, costees, evacuees, forced migration, involuntary migration; displaced populations due to various development projects in India and abroad people's perception towards development and displacement.

Unit – II : Displacement, Resettlement and Rehabilitation: Conceptual relationship, preparation of estimates, notification and declaration Emsveration payment of compensation process of displacement, rehabilitation and resettlement, role of government and non-government agencies in the process of displacement, resettlement and rehabilitation.

Unit – III : Policy issues relating to development and displacement in India. Government Orders and Policies of states and Central Governments. Legal implications of displacement and rehabilitation.

Unit – IV : Socio-Cultural effects of displacement, Socio disorganization, process of disintegration and reintegration, occupational diversity, Ecological effects of large dama.

Recommended Readings :

1. Joshi B.L. 1982 Displacement and Rehabilitation : A study of a Dam affected village community, Aurangabad, Parimal Prakasan.
2. Michael Cernea., 1991 Involuntary Resettlement: Social Research, Policy and planning in Michael Cernea (ed) putting people first (second Edition) New York.
3. Morse, B and T. Berger, 1992 Sardar Sarovar, The report of the Independent Review, Resource futures International , Ottawa.
4. Parasuraman, 1996 Development projects displacement and outcomes for displaced; Two case studies, Economic and Political weekly, June 15 Mumbai.
5. J.J. Roy Burman and Bipin Das 1992 Development projects and Tribal exploitation in Buddha ded Chaudary (ed) Tribal Transformation in India, New Delhi.
6. Sudhakara Reddy P 2002 Displacement and Social-Cultural change common wealth publishers New delhi.

ANS : 404 - Practical : Non-Governmental Organizations and Extension Studies

Unit I: Non Government Organization (NGO) and its Role: The Concept of NGO; Voluntarism; The Organization of NGO; Role and Intervention.

Unit II: Awareness and Access to Development Resources: The Idea of Development Resources; Constraints in Availing Development Resources.

Unit III: Development Programmes and People's Participation: Monitoring and Evaluation; Social Mobilization; People's Participation.

Unit IV: Community Based Organizations: SHG, CIG, Federation (VO, MS, DS), Youth Organizations and Grama Sabhas; Models of Federation: UNDP Model; CARE Model, DHAN Model, Outreach Model, DPIP Model.

Recommended Readings:

1. Ackerman, K. J. 1973. Ways of Being Poor. Culture and Development. 5: 243-277.
2. Cernea, M. M. 1991. Using Knowledge from Social Sciences in Development Projects. World Bank Discussion Paper No. 114. Washington DC: World Bank
3. Cernea, M. M. 1991. Putting People First: Sociological Variables in Development. New York: Oxford University Press.
4. Goldschmidt, W. 1980. Anthropology as a Policy Science. In. W. Goldschmidt. (Ed.). Public Policy: A Dialogue. American Anthropological Association. No. 21.
5. Mohan, H. M. 1989. Anthropology and Development in Traditional Societies. Delhi: Vikas Publishing House.

ANS : 405 – Multi Disciplinary course / Project work : Field Work, Dissertation and Viva-Voce

Unit I: Field Work: The Student has to undertake Field Work Programme for a Period of 15 days under the Supervision of Teachers in the Field on the Specified Research Topic chosen in consultation with the Research Supervisor concerned.

Unit II : Preparation of Dissertation: The Student has to prepare the Dissertation on the basis of the Data collected in the Field and the same be submitted to the Department for Evaluation at least 10 days before the commencement of the Fourth Semester Examinations.

Recommended Readings :

1. Bernard, H. R. 1988. Research Methods in Cultural Anthropology. London: Sage Publications.
2. Cohen, L. 1963. Statistical Methods of Social Scientists: An Introduction. New Delhi: Prentice - Hall of India (p) Ltd.
3. Danda, A. Research Methodology in Anthropology. Inter-India New Delhi
4. Kothari, C. R. 1997. Research Methods: Methods and Techniques. Delhi: Wishwa Prakashan.
5. Madge, J. 1952. Tools of Social Science. New York: Free Press of Glencoe
6. Royal Anthropological Institute. 1967. Notes and Queries on Anthropology. London: Routledge and began Paul
7. Thomas, D. H. 1976. Figuring Anthropology: First Principles of Probability and Statistics. New York: Holt, Rinehart and Winston.

