

VIDYASAGAR UNIVERSITY



Curriculum for 3-Year BSc (General) in

Anthropology

Under Choice Based Credit System (CBCS) [w.e.f 2018-2019]

VIDYASAGAR UNIVERSITY
B Sc (General) in Anthropology
[Choice Based Credit System]

| Year | Semester | Course Type | Course Code | Course Title | Credit | L-T-P | Marks | | |
|------|----------|-----------------------------|-------------|--|-----------|-----------------|-----------|------------|--------------|
| 1 | I | SEMESTER-I | | | | | CA | ESE | TOTAL |
| | | Core-1 (DSC-1A) | | Foundation of Anthropology - Practical | 6 | 4-0-4 | 15 | 60 | 75 |
| | | Core-2 (DSC-2A) | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | Core-3 (DSC-3A) | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | AECC-1 (Elective) | | English/MIL | 2 | 1-1-0 | 10 | 40 | 50 |
| | | Semester - I : Total | | | 20 | | | | 275 |
| | II | SEMESTER-II | | | | | | | |
| | | Core-4 (DSC-1B) | | Biological Anthropology - Practical | 6 | 4-0-4 | 15 | 60 | 75 |
| | | Core-5 (DSC-2B) | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | Core-6 (DSC-3B) | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | AECC-2 (Elective) | | Environmental Studies | 4 | | 20 | 80 | 100 |
| | | Semester - 2 : Total | | | 22 | | | | 325 |



| Year | Semester | Course Type | Course Code | Course Title | Credit | L-T-P | Marks | | |
|------|----------|----------------------|-------------|---|--------|-----------------|-------|-----|-------|
| 2 | III | SEMESTER-III | | | | | CA | ESE | TOTAL |
| | | Core-7 (DSC-1C) | | Archaeological Anthropology - Practical | 6 | 4-0-4 | 15 | 60 | 75 |
| | | Core-8 (DSC-2C) | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | Core-9 (DSC-3C) | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | SEC-1 | | TBD | 2 | 1-1-0/ 1-0-2 | 10 | 40 | 50 |
| | | Semester - 3 : Total | | | 20 | | | | 275 |
| | IV | SEMESTER-IV | | | | | | | |
| | | Core-10 (DSC-1D) | | Social-Cultural Anthropology - Practical | 6 | 4-0-4 | 15 | 60 | 75 |
| | | Core-11 (DSC-2D) | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | Core-12 (DSC-3D) | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | SEC-2 | | TBD | 2 | 1-1-0/ 1-0-2 | 10 | 40 | 50 |
| | | Semester - 4 : Total | | | 20 | | | | 275 |



| Year | Semes ter | Course Type | Course Code | Course Title | Credit | L-T-P | Marks | | |
|------|--------------|------------------------|----------------|----------------------------|--------|-----------------|-------|-----|-------|
| 3 | V | SEMESTER-V | | | | | CA | ESE | TOTAL |
| | | DSE-1A | | Discipline-1(Anthropology) | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | DSE-2A | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | DSE-3A | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | SEC-3 | | TBD | 2 | 1-1-0/ 1-0-2 | 10 | 40 | 50 |
| | | Semester - 5 : Total | | | 20 | | | | 275 |
| | VI | SEMESTER-VI | | | | | | | |
| | | DSE-1B | | Discipline-1(Anthropology) | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | DSE-2B | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | DSE-3B | | Other Discipline/TBD | 6 | 4-0-4/ 5-1-0 | 15 | 60 | 75 |
| | | SEC-4 | | TBD | 2 | 1-1-0/ 1-0-2 | 10 | 40 | 50 |
| | | Semester - 6 : Total | | | 20 | | | | 275 |
| | | Total in all semester: | | | 122 | | | | 1700 |

CC = Core Course , **AEEC** = Ability Enhancement Compulsory Course , **GE** = Generic Elective , **SEC** = Skill Enhancement Course , **DSE** = Discipline Specific Elective , **CA**= Continuous Assessment , **ESE**= End Semester Examination , **TBD**=To be decided , **CT** = Core Theory, **CP**=Core Practical , **L** = Lecture, **T** = Tutorial , **P** = Practical , **MIL** = Modern Indian Language , **ENVS** = Environmental Studies



List of Core Course (CC)

DSC-1A: Foundation of anthropology
DSC-1B: Biological anthropology
DSC-1C: Archaeological anthropology
DSC-1D: Social-cultural anthropology

Discipline Specific Electives (DSE)

DSE-1: Human Growth and Development
Or
DSE-1: Human Genetics
Or
DSE-1: Advanced Human Genetics
Or
DSE-1: Advanced Forensic Anthropology
DSE-2: Tribal Cultures of India
Or
DSE-2: Social movements among Indian tribes
Or
DSE-2: Environment and Anthropology
Or
DSE-2: Heritage Management

Skill Enhancement Courses (SEC)

SEC-1: Tourism Anthropology
Or
SEC-1: Forensic Anthropology
Or
SEC-1: Demographic Anthropology
SEC-2: Media Anthropology
Or
SEC-2: Visual Anthropology
Or
SEC-2: Fashion Anthropology
SEC-3: Public Health and Epidemiology
Or
SEC-3: Medical Anthropology
Or
SEC-3: Physiological Anthropology
SEC-4: Ethnographic Research Methodology
Or
SEC-4: Anthropology of Development
Or
SEC-4: Earliest Evidences of Urbanisation in India

Core Courses (CC)

DSC-1A (CC-1): Foundation of anthropology

Credits 06

DSC1AT (C1T): Foundation of anthropology

Credits 04

Course Contents:

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

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

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

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

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

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

DSC1AP(C1P): Practical

Credits 02

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

Suggested Readings:

- Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). Introduction to Physical Anthropology. Wadsworth Publ., USA
- Kroeber A. L. (1948). Anthropology. Oxford & IBH Publishing Co., New Delhi.
- Stanford C., Allen J.S. and Anton S.C. (2010). Exploring Biological Anthropology. The Essentials. Prentice Hall Publ, USA.
- Statement on Race: Annotated Elaboration and Exposition of the Four Statements on Race (1972). Issued by UNESCO. Oxford University Press.

