

## ANTHROPOLOGY

### B.A / B.Sc.(Honours) Anthropology

#### CBCS: BA(Hons.),B.Sc.(Hons.)

Core courses = 14 papers of 6 Credit each :100 marks each (5Units in each course)	400
Discipline Specific Elective (DSE) = 3 papers of 6 credit each: 100 marks each (5 Units in each course) And Project Report of 6 Credit: 100 Marks (Project 75 +Viva 25)	400
Generic Elective (GE) =4 papers of 6 credit each: 100 marks each (5 Units in each course)	400
Ability Enhancement Compulsory Course (AECC) =2 papers of 4 credit each 50marks each 100 (English Communication /MIL/Environmental Science)	100
Skill Enhancement Courses (SEC) = 2 papers of 4 credit each =50 marks each	100

Sem I :2 Core Courses-1AECC IGE = 4 papers = 350 marks

Sem II :2 Core Courses-1 AECC IGE = 4 papers = 350 marks

Sem III :3 Core Courses -1SEC IGE = 5 papers = 450 marks

Sem IV :3 Core Courses-1SEC IGE = 4 papers = 450 marks

Sem V :2 Core Courses-2 DSE = 4 papers = 400 marks

Sem VI :2 Core Courses -1 DSE Project Report = 4 papers = 400 marks

Total =26 papers = 2400 marks(148 Credits)

For Papers with Practical Component : Theory -70 (Mid seat 20-End Sem 50):

Practical 30(End Sem I here will be no mid sem exam for Practical paper,

For Papers with no Practical -100 marks paper =2- (Mid sem) -80 (End Sem :50 marks Paper =10  
(Mid Sem + 40(End Sem)

#### Subjects with Practical

Each the 14 Core Course 4 Discipline specific elective courses .And 4 Generic Elective Papers will minimum theory classes (lectures ) of 1 hour duration and minimum 20 practical classes (normally classes to Hons level are of 2hours duration each)

#### Subject without Practical

Each of the 4 Core courses 4 Discipline specific elective courses and 4 Generic Elective papers (100 marks each will have minimum 50 theory classes (Lectures) of I hour duration and minimum 10 tutorial classes .Ability enhancement (compulsory) and 2 Ability enhancement (Skill based) papers will have minimum 20 classes (lectures) each of 1 hour duration,

#### CBCS :B.A.(PASS.)

Core courses = 12 papers AECC = 2 papers, SEC=4 papers,DSE= 4 papers ,GE=2 papers,24 Papers  
(2100 Marks -132 credits)

To complete this programme ,a student has to take 4 Core Courses each in 2 disciplines of choice and two core papers each in English and MIL respectively,

**CBCS : B.Sc (Pass)**

Core Courses =12 papers AECC=2 Papers ,SEC =4 Papers,DSE- 6 Papers:24 papers (2100 Marks-132 credits)

To complete this programme a student has to take 4 Core Papers each in 3 disciplines of choice,

Core Courses:

Semister-1	C1:Induction to Biological Anthropology	C2: Induction to Socio cultural Anthropology	
Semister-2	C3:Archaeological Anthropology	C4: Fundamentals Human Origin & Evolution	

**CORE PAPERS**

Credits Paper X ( Theory + Practical) = 14 X (4+2) =84

C1 :Introduction to Biological Anthropology

**Theory**

**Credit -4**

Unit 1: History and development Modern biological Anthropology.Aim Scope And its Relationship With Other Biological Sciences . Application Of Biological Anthropology In The Service Of Mankind .

Unit-II: Origin Of Life And Evidence Of Organic Evolution . Theory Of Spontaneous Generation , Theory Of Extra Terrestrial Origin Of Life , Theory Of Eternity , Theory Of Creationism , Theory Of Catastrophism Evidence Of Organic Evolution , Morphological , Embryological And Palaeantogical Evidences ,

Theory Of Organic Evolution , Lamarckism ,Neolamarckism,Darwinism,Modern synthetic Theory.

Unit III: Mans Place in Animal Kingdom . The Order Primate Its Classification And Characterstics. Comparative anatomy and behaviors of human and non-human primates : Significance of non-human primate study in Biological Anthropology.

Unit-IV: Structure and function of an animal cell; cell theory and cell division. Essentials of Genetics ,Landmarks in the history of genetics principle in human genetics Mendel’s Laws of inheritance and its application to man ;Concept of race & UNESCO statement on Race; A comparative account of various races of the world.

**Credit-2**

1. Physiognomic facial height.
2. Morphological facial height.
3. Physiognomic upper facial height
4. Morphological Upper facial height
5. 13. Head circumference
6. Stature
7. Sitting height
8. Body weight

16. Facial form                    4.Eye form

Eye colour                        8.Skin colour

N R .I.(2012) Introduction to Physical Anthropology

H Publishing Co.,New Delhi

Exploring Biological Anthropology . The Essentials.

Exposition of the Four Statements on Race (1972) Issued.

Credit-4

C:2- Introduction to Socio-cultural Anthropology

### **UNIT-I**

Anthropological Perspective and orientation, scope and relevance of social anthropology; Relationship & social Anthropology with other disciplines.

### **UNIT –II**

Concept of society & culture ;Status & role . Social Organisation (Economic And political Organisation )

### **UNIT-III**

Social Institutions And Its Functions. (family , Marriage ,kinship,Descent)

### **UNIT-IV**

Theory and Practice of Ethnographic fieldwork ; Survey method comparative & Historical method.

## **CREDIT-2**

Methods and Techniques of Social Anthropology :

The Practical will include the following techniques and methods in collection of data in social Anthropology.

- (i) Observation ,(ii)Interview,(iii)Questionaired and Schedule (iv) Case study (v) Life history.

### **Suggested Readings:-**

1. Beattie J.(1964) Other Cultures London : Cohen & West Limited.
2. Bernard H.P. (1940) .Research Methods in cultural Anthropology, Newbury Park. Sage Publication.
3. Davis K.(1981)*Human Society* New Delhi; Surjeet Publication.
4. Delaney C.(2004) Orientation and disorientation .In Investigating Culture; An experiential Introduction to Anthropology .Wiley –Blackwell.
5. Ember C.R. et al.(2011) .Anthropology New –Delhi :Dorling Kindersley
6. Farraro G. and Andereatta S (2008) .In Cultural Anthropology; An Applied Perspective Beimont;Wardsworth.
7. Haviland ,Prins,Waltatin McBride (2007) Introduction to Anthropology.Cengage Learning India Pvt.Ltd. New Delhi
8. Haviland ,Prins,Waltatin McBride (2008) Cultural Anthropology.Cengage Learning India Pvt.Ltd.New Delh.

9. Karen O'reilly.(2012). "Practical Issues in Interviewing Ethnographic Methods Abingdon ; Routledge.
10. Lang G/(1956) .Concept of status and Role in Anthropology; *Their Definitions and Use. The American catholic Sociological Review.* 17(3) ;206-128
11. O'reilly K .(2012)Ethnographic Methods ;Abingdon Routledge.
12. Parsons T (1968) The Structure of Social Action .New York; Free Press.
13. Reppert N. and Overing J (2004) Key Concepts in Social and Cultural Anthropology .London/Routledge,
14. Reppert N. and Overing J (2004) Key Concepts in Social and Cultural Anthropology .London/Routledge,

### **C3 : Archeological Anthropology**

#### **Theory**

**Credit -4**

UNIT-1 : Introduction .Definition and scope of archaeological anthropology; Relation with other disciplines Methods of studying archaeological anthropology.

UNIT-II Methods of Estimation of Time and Reconstruction of the Past; Absolute dating methods: Radiocarbon 14 dating (C14) ,Potassium-Argon, Fission Track Dating ;Relating dating methods. Stratigraphy. Paleontology ,Palynology.

UNIT-III: Geochronology of Pleistocene Epoch; Glacial and Interglacial; Pluviation and Interpluviation; Different types of geoclimatic events.

UNIT-IV; Understanding Culture ,Technique of tool manufacture and estimation of their relative efficiency; Classification of Tools; primary and combination fabrication techniques : Earliest evidence of culture in the world. Konso ,Olorgesaila, Olduvai Gorge Pirro Nord,Damanisi ,Attirampakkam ,Isampur,Kuliana.

#### **Practical**

**Credit -2**

Typo –technological Analysis of Prehistoric Tools :Identification ,Interpretation and Drawings of the tool Type

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

#### **Suggested Readings:-**

1. Allchin and Allchin(1993) The Rise of Civilization of India and Pakistan, Cambridge University Press
2. Bhattacharya D.K.(1978).*Emergence of culture in Europe,Delhi*,B.R. Publication.
3. BhattacharyaD.K.(1979).*Old stone Age Tools and Technique* ,Calcutta ,K.P. Bagchi Company.
4. Bhattacharya D.K.(19796) .*Paleolithic Europe* ,Netherlands Humanities Press.
5. Champion et al.(1984) *Prehistoric,Europe* New York Academic Press.
6. Fagan B.M(1993)*People of Earth :An Introduction* ,Boston,Little,Brown & Company.
7. Phillipson D.W (2005) *African Archaeology,Cambridge* ,Cambridge University Press.
8. Renfrew C and Paul Bahn(1996)*Archaeology :Theories Methods and Practice* , Thames and Hudson.

