

**Sidho-Kanho-Birsha University**  
**Department of Anthropology and Tribal Studies**  
**Curriculum for M.A. / M.Sc. in Anthropology**  
 UNDER CHOICE BASED CREDIT SYSTEM  
 (w.e.f session 2020-2021)

**Programme Objective**

This curriculum is framed in the light of Learning Outcomes-based Curriculum Framework (LOCF) For Postgraduate Programme in Anthropology formulated by UGC in 2019. LOCF strives to bring a paradigmatic shift from teacher-centric to learner-centric curriculum. The programme aims to inculcate students with:

1. Disciplinary knowledge that is appropriate for career-building in Anthropology
2. Critical thinking and inter-disciplinary aptitude
3. Communication skill
4. Analytical Reasoning
5. Research competence
6. Field work
7. Reflective thinking
8. Digital literacy

**At the end of the programme students will be able to:**

1. Demonstrate fundamental as well as advanced knowledge in Anthropology that is comparable to national and international standards
2. Explore different areas of knowledge that lies at the intersection of Anthropology and other allied disciplines
3. Design and implement research projects following scientific methodology
4. Execute research programmes maintaining ethical standards of highest order
5. Independently analyse the findings and publish the result

SEM	Course Code	Course Name	Credits	Full Marks
I	MANTCCT101	Introduction to Anthropology	4	40+10 = 50
	MANTCCT102	Fundamentals of Biological Anthropology	4	40+10 = 50
	MANTCCT103	Fundamentals of Archaeological Anthropology	4	40+10 = 50
	MANTCCT104	Fundamentals of Social and Cultural Anthropology	4	40+10 = 50
	MANTCCS105	Practical on Biological Anthropology	4	50
	MANTCCS106	Practical on Prehistory and Archaeological Anthropology	4	50
II	MANTCCT201	Society, Culture and Civilization	4	40+10 = 50
	MANTCCT202	Human Diversity	4	40+10 = 50
	MANTCCT203	Research Methodology and Basic Statistics	4	40+10 = 50
	MANTCCT204	Indian Anthropology	4	40+10 = 50

	MANTCCS205	Field work on Biological and Archaeological Anthropology	4	50
	MANTCCS206	Ethnographic Field work	4	50
III	MANTCCT301	Anthropology of Development	4	40+10 = 50
	MANTCCT302 A	Introduction to Tribal Studies	4	40+10 = 50
	MANTCCT302 B	Human Growth and Development,	4	40+10 = 50
	MANTCCT302C	Advance Theories in Social Cultural Anthropology	4	40+10 = 50
	MANTMET303A	Tribal Movements in India	4	40+10 = 50
	MANTMET303B	Physiological Anthropology	4	40+10 = 50
	MANTMET303C	Application of Social Cultural Anthropology in Contemporary Times	4	40+10 = 50
	MANTOET304	Open Elective**	4	50
	MANTMES305A	Research Competence	4	50
	MANTMES305B	Research Competence	4	50
	MANTMES305C	Research Competence	4	50
	MANTCCP306	Outreach Program	4	50
IV	MANTCCT401	Environment, Demography and Epidemiology	4	40+10 = 50
	MANTMET402A	Tribal Policies and Legislations	4	40+10 = 50
	MANTMET402B	Molecular Anthropology & Human Genetics	4	40+10 = 50
	MANTMET402C	Emerging Dimensions of Social Anthropology	4	40+10 = 50
	MANTACT403	Add on Course	4	40+10 = 50
	MANTMET404A	Tribal Development	4	40+10 = 50
	MANTMET404B	Anthropology of Food & Nutrition	4	40+10 = 50
	MANTMET404C	Anthropology Science & Technology	4	40+10 = 50
	MANTMES405A	Practical on Tribal Studies (Ethnography)	4	50
	MANTMES405B	Practical on Biological & Physiological Anthropology	4	50
	MANTMES405C	Practical on Social Cultural Anthropology	4	50
	MANTMEP406	Dissertation work	4	50

\*\* Students will choose and pursue Open Elective course from list of courses offered by different departments of SKBU other than the home department that is Dept. of Anthropology & T.S

## SEMESTER-I

MANTCCT101	INTRODUCTION TO ANTHROPOLOGY
UNIT-I	History and Development of the discipline; Aims; Objectives; Principles and Scope of Anthropology; Branches of Anthropology; Interrelationship with Natural and social sciences with Anthropology
UNIT-II	Uniqueness of Anthropology; Holism; Worldview; Bio-cultural interactions; Fieldwork tradition
UNIT-III	Diffusionism; Functionalism; Structural Functionalism; Structuralism; Personality School of thought; Symbolic Interactionism
UNIT-IV	Contribution of H.H Risley; J.H. Hutton; Verrier Elwin; C. Von Furer, Haimerdorf; A . C .Mayer; Max Gluckman; E R Leach; F Barth; C Geertz; M Harris
UNIT-V	Contribution of Indian Anthropologists: S C Roy; D N Majumdar; T C Das; N K Bose; P K Bhowmick; M N Srinivas; H D Sankalia; B S Guha; I.Karve; S S Sarkar; K. P. Chattopadhyay; L P Vidhyarthi
UNIT-VI	Applied Action and Development; Application of Anthropological studies and knowledge in contemporary world;

### SUGGESTED READINGS:

1. Majumder, D.N. and T.N.Madam 1956 An Introduction to Social Anthropology. Bombay; Asia Publishing House.
2. Bhowmick, P.K.1980 Some Aspects of Indian Anthropology, Calcutta Subarnarekha.
3. Beals and Hoijer 2007An Introduction to Anthropology, Surjeet publication
4. Vidhyarthi, L.P and Rai, B.K. 1984 The Tribal Cultural of India. New Delhi;
5. Concept Publications.
6. Srivastava, A.R.N. What is Anthropology K.K. publication
7. Jha , Makhan An Introduction to Indian Anthropology,
8. Vikas Publishing House PVT LTD
9. Jha Praful Ranjan & Deepshikha Vernval, Social Cultural Anthropology, Piush Publication

MANTCCT102	Fundamentals of Biological Anthropology
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UNIT -I	Branches and Methods in Biological Anthropology and its significances
UNIT-II	Definition, scope and importance of forensic anthropology, study of human skeletal material: different views, study of bone fragments, attribution of sex, estimation of age and reconstruction of stature from the skeletal remains, and their medico-legal implications

UNIT-III	Place of Human in Animal Kingdom; classification of the Order Primates  Physical features of Hominidae and Pongidae; Comparative study of the anatomical; behavioral; reproductive; physiological; morphological and biochemical characters of human
UNIT-IV	Definitions and characteristic features of Primate; Distribution and characters of living primates in the sub-continent of India. Evolution of primates with special reference to erect posture; bipedal locomotion; brain; skull; jaw; teeth; limbs and special senses.
UNIT-V	Anatomical, morphological and behavioural characteristics of Great Ape (Gorilla, Chimpanzee, Orang-Utan and Gibbon)
UNIT -VI	Human origin and evolution. Fossil evidences: Dryopithecus, Ramapithecus, Sivapithecus, Gigantopithecus, Australopithecus, Homo habilis, Homo erectus, Homo neanderthalensis and Homo sapiens (Grimaldi Cro-Magnon and Chancedelade ) debate
UNIT –VII	Hominization Process: Evolution of hominid-human Bipedalism; stereoscopic Vision; Bio-Cultural Interactions; Modern Trends
UNIT -	Principles and processes of evolution; Formation of new population and species; Lamarckism; Neo-Lamarckism; Darwinism; Neo-Darwinism; Synthetic theory, Molecular basis of human evolution.

### **Suggested Readings:**

1. Harrison, G.A., Weiner, J.S., Tanner, J.M. and Barnicot, N.A. Human Biology: An Introduction to Human Evolution, Variation and Growth, Clarendon Press, Oxford.
2. Hooton, E. A. Up from the Ape, The Macmillan Co., New York.
3. Lasker, G.B. and Tyzzer, R.N. Physical Anthropology, Holt Rinechart & Winston, New York.
4. Montagu, M.F.A. An Introduction to Physical Anthropology, Charles C Thomas, Springfield Illinois.
5. Montagu, M.F.A. The Concept of Race, The Free Press, New York.
6. Shukla, B.R.K. and Rastogi, S. Physical Anthropology and Human Genetics: An Introduction, Palka Prakashan, Delhi.
7. Principles of Genetics Peter Snustad and M. J. Simmons (2006). John Wiley and Sons, Honboken, NJ.
8. Genetics: A Conceptual Approach Benjamien Pierce (2003). W. H. Freeman & Company.
9. A Primer of Population Genetics Daniel Hartl (1999) Sinaver Associates, Inc.

10. Primate Behavioral Ecology (3rd edition). Karen B. Strier. (2006) Allyn and Bacon
11. Kinship and Behaviour in Primates. (2004) Bernard Chapais and Carol M. Berman. Oxford University Press
12. Primate Paradigms: Sex Roles and Social Bonds, (1992) Linda Marie Fedigan. University of Chicago Press
13. The Primate Anthology: Essays on Primate Behaviour, Ecology and conservation from National History. (1997) Russell L. Ciohon and Richard A. Nisbett. Prentice Hall.
14. Montague, Ashley,. Concept of Race.
15. Backer, P.T. & Weiner (eds.). Biology of Human Adaptability.
16. Barnouw, V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
17. Bodmer and Cavalli Sforza. Genetics, Evolution and Man.
18. Buettner-Janusch, J. Origins of Man, Wiley Eastern Pvt. Ltd. New Delhi.
19. Dobzhansky. Evolution, Genetics and Race. John Willey and Sons
20. Klepinger, Linda L. 2006. Fundamentals of Forensic Anthropology. Wiley-Liss.
21. Komar, D.A. and Jane Buikstra. 2007. Forensic Anthropology: Contemporary Theory and Practice. Oxford: Oxford University Press.
22. Krogman, W.M. 1962. *The Human Skeleton in Forensic Medicine*. Illinois: Charles C. Thomas.