DSC-1B (CC-2): Biological anthropology

Credits:06

DSC1BT (C2T): Biological anthropology

Credits 04

Course Contents:

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

Unit-II: Theories of Human Evolution- Lamarckism, Darwinism, Synthetic Theory. Organic evolution.

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

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

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

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

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

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

DSC1BP (C2P): Practical

Credits 02

I.CRANIOMETRY:

i) Maximum cranial length, ii) Maximum cranial breadth, iii) Least Frontal breadth, iv) Maximum bizygomatic breadth, v) Nasal length, vi) Nasal breadth, vii) Superior Facial Length, viii) Frontal arc, ix) Parietal arc, x) Occipital arc, xi) Frontal Cord, xii) Parietal Cord, xiii) Occipital Cord, xiv) Horizontal Circumference of the Cranium.

II. SOMATOMETRY (on three subjects)

A. Measurement on head and face (Cephalometry) -

i) Maximum head length, ii) Maximum head breadth, iii) Least frontal breadth, iv) Maximum Bi-zygomatic breadth, v) Bi-gonial breadth, vi) Nasal length, vii) Nasal breadth, viii) Nasal depth, ix) Morphological superior facial length, x) Morphological total facial length. xi) Outer bi-orbital breadth, xii) Inner bi-orbital breadth, xiii) Inter orbital breadth, xiv) Length of ear.

B. Measurements on trunk and limbs-

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

III. INDICES

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

IV. GENETIC TESTS (On three subjects)

i) Ability of testing PTC, Test for colour blindness, Examination of ABO & Rh blood group,

Suggested Readings:

- Brooker R.J. (2012). Genetics: analysis & principles. The McGraw-Hill Companies, Inc 4th ed.
- Cavalli-Sforza, L.L. and Bodmer, W.F (1971). The Genetics of Human Population. San Francisco: Freeman
- Cooper DN and Kehrner-Sawatzki H. (2008). Handbook of Human Molecular Evolution. John Wiley & Sons, vol.-2.
- Crawford MH (2007). *Anthropological Genetics Theory, Methods and Applications*. Cambridge University Press
- Cummings M.R. (2011). Human Heredity: Principles and Issues. Ninth Edition. Brooks/Cole, Cengage Learning
- Jobling, M.A. Hurler M. and Tyler-Smith C. (2004). *Human Evolutionary Genetics: Origins, Peoples & Disease*. GS. NY
- Lewis R. (2009). *Human Genetics: Concepts and Applications* 9th Edition. The McGraw-Hill Companies, Inc.
- Patch C. (2005). *Applied Genetics in Healthcare*. Taylor & Francis Group
- Relethford J.H. (2012). *Human Population Genetics*. Wiley-Blackwell, USA
- Snustad .D.P. and Simmons M.J. (2006). *Principles of Genetics*, Fourth Edition, John Wiley & Sons USA, Hoboken NJ
- Strachan T, Read A.P. (2004). *Human Molecular Genetics*. Garland Science/Taylor & Francis Group.
- Vogel F. and Motulsky A.G. (1996). *Human Genetics*. Springer, 3rd revised edition.
- Buettner-Janusch, J. (1966). *Origins of Man: Physical Anthropology*. John Wiley & Sons, Inc., New York, London, Sydney.
- 14.. Howell F.C. (1977). *Horizons of Anthropology*. Eds. S. Tax and L.G. Freeman, Aldine Publishing House, Chicago.
- Nystrom P. and Ashmore P. (2011). *The Life of Primates*. PHI Learning Private Limited, New Delhi.

- Seth P. K. and Seth S. (1986). *The Primates*. Northern Book Centre, New Delhi, Allahabad.
- Sen, T. 1994. *A Guide to Anthropometry*. Delhi: Friends Publications.
- Singh I. P. and Bhasin M.K. (1989). *Anthropometry: A Laboratory Manual on Biological Anthropology*. Kamla-Raj Enterprises, Chawri Bazar, Delhi.
- Standford C.; Allen J.S. and Anton S.C. (2012). *Biological Anthropology: The Natural History of Mankind*. PHI Learning Private Limited, New Delhi.
- Swindler D. R. (2009). *Introduction to the Primates*. Overseas Press India Pvt. Ltd., New Delhi.
- Dipak Mukherjee, Deviprasad Mukherjee and Premananda Bharati. 2009. *Laboratory Manual For Biological Anthropology*. Asian Books Pvt. Ltd.

DSC-1C (CC-3) : Archaeological anthropology

Credits 06

DSC1CT (C3T): Archaeological anthropology

Credits 04

Theory

Course Contents:

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

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

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

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

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

DSC1CP (C3P): Practical

Typo-technological Analysis of Prehistoric Tools – Drawing, Identification and Interpretation of the following tool Types: 1. Core Tool 2. Flake Tool 3. Blade Tool 4. Microliths. 5. Neolithic Tool

Suggested Readings:

- Allchin and Allchin (1993). *The Rise of Civilization of India and Pakistan*. Cambridge University Press
- Bhattacharya D.K. (1978). *Emergence of Culture in Europe*, Delhi, B.R. Publication.