9. Sankalia H.D.(1964) Stone Age Tools Poona Deccan College.

#### **C4: Fundamental of Human & Evolution**

##### **Theory**

**Credit -4**

**UNIT-1** : Primate origins and radiation with special reference to Miocene hominoids Ramapithecus , distribution ,features and their phylogenetic relationship.

**UNIT-II** : Australopithecines; distribution ,features and their phylogenetic relationships. Appearance of genus Home(Homo habilis) and related finds .Homo erectus from Asia, Europe and Africa : Distribution ,features and their phylogeneticstatus.

**UNIT-III**: The Origin of Homo sapiens :Fossil evidences of Neanderthals and Archaic *Homo sapiens*sapiens.

**UNIT-IV**; Origin of modern humans (Home sapiens sapiens): distribution and feature; Multi regional and Out of Africa theory : Hominisation process.

##### **Practical (any two)**

**Credit -2**

Cranimetry:	Maximum cranial length	Maximun cranial breadth
	Maximum bizygomatic breadth	Maximun Frontal breadth
	Manimum Frontal breadth	Nasal height
	Nasal height	Bi-mastoid breadth
	Greatest occipital breadth	Upper facial height
	Cranial index	Nasal index

Osteometry: Measurements of long bones:lengths,minimum /least circumference and caliber index.

Identification of casts of fossils of family hominidae : Drawing and comparison of Characteristics.

##### **Suggested Readings:-**

1. Beutne -Janusch(1996) Origins of Man Physical Anthropology ,John Wiley & Sons.Inc, New York, London,Sydney.
2. Conroy G.C.(1997) *Reconstructing Human Origins* : A Modern Synthesis W.W.Norton & company , New York, London.
3. Howell F.C.(1997) *Horizons of Anthropology Eds.S.Taz and L.G.Freeman* Aldine Publishing house Chicago.
4. Nystrom P .and Ashmore O (2011) .The Life of Primates .PHI Learning Private Limited New Delhi.
5. Seth P.K. and Seth S (1986) The Primates .Northern Book center,New Delhi. Allahabad.
6. Singh I.P. And Bhasin M.K.(1989) Anthropometry ;A laboratory Manual on Biological Anthropology Kamla-Raj,Enterprises ,Chawri Bazar ,Delhi.
7. Standford C.Allien J.S and Anton S.C (2012) *Biological Anthropology* ; The Natural History of Mankind PHI Learning Private Limited New Delhi.
8. Swindler D.R.(2009) *Introduction in Primates*.Overseas Press India Pvt.Ltd.,New Delhi

## B.A./B.Sc, in Anthropology

Sl.No	Core Paper	Theory	Practical
C1	Introduction to Biological Anthropology	✓	✓
C2	Introduction to Socio-cultural Anthropology	✓	✓
C3	Archeological Anthropology	✓	✓
C4	Fundamentals Human Origin & Evolution	✓	✓

Sl.No	Elective Courses	Theory	Practical
DSE7	Anthropology of Religion ,Politics and Economy (1 <sup>st</sup> semester & 2 <sup>nd</sup> semester)	✓	✓
DSE8	Tribal Cultures of India (3rd semester & 4 <sup>th</sup> semester)	✓	✓

### DSE 7. Anthropology of Religion ,Politics and Economy.

#### Theory

**UNIT-I ;** Anthropological approaches to understand religion-margin, animism, animatism's, totemism naturism, witchcraft and socreey;Religious specialists Shaman,Priests ,mystics Overview of Anthropological .Theories of Religion .Religion as the sacrality of ecological adaptation and socialness.

**UNIT-II :** Economic institutions:Principles of production ,distribution and consumption insimple and complex societies critical examination of relationship between economy and society through neo classical, substantives, and neo-Marxist approaches various forms for exchange ;barter, trade and market Forms of currencies reciprocities –generalized balanced and negative.

**UNIT-III:** Political institutions concepts of power and authority types of authority ,state and stateless societies ;Law and justice in simple and complex societies ,the prospects fordemocracy and tolerance among and within the world's diverse civilizations themeaning and sources of Identify in complex contemporary societies the origins of modern politics its institutions and cultures both Western and non-Western.

**UNIT-IV;** Interrelationship between religion politics and economy ;religious conversion and movements emergence of new religious sects in the global order.

#### Practical

#### Credit -2

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

#### Suggested Readings:-

1. Durkheim E (1986) The elementary forms of the religious life a study in religious sociology .New York Macmillan.
2. Benedict A (2006) Imagined communities :Reflections on the Origin and Spread of Nationalism Verso.
3. Glendill J (2006) Power and its Disguises Anthropological Perspectives on Politics 2<sup>nd</sup> ed.London Pluto Press.
4. Ellisj F(2000\_ A framework for livelihood analysis .In Rural Livelihood and Diversity in developing Countries Oxford Oxford University Press.

5. Henrich J, Boyd R, Bowles S, Camerer C, Fehr E, Gintis H, McElreath R, Alvard M et al. (2005) 'Economic Man' in cross-cultural perspective Behavioural Experiments in 15 small-scale societies Behaviour and Brain Science 28(6)765-815.
6. Henrich J (2002) Decision-Making cultural transmission and adaptation in economic anthropology in J E..
7. Henrich J (2002) Decision –Making cultural transmission and adaptation in economic anthropology in J Ensminger (Ed.) Theory I Economic Anthropology (pp251-295). Walnut Creek CA: Altamira Press.
8. Lambek M (2008) A Reader in the Anthropology of Religion.
9. Eller JD (2007) Introducing Anthropology of Religion New York Routledge.
10. Glazier SD (1997) Anthropology of Religion , a Handbook Westport,ct Greenwood Press.
11. Frick GD(1997) and Langer R (2010) Transfer and spaces. Harrassowitz (German).
12. Evens -Pritchard EE (1937) Witchcraft ,Oracles and Magic among the Azande, Oxford Clarendon press.
13. Frazer JG(1978) .The Illustrated Golden Bough London Macmillan.
14. Barbara M (2011) Cultural Anthropology New Jersey Pearson education.
15. Ember CR(2011) Anthropology New Delhi Dorling Kindereslay.
16. Herskovits MI. (1952)Economic Anthropology A study in Comperative Economics .New York. Alfred A Knofr inc.
17. Malinowski B (1922) Argonauts of the Western Pacific London,Routledge.
18. Polanyi K et. at (1957) Trade and Market in the Early Empires Chicago ;Henry Regnery Company .
19. Balandier G(1972) Political Anthropology Middlesex,Penguine.

### **DSE 8. Tribal Culture s of India**

#### **Theory**

**UNIT-I:** Concept of tribes and its problematic nature ,General and specific characteristic of tribes Classification and distribution of tribes based on their economy ,occupation and religion. Racial Elements among the tribes scheduled and non-scheduled category of tribes Particularly Vainerable Tribal Groups.(PVTGs).

**UNIT-II :** Tribes –caste continuum, Gender and Tribe Distribution of tribes in India.

**UNIT-III:** Tribes nomenclature –emic and etic differences :Tribal Movements problem of tribal development.

**UNIT-IV;** Forest policies and tribes ,Migration and occupational shift ,Tribal arts and aesthetics Displacement, rehabilitation and social change Globalization among Indian Tribes.

#### **Practical**

#### **Credit -2**

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

#### **Suggested Readings:-**

1. Behera D.K and Georg pfeffer contemporary Society Tribal Studies Volume I to VII ,New Delhi Concept Publishing Company.

2. Georg Pfeiffer Hunters Tribes and Peasant Cultural Crisis and Comparison Bhubaneswar :Niswas.
3. Vidarthy L.P. and Rai Applied Anthropology in India.
4. Vidarthy L.P. and B.N Sahay Applied Anthropology and Development in India.,New Delhi . National Publishing House.

Note : Student will write dissertation on the basis of 20 days Field Work in the nearby locality on any branch of Anthropology in 6<sup>th</sup> Semester .She /He will be supervised by one Teacher/teachers.

Generic Elective (GE)

For B.Sc. in Anthropology: Chemistry, Botany, Zoology, Geology, Geography ,Bio-Technology, Environmental Science, Psychology, Statistics Marine Science ,BCA.

For B.A. in Anthropology:-History, Political Science, Economics , Psychology, Geography, Sociology, Home science, Sanskrit, Odia, Philosophy and BBA (Health care Management) Tourism Administration.

**Ability enhancement Elective (skill Based)(SEC)**

SEC1 .Public Health and Epidemiology

SEC-3. Media Anthropology

SEC-2 Business and Corporate Anthropology

SEC-4 Tourism Anthology

SEC-5 Museology and Cultural Resource Management.

### **C5: Tribes and Peasants in India**

**Theory**

**Credit -4**

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

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

**UNIT-III:** Concepts of Indian Village. The concept of Peasantry . Approaches to the study of peasants- economic, political and cultural. Characteristics of Indian village : social organization ; economy and changes .Caste system and its changes in the Indian Society.

**UNIT-IV:** Ethnicity Issues :Tribal and peasant ,Movements; Identity issues.

**Practical**

**Credit -2**

Reading of Ethnography : Students are required to read and analyze any tow of the ethnographies (as listed below) and prepare a report based upon it. The report should be clearly link up the study with the concept of tribe and peasantry and delineate clearly the concept used in the text.