<b>MANTCCT103</b>	<b>Fundamentals of Archaeological Anthropology</b>
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UNIT- I	Introduction; branches; Framework of Archaeology; Formation Processes; Basics of Archaeology; Prehistory; Proto-history; Dating Methods- Relative dating and Absolute dating ; Geographic Information System; Introduction to Social Archaeology; Environmental Archaeology; Cognitive Archaeology
UNIT-II	Introduction to Prehistory of Europe: Chronology and Terminology; Geological Time Scale. Dating of Artifacts: Absolutes and Relatives; Lower Paleolithic Culture of Europe; Middle Paleolithic Culture of Europe; Upper Paleolithic Culture of Europe; Paleolithic Art of Europe.
UNIT-III	Indian Prehistory; Introduction of Indian Prehistory: Chronology and Terminology. Lower Paleolithic Culture of India; Middle Paleolithic Culture of India; Upper Paleolithic Culture of India; Paleolithic Art of India; Mesolithic Culture of India; Neolithic Culture of India.
UNIT-IV	Indus Valley Civilization; Megalithic Cultures of India; Indian Prehistory in 21st Century: Problems and Challenges

UNIT -V

Relevance of Africa in prehistory; Pluvial-Inter pluvial in Africa, Major archeological sites

**SUGGESTED READINGS :**

1. Lee, R.B and I. Devore (Eds.) (1977). Man the Hunter. Chicago: Aldine Publishing Company.
2. Sankalia, H. D. (1977). Prehistory of India.: Munshiram Manoharlal Publishers Pvt. Ltd, Delhi.
3. Coles, J.M. and E.S. Higgs. (1969). The Archaeology of Early Man. Faber and Faber. London
4. Burkitt, M. (1963).The Old Stone Age: A study of Palaeolithic Times. London: Bowes and Bowes. Archaeology: Theories methods and Practices, London: Thames and Hudson. Renfrew, C. and P. Bahn.
5. Fagan B. M.People of the Earth: An Introduction to World Prehistory. New Jersey: Pearson Education. Frameworks for dating Fossil man.London: Weidenfeld and Nicolson.
6. Oakley,K P (1973).The Explanation of culture change: Models in prehistory. London. Duckworth
7. Sankalia, H.D.(1974).Prehistory and Protohistory of India and Pakistan. Pune: Deccan College.

MANTCCT104	Fundamentals of Social and Cultural Anthropology
UNIT- I	<b>Kinship:</b> Kin, Group, Lineage, Clan, Moiety, Phratry; Descent and filiations; Kinship nomenclature; Kinship as Cultural principle and social mechanism. The principle and structure of descent: unilineal; cognatic and bilateral principle
UNIT-II	<b>Marriage:</b> Definitions; nature and forms. Preferential and Prohibited Categories; Incest; Dowry; Bride Price; Divorce; Marriage regulations of Non-Tribal and Tribal
UNIT-III	<b>Family:</b> Definition and foundation of the family; Descent groups and domestic groups; Variation in family forms; Approaches to the study of family
UNIT-IV	<b>Economic Organisation:</b> Subsistence, surplus and prestige economy, Kula Ring and Potlatch; Hunting-gathering, pastoral, agricultural and industrial economic organization; Economic change and economic adaptation. Approaches to study Economic systems; Peasant Economic Systems; Formalism, and Substantivism- Debate

UNIT-V

**Political Anthropology:** Non-egalitarian- Centralized: Big Man-ship, chiefdom, rank-societies, state, nation-state; Justice, jurisprudence, law, and social control; customary and codified law; primitive law; Dispute resolution, conflict, coercion and consensus models for settlement of disputes; Informal means of social control – pressure, satire, gossip, religion and magic, role expectations; reward-punishment mechanism, etc.; Formal means - legal, judicial institutions; punitive, enforcing institutions; Democratization and Political Participation in India (i) Politicisation of Caste, Casteism in Indian Politics : Role of cliques, Factions, Parties and Alliances ; Politics of Identity

**Suggested Readings:**

1. Barnard, Alan. 2000. History and theory in anthropology. Cambridge, U.K.: Cambridge University Press.
2. Nadel, S. F. 1951. The foundations of social anthropology. Glencoe, III: Free Press.
3. Ingold, Tim. 1994. Companion encyclopaedia of anthropology. Routledge reference. London: Routledge.
4. Harris, C. C. 1990. Kinship. Concepts in social thought. Minneapolis:University of Minnesota Press.
5. Carsten, Janet. 2004. After kinship. New departures in anthropology. Cambridge, UK: Cambridge University Press
6. Levi-Strauss, Claude. 1969. The elementary structures of kinship. Boston:Beacon Press.
7. Goody, Jack, and Meyer Fortes. 1973. The Character of kinship. Cambridge [Eng.]: University Press.
8. Herskovits M.J : Man and His works
9. L.P. Vidyarthi & B. K. Rai : Tribal Culture in India
10. Ember and Ember : Social Cultural Anthropology
11. Upadhaya & Pandey : Samagita Sanskriti Manavshastra.
12. A.R.N Srivastava : Social Cultural Anthropology
13. E.E. Evans Pritchard : Social Anthropology

<b>MANTCCS105</b>	<b>Practical on Biological Anthropology</b>
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UNIT- I

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

Body weight, 17. Mid upper arm circumference, 18. Waist circumference, 19. Hip circumference, 20. Biceps skinfold thickness, 21. Triceps skinfold thickness, 22. Subscapular skinfold, 23. Medial calf skinfold thickness. 24. Supra iliac skin fold  
b. Indices: Cephalic, nasal, and height-weight indices.

UNIT- II	Craniometry – Human Skull and Mandible The student will take the craniometric measurements on at least three skulls
UNIT- III	Age estimation and Sex determination of Human skull and long bones
UNIT- IV	Somatoscopy: 1.Head form 2. Hair form 3. Facial form 4. Eye form 5. Nose form 6. Hair colour 7. Eye colour 8. Skin colour
UNIT – V	Osteometric measurements and indices of human long bones: Femur, Tibia, Fibula, Humerus, Radius, Ulna. Identification of long bones
UNIT – VI	Assessment of Paediatric Nutritional Status
UNIT – VII	Laboratory Note Book and Viva Voce

### **Suggested Reading:**

1. Tulika Sen: 1994, A Guide to Anthropometry
2. Das, B.M & Ranjan Deka 2006 “Physical Anthropology Practical” Publisher - Kitab Mahal, Allahabad, India.
3. Weiner and Lourie. Human Biology – A Guide to Field Methods.
4. Human biology: An introduction to human evolution, variation, growth & adaptability by Harrison, GA; Tanner, JM; Pilbeam, DR; Baker PT (1988). Oxford, England, Oxford University Press.
5. Bodmer and Cavalli Sforza. Genetics, Evolution and Man.
6. Deepak Mukherjee, Debaprasad Mukherjee, Premananda Bharati, Manual of Biological Anthropology, Asian Publisher
7. Bhasin and Bhasin: Sing :Laboratory manual in Biological Anthropology
8. Applied body Composition Assessment (2009) Heyward, VH; Wagner DR. Human Kinetic.
9. Timothy G Lohman, Alex F Roche, Reynaldo Martorell. 1988. Anthropometric Standardization Reference Manual. Champaign, IL, Human Kinetic Books .



Unit I:	Description, identification and drawing of hominid fossils <i>Australopithecus africanus</i> (Taung Skull), Java man, Peking man, Neanderthal man, Cro-Magnon man. (Cast/Photograph)
Unit II:	Drawing, description and identification of Prehistoric stone tools of different cultural periods. i. Lower Palaeolithic Culture ii. Middle Palaeolithic Culture iii. Upper Palaeolithic Culture iv. Mesolithic Culture v. Neolithic Culture vi. Art objects vii. Bone Tools and artefacts
Unit III:	Comparative technology Different type of plough; Spade; Hoe; Khanta; Bow and arrow; Battle axe, Spear; Fishing net; Bird net; House type. Housing patterns; Agricultural implements; Fishing, Hunting; Fire Appliances; Costumes and dress; Ornaments; Musical Instruments; Masks; Museum work; visit and report writing
UNIT IV:	Application of GIS
Unit V:	Evaluation of Laboratory notebooks.
Unit VI:	Viva-voce.

### **Suggested Reading**

1. An Outline of Indian Prehistory, D.K.Bhattacharya , Palkaparkashan , New Delhi
2. Prehistoric Archeology D.K.Bhattacharya , Palkaparkashan , New Delhi
3. The old Stone Age, M.C.Burkit
4. Prehistory and Proto-history of India and Pakistan, H.D. Sankalia
5. The stone age tools, H D Sankalia

## SEMESTER II

<b>MANTCCT201</b>	<b>Society, Culture and Civilization</b>
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UNIT- I	Culture:-Definitions and concepts; Patterns of culture; Nature of Culture; Aspects of culture; holistic; super organic and Mentalist view of culture
UNIT-II	Culture trait; culture complex; culture area and age area theory of culture; Material Culture
UNIT-III	Cultural relativism; Adaptive role of culture; Cultural change: evolutionary; through culture contact; diffusion; acculturation
UNIT-IV	Definitions of Society; elements of society; Types of human bonding; Primary group; In group; Out group; Patterned group; Non-patterned group; Local group; status and role; groups; association; community; institution and organization; Features and nature of Tribal society; Preliminary concepts on Civilization
UNIT -V	Gender Studies; Anthropology of Gender; Social Processes; Social Change; Planned Social Change

### **Suggested Readings:**

1. Cohen, Yehudi A. 1968. Man in adaptation; the cultural present. Chicago: Aldine Pub. Co.
2. Redfield, Robert. 1965. Peasant society and culture an anthropological approach to civilization. Chicago [u.a.]: Univ. of Chicago Press.
3. Wittfogel, Karl August. 1957. Oriental despotism; a comparative study of total power. New Haven: Yale University Press.
4. Symposium on Man the Hunter, Richard B. Lee, and Irven DeVore. 1969. Man the hunter. Chicago: Aldine Pub. Co.
5. Majumder, D.N. and T.N.Madam 1956 An Introduction to Social Anthropology. Bombay; Asia Publishing House.
6. Jha, Praful Ranjan & Deepshikha Vernal, Social Cultural Anthropology, Piush Publication