- Bhattacharya D.K. (1979). *Old Stone Age Tools and Techniques*. Calcutta, K.P. Bagchi Company
- Bhattacharya D.K. (1996). *Palaeolithic Europe*. Netherlands, Humanities Press.
- Champion et al. (1984). *Prehistoric Europe*. New York, Academic Press.
- Fagan B.M. (1983). *People of Earth: An Introduction*. Boston, Little, Brown & Company.
- Okley KP.1967. Man The tool Maker. Trustees of the British Museum.
- Phillipson D. W. (2005). *African Archaeology*. Cambridge, Cambridge University Press.
- Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College.
- Sankalia H.D. (1974). *Prehistory and Protohistory of India and Pakistan*. Poona, Deccan College
- Sankalia H.D. (1982). *Stone Tool Type and Technology*. Delhi, B.R.Publication

DSC-1D (CC- 4) : Social-cultural anthropology

Credits 06

DSC1DT(C4T) : Social-cultural anthropology

Credits 04

Course Contents:

Unit I: Basic concept, definition, scope and relevance of social anthropology; Relationship of social anthropology with other disciplines (Sociology, History, Political Science, Psychology, Folk lore)

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

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

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

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

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



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

DSC1DP (C4P): Practical

Credits 02

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

Suggested Readings:

- Beattie J. (1964). *Other Cultures*. London: Cohen & West Limited.
- Bernard H.R. (1940). *Research Methods in Cultural Anthropology*. Newbury Park: Sage Publications.
- Davis K. (1981). *Human Society*. New Delhi: Surjeet Publications.
- Delaney C. (2004). 'Orientation and disorientation' In *Investigating Culture: An Experiential Introduction to Anthropology*. Wiley-Blackwell.
- Ember C. R. et al. (2011). *Anthropology*. New Delhi: Dorling Kindersley.
- Ferraro G. and Andreatta S. (2008). In *Cultural Anthropology: An Applied Perspective*. Belmont: Wadsworth.
- Karen O'reilly. (2012). 'Practical Issues in Interviewing' *Ethnographic Methods*. Abingdon: Routledge
- Lang G. (1956). 'Concept of Status and Role in Anthropology: Their Definitions and Use. *The American Catholic Sociological Review*.17(3): 206-218
- O'reilly K. (2012). *Ethnographic Methods*. Abingdon: Routledge.
- Parsons T. (1968). *The Structure of Social Action*. New York: Free Press
- Rapport N. and Overing J. (2004). *Key Concepts in Social and Cultural Anthropology*. London: Routledge.
- Royal Anthropological Institute of Great Britain and Ireland (1971). 'Methods' In *Notes and Queries on Anthropology*. London: Routledge & Kegan Paul Ltd.
- Scupin, R. 2011. *Cultural Anthropology: A Global Perspective*. Delhi: Pearson.
- Miller, Barbara. *Cultural Anthropology*. 6th ed. 2011. PHI Learning Private Limited: New Delhi.11
- Fox, Robin. 1983. *Kinship and Marriage: An Anthropological Perspective*. Cambridge University Press.
- Nanda, Serena. 2006. *Cultural Anthropology*. USA: Cengage Learning.
- Haviland et. al. 2008. *Anthropology*. Australia: Wordsworth.
- Barnard A. (2000). *History and Theory in Anthropology*. Cambridge: Cambridge University.
- Marvin Harris.(1968). *Rise of Anthropological Theories: A History of theories of Culture*. Routledge and Kegan Paul.
- Pandey and Upadhaya. (2002). *History of Anthropological Thoughts*. New Delhi: Concept Publishing Company.
- Jha, M (1983) *An Introduction to Anthropological thought*, Vikash, New Delhi

DISCIPLINE SPECIFIC ELECTIVE (DSE)

DSE-1: Human Growth and Development

Credits 06

DSE1T: Human Growth and Development

Credits 04

Course Contents:

Introduction to human growth and development. Prenatal growth. Post natal growth. Factors affecting growth. Methods of studying growth: Cross sectional, longitudinal, and mix cross sectional, Growth curves. Human nutrition: food, diet, nutrition and metabolism (definitions only); the basic nutrients- micro and macro nutrients, their sources, and utility, Malnutrition: over and under nutrition.

DSE1P: Practical

Credits 02

Project/ Report on any chosen topic from this DSE.

Or

DSE-1: Human Genetics

Credits 06

DSE1T: Human Genetics

Credits:04

Course Contents:

Unit I: Structure, Function and Inheritance of the human genome- gene, DNA structure and replication, DNA repair and recombination, gene expression, coding and non-coding region

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

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

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

Unit V: Genomic Diversity & Human Evolution People of the Indian Subcontinent: Evidence from mtDNA and Y-chromosome; evolutionary genetics; Molecular evolution; DNA sequence variation and human origins



DSE1P: Practical**Credits:02**

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

Suggested Readings:

- Strachan T and Read AP. (2004). Human Molecular Genetics. Garland Science
- Brown TA. (2007). Genomes. Garland Science.
- Griffiths AJF. (2002). Modern Genetic Analysis: Integrating Genes and Genomes. WH Freeman Press.12
- Griffiths AJF, Wessler SR, Carroll SB, Doebley J. (2011). An Introduction to Genetic Analysis. Macmillan Higher Education.
- Cavalli-sforza LL, Menozzi P, Piazza A (1994). History and Geography of Human Genes. Princeton University.
- Giblett, ER. (1969). Genetic Markers in Human Blood. Blackwell Scietific, Oxford.
- Cummings MR (2011). Human Heredity: Principles and Issues. Brooks/Cole, Cengage Learning
- Jobling M, Hurls M and Tyler-Smith C. (2004). Human Evolutionary Genetics: Origins, Peoples & Disease. New York: Garland Science.
- Lewis R. (2009). Human Genetics: Concepts and Application. The McGraw–Hill Companies, Inc.
- Patch C. (2005). Applied Genetics in Healthcare. Taylor & Francis Group
- Vogel F. and Motulsky A.G. (1996). Human Genetics. Springer, 3rd revised edition.
- Snustad .D.P. and Simmons M.J. (2006). Principles of Genetics, Fourth Edition, John Wiley & Sons USA.