1. Research question s/objectives of the study and their relevance.
2. Theoretical schema
3. Methods and techniques used in the study.



4. Key findings and their significance in the context of the objectives of the study.
5. Critical analysis of the finding on the basis of contemporary available resources.

### List of Ethnographies:

Walker a (1986).*The Todas* ,Delhi, Hindustan publishing corporation verrier Elwin (1992).*The Muria and their Ghotul* USA Oxford University Press.

Malinowski M (1992) *Argonaunts of the Wstern Pacific* ,London ,Routledge and Kagan paul ltd.

Furer –Haimendorf C.V. (1939) *The Naked Nagas*. Londons Methuen and Co.

Evans –Pratchard E.E (1940) *The Nuer A description of the Modes of Livehood and Political Institutions of a Nilatic People* Oxford ;Clarendon Press.

Majundar DN (1950) *Affairs of tribes* Lucknow University Publishers Ltd.

Dube S.C. (1955) *Indian village* London Routledge and Kagan Paul Ltd.

Berreman G.D.(1963) *Hindus of the Himalayas* Berkeley;California University Press.

### Suggested Readings:-

1. Gupta D. (1991) *Social Stratification* Oxford University Press Delhi.
2. Madan V(2002) *The village in India* Oxford University Press Delhi.
3. Natham D. (1998) *Tribes –Caste Question* Simla IIAS.
4. *National Tribal Policy (draft)(2006)* Ministry of Tribal Affairs Government India.
5. Patnaik S.M (1996) *Displacement Rehabilitation and Social change* .Inter India Publication , Delhi.
6. Shah G.(2002) *social Movement and the state* Delhi Sage.
7. Shanin T (1987) *Peasants and Peasantry* .New York Blackwell.
8. Vidyarthi L.P. and Rai B.K. (1985) *Tribal Culture in India* New Delhi , Concept Publishing Company.
9. Wolf R (1966) *Peasants* NJ Prentice Hall.

## C6: Human Ecology

### Theory

**Credit -4**

**UNIT-I** : Concept of Ecology : Definition ,ecosensitivity ,adaptation ,acclimation ,acclimatization, biotic and abiotic component.

**UNIT-II** : Methods of studying human ecology .Adaptation to various ecologiactal stresses.Haet,cold. And high altitude ;Ecological rules and their applicability to human populations.

**UNIT-III**: Culture as a tool of adaptation, Various modes of human adaptation in pre-sate societies(i) Hunting and food gathering (ii) Pastoralism and (iii) Shifting cultivation and Agriculture and Peasantry.

**UNIT-IV**: Ecological themes of state formation: i. Neolithic revolution. ii .Hydraulic civilization. Impact of urbanization and industrialization of Man.

### Practical

**Credit -2**

Biological Dimensions

*Size and Shape Measurements*

- |                                |                                 |
|--------------------------------|---------------------------------|
| 1.Stature                      | 5. Total Upper Extremity Length |
| 2.Sitting Height               | 6. Nasal Breadth                |
| 3.Body Weight                  | 7.Nasal Height                  |
| 4.Total Upper Extremity Length |                                 |

**Size and Shape Indices (Any two)**

- |                           |  |
|---------------------------|--|
| 1.Body Mass Index         | 4.Relative Upper Extremity Length        |
| 2.Ponderal Index          | 5. Relative Total Lower Extremity Length |
| 3.Relative Sitting Height | 6.Nasal Index                            |

**Cultural dimensions:**

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

**Suggested Readings:-**

1. Human ecology : biocultural adaptation in human communities (2006) Schutkowski. H.Berlin. Springer Verlag.
2. Human ecology and cognitive style: comparative studies in cultural and physical adaptation (1976) Berry.J.B.New York :John Wiley.
3. Human Ecology (1964) Stepleton Faber & Faber.
4. Studies in human Ecology (1961)Theodorson, G.A.Row, Peterson & Company Elmsford, New York.
5. Human ecology (1973) Problem and solutions Paul R.Ehrlich.Anne H.Ehrlich and Jonj P Holdress. W.H. Freeman & Company San Francisco.
6. Cohen.Yehudt A 1968 Man in adaptation ;The cultural present Chicago :Aldine Pub.Co.
7. Redfield Rebert (1965) Peasant society and culture an anthropological approach to civilization .Chicago (u.a) Univ .of Chicago Press.
8. Symposium on man the hunter ,Richard B. Lee and Irven DeVore 1969.Man the hunter Chicago (Aldine Pub.Co)
9. Dave Deeksha & S.S. Katewa (2012) Text Book Of Environment Studies, Cengage Learning India Pvt.Ltd.Delhi.
10. Eugene P.Odum and Gary W Barrett(2004) Fundamentals of Ecology.Cengage Learning:5 edition.

## C7: Biological Diversity in Human Populations.

### Theory

### Credit -4

**UNIT-I** : Concept of Biological Variability; Race, Hardy-Weinberg Law; Sources of Genetic Variation; Structuring Genetic Variation Structuring Genetic, Variation, Interpretation of Human Variation, Genetic Polymorphism (Serological Biochemical and DNA Markers)

**UNIT-II** : Role of Bio-cultural Factors, Human Adaptability cultural Biology, Bio-Cultural factors influencing the diseases and nutritional status; Evolution of Human diet, Biological Perspectives of ageing process among different populations.

**UNIT-III**: Demographic, Perspective, Demographic, Anthropology; Sources of Demographic Data, Demographic processes Demographic Profile Of Indian Populations and its growth structure, Inbreeding and consanguinity –Biological Consequences of inbreeding, frequency of inbreeding in world populations Methods of Counselling..

**UNIT-IV**; Genetic diversity among Indian Population. A critical appraisal of contribution of Risley, Guha, Rickstett and Sarkar towards understanding ethnic elements in the Indian populations.

### Practical (Any two)

### Credit -2

1. Craniometric Measurements. (Skull & Mandible)
2. Determination of B.O. and Rh blood groups of the ten subjects.
3. Analysis and interpretation of finger ball pattern types, Palmer lines and pattern index  
Finger print classification and development of chance prints and statistical treatment of the data collected (Ten Subjects).
4. Collection of demographic data from secondary Sources.

### Suggested Readings:-

1. Baker P.T. and J.S Weiner (d) (1996) *The Biology of Human Adaptability*. Oxford & New York, Oxford university Press.
2. Bhande A and T.K Kantikar (2006) *Principles of Population studies*. Himalayan publishing House, Mumbai.
3. Bogin B. (1999) *Pattern of Human Growth*. 2<sup>nd</sup> edition CUP.
4. Cameron Noel and Barry Bogin (2012) *Human Growth and development*, Second edition Academic press Elsevier.
5. Eckhardt R.B (1979) *The study of human Evolution*. Mc.Grand Hill Book Company USA.
6. Frisancho R.(1993) *The Human Adaptation and accommodation*, University of Michigan Press.
7. Harrison G.A.Tanner .J.M.Pilbeam D.R.Baker P.T.(1988) *Human biology* Oxford University Press.
8. Jurmaim Robbort Lynn Kilgore Wenda Trevathan and Ciochon (2010) *Introduction of physical Anthropology* Wardsworth Publishing USA.
9. Kapoor A.K.and Satwanti Kapoor(ed)(1995)*Biology of Highlanders*, Jammu, Vinod Publisher & Distributor.
10. Kapoor A.K.and Satwanti Kapoor (eds.)(2004) *India's Elderly-A Multidisciplinary Dimension*. Mittal Publication New Delhi.
11. Klepinge L.L. (2006)*Fundamentals of Forensic Anthropology*. John Willey & Sons, New Jersey.
12. Malhotra K.C and B Balakrishnan (1996) *Human Population Genetics in India*.

13. Malina Robert M. Claude Bouchard.Oded. Bar–Or (2004) Growth and Physical Activity *Human Kinetics*.
14. Stanford C., Alien S.J. and Anton C.S. (2013) *Biological Anthropology*. 3<sup>rd</sup> edition Pearson USA.

### **C8: Theories of Culture and Society**

#### **Theory**

**Credit -4**

**UNIT-1** : Emergence of Anthropology : Interface with evolutionary theory and colonialism, changing Perspectives on Evolutionism. Diffusionism and culture area theories.

**UNIT-II** : Emergence of Field Work tradition Historical Particularism, American culture Tradition.

**UNIT-III**: Durkheim and Social Integration ;Functionalism and structural-fundamentalism and British Social Anthropology.

**UNIT-IV**; Structuralism : Claude Levi–Strauss and Edmund Leach; Symbolism and Interpretative approach.

#### **Practical**

**Credit -2**

As a part of the practical following exercises will be undertaken by the students so as to enable them to connect the theories they learn with things of everyday living.