8. Werner, O. and Schoepfle. G. M. 1987. Systematic Field Work (Vo1.1) Foundations of Ethnography and Interviewing. Newbury Park: C.A. Sage Publications.
9. Elective Papers or Optional Papers:

ANS : 406 – 6(a) Open Elective : – VISUAL ANTHROPOLOGY

Unit – I : Visual Anthropology : concept and scope; Visual Anthropology as a discipline history and Development ethnography and Film; Material expression of culture non-material structural expressions; Typology of Ethnographic film – Monographic Biographic, film complex structure Militant, Archie films of expression, film d ambiente, documentary (Exotic documentary) Scientific film.

Unit – II : Functional and strategies of Ethnographic film: scientific film and its function in ethnographic film as a preserver of vanishing cultures; Ethnographic film as a means of communication; Ethnographic film and socio-cultural anthropological research.

Unit – III : Problems of Method and Strategy; Description, Interpretation or Reproduction? Objectivity and subjectivity in Ethnographic film and the problem of reconstruction; scientific tradition and rules in making Ethnographic film; The concept of participant film as an Audi-visual counter-gift; Documentation of Human society and culture Ethical issues and Ethnographic reality; the nature of visual reality and constructed observational reality.

Unit – IV : Ethnographic of film in India; Social cultural Anthropology, Ethnology and Demology (study of popular traditions) some introductory considerations; Analysis of some Ethnographic films and still photos and critical appraisal; shooting s film script editing and commentary.

Recommended Readings :

1. To Edoavdo 1989 reflections on Ethnographic film visual Anthropology
2. Coller.J. Jr.1978 Visual Anthropology , Photography as a Research method
3. Debrigard E 1971. The Cinema and Racial sciences; A survey of stenographic and sociological films reports and papers in the social science (UNESCO) Paris UNESCO publication.
4. Gianfrengo B. 1978 the language and technique of the film
5. Hockings P (ed) 1963 principles of visual anthropology. The Hague Montana publications.
6. Indian national trust for Art and cultural heritage. 1987. A Portrayal of peoples in essays on visual Anthropology in India. ASA New Delhi; Inter – India publications.
7. Mead M.1963 Anthropology and the camera. Encyclopedia of photography (ed) W.D. Morgan.
8. Sahay, K.N. 1982 A brief history of ethnography films in India visual Anthropology Bulletin IV: (1) June.
9. Vaudev, A and Phillippe L. 1983 Indian Cinema super bazaar.

ANS : 406 – 6(b)- Open Elective : – ENVIRONMENTAL ANTHROPOLOGY

Unit I: Concept of Eco system, Historical background of the Idea of Eco system in Anthropology, Pioneers of the Eco system concept in Anthropology, Notable contribution on application of concept of Eco system in Anthropology, Ecological Anthropology: Meaning and Scope; Concepts: Ecology, Ecosystem, Homeostasis of the Ecosystem, community and

Population, Habitat and Ecological Niche, Ecosystem Development (or Ecological Succession), Environment, Adaptation, Culture Core.

Unit II: Theoretical Formulations: Environmental Determinism (Meggars); Environmental Possibilism (C. Wisler, A. L. Kroeber, D. Forde); Cultural Ecology (J. Steward); Techno-Economic and Techno-Environmental Determinism (M.Harris) Cognitive Ecology (H. Conklin, C. Frake and A. Beals); Single Unified Ecology (Vayda and Rappaport); Nature-Culture Dualism; Ethno-ecology.

Unit III: Ecological Issues: Forest and Tribes; Traditional Resources Management; NTFP; Sacred Grooves. Biodiversity for Sustainable Development; Community based Conservation (CBC): Issues and Prospects; Development Projects (Hydro-electric, Irrigation Projects and Industries) and Displacement.

Unit IV: Environmentalism: Meaning and Issues for Debate; Role of Anthropology; Ecological Protest Movements (Chipko and Narmada Bachao Andolan (NBA)); Environmental Policy and NGOs.

Recommended Readings :

1. Barth, F. 1956. Ecological Relationships of Ethnic Groups in Swat, Northern Pakistan. *American Anthropologist*, 58: 79.
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