Or**DSE-1: Advanced Human Genetics****Credits 06****DSE1T: Advanced Human Genetics****Credits 04****Course Contents:**

History of Genetics, Paradigms of Human Genetics; Mendelian genetics, , DNA and RNA structure and DNA replication, DNA repair, and recombination, gene expression, coding and non-coding region, Nuclear and Mitochondrial DNA, Expression of protein, transcriptions, transcription (protein synthesis), Outline concept of epigenetics in human genetics, Cytogenetics; concept of karyotype, Banging (G banding) and high resolution FISH. Concept of point mutation; Family study; pedigree analysis, concept of dominant, recessive and co-dominant inheritance. Penetrance and expressivity; Sex linkage (Dominant and recessive) and sex influenced traits. Electrophoresis, PCR technology and sequencing (Concept and outline)

DSE1P: Practical**Credits 02**

Project/ Report on any chosen topic from this DSE

Or

DSE-1: Advanced Forensic Anthropology**Credits 06****DSE1T: Advanced Forensic Anthropology****Credits 04****Course Contents:**

Introduction to forensic Anthropology and its relationship with forensic science, Application of Forensic Anthropology, introduction to Dermatoglyphics, History and development, scope and application, pattern types are pattern area, Palm print, triradii and angle, types of finger prints, Plastic, visible and latent prints, conventional and modern methods of development of finger prints-Silver nitrate, powder method, laser technique, Concept of hair features in Forensic Anthropology, techniques of analyzing hair in Forensic anthropology, basic Human Skeletal Biology, identification of human skeletal remains, ancestry, age, sex and stature estimation from bones.

DSE1P: Practical**Credits 02**

Project/ Report on any chosen topic from this DSE

Suggested Readings:

- Cummings, H. and Midlo, C. (1961). Finger prints, palms and soles: An Introduction to Dermatoglyphics. (vol. 319). New York: Dover Publ.
- Das Chaudhuri, A.B. and Chopra, V. (1984). Variation in hair histological variable: Medulla and Diameter. Human Heredity., 34: 217-221.
- Lee, H.C., Romotowski, R. and Gaensslen, R.E. (Ed.). (2001). Advances in finger print technology. CRC Press.
- Mukherjee, D., Mukherji D. P. and Bharati P. (2009). Laboratory Manual of Biological anthropology. Asian Books Pvt. Ltd., New Delhi, India.
- Gunn, A. (2009). Essential forensic Biology (2nd ed.). Chichester. Wiley-Blackwell.
- Ghoshmaulick, S.K. and Rath, B. (2000). Techniques in Forensic and Physical Anthropology. Mayur Publ. Bhubaneswar, India.
- Rastogi, S. and Shukla, B.R.K. (2003). *Laboratory Manual of Physical Anthropology*. Bharat Book Center, Lucknow, India.

DSE-2: Tribal Cultures of India**Credits:06****DSE2T: Tribal Cultures of India****Credits 04****Course Contents:**

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



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

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

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

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

DSE2P: Practical

Credits 02

1. Point out the Geographic, Economic and Linguistic distribution of Indian Tribes and distribution of PVTGs, STs on map
2. Write the social structure of any one tribe of India from secondary sources

Suggested Readings:

- Behera, D.K and Georg Pfeffer. Contemporary Society Tribal Studies, Volume I to VII. New Delhi: Concept Publishing Company
- Georg Pfeffer. Hunters, Tribes and Peasant: Cultural Crisis and Comparison. Bhubaneswar: Niswas.
- Vidarthy, L.P. and Rai. Applied Anthropology in India.
- Vidarthy, L.P. and B.N. Sahay . Applied Anthropology and Development in India. New Delhi: National Publishing House.
- Hasnain, Nadeem. Tribal India. New delhi. Palaka prakashan
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Or

DSE-2: Social movements among Indian tribes

Credits 06

DSE2T: Social movements among Indian tribes

Credits 04

Course Contents:

Theoretical approach, tribal movements in India, Tribal struggle in India during the British rule (Mundas, Hoes, Oraon, Santhals, Gonds, Tribals of Andaman Nicobar islands, Bhils etc.). Social movements in the aftermath of independence, movements related to political autonomy, movement based on agriculture and forest, sanskritization movement, movement based on language and script.

DSE2P: Practical

Credits 02

Project/ Report on any chosen topic from this DSE

Suggested Readings:



- Doshi, S.L. and Jain, P.C. 2001, Social Anthropology , Rawat Pub., Jaipur, India.
- Agarwala, B. (1994). *Gender and Command over Property*, Kali for Women. New Delhi.
- Fuchs, S. (1965). *Rebellions Prophets*, Asia Publ. House, Bombay. \
- Singh, K.S. (1982). *Tribal Movements in India*, Manohar, New Delhi.

Or

DSE- 2: Environment and Anthropology

Credits 06

DSE2T: Environment and Anthropology

Credits 04

Course Contents:

Introduction to environmental anthropology. History and development of environmental anthropology. Basic concepts of ecology. Human adaptability, Environment/Habitat, Ecology, Culture environment relationship. Health and environment. Forest policies in India. Movements related to the protection of Environment in India, Environmental justice.

DSE2P: Practical

Credits 02

Project/ Report on any chosen topic from this DSE

Suggested Readings:

- Ingold Tim, ed. 1997. *Companion Encyclopedia of Anthropology: Humanity, Culture, and Social Life*. New. York: Routledge.
- Keesing, Roger M. and Andrew J. Strathern. 1998. *Cultural Anthropology: A Contemporary Perspective*, 3rd ed. Fort Worth: Harcourt Brace College Publishers

Or

DSE-2: Heritage Management

Credits06

DSE2T: Heritage Management

Credits 04

Course Contents:

Introduction to Heritage Understanding the meaning of heritage; types of heritage (tangible, intangible and living); defining 'heritage' and its 'value' and 'significance'; Classification of cultural assets.