1. To Identify a topic relating to contemporary issue and formulate research questions and clearly identify the theoretical perspectives from which they are derived.’
2. Identification of variables of a study.
3. Various types of hypotheses
4. Formulation of hypothesis
5. Distinction between hypothesis testing and exploratory research.
6. Identification of universe and unit of study with justifications
7. Choice of appropriate research technique and method in the context of theoretical framework.
8. Data collection and analysis.s

#### **Suggested Readings:-**

1. Applebaum H.A. (1987) *Perspectives in Cultural Anthropology*. Albany: State University of New York.
2. Barnard A. (2000). *History and Theories in Anthropology Cambridge*: Cambridge: University.
3. McGee R.J. and Warms R.L.(1996) *Anthropological Theories An Introductory History*.
4. Moore M. and Sanders T.(2006) *Anthropology in Theory :Issues in Epistemology* . Maldem MA.; Blackwell Publishing.

## **C9: Human Growth and Development**

### **Theory**

**Credit -4**

**UNIT-1** : Concept of human growth ,development differentiation and maturation, evolutionary Perspective on human growth (including living primates and fossil human ancestors).

**UNIT-II** : Prenatal (conception till birth) and postnatal (birth till senescence) period of growth pattern of normal growth curves, variation from normal growth (canalization ,catch up growth and catch down growth) ethnic and gender differences in growth curves ,secular trend.

**UNIT-III**: Bio-cultural factors(genetic, social,and ecological factors) influencing patterns of growth and variation methods and techniques to study growth. Significance / applicability of growth studies . Nutritional epidemiology-concept of balanced diet, impact of malnutrition (over and under) with special reference to obesity. Kwashiorkor and Marasmus ,Assessment of nutritional status.

**UNIT-IV**; Human physique and body composition –models and techniques ;gender and ethnic differences . Somatotyping and human physique with reference to Sheldon ,Parnell ,Health and carter methods,

### **Practical (Any Two)**

**Credit -2**

1. Growth status Somatometry (stature body weight mid upper arm circumference etc.)assessment of chronological age ,percentile ,z-score ,height for age,weight for age BMI for age.
2. Obesity assessment :General (BMI ,body fat % Consicity index,bbody adiposity indices) and regional adiposity indices(WC,WHR,WHTR)
3. Estimation of body composition (fat percentage and muscle mass) with skinfold thickness and bioelectric impedance.
4. Nutritional assessment through dietary pattern and anthropometric Indices.

### **Suggested Readings:-**

1. Bogin B(1999) patterns ofHuman growth ,Cambridge University Press.
2. Fraisancho R (1993) Human Adaptation and Accommodation ,University of Michigan Press.
3. Camaron N. and Bogin B.(2012) Human Growth and Development Second edition Academic Press, Elsevier.
4. Harrison GA. and Howard M (1998) Human Adaptation ,Oxford University Press.
5. Harrison GA.,Tanner JM., Pibeam. DR, Baker PT (1988) Human Biology ,Oxford University Press.
6. Jurmain R,Kilgore L, Trevatham W. Essentials of physical anthropology ,Wardsworth publishing.
7. Kapoor AK and Kapoor S.(1995) Biology of Highlanders, Vinod Publisher and Distributor.
8. Kathleen K (2008) Encyclopedia of Obesity. Sage.
9. Malina R.Bouchard C.Oded B (2004) Growth Maturation and Physical Activity ,Human Kinetics.
10. Mc Ardle WD. Katch Fl Katch VL(2001) Exercise Physiology, Energy, Nutriation and Human Performance.

11. Singh I, Kapoor AK, Kapoor S (1989), Mortho –physiological and demographic status of the Western Himalayan population. In Basu and Gupta (eds.) Human Biology of Asian Highland Populations in the global context.
12. Sinha R. and Kapoor S (2009) Obesity : A Multidimensional approach to contemporary global issue Dhanraj publishers Delhi..

### **C10: Research Methods**

#### **Theory**

**Credit -4**

**UNIT-1 :** Field work tradition in Anthropology ;Ethnographic approach ,Contribution of Malinowski , Boas and other pioneers ,cultural relativism ,ethnocentrism , etic and emic perspectives comparative and historical methods, techniques of rapport establishment identification of representative categories of informants , maintenance of field diary and logbook.

**UNIT-II :** Research Design ,review of literature ,conceptual frame work formulation of research problem formulation of hypothesis, sampling, tools and techniques of data collection ;Survey method. Observation, Questionnaire ,Schedule, Interview ,Case study ,Life history and genealogy data analysis and report writing-Chapterization , preparing 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.

**UNIT-III:** Ethics and Politics of Research. Identify, define and analyze ethical issues in the context of human subject research: ethical importance of consent .privacy and confidentiality in research; Issues of academic fraud and plagiarism ,conflicts of interest authorship and publication.

**UNIT-IV;** Bio-statistics , Guiding ideals and critical evaluation of Major approaches in research methods basic tenets of qualitative research and its relationship with quantitative research; Types of variables, presentation and summarization of data(tabulation and illustration).Descriptive statistics – Measures of Central Tendency. Measure of Variation .Skewness and Kurtosis, Variance and Standard deviation Normal and binomial distribution.tests of Inference –Variance ratio test. Student’ ‘ t’ tests, Chi-square test.

#### **Practical**

**Credit -2**

1. Construction of genealogy & Pedigree Analysis.
2. Observation ; Direct Indirect participant Non-participant, Controlled.
3. Questionnaire and Schedule; Interview-Unstructured, structured, Key, informant interview, Focused Group Discussion and free listing–pile sorting.
4. Case study and life history.

#### **Suggested Readings:-**

Garrard E and Dawson A What is the role of the research ethics committee? Paternalism inducements and harm in research ethics .Journal of Medical Ethics 2005;31;419-23.

Bernard H.R. Research methods in Anthropology ,Qualitative and Quantitative Approaches Jaipur Rawat Publication .2006

Madrigal L . Statistic for Anthropology, Cambridge, Cambridge University Press.2012.

Zar JH .Biostatistical for Analysis ,Prentice Hall 2010.

Michael A The Professional Stranger Emerald Publishing 1996.

Bernard R Research Methods in Anthropology : Qualitative and Quantitative Approaches. Alta Mira Press-2011.

Emerson RM Fretz RI and Shaw L. Writing Ethnographic Field note Chicago, University of Chicago Press. 1995.

Lawrence NW Social Research Methods, Qualitative and Quantitative Approaches Boston, Allyn and Bacon 2000.

O'relly K. Ethnographic Methods London and New York Routledge 2005.

Patnaik S.M. Culture Identity and Development; An account of Team Ethnography among the Bhil of Jhabua , Jaipur; Rawat Publication 2011.

Pelto PJ and Pelto GH. Anthropological Research. The Structure of Inquiry, Cambridge, Cambridge University Press.1978.

Sarantakos S Social Research London : Macmillan Press.1998.

### **C11: Prehistoric Archaeology of India**

**Theory**

**Credit -4**

#### **UNIT-1 : Pleistocene Chronology of India ;Paleolithic culture in India.**

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

#### **UNIT-II : Mesolithic cultures in India .**

Mesolithic cultures in India (characteristic features Major tool types important sites regions and sites chronology with stratigraphic evidence) Some important sites of Odisha may be discussed on the above cultural periods .

#### **UNIT-III: Neolithic cultures in India**

Neolithic culture in India characteristic features Major tool types important sites regions and sites chronology with stratigraphic evidence) Some important sites of Odisha may be discussed on the above cultural periods .

#### **UNIT-IV; Rock art of India**

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

**Practical**

**Credit -2**

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

### Suggested Readings:-

1. Agarwal D.P. 1984, *Archaeology of India*, New Delhi :Select Book services Syndicate.
2. Allchin Briget and Raymond Allchin 1982.*The rise of Civilization in India and Pakistan*, Cambridge, Cambridge University Press.
3. Allchin B.and R Allchin 1997 *Origins of Civilization :The Prehistory and early Archaeology of South Asia* .New Delhi Viking by Penguin Books India (p) Ltd.
4. Bhattacharya D.K.1990 *An Introduction to Prehistoric Archaeology Delhi* ,Hindustan Publishing Corporation.
5. Bhattacharya D.K.2001 *An Outline of Indian Prehistory Delhi* ,Palaka prakashan.
6. Chakrabati D.K. 2001 *India an Archaeological History Palaeolithic beginning to Early Historic foundation* New Delhi Oxford University Press.
7. Jain V.K.2009 *Prehistory and Protohistory of India* New Delhi D.K. Print world (P)Ltd.
8. Paddayya K.(Ed.)2002 .*Recent Studies in Indian Archaeology* .New Delhi.
9. Pappu R.S.2001 *Aheulian Culture in Peninsular India—an Ecological Perspective* New Delhi.D.K. Printworld(P) Ltd.
10. Rammi Reddy V 1987 *Elements of Prehistory* ,New Delhi Mittal Publications.
11. Rammi Reddy V 1989 *Palaeolithic and Mesolithic cultures*,New Delhi Mittal Publications.
12. Rammi Reddy V 1991 *Neolithic and Post-Neolithic cultures*,New Delhi Mittal Publication .
13. Sankalia H.D. 1974 *Prehistory and Protohistory of India and Pakistan* Pune : Deccan college.
14. Sankalia (1982) *Stone Tool Type and technology* Delhi ,B.R. Publication.
15. Settar S and R Korisetter (Ed) 2001 *Indian Archaeology in Retrospect Vol.I. PREHISTORY. Archaeology of south Asia* ,New Delhi. Manohar in association with Indian Council of Historical Research.