<b>MANTCCT202</b>	<b>Human Diversity</b>
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UNIT- I	Biological basis of life, Human genetics aim and scope; Human Chromosomes; Identification, and Techniques of studying; Cell mechanics and chromosomes; Chromosomal aberrations - Numerical and Structural.
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Mendelian Genetics in Man: autosomal and sex-linked inheritance; dominant and recessive inheritance; Sex chromatin, Polymorphism : G6PD, Haemoglobin Methods of Genetic study, Twin Study, Pedegree

UNIT-II	Human variation and adaptation. Nature and causes of human variation. Adaptive significance of human variation. Theory of migration: Out of Africa theory; Multiregional Hypothesis
UNIT-III	Concept and history of race and its limitations. Factors responsible for race; Criteria for Racial classifications; Racism; Racial classifications
UNIT-IV	Study of population diversity in contemporary time; Genetic history of populations – South East Asia and Indian subcontinent. Basic concept of Population genetics and application of Hardy-Weinberg Law
UNIT-V	Basic concept and definition of growth and development; Anthropometry
UNIT-VI	Basic concept of dermatoglyphics; ABO (Rh) system in human, Dermatoglyphics, Karyotyping

### **Suggested Readings:**

1. Dobzhansky. Evolution, Genetics and Race. John Willey and Sons
2. Harrison, G.A., Weiner, J.S., Tanner, J.M. and Barnicot, N.A. Human Biology: An Introduction to Human Evolution, Variation And Growth, Clarendon Press, Oxford.
3. Hooton, E. A. Up from the Ape, The Macmillan Co., New York.
4. Lasker, G.B. and Tyzzer, R.N. Physical Anthropology, Holt Rinechart & Winston, New York.
5. Montagu, M.F.A. An Introduction to Physical Anthropology, Charles C Thomas, Springfield Illinois.
6. Montagu, M.F.A. The Concept of Race, The Free Press, New York.
7. Shukla, B.R.K. and Rastogi, S. Physical Anthropology and Human Genetics: An Introduction, Palka Prakashan, Delhi.
8. Principles of Genetics Peter Snustad and M. J. Simmons (2006). John Wiley and Sons, Honboken, NJ.
9. Genetics : A Conceptual Approach Benjamin Pierce (2003). W. H. Freeman & Company.
10. A Primer of Population Genetics Daniel Hartl (1999) Sinauer Associates, Inc.
11. Montague, Ashley,. Concept of Race.
12. Backer, P.T. & Weiner (eds.). Biology of Human Adaptability.
13. Barnouw, V. 1979. Anthropology : A General Introduction, The Dorsey Press, Illinois.
14. Bodmer and Cavalli Sforza. Genetics, Evolution and Man.

15. Buettner-Janusch, J. *Origins of Man*, Wiley Eastern Pvt. Ltd. New Delhi.
16. Harrison, G.A. and Howard Morphy. 1998. *Human Adaptation*. Oxford: Berg Publisher.
17. Howard, Michael C. and Janet Dunaif-Hattis. 1992. *Anthropology: Understanding Human Adaptation*. New York: Harper Collins.
18. Kleinman, David S. 1980. *Human adaptation & population growth*. New Jersey: Osman & Co.
19. Marks, Jonathan. 1995. *Human Biodiversity: Genes, Race and History (Foundations of Human Behaviour)*. Aldine.
20. Mielke, J.H., L.N. Konigsherg, J. Relethford. 2004. *Human Biological Variation*. Oxford University Press.
21. Morgen, E.F. 2000. *Human Adaptability: An Introduction to Ecological Anthropology*. Westview Press.

<b>MANTCCT203</b>	<b>Research Methodology and Basic Statistics</b>
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UNIT- I	Field work tradition in Anthropology; Essence of Anthropological fieldwork
UNIT-II	Research design and Hypothesis formulation
UNIT-III	Different methods and techniques: Interview, Observation (Participant and Non-participant), Key Informant, Group Discussion, Comparative methods, Genealogy, Controlled comparison, Human relations Area file, Schedule, Questionnaire
UNIT-IV	Introduction to Biostatistics: definition, scope and importance of biostatistics, relationship between biostatistics and anthropology, sampling techniques, Concepts of Variables; collection and classification of data.
UNIT-V	Distribution; Binomial; Normal and Z-Score, Measures of Central Tendency; and Measures of Dispersions; Sampling: Probability; Non-Probability.
UNIT-VI	Inferential Statistics; Chi-Square; student's t-test, analysis of variance; Correlation; Regression.

#### **SUGGESTED READINGS:**

1. Ghosh, B.N: *Scientific Method and Social Research*, Sterling Publishers, New Delhi, 3rd Edition, 1985.
2. Young, V. Pauline: *Scientific Social Surveys and Research*, Prentice Hall of India, N. Delhi, 8th Indian Reprint, 1988.
3. Srivastava, V.K. 2004. *Methodology and Fieldwork*, OUP, New Delhi.
4. Danda, AK. 1992. *Research Methods in Anthropology* Inter India Publication, New Delhi.
5. Pelto, Pretti, J & Gretal H. Pelto : *Anthropological Research - the Structure of Inquiry*.

6. Gibaldi, Joseph. 2005. *MLA Handbook for Writers of Research Papers*, 6<sup>th</sup> Edition. Affiliated East West Press, New Delhi.
7. Gupta, S.P., (New Edition): *Statistical Methods*, Sultan Chand and Sons, New Delhi.
8. Ahuja, Ram, (New Edition) : *Research Methods*, Jaipur, New Edition.
9. Crawford; 2006 *Anthropological Genetics: Theory, Methods and Applications*: Cambridge University Press.
10. *Bioinformatics for Geneticists: A Bioinformatics Primer for the analysis of Genetic Data* (2007) Wiley.
11. Michael R.Barnes; 2008 *Statistical Genetics: Gene Mapping through Linkage and Association* Benjamin M. Neale Eds.
12. Manual AR. Ferreira, Sarah T. Medland, Danielle Posthuma; Taylor & Francis
13. Pagano M., Gauvreau, K, (2000), *Principles of Biostatistics*, Duxbury Press, USA.

<b>MANTCCT204</b>	<b>Indian Anthropology</b>
UNIT- I	Uniqueness of Indian Anthropology; Cultural, Linguistic and Religious plurality of India; Linguistic classification of Grierson; N K Bose's contribution on unity and diversity
UNIT- II	Approaches to the study of Indian civilization: Great Tradition and Little Tradition; Parochialisation and Universalisation; Nilkantha Syndrom; Sanskritisation and Westernisation; Globalisation; localization and Multi- Culturation
UNIT- III	Caste System; Concept and types of village; Jajmani system; Concept of <i>varna</i> ; and <i>jati</i> ; Origin of caste; Dominant caste; Dominant Community (Roy Burman); Homo Hierarchiness (Dumont); Nature-man-spirit complex; Tribe-caste continuum: tribe; caste and nation; peasant society and peasant culture; Diaspora in India; Cultural Diversity
UNIT-IV	Scheduled Castes: Definition; distribution; problem; untouchability Act 1995; Constitutional safeguards; some special Acts related to Scheduled Castes; Present Status of Scheduled Castes; Exploitation and atrocities on Dalits
UNIT-V	Tribes in India: Definition; Antiquity of Indian Tribes; Tribes in translation and transcription; tribes in ancient; medieval and Modern present time; General Characteristics; Special characteristics; nomenclature; geographical distribution; linguistic classification; physical feature

**Suggested Readings:**

- 1) Hardiman, David. 2008. *Missionaries and their medicine: a Christian modernity for tribal India*. Manchester: Manchester University Press.
- 2) Fu'rer-Haimendorf, Christoph von. 1985. *Tribal populations and cultures of the Indian subcontinent*. Handbuch der Orientalistik, 7. Bd.-Leiden: E.J. Brill.
- 3) Bhandari, J. S., and Subhadra Channa. 1997. *Tribes and government policies*. New Delhi: Cosmo Publications.
- 4) Channa, Subhadra. 1992. *Nagaland, a contemporary ethnography*. New Delhi, India: Cosmo Publication.
- 5) Xaxa, Virginius. 2008. *State, society, and tribes: issues in post-colonial India*. New Delhi: Dorling Kindersley (India), licencees of Pearson Education in South Asia.
- 6) Miri, Mrinal. 2003. *Identity and the moral life*. New Delhi: Oxford University Press.
- 7) Miri, Mrinal. 1993. *Continuity and change in tribal society*. Shimla: Indian Institute of Advanced
- 8) L. P. Vidyarthi and B. K. Rai : *Tribal Culture of India*.
- 9) Nadeem Hasnian : *Tribal India*
- 10) Cohn S. Bernard: 2000. *India: The Social Anthropology of Civilization*. Delhi: Oxford University Press.
- 11) Dirks Nicholas. 2001. *Castes of Mind: Colonialism and the Making of Modern India*. Princeton University Press.
- 12) Donald S. Lopez, (ed.). 1995. *Religions of India in Practice*. Princeton University Press
- 13) Gupta, Dipankar (ed): *Social Stratification*. Delhi: Oxford University Press.
- 14) Karve, Irawati 1961. *Hindu Society : An Interpretation* . Poona : Deccan College
- 15) V. S Sahay & P. K. Singh : *Indian Anthropology*
- 16) Nadim Husnian : *Indian Anthropology*
- 17) Irawati Karve : *Kinship oraganisation in India*

<b>MANTCCS205</b>	<b>Fieldwork on Biological and Archaeological Anthropology</b>
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- Students will visit any site of archaeological importance or Museum guided by faculty of the department. For site visit they will report on the geomorphology, stratigraphy, river terraces, and tool collection
- For Biological Anthropology, students will undertake field visit for assessment of health and nutritional condition of people through anthropometric measurement

- At the end of the visit they will prepare a detailed report. The report will be examined by an External Examiner and the concerned students will be required to appear for a Viva-voce test before the Examiner

<b>MANTCCS206</b>	<b>Ethnographic Field work</b>
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- Students to undertake field work on any tribe preferably in a rural setting under the supervision of Departmental faculty for at least 15 days and produce a report based on this intensive field work. Camp stay is compulsory.