History, Theory and Concepts of Conservation. History and development of conservation, Conservation principles and practices. Cultural Heritage Management. Conservation plan, Management plan, Project management, Heritage economics, Risk preparedness, Disaster management, Sustainable conservation, Popularizing archaeology, Community participation. Sustainability and Conservation Ideology behind the use of local material and techniques for conservation, eco-friendly approaches, understanding global issues related to heritage conservation, sustainable conservation.



Museum Studies: Introduction the notion of a ‘museum’, types of museums, curation, material culture, material conservation, documentation and cataloguing, visitor experience, museum as an educational space.

DSE2P: Practical

Credits 02

Project/ Report on any chosen topic from this DSE

Suggested Readings:

- Allchin, F.R. 1969. *Cultural Tourism in India-Its Scope and Development*. UNESCO.
- Ambrose, T& C. Paine. 1993. *Museum Basics*. ICOM, Landon & New York.
- Bhatia, A.K. 1997. *International Tourism : Fundamentals and Practise*. Sterling Pub. Pvt. Ltd.
- Blake, Janet. 2015. *International Cultural Heritage Law*. Oxford University Press, New York.
- Brusasco, Paul. 2012. *Looting the Past*. University of Italy.
- Cleere, Henry. 2012. *Archaeological Heritage Management in the Modern World*.
- Durbach, Andrea & Lucas Lixinski. 2017. *Heritage, Culture and Rights: Challenging Legal Discourses*. Hart Publishing, Oregon
- Edson, G. & D. Dean. 2000. *The Handbook for Museums*, London & New York
- Keene, S. 1990. *Managing Conservation*. London.
- Nafziger, James A.R. 2012. *Cultural Heritage Law*. Edward Elgar Publishing Limited.
- Punia, Bijender, K. 1994. *Tourism Management : Problem & Perspectives*. Ashish Pub. House.
- UNESCO. 2015. *The World's Heritage: A Complete Guide to the Most Extraordinary Places*.
- UNESCO. 2013. *Managing Cultural World Heritage*.

SKILL ENHANCEMENT COURSE (SEC)

SEC-1 : Tourism Anthropology

Credits 02

SEC1T : Tourism Anthropology

Credits 02

Course Contents:

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

Unit II: Interconnections between tourism history and the rise of the socio-cultural study of tourism including temporary migration, colonial exploration, pilgrimage, visiting relatives, imagined and remembered journeys, and tourism.

Unit III: understand the global and local political economy of contemporary tourism, particularly in relation to international development; explore dynamic relationships between heritage-making enterprises, revival and preservation projects, the international flow of capital; role of museums and other branches of the cultural industries" (including music, art, and food) in tourism economies; tourism and global mobility; Ecotourism and sustainable development.

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

Suggested Readings:

- Chambers E. (2000). Native Tours: The Anthropology of Travel and Tourism. Prospect Heights: Waveland.
- Crick M. (1995). The Anthropologist as Tourist: An Identity in Question. In Lanfant MF, Allcock JB, Bruner EM (eds.) International Tourism: Identity and Change. London: Sage. pp. 205-223.
- Dann GMS, Nash D and Pearce PL. (1988). Methodology in Tourism Research. Annals of Tourism Research. 15:1-28.
- Gmelch SB. (2004). Tourists and Tourism: A Reader. Long Grove: Waveland.
- Graburn NHH. (1977). Tourism: The Sacred Journey. Hosts and Guests: The Anthropology of Tourism. Valene L. Smith, ed. Philadelphia: University of Pennsylvania Press. Pp. 33-47.
- Dann G. (2002). The Tourist as a Metaphor of the Social World. Wallingford: CAB International.
- Nash D. (1996). Anthropology of Tourism. New York: Pergamon.
- Kirshenblatt-Gimblett B. (1998). Destination Culture: Tourism, Museums, and Heritage. University of California Press.
- Lippard LR. (1999). On the Beaten Track: Tourism, Art and Place. New Press.
- Picard M and Wood R. (1997). Tourism, Ethnicity, and the State in Asian and Pacific Societies. University of Hawai Press.
- Crick M. (1994). Anthropology and the Study of Tourism: Theoretical and Personal Reflections. In Crick M (eds.). Resplendent Sites, Discordant Voices: Sri Lankans and International Tourism. Chur, Switzerland: Harwood Publishers.

- Wood R. (1997). *Tourism and the State: Ethnic Options and the Construction of Otherness*. In Picard and Wood *Tourism, Ethnicity and the State in Asian and Pacific Societies*. University of Hawai Press.
- Richard B. (1992). *Alternative Tourism: The Thin Edge of the Wedge*. In Valene Smith and Eadington *Tourism (eds.)*. *Alternatives: Potentials and Problems in the Development of Tourism*. University of Pennsylvania Press.

Or

SEC-1 : Forensic Anthropology

Credits 02

SEC1T : Forensic Anthropology

Credits 02

Course Contents:

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

Unit-II: Basic Human Skeletal Biology, Identification of Human and Non-Human Skeletal Remains, Ancestry, age, sex and stature estimation from bones.

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

Unit-IV: Serology: Identification and Individualization of bloodstain, urine, semen and saliva.