### C12: Anthropology in Practice

#### Theory

#### Credit -4

**UNIT-1:** Academic Anthropology : Academics and Practitioners: Differences,Structure. Activities Controversies and Issues :Applied Anthropology,Action Anthropology and Development Anthropology..

**UNIT-II : Role of** Anthropology in Development “Anthropology and Public Policy Need Assessment and Community Development, Anthropology of NGO’s Business Anthropology. Environment and Community Health ,Social Economic sustainbaliti ,Cultural resource management

**UNIT-III:** Future Dynamics I n Anthropology. Trends Anthropology; Anthropology of Tourism Anthropology I n Census, Designing And Fashion .Visual Anthropology.

**UNIT-IV; Biosocial** Anthropology in practice ;Bio-social elements of human development at National and International Level application of conceptual frame work of Forensic Anthropology in judicial setting both criminal and civil .Population Dynamics and relationship between population growth and various aspects of culture such as means of substance, kinship,social complexity social stratification and political organization ,Bio-social counseling of an Individual or population .

#### Practical

#### Credit -2

1. The students will visit a NGO or corporate office or census office in Odisha and its adjoining area and write principal observations on the same.
2. Write a project on constitutional provisions of evaluation of any development project report.



3. Draw a scene of crime and Identify the various evidences in a portrayed Crime scene.
4. Write a Project on Religious Tourism /Tribal Tourism /Health Tourism /Fashion /Human rights /Ecotourism.
5. Write a project on the demographic profile from secondary data.
6. Collect data on bio-social problem and design counseling and give the analysis and interpretation.

### **Suggested Readings:-**

1. Arya A and Kapoor AK (2012) Gender and Health Management in Afro-Indians Global Vision Publishing House New Delhi.
2. Kartzar DI and Fricle T.(1997) Anthropological Demography .University of Chicago Press.
3. Basu A. and P. Aaby (1998).The Methods and the Uses of Anthropological Demography 329PP.Oxford Clarendon Press.
4. Carter A. (1998) Cultural Models and Demographic Behaviour . In The Methods and the Uses of Anthropological demography edited by Basu A and Aaby P. Oxford Clarendon Press pp246-268.
5. Census of India (2001-2011) and National family Health survey (2006-2010).
6. Ervic Alexander M.(2000) Applied Anthropology:Tools and Perspectives for Contemporary Practice , Boston, MA:Allyn and Bacon.
7. Erwin a (2004) Applied Anthropology Tools and Practice ,Allyn and Bacon.
8. Gupta S and Kapoor AK. (2009) Human Rights among Indian Population ,Knowledge Awareness and Practice Gyan Publishing House New Delhi.
9. Willen SS (2012) Anthropology and Human Rights: Theoretical reconsideration and Phenomenological Explorations Journal of Human Rights 11:150-159.
10. Goodale M(2009) Human Rights: An Anthropological Reader. Wiley Blackwell.
11. Gupta S. and Kapoor AK.(2007) Human Rights Development and Tribe. In Genes Environment and Health - Anthropological Perspectives K. Sharma R.K. Pathak .S. Mehra and Talwar (eds.) Serials Publications House, New Delhi.
12. Margeret AG.(2003) Applied Anthropology A Career –Oriented Approach Boston,MA Allyn And Becon.
13. Halbar BG and Khan CGH(1991) Relevance of Anthropology-The Indian Scenario Rawat Publications Jaipur.
14. Kapoor AK(1998) Role of NGO's in Human Development :A Domain of Anthropology J. Ind Anthropol Soc:33;283;300.
15. Kapoor AK and singh D (1997) Rural Development through NGO's Rawat Publications Jaipur.
16. Klepinger LL. (2006) Fundamentals of Forensic Anthropology Wiley-Liss Publications.
17. Kumar R K and Kapoor AK(2009)Management of a Primitive Tribe : Role of Development Dynamics Academic excellence,Delhi.
18. Mahrotra N. and Patnaik SM(2008)Culture versus Coercion. The Other Side of Nirmal Gram Yojna Economic and Political weekly PP25-27.
19. Mishra RC(2005) Human Rights in a Developing Society, Mittal Publications Delhi.
20. Noaln RW.(2002) Anthropology in Practice .Building a Career outside the Academy publishing Lyrine Reinner.
21. Patnaik SM.(1996) Displacement. Rehabilitation & Social Change, Inter India Publications New Delhi
22. Patnaik SM.(2007) Anthropology of Tourism insights from Nagaland. The Eastern Anthropologist 60 (3&4)455-470.

23. Srivastav OS (1996) Demographic and Population studies ,Vikas Publishing House. India.
24. Vidyarthi LP. and BN. Sahay (2001) Applied Anthropology and Development in India, National Publishing House ,New Delhi.
25. Vidyarthi LP. (1990) Applied Anthropology in India-Principles ,Problems and case studies, Kitab Mahal U.P.
26. Vidyarthi V (1981) Tribal development and its administration .Concept Publishing company ,New Delhi.

### **C13: Forensic Anthropology**

#### **Theory**

**Credit -4**

**UNIT-1:** 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 .Discovery and Techniques for recovering skeletal Human Remains.

**UNIT-III:** Personal Identification Complete and Partial Identification . Methods of Identification in Living Persons Somometry , Somatoscopy ,Occupational ,Marks scars Bite, Marks, Tattoo, Marks, Fingerprints, Footprints Lip Prints ,Nails, Handwriting deformities and Others.

**UNIT-IV;** Serology Identification and Individualization of bloodstain ,Urine ,semen and Saliva Patterns of Bloodstains ,Individualizations: Forensic Odontology –Tooth structure and Growth Bite Marks facial Reconstruction DNA Profiling.

#### **Practical**

**Credit -2**

- 1 Study of Human Lung Bones ,estimation of Age, sex and stature from bones.
- 2 Somatometric and Somatoscopic Observation on living Persons.
- 3 Identification of Bloodstain ,Urine,Semen and saliva.
- 4 Examination of fingerprints and Handwriting.

#### **Suggested Readings:-**

1. Bass W.M.(1971) *Human Osteology* :A laboratory and field Manual of the Human skeleton. Columbia special Publications Missouri Archaeological Society.
2. Blacks S. and Ferguson E.(2011) *Forensic Anthropology 2000 to 2010* CRC Press London.
3. Byers S.N.(2008) *Forensic Anthropology Boston* : Pearson Education LTD.
4. Gunn A (2009)*Essential Forensic Biology* (2<sup>nd</sup> ed) chichester ,Wiley Blackwell.
5. Modi R.B.J.P.(2013) *A textbook of Medical Jurisprudence and toxicology* ;Elsevier.
6. Reddy V.R. (1985) *Dental Anthropology*. Inter -India Publication ,New Delhi
7. Spencer C (2004) *Genetic Testimony A.Guide to Forensic DNA Profiling* , Pearson New Delhi.
8. Vats Y. Dhall J.K. and Kapoor A.K.(2011) Gender Variation in Morphological Patterns of Lip Prints among some North Indian Population *J. Forensic Odontology* 4:11-15.
9. Wilkinson C (2004) *Forensic facial Reconstruction*, Cambridge University Press.

## C14: Anthropology of India

### Theory

Credit -4

**UNIT-I :** Origin history and development of Anthropology in India approaches to study Indian society and culture –traditional and contemporary Racial and linguistic elements in Indian Population Understanding the diversity of Indian social structure –concept of Varna ,Jati, Caste. Ashram or purusharatha , gender ,hierarchies –their economic and cultural impact,origin and evolution of Social structures and their underlying philosophies .,Contribution of Contemporary biological social and Archaeologicalanthropologists in India.

**UNIT-II :** Aspects of Indian village –social ,organization, agriculture and impact of market economy on villages ;Tribal situation in India –biogenetic ,linguistic and socio-economic characteristics .Problems of tribal peoples ,land-alienation, indebtedness ,lack of education facilities ,shifting-cultivation migration, forests and tribal unemployment ,health and nutrition tribal movement and quest for identity.

**UNIT-III:** Development projects –tribal displacement s and rehabilitation problem :Impact of culture contact ,urbanization and industrialization on the tribal and rural Population .Basic concept –Great tradition and little tradition ,sacred complex ,Universalization ,and parochialization, Sankritization and Westernization,Dominant caste,Tribes-caste; continuum,Nature–man–spirit complex, pseudotribalism.

**UNIT-IV;** Problems of exploitation and deprivation of scheduled caste/ tribe and other Backward class. Constitutional Provisions for the scheduled caste and scheduled tribes. Evaluation and Development of Indian Population .Human Rights Protection and enforcement of Human rights . Human rights of special category and marginal groups .Emerging trends of human rights with respect of terrorism globalization and environment.

### Practical

Credit -2

1. Identify various traits/variables which can be used in racial classification and comment on its relevance.
2. Review a book/edited volume on Indian social structure such as caste , religion ,tribe or rural population and give its salient features.
3. Explore the biological diversity of any population group considering a minimum of five genetic traits.
4. Highlight the contributions of any two contemporary Indian anthropologists.