### SEMESTER - III

<b>MANTCCT301</b>	<b>Anthropology of Development</b>
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UNIT- I	Development: Meaning and evolution of the concept; Anthropological concept of development; Growth versus Development; Classical and Modern Theories, Indices and measurements of development. Contribution of Anthropology to development studies.
UNIT- II	Theories of Development (Hobbes, Locke, Rousseau, Smith, Malthus, Marx, Weber, Hegel, Gramsci, Rawls, Sen); Approaches (Modernisation, Dependency, Core-periphery, Backwash and spear effect, Trickle-down theory etc.); Measurement (Unidirectional, Composite, Human Development index, Multiple dimensions of poverty, GINI, Gender-based inequality etc.)
UNIT- III	Gandhian and Tagorian approaches of development; Role of civil Society as change agents
UNIT-IV	Land reforms, Panchayati Raj, Environment and social Impact Assessment
UNIT-V	Development Policies (Forest policy, land policy and water management policy. Common Property Resources (CPR) Human rights – Anthropological perspectives. Gender discrimination. Anthropology of forced migration and Displacement and Diaspora.

<b>MANTMET302A</b>	<b>Tribal Studies: Introduction</b>
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<b>Unit-I:-</b>	Tribal Studies – Definition, Meaning, Nature & Scope
<b>Unit-II:-</b>	Tribal Studies: - History; Evolution; perspective
<b>Unit-III:-</b>	Tribal Discourse in Social Sciences
<b>Unit-IV:-</b>	Tribal Indigenous Entity, Social organisation(family, marriage and kinship ), World Indigenous Population

**Unit-V:-** Genesis and relevance of Tribal Studies in India, Tribal Studies in Contemporary Era.

### **Suggested Readings**

1. Andersen, C. 2009. Critical Indigenous Studies: From difference to density. *Cultural Studies Review*, 15(2), 80-100.
2. Beteille, A. 1986. 'The Concept of Tribe with Special Reference to India', *European Journal of Sociology*. 27: 297-318.
3. Deloria, V. Jr. 2004. Philosophy and the Tribal Peoples. In A. Waters (Ed.), *American Indian Thought: Philosophical essays* (pp. 3-11). Malden: Blackwell Publishing.
4. H.S. Sakaena et.al. eds. *Scheduled Tribe and Development*. New Delhi : Serial Publication.
5. Meena Radhakrishnan. Ed. 2016. *First Citizens : Studies on Adivisis, Tribals and Indigenous People in India*. New Delhi: Oxford University Press.
6. Singh K.S. 1985. *Tribal Society in India: An Anthropological Perspective*. New Delhi : Manohar Publication.
7. Smith, L. T. 1999. *Decolonizing Methodologies: Research and Indigenous People*. New York: Zed Books.
8. Srivastav, Vinay Kumar & Sukant K Chaudhary. 2009. *Anthropological studies of Indian Tribes*. In Yogesh Atal. *Sociology and Social Anthropology in India*. Delhi: Pearson.
9. Srivastav, Vinay Kumar ed. 2013. *Tribes of India. Concepts, Institution and Practices*. New Delhi, Serial Publication.
10. Berger, Peter and Frank Heidemann. 2013. *The Modern Anthropology of India*. Oxon: Routledge.
11. Denzin, Norman K, Yvonna S Lincoln and Linda Tuhiwai Smith. 2008. *Handbook of Critical and Indigenous Methodologies*. Sage Publication.
12. Ember, Carol R. and Melvin Ember. 1993. *Anthropology*. New Delhi: Prentice-Hall.
13. Evans-Pritchard, E.E. 1990. *Social Anthropology*. Delhi: Universal Book stall.
14. Fried M.H. 1975. *The Notion of Tribe*. California: Cummings Publications
15. Ghurye, G.S. 1963. *The Scheduled Tribes*. Bombay: Popular Prakashan.
16. Majumdar, D.N. and Madan. 1990. *An Introduction to social Anthropology*. New Delhi: National Publishing House.
17. Xaxa, V 2003. *Tribes in India*. In Veena Das ed. *Oxford Indian Companion to Sociology and Social Anthropology*. Vol. 1. pp 373-408. Oxford University Press.



- Unit-I:-** Definition and concepts of growth; differentiation; maturation and development. Evolution of Human Growth: Human Lifespan, development process; Human Life Cycle
- Unit-II:-** History of growth studies in Anthropology. Importance of growth studies.
- Unit-III:-** Evolution of human growth: human lifespan development process, human life cycle; major stages of human growth and development: prenatal growth, postnatal growth and their characteristics.
- Unit-IV:-** Factors affecting growth: genetic and environmental factors: secular trends, adaptation of growth rates to environmental stresses; methods of studying human growth; measurement and assessment of human growth: changing human growth patterns, human growth curves of different body parts and tissues, catch-up growth, maturation, growth references and standards; abnormal growth.
- Unit-V:-** Segmental growth and development; analysis of human physique and body composition: Sheldon, Parnell, Heath-Carter methods of somatotyping; significance of age in growth studies; methods of assessing age-chronological age, dental age, skeletal age, secondary sex character age, morphological age, age-grouping; decimal age calendar.
- Unit-VI:-** Introduction and Application of Kinanthropometry: Musculo-skeletal Anatomy in Kinanthropometry. Indices and Customization of kinanthropometry. Anthropometric Instruments: Tools and General Techniques.

### **Suggested Readings**

1. Bogin, Barry. 1999. Patterns of human growth. Cambridge University Press.
2. Harrison, G.A., Tanner, J.M., Pilbeam, D.R., Baker, P.T. 1988. Human biology: An Introduction to human evolution, variation, growth & adaptability. Oxford: Oxford University Press.
3. Heyward, V.H., Wagner, D.R. 2009. Applied body Composition Assessment. Human Kinetics.
4. Johnson, F.E., Roche, A.F., Susanne, C. 1980. Proceeding on Human Physical Growth and Maturation. Plenum Publishing Corporation.
5. Malina, Robert M; Bouchard, Claude, Bar-Or, Oded. 2004. Growth, maturation & physical activity. Human Kinetics.
6. Noel, Cameron. 2002. Human Growth and Development. St. Louis: Academic Press.
7. Carter JEL, Heath HB (1990). Somatotyping-development and application. Cambridge University Press. Department of Exercise and Nutritional Sciences; San Diego State University, CA. 92182-7251. U.S.A.

8. Eston, R., and Reilly (eds.) (2001). *Kinanthropometry and Exercise Physiology Laboratory Manual: Test, procedures and data* (2nd edition), Volume 2: Exercise physiology. Routledge, London & New York.
9. ISAK (2001). *International Standards for Anthropometric Assessment*. Underdale, S.A.; International Society for the Advancement of Kinanthropometry.
10. McArdle, W.D., Katch, F.I., and Katch, V.L. (2010). *Exercise Physiology: Energy, nutrition, and human performance* (7th edition). Lippincot Williams & Wilkins. Baltimore, MD, USA.
11. Norton, K. & Olds, T. (1996). *Anthropometrica*. Sydney: University of New South Wales Press, Australia.
12. Rempel, R. (1994). *A modified somatotype assessment methodology*. M.Sc. Thesis, Simon Fraser University, Burnaby, Canada.
13. Sodhi, H.S. (1991). *Sports Anthropometry (A Kinanthropometric Approach)*. Mohali: ANOVA Publications. 8. *The Heath-Carter Anthropometric Somatotype - Instruction Manual*. 9. J.E.L. Carter, Ph.D., San Diego, CA. 92182-7251. U.S.A.

<b>MANTMET302C</b>	<b>Advance Theory in Social Cultural Anthropology</b>
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- Unit-I:-** Colonialism and its impact on anthropological theory : concept of primitive, evolution, function and diffusion, culture contact and development;
- Unit-II:-** New Ethnography and Semantic analysis Interpretive and hermeneutical approach (Clifford Geertz); Symbolic Anthropology : Victor Turner, Clifford Geertz;
- Unit-III:-** Culture and Personality School: Margaret Mead; Ruth Benedict; Abram Kardiner; Alice Cora-Du-Bois; Ralph Linton;
- Unit-IV:-** Phenomenology; Post-structuralism and post-modernism: Theories and trends (M. Foucault, P. Bourdieu); Marxism
- Unit-V:-** Contemporary Social Anthropology: its foci and concerns;

### **Suggested Reading**

1. Ahmed, Akbar S., and Cris Shore. 1995. *The future of anthropology: its relevance to the contemporary world*. London: Athlone
2. Bourdieu, Pierre. 1977. *Outline of a theory of practice*. Cambridge studies in social anthropology, 16. Cambridge [England]: Cambridge University Press.
3. Collins, Samuel Gerald, and Matthew Slover Durlington. 2015. *Networked Anthropology: A primer for ethnographers*. Oxon: Routledge
4. Ina, Jonathan Xavier, and Renato Rosaldo. 2002. *The anthropology of globalization: a reader*. Blackwell readers in anthropology. Blackwell Publishers

5. Lévi-Strauss, Claude. 1963. Structural anthropology. New York: Basic Books.
6. Leach, Edmund, Stephen Hugh-Jones, and James Laidlaw. 2000. The essential Edmund Leach. Vol. 1, Anthropology and society. New Haven [Conn.]: Yale University Press

<b>MANTMET303A</b>	<b>Tribal Movements in India</b>
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<b>Unit-I:-</b>	Tribal Identity; Ethnicity; Individuals in their society; Solidarity; Continuum study; impact of colonialism and modern politics; Tribe and forest.
<b>Unit-II:-</b>	Tribal Movements: Bhumij Revolt; Santhal revolt; Birsa Movement; Tana Bhagat movement; Paharia or Maler revolt; Ho Revolt; Great Kol Revolt; Sardari larai;
<b>Unit-III:-</b>	Bodo Land Movement; Gorkhaland Movement; Jharkhand Movement
<b>Unit-IV:-</b>	Ethnic movement: Mina Gujjar conflict; Movements of North East India;
<b>Unit-V:-</b>	Detriablisation; Retribalisation; revitalization; Newly trends; Evaluation and consequences of the movements;
<b>UNIT-VI:-</b>	Environmental movements