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

Suggested Readings:

- Bass W.M. (1971). *Human Osteology: A Laboratory and Field manual of the Human Skeleton*. Columbia: Special Publications Missouri Archaeological Society.
- Black S. and Ferguson E. (2011). *Forensic Anthropology 2000 to 2010*. CRC Press, London.
- Byers, S. N. (2008). *Forensic Anthropology*. Boston: Pearson Education LTD.
- Gunn A. (2009) *Essential Forensic Biology* (2nd ed). Chichester: Wiley-Blackwell
- Modi, R. B. J. P. (2013). *A Textbook of Medical Jurisprudence and Toxicology*. Elsevier.
- Reddy V. R. (1985). *Dental Anthropology*, Inter-India Publication, New Delhi.
- Spencer, C. (2004). *Genetic Testimony: A Guide to Forensic DNA Profiling*, Pearson, New Delhi.
- Vats Y., Dhall J.K. and Kapoor A.K. (2011). Gender Variation in Morphological Patterns of Lip Prints among some North Indian Population. *J. Forensic Odontology*, 4: 11-15.
- Wilkinson, C. (2004). *Forensic facial reconstruction*. Cambridge University Press.

Or



SEC-1: Demographic Anthropology

Credits 02

SEC1T: Demographic Anthropology

Credits 02

Course Contents:

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

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

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

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

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

Suggested Readings:

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

SEC-2: Media Anthropology

Credits 02

SEC2T: Media Anthropology

Credits 01

Course Contents:

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

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

Unit III: The Cultural Work of Mass Media Production

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



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

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

SEC2P: Practical

Credits 01

Make a brief report / project on any one dimension of mass media sector and give your assessment.

Suggested Readings:

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

Or

SEC-2: Visual Anthropology

Credits:02

SEC2T: Visual Anthropology

Course Contents:

Unit- 1: Introduction to Visual Anthropology, Visual Culture, Photographic and Digital Media: Still, Interactive and Moving.

Unit- 2: Anthropology and Images: Ethnophotography and ethnographic films and mass media; Theories of representation, modern media and political advocacy.

Unit- 3: Early Ethnographic Photography: Contexts and Trends. Anthropology of Art and Aesthetics

Unit-4: Ethnographic Films: Theoretical issues concerning ethnographic film, ethical dimensions of ethnographic film

Suggested Readings:

- Marcus Banks and Howard Morphy, 1998, Rethinking Visual Anthropology
- David MacDougall Transcultural Cinema, (Princeton, 1999)
- Ruby, Jay. 1996. "Visual Anthropology." In Encyclopedia of Cultural Anthropology, David Levinson and Melvin Ember, editors. New York: Henry Holt and Company, vol. 4: 1345- 1351.
- Ch. 1, "Reading Pictures," pp. 1-12 [From: Banks, Marcus. 2001. Visual Methods in Social Research. London: Sage.]
- Ember C.R. et al (2011). Anthropology. New Delhi: Dorling Kinderslay. [Unit II, III, IV (Page: 282-321, 430-438, 464, 469-471)]
- Banks M. and Ruby J. (2011). Made do Be Seen. Perspectives on the History of Visual Anthropology. University of Chicago Press [Practical]



- Schneider A. and Wright C. (2010) Between Art and Anthropology: Contemporary Ethnographic Practice. Berg Publishers [Practical]
- Henley P. (2010). The Adventure of the Real. Jean Rouch and the Craft of ethnographic

Or

SEC-2: Fashion Anthropology

Credits:02

SEC2T: Fashion Anthropology

Course Contents:

Unit-I. Introduction: Fashion, Consumption, and Anthropology: From Evolution to Compassionate Consumption, the rise and fall of Evolution in Dress.

Unit II: Theoretical and Ethnographic Approaches to Understanding Fashion and Consumer Society

Unit III: Colonialism, Dress, and Identity, Consumption and Civilizing Fashion, Anti-colonial Dress.

Unit IV: Gender and fashion; Fashion in cross-cultural aspects; role of religion in fashion; fashion in traditional and modern societies.

Unit V: Globalization and Dress, leather cosmetic relationships, relationship of tribal clans with reference to embroidery color and designs in ethnic group of India.

Suggested Readings:

- Allman, Jean. Fashioning Power: Clothing, Politics and African Identities. Bloomington: Indiana University Press, 2004.
- Aronson, Lisa. "Body Modification and Art", in the Berg Encyclopedia of World Dress and Fashion, Volume 1, Africa. Berg Fashion Library, 2010.
- Bachu, Parmindar. Dangerous Designs: Asian Women Fashion the Diaspora Economies. New York: Routledge, 2004
- Fee, Sarah. "Anthropology and Materiality." In The Handbook of Fashion Studies. London: Bloomsbury, 2013, 301-324.
- Hebdige, Dick. Subculture: The Meaning of Style. Routledge, 1979.
- Schneider, Jane. "The Anthropology of Cloth", in Annual Review of Anthropology, 16 (1987): 409-448.
- Smith, Fred T. "Archaeological Evidence", in the Berg Encyclopedia of World Dress and Fashion, Volume 1, Africa. Berg Fashion Library, 2010.
- Tarlo, Emma. Clothing Matters: Dress and Identity in India. Chicago: University of Chicago Press, 1996.

SEC-3: Public health and epidemiology

Credits 02

SEC3T: Public health and epidemiology



Course Contents:

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

Unit II: Statistical Methods for Health Science: Analysis and interpretation of data including data cleaning, data file construction and management; implementation of analytic strategies appropriate for the type of data, study design and research hypothesis; parametric and nonparametric methods, measures of association, Linear and Logistic regression, Generalized Linear Modelling, and Survival analysis

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

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

Suggested Reading:

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

Or

SEC- 3: Medical Anthropology

Credits 02

SEC3T: Medical Anthropology

Course Contents:

- a)** Medical Anthropology: Definition and major areas of study; Goals and basic premises
- b)** Anthropology in Medicine and Anthropology of Medicine
- c)** Clinical Anthropology and Applied Medical Anthropology
- d)** Ethno-medicinal Anthropology: Disease aetiology, disease classification, diagnosis and healing in folk societies; Culture bound syndromes, Traditional Medicine in India