### Suggested Readings:-

- 1 Nicholas D (2001) Castes of Mind ,Colonialism and the Making of Modern India Princeton University Press.
- 2 Bernard CS(2000) India :The Social Anthropology of Civilization Delhi, Oxford University Press.
- 3 Bhasin MK Watter H. and Danker –Hopfe H (1994) People of India –An Investigation of Biological variability in Ecological .Ethno-economic and Linguistic Groups ,Kamla Raj Enterprise Press,Delhi.
- 4 Lopaz DS (1995) Religions of India in Practice ,Princeton University Press.
- 5 Gupta D Social Stratification Delhi ,Oxford University Press.
- 6 Karve I (1961) Hindu society : AN Interpretation Poona,Deccan College.
- 7 Guha BS.(1931) The racial attributes of People of India .In Census of India 1931 vol.I.Part III (BPO.Simla)

- 8 Trautmann TR(2011) India.Brief History of Civilization Oxford University Press Delhi.
- 9 Vidyarthi LP and Rai BK(1976) The tribal culture of India Concept publishing , Delhi.
- 10 Haddon AC(1929) races of man Cambridge University London.
- 11 Kapoor A,K,(1992) Genetic Diversity among Himalayan Human Populations M/S Vinod Publisher Jammu.
- 12 Manjundar DN (1901) Races and Culture of India Asia Publishing House ,Bombay.
- 13 Dube SC(1992) Indian Society ,National Book Trust India, New Delhi.
- 14 Dmont L (1980) Homo Hierachicus University of Chicago Press.
- 15 Guha BS.(1931) The racial attributes of People of India .In Census of India 1931 vol.I.Part III (BPO.Simla).
- 16 Malhotra K,C.(1978) Morphological Composition of People of India ,J.Human Evolution.

### **ELECTIVE COURSES (DSE)**

**Credits: Any four papers =Theory+ Practical =(4+2)\*4=24  
(Including one Project Report)**

#### **DSE1.Physiological Anthropology**

#### **Theory**

**UNIT-1** Fundamentals of work physiology ,homeostasis metabolism and energy and system ,exercise respiratory system and haemodynamics (blood pressure ,pulse rate, and oxygen –transporting system ,blood flow., Hb, heamatocrit etc.)

**UNIT-II :** Acute physiological adjustments during transition from resting homeostasis to sub-maximal and maximal exercise chronic physiological adaptations to exercise training age, sex, and population variation in the physiological characteristics.

**UNIT-III:** Cardio-vascular and respiratory endurance ,physical working capacity and physical fitness –evaluation of response and assessment ;Relationship of body measurement with cardio-vascular and respiratory functions aerobic and anaerobic exercise training ,health related fitness in gender and ethnic group .,Principles of effective physical conditioning techniques.

**UNIT-IV;** Impact of smoking ,alcohol, drug, pollution and occupation on cardio-respiratory functions physical performance and environmental stress chronic diseases,malnutrition lifestyle disease factors affecting physical performance and capacity relation between physique .body composition , nutrition and performance, ageing and health related aspects of exercise.

#### **Practical(Any Two)**

**Credit -2**

1. Cardiovascular function (Blood pressure ,heart, rate, pulse rate)
2. Respiratory function (Tidal volume,vital capacity ,forced vital capacity, minute ventilation etc)
3. Haemoglobin estimation.
4. Step-test  
Treadmill test.

#### **Suggested Readings:-**

1. MaArdle WD. Katch FI and Katch VI.,(2010),Exercise Physiology, Nutrition, Energy and Human Performance Lippincott William &Wilkins.

2. Powers SK and Howley ET (2007) Exercise Physiology :Theory and Application to Fitness and Performance .McGraw–Hill.
3. Sherwood L.(2008) Human physiology :from cells to Systems BrooksCole.
4. Case RM.(1985) ,Variation in Human Physiology Manchester University Press.
5. Vander AJ Sherman JH ad Dorothys L. (1978) Human physiology : The Mechanisms of Body functions McGraw –Hill.
6. Nageswari KS and Sharma S.(2006),Practical Workbook of Human Physiology. Jaypee Brothers Medical Publisher.
7. WIldmaler EP Raff H.Strang KT.(2014) Vander’s Human Physiology . The mechanisms of Body McGraw –Hill Education.
8. Hale T(2003) Exercises physiology England ;John Wiley & Sons Inc.

## **DSE 2. Sports and Nutrition Anthropology**

### **Theory**

UNIT-1 Anthropology of sports -Physical fitness , component of physical fitness.

UNIT-II : Physical Conditioning training –techniques and physiological effects environmental effects on physical performance effect of heat stress ,cold stress and high altitude on physiological response and performance.

UNIT-III: Body composition and Athletes ,sports selection and monitoring.

**UNIT-IV;** Human biological variability ,health and nutrition doping and performance; cultural construction and physiologic implications of food across time space and society ,an integrated bio-behavioural perspective towards food preference.

### **Practical(Any Two)**

**Credit -2**

1. Assessment of daily nutrient intake (Weighting method)
2. Evaluate association of nutritional status and physical performance.
3. Demonstrate cultural Perspective for preference of specific food of a population.

### **Suggested Readings:-**

1. Stinson S.(1992) Nutritional Adaptation Annual Review of Anthropology 21;143-170
2. Brughart R .(1990) The cultural context of Diet ,Disease and the Body .In Diet and Diseases in Traditional and Developing Societies ,GA Harrison and JC Eater low ,eds. P 307-325 Cambridge University Press, Cambridge.
3. Rozin P. (1987) Psychobiological Perspectives o Food Preference .In Food and Evolution ;Toward a Theory of Food Habits. M Harris and EB Ross(eds)Temple University Press Philadelphia pp.181-205.
4. Quandt SA (1987) Methods for determining Dietary .Intake. In Nutritional Anthropology ed Pp 67-84 Liss NY.
5. Ulijasek SJ and Strickland SS (1993) . In Nutritional Anthropology ;Prospects and Perspectives Pp1-5 Smith Gordon London.

## **DSE 3. Human Genetics**

### **Theory**

UNIT-1 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 transcriptions and RNA processing encoding genetic information decoding the codons the role of transfer RNAs.

UNIT-III: Methods of genetic study inhuman Pedigree analysis and expressivity ; Chromosomal Basis of Genetic Disorders (Karyotypes and identification of chromosome variation .Nucleic Acid Hybridization Assays ,cytogenetic mapping). Genetic mapping (Microsatellite and other DNA polymorphisms).LOD core sequencing strategies (PCR based Sangar sequencing to Exome sequencing ) concept of non -mendelian inheritance and complex diseases.

**UNIT-IV;** Genomic Diversity & Human Evolution ,Genomic Variation Genomic Polymorphisms (SNPs, VNTR CNVs etc) haplotypes and haplogroups ;genotype –phenotype correlations, epigenetic ,Peopling of the Indian .Subcontinent :Evidence from mt DNA and Y-chromosome .evolutionary genetics Molecular evolution DNA sequence variation and human origins.

**Practical(Any Two)**

**Credit -2**

- 1 Blood Collection transportation and storage in field.
- 2 DNA extraction from whole blood.
- 3 DNA Quantification .Aliquotting and sample preparation.
- 4 PCR and electrophoresis.
- 5 Gel documentation.

**Suggested Readings:-**

- 1 Strachan T and Read AP (2004) Human Molecular genetics ,Garland Science.
- 2 Brown TA(2007) Genomes Garland Science.
- 3 Griffiths AJF (2002) Modern Genetics Analysis :Integrating Genes and genomes WH Freeman Press.
- 4 Griffiths AJF Wessler SR Carroll SB Doebley J (2011) An Introduction to Genetic Analysis Macmillan Higher Education.
- 5 Cavalli-sforza LL ,Monozzi P Piazza A(1994) History and Geography of Human Genes Princeton University.
- 6 Cumming Michael R(2009) Human Genetics Cengage Learning India Pvt. Ltd Delhi.
- 7 Cumming Michael R(20011) Human Heredity Principles and Issues .Brooks .Cole Cengage Learning .
- 8 Gilblett ER (1969) Genetic Markers in Human Blood Blackwell Scietific Oxford.
- 9 Jobli ng M Harls M and Tyler-Smith C (2004) Human Evolutionary Genetics ,Origins Peoples & Disease <New York Garland Science/
- 10 Lewis R.(2009) Human Genetics : Concepts and Application .TheMcgraw-Hill Campanies, Inc.
- 11 Patch C.(2005) Applied Genetics in Health care Taylor & Francis group.
- 12 Snustad D.P. and Simmons M.J. (2006) Principles of Genetics ,Fourth Edition ,John Wiley & Son USA,
- 13 14. Verma P.S. and V.K. Aggarwal (19740 ,Cell Biology ,Genetic , Molecular Biology , Evolution and Ecology.S.Chand and Company Pvt.Ltd,New Delhi.
- 14 Vogel F and Motulsky A.G.(1996) Human Genetics Springer,3<sup>rd</sup> revised edition.

## DSE 4. Neuro Anthropology

### Theory

**UNIT-I:** Enculturation and Behaviour, Neuroanthropology., Holism ,The Basics of Neuro-anthropology. The Nature of Variation .Overview of Brain ,Neural Systems & Their interconnections . Niche construction .Theory Evolution and Brain ,Social Cognitive Development Culture and Socialization.

**UNIT-II :** Balancing Between cultures :Human capacities ,Skills and Variation :Male embodiment in subsistence societies Overcoming Mind .Body Dualism..