### Suggested Readings

1. Singh K S: 1982, Tribal movements in India Publisher Manohar Book Service,
2. Sinha S P 1991 Santhal Hul (Insurrection of Santals) , The Bihar Tribal Welfare Research Institute, Ranchi
3. Burman, B K. Roy.1971 National Movements among Tribes, Secular Democracy,1971, 4(3-4)
4. Doshi, S.L. 1978 Process of Tribal Unification and Integration, Concept, New Delhi.
5. Kothari, K L, 1985 Tribal Social Change in India, Himangsu Publications, Udaipur
6. Kaviraj. N, 2001 Santal Village Community And The Santal Rebellion of 1855, Subanarekha, Kolkata
7. Sing, K S 1983 Birsa Munda and his Movement (1874-1901), O U P, New Delhi
8. Sharma K L 1976 Jharkhand Movement in Bihar, Economic and Political Weekly, Jan.10,1976,11(1-2),PP.37-43

<b>MANTMET303B</b>	<b>Physiological Anthropology</b>
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- Unit-I:-** Fundamentals of physiological anthropology: Cardio-vascular and respiratory endurance, haemodynamics and exercise (blood pressure, pulse rate, heart rate and oxygen- transporting system, blood flow, Hb, heamatocrit, etc)
- Unit-II:-** Physical working capacity and physical fitness methodology: evaluation of response and adaptation of the body to stress of exercise; variations in respiratory functions with age, sex and environment; interrelationship of body measurements with respiratory functions; health and fitness.
- Unit-III:-** Impact of smoking, alcohol, air pollution and occupation on cardio-respiratory functions; physical performance and environmental stress: heat stress, cold stress and high altitude, chronic diseases, malnutrition; ageing and health related aspects of exercise.
- Unit-IV:-** Regulation of body weight: energy expenditure and physical activity; body composition: methods of assessment, environmental and genetic contribution to obesity, treatment and prevention and management; obesity and ethnicity; global relevance and secular trends in obesity: regulation of body weight energy expenditure and physical activity.
- Unit-V:-** Ergonomics: Introduction, factor, design, Posture and movement, physical dimension, Design Ergonomics in India: scope for exploration.

### **Suggested Readings**

1. Case, RM, Ed. 1985. Variations in Human Physiology. Manchester University Press.
2. Davson, Hugh, Eggleton, M. Grace, Lea &Febiger (eds). 1968. Principles of Human Physiology.
3. Hale, Tudor. 2003. Exercise Physiology. John Wiley & Sons Inc.
4. Nageswari, K., Sharma, Rajeev. 2006. Practical workbook of Human Physiology. Jaypee Brothers.
5. Sherwood, Lauralee. 2008. Human Physiology: From Cells to Systems. Brooks Cole.
6. Vander, Arthur J., Sherman, James H., Luciano, Dorothys. 1978. Human Physiology: The Mechanisms of Body Functions. McGraw-Hill Education.
7. Bridger, RS: Introduction to Ergonomics, 2nd Edition, Taylor &Francis, 2003.
8. Dul, J. and Weerdmeester,B. Ergonomics for beginners, a quick reference guide, Taylor & Francis, 1993.
9. Green, W.S. and Jordan,P .W, Human Factors in Product Design, Taylor & Francis, 1999.
10. D. Chakrabarti, Indian Anthropometric Dimensions for ergonomic design practice, National Institute of Design,Ahmedabad, 1997

11. G.Salvendy (edit), Handbook of Human Factors and ergonomics, John Wiley & Sons, Inc., 1998  
6. Singh,S (Edt),Ergonomics Interventions for Health and Productivity, Himanshu Publications, Udaipur, New Delhi, 2007

<b>MANTMET303C</b>	<b>Application of Social Cultural Anthropology in Contemporary World</b>
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- Unit-I:-** **Migration, Displacement & Diaspora:** Basic concepts and key terms like Push-Pull factors, Emigration, Immigration and Integration; Human experiences in Indian subcontinent: Undocumented migration, Border and State, Push-back and repatriation; Political Economy of Migration, Development induced displacement/forced displacement, Human rights & Security; UNHRC definition of refugee; Diaspora and Culture
- Unit-II:-** **Anthropology of Gender:** Anthropological approaches to gender studies; Agents of socialization; Gender and religion; Cross-cultural perspective on gender difference; Masculinity, Femininity and third/ fourth genders in worldwide perspective; LGBT movement; Reproductive Health Rights; Gender discrimination, gender and violence, gender and development
- Unit-III:-** **Anthropology of Children:** Changing Context of Childhood in South Asia; Situation of Children in India; Vulnerability (Foeticide, Child labour, early marriage and teenage pregnancy, etc.); Children Under difficult situation (Street children, Refugee, Slum, Brothels, Climatic hazards, War etc.) ; Child Rights and National Policy for Children
- Unit-IV:-** **Anthropology and Ageing:** Demographic Changes in a Cross-cultural Perspective; Social, Psychological and Economic ramifications of Aging on the Individual and the Society. Issues in Elder Care; Abuse and violence; Aged and Public Policy
- Unit-V:-** **Development Communication:** Relationship between Communication and development, Communication and Urbanization, Modernization process; Effects of Mass Media on Youth, Children, Women and Disadvantaged Groups; The role of Communication in Education, Agriculture, Health and Family Welfare and National Development; Communication and the Dynamics of Social and Cultural change
- Unit-VI** **Policy Planning issues:** education, health, gender, ethnicity-identity, marginal people, rehabilitation, environment, human rights, world peace. Autonomous nature of Anthropology: Integration of scientific and humanistic approaches. Anthropologist as scientist, citizen and humanist

#### Suggested Readings

1. James, Allison and Adrian L. James 2004 Constructing Childhood: Theory, Policy and Social Practice. New York: Palgrave Macmillan. Pp. 10-47
2. Lareau, Annette 2003 Unequal Childhoods: Class, Race, and Family Life. Berkeley: University of California Press. Pp. 1-13, 182-197, 233-257.

3. Thorne, Barrie 1993 *Gender Play: Girls and Boys in School*. New Brunswick, NJ: Rutgers University Press. Pp. 89-109.
4. Field, Norma 1995 *The Child as Laborer and Consumer: The Disappearance of Childhood in Contemporary Japan*. In *Children and the Politics of Culture*. Sharon Stephens, ed. Princeton, NJ: Princeton University Press. Pp. 51-78
5. Archard, David 2004 *Children: Rights and Childhood*. New York: Routledge. Pp. 53-84
6. Korbin, Jill E. 2003 *Children, Childhoods, and Violence*. *Annual Review of Anthropology* 32:431-46.
7. Mead, M., Sieben, A., & Straub, J. (1973). *Coming of age in Samoa*. New York: Penguin.
8. Mascia-Lees, F. E., & Black, N. J. (2016). *Gender and anthropology*. Waveland Press.
9. Cornwall, A., & Lindisfarne, N. (1994). *Dislocating masculinity: gender, power and anthropology*. *Dislocating masculinity: Comparative ethnographies*, 11-47.
10. Di Leonardo, M. (Ed.). (1991). *Gender at the crossroads of knowledge: feminist anthropology in the postmodern era*. Univ of California Press.
11. Thoreson, R. R. (2014). *Transnational LGBT activism: Working for sexual rights worldwide*. U of Minnesota Press.
12. Rowles, G. D., & Bernard, M. A. (Eds.). (2013). *Environmental gerontology: Making meaningful places in old age*. Springer Publishing Company.
13. Lamb, S. (2015). *Ageing and anthropology*. *Routledge Handbook of Cultural Gerontology*.
14. Wilmoth, J., & Ferraro, K. (2013). *Gerontology: perspectives and issues*. Springer Publishing Company.
15. Climo, J. J. (1992). *The role of anthropology in gerontology: Theory*. *Journal of Aging Studies*, 6(1), 41-55.
16. Hinshaw, R. E. (1980). *Anthropology, administration, and public policy*. *Annual Review of Anthropology*, 9(1), 497-522.
17. Geilhufe, N. L. (1979). *Anthropology and policy analysis*. *Current Anthropology*, 20(3), 577-579.
18. Leach, E. (1976). *Culture and Communication: the logic by which symbols are connected. An introduction to the use of structuralist analysis in social anthropology*. Cambridge University Press.
19. Colson, E. (2003). *Forced migration and the anthropological response*. *Journal of refugee studies*, 16(1), 1-18.

20. Brettell, C. B. (2013). Anthropology of migration. The encyclopedia of global human migration.
21. Brettell, C. (2000). Theorizing migration in anthropology. Migration theory. Talking across disciplines, 97-137.

<b>MANTMET305A</b>	<b>Research Competence</b>
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<b>Unit-I:-</b>	Ethnographic readings on different tribes of India
<b>Unit-II:-</b>	Research ethics
<b>Unit-III:-</b>	Writing research proposal
<b>Unit-IV:-</b>	Graphical representation of Data; Histogram; pie-chart; Bar chart
<b>Unit-V:-</b>	Use of Statistical Software (SPSS); Word; Excel; Power Point Presentation
<b>Unit-VI:-</b>	Presentation

<b>MANTMET305B</b>	<b>Research Competence</b>
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Unit-I:-	Types of Research, Method & Techniques of literature review
Unit-II:-	Research ethics in Biological Anthropology;
Unit-III:-	Analyses of Primary & Secondary data and formulation of research Proposal.
Unit-IV:-	Estimation of sample size.
Unit – V:-	Use of Statistical Software (SPSS), WHO Anthro, Anthro Plus
Unit-VI:-	Presentation of Research Proposal and Discussion
Unit-VII:-	Note book

**Suggested readings:**

1. Lorena Madrigal. Statistics for Anthropology. Cambridge: Cambridge University Press, 1998
2. Sabine Landau and Brian S. Everitt. A Handbook of Statistical Analyses using SPSS, Chapman & Hall/CRC

3. Mishra SB, Alok S. Handbook of Research Methodology, Educreation Publishing
4. Kothari CR. Research Methodology: Methods and Techniques, New Age Private Limited ( Publishing)
5. Ghosh BN: Scientific Method and Social Research, Sterling Publishers, New Delhi, 3rd Edition, 1985.
6. Pauline VY: Scientific Social Surveys and Research, Prentice Hall of India, N. Delhi, 8th Indian Reprint, 1988.
7. Srivastava VK. 2004. Methodology and Fieldwork, OUP, New Delhi.
8. Danda, AK. 1992. Research Methods in Anthropology Inter India Publication, New Delhi.
9. Pelto, PJ & Pelto GH. Anthropological Research - the Structure of Inquiry.
10. Gibaldi, Joseph (2005): MLA Handbook for Writers of Research Papers, 6<sup>th</sup> Edition. Affiliated East West Press, New Delhi.
11. Gupta, S.P., (New Edition): Statistical Methods, Sultan Chand and Sons, New Delhi.
12. Ahuja, Ram, (New Edition) : Research Methods, Jaipur, New Edition.
13. Crawford; 2006 Anthropological Genetics: Theory, Methods and Applications: Cambridge University Press.
14. Bioinformatics for Geneticists: A Bioinformatics Primer for the analysis of Genetic Data (2007) Wiley.
15. National Ethical Guidelines for Biomedical and Health Research Involving Human Participants. 2017. Indian Council of Medical Research, New Delhi.
16. Timothy G Lohman, Alex F Roche, Reynaldo Martorell. 1988. Anthropometric Standardization Reference Manual. Champaign, IL, Human Kinetic Books. Loh

<b>MANTMET305C</b>	<b>Research competence</b>
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<b>Unit-I:-</b>	Types of research, Techniques for literature review and systematic research, possible data sources; analysis
<b>Unit-II:-</b>	Research ethics
<b>Unit-III:-</b>	Writing research proposal
<b>Unit-IV:-</b>	Presentation
<b>UNIT-IV:-</b>	Graphical representation of Data; Histogram; pie-chart; Bar chart



**UNIT-V:-**

Use of Statistical and Qualitative Methodology Software (SPSS AtlasTi and NVIVO); Word; Excel; Power Point presentation.