Suggested Readings:

1. Leiban R W (1974): Medical Anthropology In Hand Book of Social and Cultural Anthropology (Ed) Honnigman; Chicago, Rand McNally & Co (pages 1031 -1071)
2. 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; California, Mayfield Publishing Company.
3. Janzen M. John (2002): The Social Fabric of Health: An Introduction to Medical Anthropology, Newyork, McGraw Hill
4. Johnson T.M & Sargent FG (Ed)(1990): Medical Anthropology: A Hand Book of Theory and Method; New York, Green wood Press
5. Ember and Ember (2004): Encyclopaedia of Medical anthropology: Health and Illness in World Cultures. Kluwer Academic/Plenum Publishers, New York
6. Johnson T.M & Sargent FG (Ed) (1990): Medical Anthropology: A Hand Book of Theory and Method; New York, Green wood Press
7. Foster M George & Anderson B G (1978): Medical Anthropology, New York, John Wiley & Sons; PP51 -79
8. Leslie Charles C (1976): Asian Medical Systems, Berkeley, University of California Press
9. Banarjee B G and Ritual J(1988): Folk Illness and Ethno medicine, New Delhi, Northern Book Centre
10. Joshi PC & Anil Mahajan (Ed) (1990): Medical Anthropology, New Delhi, Reliance Publishing House.
11. Salil Basu (Ed) (1994): Tribal Health in India, Manak Publications, Delhi,
12. Khan, S ,(2006) Systems of medicine and nationalist discourse in India: Towards “new horizons” in medical anthropology and history. *Social Science & Medicine* 62 (2006) 2786–2797

Or

SEC-3: Physiological Anthropology

Credits 02

SEC3T: Physiological Anthropology

Course Contents:



Unit I

Fundamentals of work physiology- homeostasis; metabolism and energy and systems; exercise, respiratory system and haemo-dynamics (blood pressure, pulse rate, heart rate and oxygen- transporting system, blood flow ,Hb, etc)

Unit II

Cardio-vascular and respiratory endurance, physical working capacity and physical fitness- evaluation of response and assessment; aerobic and anaerobic exercise training, health related fitness in gender and ethnic group. Impact of smoking, alcohol, drug, pollution and occupation on cardio-respiratory functions; physical performance and environmental stress, chronic diseases, malnutrition, lifestyle disease

Suggested Readings:

1. McArdle WD, Katch FI and Katch VL. (2010). *Exercise Physiology: Nutrition, Energy and Human Performance*. Lippincott Williams & Wilkins.
2. Powers SK and Howley ET. (2007). *Exercise Physiology: Theory and Application to Fitness and Performance*. McGraw-Hill.
3. Ghosh Jyoti Ratan and Bandyopadhyay Arup R. (2013). *Central adiposity and the risk of hypertension in Asian Indian girls*. World Journal of Pediatrics. 9(3):256-260.
4. Sherwood L. (2008). *Human Physiology: From Cells to Systems*. Brooks Cole.
5. Case RM. (1985). *Variations in Human Physiology*. Manchester University Press.
6. Vander AJ, Sherman JH and Dorothys L. (1978). *Human Physiology: The Mechanisms of Body Functions*. Mc Graw-Hill Education.
7. Nageswari KS and Sharma S. (2006) *Practical workbook of Human Physiology*. Jaypee Brothers, Medical Publisher.
8. Wildmaier EP, Raff H, Strang KT. (2014). *Vander's Human Physiology: The Mechanisms of Body*. Mc Graw Hill Education.
9. Hale T. (2003). *Exercise Physiology*. England : John Wiley & Sons Inc.

SEC-4: Ethnographic Research Methodology

Credits 02

SEC4T: Ethnographic Research Methodology

Course Contents:

Unit I: Research Design: Review of literature, conceptual framework, formulation of research problem/hypothesis, sampling, data collection, data analysis and report writing.

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

Unit III: Tools and techniques of data collection- questionnaire, interview schedule, Observation, interview, Focused Group Discussion, key informant, Case Study and life history, Genealogy - Technique and application.



Unit IV: Ethical issue in social research: Importance of consent, privacy and confidentiality in research, Issues of academic fraud and plagiarism, conflicts of interest, authorship and publication.

Unit V: Analysis and Writing Up: Chapterization, preparing a text for submission and publication, concepts of preface, notes (end and footnotes), glossary, prologue and epilogue, appendix, bibliography (annotated) and references cited, review and index.

Suggested Readings:

- Bernard H.R.(2006) *Research Methods in Anthropology, Qualitative and Quantitative Approaches*. Jaipur: Rawat Publications.
- Bernard, H.R.(1988).*Research Methods in Cultural Anthropology*. Sage Publication.
- Emerson, R.M., Fretz RI and Shaw L.(1995). *Writing Ethnographic Field notes*. Chicago, University of Chicago Press.
- Lawrence, N.W,(2000). *Social Research Methods, Qualitative and Quantitative Approaches*. Boston: Allyn and Bacon.
- O'reilly, K.(2005). *Ethnographic Methods*. London and New York: Routledge.
- Patnaik S.M.(2011), *Culture, Identity and Development: An Account of Team Ethnography among the Bhil of Jhabua*. Jaipur: Rawat Publications.
- Pelto, P.J. and Pelto, G.H.(1978), *Anthropological Research, The Structure of Inquiry*. Cambridge: Cambridge University Press.
- Sarantakos, S.(1998), *Social Research*. London: Macmillan Press.
- Ahuja, R.(2013). *Research Methods*. Rawat Publications.