**UNIT-III:** War and Dislocation Neuroanthropological model of Trauma .Autisms theory of mind and religious development culture consonance Consciousness and depression Neuroconstructivism and Embodied Learning ,Human Development .A Biocultural Process Enculturation and Memory .The Neuroanthropology of stress. The Neuroanthropology of PTSD (Post traumatic stress disorder) Psychiatry in Neuroanthropological. Perspective Addiction and Neuroanthropology.

**UNIT-IV;** Neurological and Anthropological Methods Neuroanthropology Applied ,Critical Neuroscience The Social and Personal Uses Neuroscience.

### Practical(Any Two)

**Credit -2**

1. Case Studies on Human behavior Capacities ,Skills and Variation (Or,a case study report on understanding addiction using. Neuroanthropology)
2. Prepare a report on socio-cultural and biological perspective of human behaviour and Inter Individual variation.
3. Somatometric measurements of human skull and relation with neural activity.
4. Class blog participation :Once every week ,each student will be responsible for finding one source in the Popular .lay press that's related to the topic for that week (e.g.,from newspapers, news magazines, Science magazine), and introducing a brief online discussion about what it says and why it's relevant.
5. A report on Disorder and its case study on any disorder and a report in Neuro- anthropological perspective.

### Suggested Reading:-

1. Downey (2008) Balancing Between Cultures ,in The Encultured Brain,J.,of Neuroanthropology.
2. Downey (2010) Practice without theory: A Neuroanthropological Perspective on Embodied Learning JRAI.
3. Miller & Kinsbourne (2011) Culture and Neuroscience in Development Psychology contributions and Challenges Child Development Perspective [.http:// online libraty.wiley.com/dot/10/1111/k.1750-8606.2011.00199.x/abstract](http://online.libraty.wiley.com/dot/10/1111/k.1750-8606.2011.00199.x/abstract).
4. Worthman (2010) The Ecology of Human development Evolving Models for cultural Psychology (required for 500 level optional for 400 level. <http://jcc.sagepub.co.m.content/41/4/546.abstract>.
5. Davidsson & McEwen (2012) Social Influence in Neuroplasticity :Stress and Interventions to promote well Being J of Nature Neuroscience. <http://www.nature.com/neuro.journak.v15/n5.full/nn.3993.html>.
6. Bonanno et al.(2011) Weighting the Costs of Disaster consequences Risks and Resilience in individuals Families and Communities .Association for psychological

- science Luhrmann(2012) Beyond the Brain  
[.http:// www.wilsonquarterly.com article .cfm/AID-2196.](http://www.wilsonquarterly.com/article.cfm/AID-2196)
7. Kirmayer & Gold (2012) Re-Socializing Psychiatry :Critical Neuroscience and the limits of Reductionism in Critical Neuroscience .Blackwell Reference online.
  8. Lende and Downey (2012) The Encultured Brain A Introduction to Neuroanthropology Cambridge, Massachusetts Institute of Technology Press.
  9. Goldine & Marrick (2012 )Neuroscience Neurobabble. [http://www.stars.org/stories /2012/Neuroscience Or Neurobabble \\_jul16.12html.](http://www.stars.org/stories/2012/Neuroscience%20Or%20Neurobabble_jul16.12.html)
  10. Margulies (2011) The Salmon of Doubt in Critical Neuroscience.
  11. Lende (2012) Neuroanthropology Applied research and Developing Interventions [.http://blogs.plos.org/ neuroanthropology/2012/05/10 neuroanthropology-applied research-and –developing –interventions/](http://blogs.plos.org/neuroanthropology/2012/05/10_neuroanthropology-applied-research-and-developing-interventions/)
  12. Buchowski et.al.(2011) Aerobic Exercise Training Reduces Cannabis Craving and Use in Non-Treatment Seeking Cannabis-dependent Adults . <http://www.plosome.org/article.info%3Adi%2F10.1371%2Fjournal.pone.0017465> [http://www.mc.vanderbilt.edu/news .releases.php/release=2014.](http://www.mc.vanderbilt.edu/news_releases.php/release=2014)
  13. Xue et al/(2012) A Memory Retrieval-Extencion Procedure to prevent Drugs Cravingnda Relaps .<http://www.sciencemag.org/content.335/6078/241/ful/>

## **DSE 5. Forensic Dermatoglyphics**

### **Theory**

**UNIT-I :** Introduction to Dermatoglyphics: History and Development,scope and Application.

**UNIT-II :** Formation of Fingerprint ridges,pattern types and patterns area, Classification on Fingerprints-Henry Classification ,Vucetich System.Single –Digit Classification.

**UNIT-III:** Types of fingerprints Plastic,Visible and Latent prints Conventional and Modern methods for Development of latent fingerprints –Silver Nitrate, Ninhydrin,Iodine,Fuming ,Powder Methods Metal Deposition Methods.Small Particle reagent and Laser Techniques.

**UNIT-IV;** Basis of Fingerprints Comparison ,Class characteristics ,and Individual ,Characteristics Determination of Identity . Other Dermatplyphic Patterns ,PalmPrint.Sole Prints and Toe Prints ,Recent advances : Fingerprint and Palmprint Recognitiona Automated Fingerprint Identification System.

### **Practical(Any Two)**

**Credit -2**

1. Recording and Study of finger and Palm Prints.
2. Determination of Palmar main line formula .Ridge count and Indices.
3. Comparison of Fingerprints and palmprints on the basis of class and individual ridge characteristics.
4. Development of latent fingerprints using different chemical and powder Methods.

### **Suggested Readings:-**

1. Cowger J.F (1992) Friction ridge skin comparison and Identification of fingerprints (Vol .8) CRC Press,
2. Cammins H.& Midlo C (1961) Finger Prints palm and soles. An introduction to dermatoglyphics (vol.319) New York.Do ver Publication.



3. Jain A.K. Flynn.P.,& Ross.A.A. (2007) Handbook of biometrics .Springer Science & Business Media.
4. Lee H.C. Remotowski r.. & Gaensslen R.E.(Eds) (2001) Advances in fingerprint technology CRC Press.
5. Berry J. & Stoney D.A (2001) The History and development of fingerprinting Advances in fingerprints technology 2.13-52.
6. Mehta M,K. (1980) Identification of thump impression and cross examination of Fingerprints N.M. Tripathi Publication Bombay.

## **DSE 6. Paleoanthropology**

### **Theory**

**UNIT-I:** Dating methods ,geological time scale. taphonomy and interpretation of the paleontological and archaeological records taxonomic and chromological problems of fossils records.

Evolutionary biology ,Origins and evolution of stone age technology (Human Origins ,Development distribution and fossilized evidence of Australopithecines ,Paramthropus (Zinjanthropus)Homo habilis, Homo erectus, Archaic H sapiens,prehistoric,hunter–gatherers,modern pastoral communities , emergence of prehistoric people in Africa.

**UNIT-II :** Primate and Non-Primate ,Models for Early Hominid Behaviour ,Hominization process – Evolution of hominid-human Bipedalism. Primate speciation and extinctions ageological perspective adaptive primates radiation, differential rate of somatic evolution.

**UNIT-III:** Palaeodemography–reconstruction of population patterns from skeletal analysis, determination of demographic variables in prehistoric populations and post-noelithic population growth theory and techniques in paleodemography,Methodological issues for reconstructing demographic structure,demographic models of mortality and their interpretation..

**UNIT-IV;** Palaeodemography-bioarchaeological approach of disease effects of agriculture ,urbanization ad slavery on health and disease ,colonization and diseases with special emphasis on the New World ;dispersion of modern humans –molecular and morphological patterns of relationship.

### **Practical**

**Credit -2**

1. Comparative primate osteology.
2. Description and Identification of the disarticulated skeleton of non-human primates.
3. Identification and description of fossil casts.
5. Excursion to a site for seven days for collection of fossil material and its report.

### **Suggested Readings:-**

1. Napier JR and Napier PH (1985) The Natural History of the Primates Cambridge MA: The MIT Press.
2. Boyd R and Silk JB (2009) How Humans Evolved London:WW Norton.
3. Tattersall(2009) The fossil Trail:How We know What We Think We know about Human evolution New York Oxford University Press.
4. Waldron T(2008) Palaeopathology Cambridge University Press.
5. Cela –conde cj and Frisancho J (2007) Human Evolution :Trails from the past Ayala Oxford University Press.
6. Barnes E .Diseases and Human Evolution (2005) University of New Mexico Press.

7. Pinhasi R and Mays S (2008) *Advances in Human Palaeopathology* .Chichester .John Wiley & Sons .Inc (PM)
8. Hoppa RD and Vaupel JW (2002) *Paleodemography : Age distribution from Skeletal Samples* Cambridge University Press.
9. Lansen CS, Matter RM and Gebo DL (1998) *Human Origin .The Fossil Record* Waveland Press.
10. Cameron DW and Colin P Groves CP (2004) *Bone Stones and Molecules :Out of Africa and Human Origins* Elsevier Inc.
11. Stringer C (2011) *The Origin of Our Species* London ;Allien Lane.
12. Conroy GC(200%) *Reconstructing Human Origins* WW Norton and Company.