**SEMESTER-IV**

<b>MANTCCT401</b>	<b>Environment, Demography and Epidemiology</b>
Unit – I	Ecosystem & Energy Flow; The structure of energy flow in ecosystem; Control factor; Internal controls and Homeostatic processes; Potential Stress: Hot cold; Altitudes; Infectious diseases and Nutrition
Unit – II	Basic concepts of Demography: Mortality, Morbidity, Fertility, Fecundity, Carrying Capacity, Crude Birth Rate, Crude Death Rate, Disability Adjusted Life Years; Theories of Demography; Factors for demographic change; Theories of Population Studies
Unit –III	Different Cultural and Ecological Concepts; Environmental Determinism; Eco-feminism; Environmental Possibilism; Cultural Ecological Approach; Ecosystem approach. Contributions of Roy A Rappaport and A P Vyada; Contemporary environmental issues and debates
Unit – IV	Population variation and its relation to health and disease; Diseases associated with specific socio-cultural and environmental contexts; Kuru; Cultural impact of Psycho-Somatic disorders
Unit V	Epidemiology: Meaning, scope and methods <ul style="list-style-type: none"> <li>➤ Epidemiology of common communicable diseases: Malaria, Tuberculosis, Leprosy.</li> <li>➤ Epidemiology of common non-communicable diseases: Diabetes, CVD, Cancer, Sexually Transmitted Diseases (STDs), HIV/AIDS</li> <li>➤ Cultural Epidemiology</li> </ul>
Unit – VI	Role of Anthropology in Epidemiology and Public Health <ul style="list-style-type: none"> <li>➤ Anthropological approaches to the study of health and disease</li> <li>➤ The biological and cultural factors affecting health and disease (Social determinants of health)</li> <li>➤ Health promotion and health care delivery programmes with special reference to Reproductive, Adolescent and Mental Health</li> <li>➤ Ethics in Public Health</li> </ul>

**Suggested Readings:**

1. Emilio F. Morgen. Westview 2000 Human Adaptability: An Introduction to Ecological Anthropology

2. Kleinman, David S. (1980) Human adaptation & population growth by New Jersey: Osman & Co.
3. John Relethford. (2007) The Human Species: An Introduction to Biological Anthropology. MC Graw Hill
4. Howard Michael C. and Janet Dunaif-Hattis. Anthropology: Understanding Human Adaptation. (1992) Harper Collins Publishers, New York.
5. G.A. Harrison and Howard Morphy 1998 Human adaptation Berg Publisher, Oxford. Press.
6. Theodorson, G.A. Row 1961 Studies in Human Ecology. Peterson & Company Elmsford, New York
7. Paul R. Ehrlich, Anne H. Ehrlich and John P. Holdress. 1973 Human ecology: Problems and Solutions. W.H. Freeman & Company, San Francisco.

<b>MANTMET402A</b>	<b>Tribal Policies, Legislations &amp; Administration of Tribal Areas</b>
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Unit-I	Historical Perspective of Tribal Policies
Unit-II	Constitutional Provisions and Acts for Tribal; PESA; FRA; Fifth Schedule and Sixth Schedule
Unit-III	Tribal Territories and Common Property Resources
Unit-IV	The National Committee /Commission Reports on tribal issues: Dhebar Commission; Bhuria Commission; Mandal commission Report; Xaxa Committee Report,
Unit-V	Role of Ministry of Tribal Affairs in tribal development

**Suggested Readings:**

1. Xaxa, Virginius. 2008. State, society, and tribes: issues in post-colonial India. New Delhi: Dorling Kindersley (India), licencees of Pearson Education in South Asia.
2. Hardiman, David. 2008. Missionaries and their medicine: a Christian modernity for tribal India. Manchester: Manchester University Press.
3. Fu'rer-Haimendorf, Christoph von. 1985. Tribal populations and cultures of the Indian subcontinent. Handbuch der Orientalistik, 7. Bd.-Leiden: E.J. Brill.
4. Bhandari, J. S., and Subhadra Channa. 1997. Tribes and government policies. New Delhi: Cosmo Publications.
5. Channa, Subhadra. 1992. Nagaland, a contemporary ethnography. New Delhi, India: Cosmo Publication.

6. Xaxa, Virginius. 2008. State, society, and tribes: issues in post-colonial India. New Delhi: Dorling Kindersley (India), licences of Pearson Education in South Asia.
7. Miri, Mrinal. 2003. Identity and the moral life. New Delhi: Oxford University Press.
8. Miri, Mrinal. 1993. Continuity and change in tribal society. Shimla: Indian Institute of Advanced
9. Reports of Ministry of Tribal Affairs and different commission & Committees.
10. Nadim Tribal India

<b>MANTMET402B</b>	<b>Molecular Anthropology and Human Genetics</b>
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<b>Unit-I:-</b>	Nature and scope of Molecular Anthropology, chemistry and topology of DNA, unique sequences, repetitive DNA, satellite DNA, C-value, genetic code and regulation, mutations damage, DNA repair mechanism.
<b>Unit-II:-</b>	Concepts of RFLPs, VNTRs, STRs, SNPs, CNVs, mtDNA; cancer genetics and its management (breast cancer and colon cancer), molecular marker technology.
<b>Unit-III:-</b>	Nature and structure of the human genome and its diversity, genomic complexity as illustrated by the genetic basis for immune response, molecular evolution, human genetic diversity and the genetic basis of human evolution, molecular genetic basis of common complex diseases, cancer, diabetes and cardiovascular diseases, gene environment interaction, molecular genetics of complex disorder like CVD, diabetes, cancer, and the role of Anthropology.
<b>Unit-IV:-</b>	Molecular phylogenetics: history of molecular phylogenetics, applications to anthropology, phylogeny: phylogeography: Population structure and gene flow, forensic applications: identity and non-identity, paternity, gender determination, speciation and hybridization: Mitochondrial Eve versus Multiregional Hypothesis, macro-evolution and speciation, mtDNA, Y chromosome and peopling, migrations of modern humans, ancient DNA and Molecular Archaeology, various methods of mutation detection, contribution in linkage and association, human genome diversity initiation in global perspective with special reference to India.
<b>Unit-V:-</b>	Haemoglobin polymorphism, thalassemia and abnormalities of polypeptide chains, genetic isolates: formation and disintegration, mutation rate, dynamics of genetic drift, mutation, selection and gene flow/ migration, consanguinity and inbreeding (definitions and concept), genetic consequences of inbreeding in human population, inbreeding coefficient and genetic load, magnitude of consanguineous marriages in India and the world.
<b>Unit VI:-</b>	Calculation of Allele Frequency, Gene mapping, Inbreeding coefficient, Heritability estimate, Bio-informatics

**Unit VII:-**

Medical Genetics: Introduction of Medical Genetics, aim and scope of medical genetics,

**Suggested Readings**

1. Alberts, et al. 2002. *Molecular Biology of the Cell*, 4th edition. Garland.
2. Chakraborty, R. 1986. Gene Admixture in Human Populations: Models and Predictions. *Yearbook of Physical Anthropology*, 29: 1-43.
3. Griffiths, A.J.F., Gelbart, W.H., Lewontin, R.C. and Miller, J.H. 1999. *Modern Genetic Analysis*. New York: W.H. Freeman.
4. Jobling, M.A., Hurles, M. and Tyler-Smith, C. 2004. *Human Evolutionary Genetics, Origins, Peoples and Disease*. New York: Garland Science.
5. Kresina, T.F. (Ed.) 2001. *An Introduction to Molecular Medicine and Gene Therapy*. New York: Wiley-Riss.
6. Lewin, Benjamin. 2007. *Gene IX*, 9th Edition. Jones and Barlett Publishers.
7. Li, W.H. 1997. *Molecular Evolution*. Sinauer Associates Inc.
8. Malcolm, S. and Goodship, J. (Eds). 2001. *Genotype to Phenotype*. BIOS Scientific Publications Ltd., Oxford.
9. Nei, M. 1987. *Molecular Evolutionary Genetics*. Columbia University Press, New York.
10. Nesse, R.M. and Williams, G.C. 1994. *Why We Get Sick: The New Science Of Darwinian Medicine*. New York: Wintage.
11. Ott, J. 1999. *Analysis of Human Genetic Linkage*. Baltimore: Johns Hopkins University Press.
12. Page, D.M. and Holmes, E.C. 1998. *Molecular Evolution: A Phylogenetic Approach*. Oxford: Blackwell.
13. Palsson, G. 2007. *Anthropology and the New Genetics*. Cambridge: Cambridge University Press.
14. Reece, R.J. 2004. *Analysis of Genes and Genomes*. John Wiley and Sons Ltd.
15. Reed, A. and Donnai, D. 2007. *New Clinical Genetic*. Oxfordshire: Scion Publishing Ltd.
16. Rob, E. and Roger, M. (Eds). 1996. *Molecular Diagnosis of Genetic Diseases*. Humana Press.
17. Strachan, T. and Read, A.P. 2003. *Human Molecular Genetics*. Garland Publishing Inc, New York.
18. Templeton, A.R. 2006. *Population Genetics and Microevolutionary Theory*. New York: Wiley Riss.