Or

SEC-4: Anthropology of Development

Credits 02

SEC4T: Anthropology of Development

Course Contents:

Anthropology and Development: The Pros and Cons of the Relationship

1. Anthropology in Development □ Cardoso
2. The World of Development and Anthropology □ Bouju
3. The Uneasy Relationship □ Lewis, Gow.
4. Development Anthropology: The Aspects, Phases, Actions, Debates □ Grammig. 2nd Chap.; Gow; Edelman and Haugerud: Introduction
5. Speaking on behalf of 'those' Others □ Cardoso
6. Anthropology of Development and Development Anthropology □ Edelman and Haugerud: Introduction, Escobar

Suggested Readings:



1. Jacky Bouju. (2011). Application of Development Anthropology: Applied Anthropologists and Practitioners. *Cahiers d'études africaines*. 202-203. 563 - 589
2. David, Gow. 2002 Anthropology and Development: Evil Twin or Moral Narrative? *Human Organization* 61(4): 299–313.
3. Joana G. Cardoso, 2007. .Applied and academic anthropology in development: Distance or engagement? *Antropologia, Escala e Memória*, 2(N.S.): 102–117.
4. Lewis, D. (2005): Anthropology and development. the uneasy relationship [online]. London: LSE. Research Online. <<http://eprints.lse.ac.uk/253/1/>>
5. Marc Edelman and Angelique Haugerud, eds., 2005. *The Anthropology of Development and Globalization: From Classical Political Economy to Contemporary Neoliberalism*. Oxford: Blackwell
6. Thomas Grammig. 2002. Technical knowledge and development: observing aid projects and processes .London :Routledge,

Or

SEC-4: Earliest Evidences of Urbanisation in India

Credits 02

SEC4T: Earliest Evidences of Urbanisation in India

Course Contents:

i. Harappan Cultural Tradition: General Framework and Chronology:

Pre / Early Harappan cultures of the Indian subcontinent

ii. Mature Harappan

- a. Geographical Distribution and Settlement Pattern
- b. Subsistence of the Harappans - plant and animal diet, agriculture and agriculture system, water management, exploitation of natural resources, etc.
- c. Social, Political, Religious and Economic organization

iii. Decline and the Late Harappan

Various factors and theories about the Harappan Decline and consequences

Suggested Readings:

1. Bhargava, P. (2001). *India in the Vedic Age: A History of Aryan Expansion in India*. Delhi: D. K. Print
2. Chakravarty, K. K., and R. G. Bednarik. (1997). *Indian Rock Art in Global Context*. Delhi: Motilal Banarasi Das & IGRMS.
3. Clark, J.D. and Sharma, G.R. (Eds.) *Palaeoenvironment and Prehistory in the Middle Son Valley, Madhya Pradesh, North Central India*. Allahabad: Abinash Prakashan.
4. Dhavalikar MK, (2013)(ed). *Prehistory of India*. New Delhi: Manohar



5. Misra VD, and Pal JN, (2002)(editors). Mesolithic India. Allahabad: Department of Ancient History, Culture and Archaeology, University of Allahabad.
6. Paddayya K. and Sushama G. Deo (Eds.) Recent Advances in Acheulian Culture Studies in India. ISPQS Monograph No.6.
7. Paddayya K. and Sushama G. Deo (2017). Prehistory of South Asia (The Lower Palaeolithic or Formative Era of Hunting-Gathering), The Mythic Society, Bengaluru, pp. 152
8. Pandey, S. K. (1993). *Indian Rock Art*. Delhi: Aryan Books International.
9. Pappu, R. S.(2001). *Acheulian culture in peninsular India: an ecological perspective*. New Delhi: D.K. Printworld.
10. Pappu S, Y. Gunnell, M.Taieb and A. Kumar (2004). Preliminary report on excavations at the Palaeolithic site of Attirampakkam, Tamil Nadu (1999–2004), *Man and Environment* 29(2):1-17.
11. Pappu Shanti, Yanni Gunnell, Kumar Akhilesh, Régis Braucher, Maurice Taieb, François Demory, Nicolas Thouveny. (2011). Early Pleistocene Presence of Acheulian Hominins in South India. *Science*, Vol.331, pp. 1596-1599
12. Pappu, S. and A.Kumar 2006. Preliminary Observations on the Acheulian Assemblages from Attirampakkam, Tamil Nadu, in *Axe Age. Acheulian Toolmaking from Quarry to Discard*, (N.Goren-Inbar and G. Sharon Eds.), pp. 155-180. London:Equinox Publishing Ltd.
13. Pappu, S., 2007. Changing trends in the study of a Palaeolithic site in India: a century of research at Attirampakkam, in *The Evolution and History of Human Populations in South Asia, Inter-disciplinary Studies in Archaeology, Biological Anthropology, Linguistics and Genetics series* (M.D.Petraglia and B.Allchin Eds.), pp. 121-135. Dordrecht, Springer. *Anthropology, Linguistics and Genetics series* (M.D.Petraglia and B.Allchin Eds.), pp. 121-135. Dordrecht, Springer.
14. Pappu, S., Y. Gunnell, A.Kumar, R. Braucher, M. Taieb, F. Demory and N. Thouveny 2011. *Early Pleistocene Presence of Acheulian Hominins in South India*, *Science*, 25th March: 1596- 1599.
15. Sankalia, H.D. 1974. *The Prehistory and Protohistory of India and Pakistan*. Pune: Deccan College Postgraduate and Research Institute.
16. Settar, S. and R. Korisettar (eds). 2002. *Indian Archaeology in Retrospect Prehistory Archaeology of South Asia Vol. I*. Delhi: Indian Council of Historical Research and Manohar
17. Singh, Upinder. 2015. *A History of Ancient and Early Medieval India: From the Stone Age to the 12th century*. Delhi: Pearson.
18. xvii. Thapar, Romila. 1999. *From Lineage to State: Social Formations of the Mid-First Millenium BC in the Ganga Valley*. Oxford: Oxford University Press.