19. Watson, J.D., N.H. Hopkins, J.W Roberts, J.A. Seitz & A.M. Weiner. 2007. Molecular Biology of the Gene, 6th Edition. Benjamin Cummings Publishing Company Inc.
20. Xuhua, X. 2002. Data Analysis in Molecular Biology and Evolution. New York: KluwerAcademic Publishers.

MANTMET402C	Emerging Dimensions of Social Anthropology
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- Unit-I:-** **Anthropological approaches to the study of complex** societies, 'British anthropologists' model and American anthropological approaches; Social institutions, family, kinship and political institutions, social network in complex societies. Anthropological approaches to the civilizational studies, levels of socio- cultural integration; study of civilizations; study of cultural wholes and civilizational wholes Anthropological study of Entrepreneurship, World Economic systems, Globalization and Corporate Anthropology;
- Unit-II:-** **Urban Anthropology:** Rise of city and civilization in India; Processes of Urbanisation, urbanism, urban structures and urban ecology; Basic features of Urban Social Structure; Ethnic, Cultural, Linguistic affiliation of an Indian city; Continuity and change in Indian Urban Society; Secular values and Urban setting; Secularism; Multi-ethnicity  
iii. Cultural integration
- Unit-III:-** **Anthropology of Religion and sacred symbols:** E.E. Evans Pritchard, Sherry Ortner, Clifford Geertz, Mary Douglas, Victor Turner; Rituals: Functions: Durkheim and Radcliffe Brown, Max Gluckmann, Roy Rappaport. Ritual Symbolism and Meaning, Van Gennep, Edmund Leach, Marshall Sahlins, and Clifford Geertz  
**Cognitive Anthropology** : Meaning and Scope; Ethnographic study of Cognitive systems
- Unit-IV:-** **Medical Anthropology:** Historical development and subject matter; Development of theory in medical anthropology; Traditional systems: classical systems, alternative systems, medical pluralism; Medical anthropology and mental health; Issues and trends in international health: AIDS, Diarrhoea, ARI, Reproductive health and Vector borne Diseases; Health care in India: National Health Policy; health care programmes
- Unit-V:-** **.Communication Anthropology:** Meaning and scope of Communication Anthropology; Different types of communication process: Vertical and Horizontal, Interpersonal and Intrapersonal, Mass Communication, Participatory Communication; Culture and Communication: Relationships and Nature of transmission, Norms, Values and Language; Development Communication: Concept, Models and Approaches, International and national Perspectives
- Unit-VI:-** **Visual Anthropology:** Concept, Scope and History & Development of Visual Anthropology with special reference to India, Different forms of Visual communication, Different tools of Visual communication, Application of Visual communication tools in Anthropology

## Suggested Readings

1. Emilio F. Morgan. Westview 2000 Human Adaptability: An Introduction to Ecological Anthropology
2. leinman, David S. (1980) Human adaptation & population growth by New Jersey: Osman & Co.
3. John Relethford. (2007) The Human Species: An Introduction to Biological Anthropology. MC Graw Hill. Page 28 of 33
4. Howard Michael C. and Janet Dunaif-Hattis. Anthropology: Understanding Human Adaptation. (1992) Harper Collins Publishers, New York.
5. G.A. Harrison and Howard Morphy 1998 Human adaptation Berg Publisher, Oxford Press.
6. Theodorson, G.A. Row 1961 Studies in Human Ecology. Peterson & Company Elmsford, New York.
7. Paul R. Ehrlich, Anne H. Ehrlich and Joh
8. Goldschmidt, N., & Remmele, B. (2005). Anthropology as the basic science of economic theory: towards a cultural theory of economics. *Journal of Economic Methodology*, 12(3), 455-469.
9. Education 1. Douglas, Mary. 2012. How institutions think? Syracuse University Press.
10. Michael Lambeck(ed), 2002. A Reader in the Anthropology of Religion. Malden, Blackwell.
11. Vincent, Joan (ed.) . 2002. The anthropology of Politics: A reader in ethnography, theory and critique. Blackwell publisher.

<b>MANTMET404C</b>	<b>Anthropology of Science &amp; Technology</b>
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<b>Unit-I:-</b>	Ethnographic approaches to Science & Technology; Ethos of Science
<b>Unit-II:-</b>	Critical thoughts and theories: Inductivism; Positivism; Mertonian concept, Karl Popper, Thomas Kuhn, Paul Feyerabend, L. Winner, D. McKenzie, J.Wajckman, B.Latour
<b>Unit-III:-</b>	Culture of Science: Inequalities and incentives; Gender and Technology; Power, dominance and Marginalisation in Science; Social influences on Technology; Man-Machine interaction with special reference to Artificial Intelligence, Digitalisation, Architecture and City planning
<b>Unit-IV:-</b>	Cognitive and Behavioural Anthropology to understand Man-Machine interaction
<b>Unit-V:-</b>	Humanising science and technology: Humanistic medicine, Ethical issues in Medical Technologies with reference to Genetic Engineering, Assisted Reproduction, and Euthanasia

## Suggested Readings

1. B. Barnes and D. Edge (eds.), *Science in Context: Readings in the Sociology of Science*, The Open University Press, 1983.
2. G. Basalla, *The Evolution of Technology*, Cambridge University Press, 1988.
3. C.A. Alvares, *Homo Faber: Technology and Culture in India, China and the West, 1500 to the Present Day*, Allied Publishers, 1979.
4. A.F. Chalmers, *What is this Thing called Science?*, The Open University Press, 1980.
5. R. MacLeod and D. Kumar (eds.), *Technology and the Raj: Western Technology and Technical Transfers to India*, Oxford University Press, 1995.
6. I. Hacking, *The Social Construction of What?*, Harvard University Press, 2001.
7. E.J. Hackett, O. Amsterdamska, M. Lynch and J. Wajcman (eds.), *The Handbook of Science and Technology Studies*, The MIT Press, 2008.
8. J.R. Kloppenberg Jr., *First the Seed: The Political Economy of Plant Biotechnology, 1492-2000*, The Macmillan Press, 1988.
9. D. Lyon, *Information Society: Issues and Illusions*, Polity Press, 1988.
10. D. MacKenzie and J. Wajcman (eds.), *The Social Shaping of Technology*, The Open University Press, 1999.
11. H. Rose and S. Rose, *The Political Economy of Science: Ideology of/in the Natural Sciences*, The Macmillan Press Ltd., 1976.
12. W. Bijker, T.P Hughes and T. Pinch (eds.), *The Social Construction of Technological Systems: New Directions in the Sociology and History of Technology*, The MIT Press, 1989.
13. Samir Okasha (2003). *Philosophy of science: a short introduction*. (chapter 1- What is science?)
14. Sismondo, S. (2010). *An introduction to science and technology studies* (Vol. 1). Chichester: Wiley-Blackwell. (Chapter 1, The Prehistory of Science and Technology Studies chapter 15, The Public Understanding of Science and Chapter 9- Two questions regarding technology)
15. Mulkay, M. (1979). *Science and the Sociology of knowledge*. London: George Allen & Unwin Ltd.
16. Keller, EF. (2001). *Gender and Science: An update*. In M. Wyer (Ed.) *Women, science and technology, A reader in feminist science studies* (132-142). New York: Routledge.
17. Chadha, G. (2005). *Towards an informed science criticism: The debate on science in postcolonial India*. In K. Ganesh, & U. Thakkar (Eds), *Culture and the making of identity in contemporary India* (pp. 247–258). New Delhi: SAGE Publications.
18. Allchin, D. (2001). *Values in science: An educational perspective*. In *Science education and culture* (pp. 185-196). Springer Netherlands.

<b>MANTMET404A</b>	<b>Tribal Development</b>
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**Unit-I:-**

**Genesis of Tribal Welfare regime**

- Colonialism and welfare of the tribe
- Approaches to tribal development (Colonial and Post Colonial)

- Protective Policies: Constitutional Safeguards

- Unit-II:- Tribal Development in Post Colonial India**  
Administrative and Institutional mechanism; Changing Models (Approaches) of Tribal Development; Community Development Programme; Special Multipurpose Tribal Blocks; Development Programme; Tribal Development Blocks; Tribal Development Agencies; MADA Pockets; Clusters and Particularly Vulnerable Groups, TSP; Tribal Policies and Welfare programmes; Impact of Welfare measures
- Unit-III:- Tribes and State policies; Tribes in National development projects**  
• Displacement, Rehabilitation and Resettlement  
• Tribal resistances in India (Autonomy, Statehood, Development Projects and Land rights)
- Unit-IV:- Tribe and forest rights** (State Policies, Forest Right Act and thereafter); Land and Resources; Tribal cultures and development, Tribal and Forest : Importance of forest for tribal's; minor forest produce; collection; trade; marketing; LAMPS; TRIFED; Forest policies; Forest Movement; Forest and Medicine; Forest Rights Act 2006
- Unit-V:- Problems of developments;** role of Civil societies; migration; displacement; rehabilitation; effects of Mega projects; Experiences of Mahanadi Projects and other contemporary issues. Etc.

### Suggested Readings

1. Ashok Ranjan Basu, Satish Nijhawan, 1994, Tribal Development Administration in India, Mittal Publications, India
2. R. S. Shukla, 2000, Forestry for Tribal Development, Wheeler Publishing,
3. A. Kumar , 2002, Tribal Development in India, Sarup & Sons,
4. Vidyut Joshi and Chandrakant Upadhyaya (Eds) 2017 TRIBAL SITUATION IN INDIA: Issues And Development (Second Revised Edition)
5. Mitra Kakali Paul , Development Programmes and Tribals, Publisher: Kalpaz Publications
6. Ahmed Shakeel Five Decades of Planning and Tribal Development, Gyan Publishing House, New Delhi
7. D.N. Thakur D. Thakur, 2009, Tribal Life And Forests Deep and Deep Publications, New Delhi

MANTMET404B	Anthropology of Food and Nutrition
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- Unit-I** Introduction to human nutrition: nutritional anthropology, essential nutrient: carbohydrate, lipid, protein, vitamins, water & minerals, Macro and Micro Nutrition. History and development of Nutritional Anthropology, Bio-cultural perspectives on food and nutrition



<b>Unit-II</b>	Food and nutrients: nutritional status assessment and methods of evaluation; Direct & Indirect Method, Nutrition related disorders: PEM: Kwashiorkor, Marasmus; Anaemia; Vitamins deficiency and Iodine, Obesity, CVD, Diabetes Mellitus, Cancer, eating disorders: anorexia nervosa and bulimia nervosa.
<b>Unit-III</b>	Food group, Concept of balanced diet, Food Analysis & food composition table, Preparation of diet chart, RDA, BMR, energy expenditure, therapeutic food, functional food, concept of food security and food safety, food spoilage
<b>Unit-IV</b>	Functions of food, food and identity, food and gender, food and social class and caste, food and health, food habits, food pattern. Food taboos and religious food, Impact of food taboos on health & Nutrition, Food as heritage: ethnic food, food and memory, making of national cuisines; Globalization and modernization of food: restaurant culture, slow food movement, localization and fast food, Archaeology of food ways: hunter, gatherers and foragers, food production and domestication, and food to feed ancient civilizations
<b>Unit-V</b>	Nutrition and body composition: method and bio-cultural variation. Nutritional epidemiology: history and development.
<b>Unit-VI</b>	Nutrition Education & Health Promotion, Nutrition intervention programmes in India
<b>Unit-VII</b>	Tribal health & nutrition policy in India, Nutrition transition of India. Nutritional organization concerned with food and nutrition

### **Suggested Readings**

1. Mann J & Truswell AS. 2002. Essential of Human Nutrition, Oxford University Press.
2. Harrison GA; Tanner, JM; Pilbeam, DR; Baker PT. 1988. Human biology: An introduction to human evolution, variation, growth & adaptability. Oxford, England, Oxford University Press.
3. Heyward VH; Wagner DR. 2009. Applied body Composition Assessment. Human Kinetic.
4. Appadurai A. 1981. Gastro-politics in Hindu South Asia. *American Ethnologist*, 8(3): 494-511.
5. Appadurai A. 1988. How to make a national cuisine: Cookbooks in contemporary India. *Comparative Studies in Society and History*, 30(1): 3-24.
6. Blumenshine RJ. 1986. Carcass consumption sequences and the archaeological distinction of scavenging and hunting. *Journal of Human Evolution*, 15(8):639-59.
7. Bourdieu P. 1984. *Distinction: A social critique of the judgement of taste*. Cambridge, MA:Harvard University Press.
8. Brillat-Savarin JA. 1994. *The physiology of taste*. London: Penguin.
9. Caplan P. 1994. *Feasts, Fasts and Famine: Food for Thought*. Oxford: Berg.
10. Counihan C & van Esterik P. 1997. *Food and Culture: A Reader*. New York: Routledge.

11. Crowther G. 2013. *Eating Culture: An Anthropological Guide to Food*. Toronto: University of Toronto Press.
12. Douglas M. 1966. *Purity and danger: An analysis of concepts of pollution and taboo*. London:Routledge & Kegan Paul.
13. Gopalan C. Rama Shastri BV, Balasubramanian SC. 1984. *Nutritive value of Indian foods*. Indian Council of Medical Research.
14. Harris M. 1985. *The sacred cow and the abominable pig: Riddles of food and culture*. NewYork: Simon & Schuster.
15. ICMR-NIN Expert Group on Nutrient Requirement for Indians, *Recommended Dietary Allowances (RDA) and Estimated Average Requirements (EAR) – 2020*.
16. Lawrence, D. 1988. *Menstrual politics: Women and pigs in rural Portugal*. In T. Buckley & A.Gottlieb (eds.), *Blood magic: The anthropology of menstruation*. Berkeley: Univ. Calif. Press, 117-36.
17. Levi-Strauss, C. 1966. *The Culinary Triangle*. *Partisan Review*, 33: 587-95.
18. Mintz S. 1985. *Sweetness and Power: The place of sugar in modern history*. New York:Penguin.
19. Mintz, SW and CM. Du Bois. 2002. *The anthropology of food and eating*. *Annual Review of Anthropology*, 31:99-119.
20. O’Connell, J. F., K. Hawkes and N. G. Blurton Jones. 1999. *Grandmothering and the evolution of Homo erectus*. *Journal of Human Evolution*, 36: 461-485.
21. Pelto, G. P, A. H. Goodman and D. L. Dufour. 2000. *The Biocultural Perspective in Nutritional Anthropology*. In A. H. Goodman, D. L. Dufour & G. H. Pelto (eds), *Nutritional Anthropology: Biocultural Perspectives on Food and Nutrition*. Oxford: OUP, 1-10.
22. Taylor Sen, C. 2016. *Feast and Fasts: A History of Food in India*. London: Reaktion.
23. Watson, J. L. and M. L. Caldwell. 2004. *The Cultural Politics of Food and Eating: A Reader*. New Jersey: Wiley-Blackwell.

<b>MANTMES405A</b>	<b>Practical on Tribal Studies (Ethnography and Participatory Research Techniques)</b>
UNIT-I	Identify significance of Participatory Research Methods to reach out to Tribal and Rural population; different PRA and RRA techniques and their applications: Social Mapping, Transect, Mobility Map, Time line, Trend analysis, Wealth Ranking, Body mapping, Venn Diagram, Seasonal Calendar, Matrix ranking, Pair-wise ranking, Pie diagram and SWOT analysis
UNIT-II	Ethnography and appreciation of tribal tradition, art and aesthetics
UNIT-III	Evaluation of Laboratory notebook and Viva-Voice

UNIT-I	Assessment of nutritional status.
UNIT-II	Indirect Measurements of Craniometry, Osteometry and somatometry.
UNIT-III	Measurement of Physical Fitness Index (PFI) by Harvard's step test. Measurement of VO <sub>2</sub> Max by step test method.
UNIT-IV	Measurement of Body Composition & Body surface Area.
UNIT-V	Measurement of systolic and diastolic blood pressures.
UNIT-VI	Dermatoglyphics: Fingers and palms: Pattern Intensity Index, Palmar Main Line Formula, TFRC and AFRC. Landmarks identification
UNIT-VII	Identification of genetic markers: ABO and Rh Blood groups, PTC Threshold value, Test of colour-blindness; Karyotyping, Sex-chromatin.
UNIT-VIII	Evaluation of Laboratory notebook and Viva-Voice.

#### Suggested reading:

1. Sen T, 1994. Guide to Anthropometry. The World Press. Kolkata.
2. Das BM & Deka R. 2006. Physical Anthropology Practical. Kitab Mahal, Allahabad, India.
3. Weiner JS and Lourie JA. 1969. Human Biology: A Guide to Field Methods.
4. Harrison, GA; Tanner, JM; Pilbeam, DR; Baker PT. 1988. Human biology: An introduction to human evolution, variation, growth & adaptability. Oxford, England, Oxford University Press.
5. Bodmer and Cavalli Sforza. Genetics, Evolution and Man.
6. D. Mukherji, D.P. Mukherjee, P. Bharati and A. Mukhopadhyay. 2018. Laboratory Manual of Biological Anthropology (2<sup>nd</sup> edition), Asian Books, New Delhi.
7. Sing IP & MK Bhasin. 2004. A manual of Biological Anthropology. KRE Publishers, New Delhi.
8. Heyward, VH; Wagner DR. 2009. Applied Body Composition Assessment. Human Kinetic.
9. Chakraborty, R. 1986. Gene Admixture in Human Populations: Models and Predictions. Yearbook of Physical Anthropology, 29: 1-43.
10. Timothy G Lohman, Alex F Roche, Reynaldo Martorell. 1988. Anthropometric Standardization Reference Manual. Champaign, IL, Human Kinetic Books

<b>MANTMES405C</b>	<b>Practical on Social Cultural Anthropology (Ethnography and Participatory Research Methods)</b>
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**Suggested Readings:**

1. Ghosh, B.N: Scientific Method and Social Research, Sterling Publishers, New Delhi, 3rd Edition, 1985

UNIT-I

Identify significance of Participatory Research Methods to reach out to Tribal and Rural population; different PRA and RRA techniques and their applications: Social Mapping, Transect, Mobility Map, Time line, Trend analysis, Wealth Ranking, Body mapping, Venn Diagram, Seasonal Calendar, Matrix ranking, Pair-wise ranking, Pie diagram and SWOT analysis

UNIT-II

Appreciation of folk culture, tradition, art and aesthetics

UNIT-III

Evaluation of Laboratory notebook and Viva-Voice

2. Young, V. Pauline: Scientific Social Surveys and Research, Prentice Hall of India, N. Delhi, 8th Indian Reprint, 1988.

3. Srivastava, V.K. 2004. Methodology and Fieldwork, OUP, New Delhi.

4. Danda, A.K. (1992) Research Methods in Anthropology Inter India Publication, New Delhi.

5. Pelto, Pretti, J & Gretal H. Pelto : Anthropological Research - the Structure of Inquiry.

6. Gibaldi, Joseph (2005): MLA Handbook for Writers of Research Papers, 6<sup>th</sup> Edition. Affiliated East West Press, New Delhi. Page 32 of 33

7. Gupta, S.P., (New Edition): Statistical Methods, Sultan Chand and Sons, New Delhi.

8. Ahuja, Ram, (New Edition) : Research Methods, Jaipur, New Edition.

9. Sharma, B.A.V., Ravindra Prasad, D. Satyanarayana, P.: Research Methods in Social Sciences, Sterling Publishers, New Delhi. New Edition.

10. Satyanarayana, B., Kishan Rao, S., Narasimhulu, M. (New Edition) Research Methods in Social Sciences, Himalaya Publishing House, Bombay

<b>MANTMEP406</b>	<b>Dissertation</b>
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Unit – I      Fieldwork

Unit – II      Project Report submission

Unit – III     Presentation

Unit – IV     Viva Voce

Students need to undertake dissertation on any topic of their choice in consultation with their supervisor. Students will work under the guidance of any Departmental faculty (ies). Publication of the dissertation work is highly desirable.