## **DSE 9. Human Population Genetics**

### **Theory**

**UNIT-I:** Hardy –Weinberg Principle Genotypic and allelic frequencies .assumptions of Hardy –Weinberg equilibrium its. applications and exceptions Mechanism for dynamics in Gene Frequency mutation selection (pattern and mechanism) Genetic drift (bottle neck and founder effect) Gene Flow migration inbreeding (inbreeding so-efficient and its generic consequences)

**UNIT-II :** Ecological Genetics and Polymorphism phenotypic & genotypic Polymorphisms transient Polymorphism, balanced Polymorphism (models explaining the maintance of generic Polymorphism)Relationship between sickle cell and malaria ,X-linked Polymorphism selection due to infections diseases and its association with blood groups and other

**UNIT-III:** Population structure and admixture in human populations random & non-random Mating (positive and negative assortative mating) heritability ,linkage disequilibrium .genetic marker utility of genetic markers in population and diseases association studies

**UNIT-IV;** Human evolutionary genetics from Mendel to molecules. A brief history of evolutionary genetics Epistasis and the conversion of genetic variances .Human –Ape comparisons.

### **Practical ( Any Two)**

**Credit -2**

1. Blood groups typing A1,A2,B,O, MN and Rh (D) blood groups.
2. Colour Blindness
3. Glucose -6-phosphate dehydrogenase deficiency(G6PD)
4. PTC testing ability.
5. Biochemical markers –DNA isolation and Polymerase chain reaction (PCR)

### **Suggested Readings:-**

1. Brooker R.J.(2012) *Genetics analysis & Principles* .The McGraw –Hill(Companies Inc.4<sup>th</sup> ed.
2. Cavalli-Sforza L.L. and Bodmer .W.F.(1971).*The Genetics of Human Population* San Francisco Freeman.
3. Cooper DN and Kehler –Sawatzki H(2008) *Handbook of Human Molecular Evolution* John Wiley & Sons.Volume-2
4. Grawlord MH(2007) *Anthropological Genetics Theory. Methods and Application* ,Cambridge University Press.
5. Cummings M.R(2011) *Human Heredity .Principles and Issues* ,Ninth Edition Brooks /Cole Cengage Learning.
6. Joblin M.A Hurls M and Tyler Smith C.(2004) *Human Evolution Genetics Origins Peoples & Diseases* GS.NY .

7. Lewis R.(2009) *Human Genetics Concepts and Applications* 9<sup>th</sup> edition .The McGraw-Hill Companies Inc.
8. Patch C(2005) *Applied Genetics in Healthcare* .Taylor & Francis Group.
9. Relethford ,H.(2012) *Human Population Genetics* Wiley-Blackwell USA
10. Snustad D.P. and Simmon M.J.(2006) *Principle of Genetics.Fourth edition* John Wiley & Sons USA ,Hoboken NJ.
11. Strachan T Read A.P. (2004) *Human Molecular Genetics Sciences* Taylor & Francis Group.
12. Vogel F and Motulsky A.G.(1996) *Human Genetics* Springer 3<sup>rd</sup> revised edition.

## **DSE 10. Visual Anthropology**

### **Theory**

**UNIT-I:** Introduction to Visual Anthropology .Visual Culture Photographic and Digital Media.Still. Interactive and Moving Theory and Representation. Anthropology and Images Ethnography and ethnographic films and mass Media.

**UNIT-II :** Early Ethnographic Photography Contexts and Trends. Anthropology of Art and Aesthetics Ethnographic ,Photography, Convention and Methodologies.

**UNIT-III:** Ethnographic Film Theoretical issues concerning ethnographic film,ethical dimension of Ethnographic film. Interdependency of technology and culture

**UNIT-IV;** Cinema Studies with emphasis on key feature ,documentary and Ethnographic films with a focal theme the examination of the language of Film.

### **Practical**

### **Credit -2**

This paper deals with analysis of visual such as photographs and films pertaining to cultural practices dealing with institutions of religion ,economy and politics.

**Theory and Representation** : Anthropology and images. Ethnography and Ethnographic films and mass media. Theories of representation ,modern media and political advocacy.

**Anthropology of Art and Aesthetics** : Critical reflection on the relation of images ,objects and persons objects and images from other societies valued as Art.

**Ethnographic Film and Cinema Studies:** : This Unit consists of Screening followed by seminars. The emphasis will be on key feature documentary and ethnographic films with a focal theme-the examination of the language of Films.

**Practical Implication** : Explore traditional and experimental means of using visual and audio visual is media to research represent and produce anthropological knowledge .Critical engagement with policy and the use of audio –visual and internet based media in advocacy and activism .The Students are required to do the following exercises.

1. Basic Principles of producing ethnographic films ;text and its focus ,camera angle, lighting and decision making behind the camera.
2. Analyze the visual data from classical ethnographies signifying how “otherness” is constituted
3. A gendered analysis of visual produced during colonial and postcolonial times.
4. Hypertext and multimedia as analytic end points.
5. Collection reporting and analysis of Photo=ethnographic data.

6. Digital mirror computer assisted exercises leading to production of ethnographic text.

**Suggestion Readings:-**

1. Marcus Banks and Howard Morphy, 1998 Rethinking Visual Anthropology.
2. David Mac Dougall Transcultural Cinema. (Princeton 1999)
3. 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.
4. Ch. Reading Pictures Pp 1-12 (from Banks Marcus 2001, Visual Methods in Social Research London Sage.)
5. Ember C.R et al (2011) Anthropology New Delhi : Dorling Kindersley (Unit II, III, IV) Page 282-321, 430-438, 464, 469-471)
6. Banks M and Ruby J (2011) Made to Be Seen Perspectives on the History of Visual Anthropology University of Chicago Press (practical)
7. Schneider A and Wright C (2010) Between Art and Anthropology Contemporary Ethnographic Practice .Berg Publishers (practical).
8. Hettley P (2010) The Adventure of the Real Jean Rouch and the Craft of Ethnographic Cinema Chicago University Press (practical)
9. Pink S (2010) Doing Sensory Ethnography. Sage Publications (practical)
10. Gimshaw A and Ravetz A (2009) Observational Cinema Anthropology, Film and the Exploration of Social Life Indiana University Press (practical)

**DSE 11 Fashion Anthropology".**

**Theory**

**Credit-4**

**UNIT-I :** Theoretical and Ethnographic Approaches to Understanding Fashion and Consumer Society Colonialism . Dress and Identity: Colonialism Consumption and Civilizing Fashion Anti-colonial. Dress Clothing Debates in Burma and Africa.

**UNIT-II;** Race and Fashion .The 1980s "Japanese Invasion" 1990s "Asian Chic" Alternative Approaches to Consumerism.

**UNIT-III:** Gender : Fashion and Consumption in different Human societies Application of fashion in traditional and , modern societies , role of religion in fashion.

**UNIT-IV:** Globalization and Dress leather cosmetic, relationship, relationship of tribal clans with references to embroidery colour and design in ethnic group of India.

**Practical**

**Credit-2**

1. Identification of Pattern making Garment construction and color dynamics.
2. Sewing and Clothing manufacture practical.
3. Surface ornamentations .Textile crafts and Accessories Design in different ethnic group.

4. A comparison of Computer aided design versus traditional designs.

### **Suggested Reading.**

1. Allman Jean Fashioning Power Clothing Politics and African Identities. Bloomington :Indiana University Press.2004.
2. Atonson Lisa “Body Modification and Art’ .In the Encyclopedia of World Dress and fashion,Volume,I. Africa Berg Fashion Library2010.
3. Bache,parminder ,Dangerous Designs ;Asian Women Fashion the Diaspora Economies .New York Routledge 2004.
4. Brradley Foster Helen, and Johnson. Donald Clay Wedding Dress Across Cultures .Berg Fashion Library 2003
5. Eicher Joanne B and Roach-Higgins Mary Ellan-Definition and classification of Dress Implications for analysis for Gender Roles .In Dress and Gender Making and Meaning Oxford Berg.1992,8-28.
6. El Guindi Fadwa Veli modesty .Privacy and Resistance Berg Fashion Library,2003(1999)
7. Faire Laura “Veiling Fashion and Social Mobility:A Century of Change in Zanzibar, In Veiling in Africa Bloomington Indiana University Press 2013,15-33.
8. Fee Sarah –Anthropology and Materiality .In The Handbook of Fashion studies ,London, Bloomsbury.2013,301-324
9. Gott Suzanne and Loughran Kristyne Contemporary African Fashion Bloomington Indiana University Press.2010.
10. Hansen Kareb Tranbeg-The World in Dress Anthropological Perspectives on Clothing ,Fashion and Culture in Annual Review of Anthropology 34 (2004) 369-392
11. Hebding Dick subculture :The Meaning of style Routledge 1979.ISBN 0415039495.
12. Hansen Karen Tranbeg- Salaula .The World of Secondhand Clothing and Zambia Chicago 2000. ISBN0226315819.
13. Rooks .Noliwe Hair Raising Beauty Culture and African ,American Women Rutgers .1996,ISBN9780813523125.
14. Miller Daniel and Sophic Woodward eds,Global Denim Berg,2011,ISBN9781847886316.
15. Mangieri Tina,Fashion Transnationality and Swahili Men.In African Dress Fashion Agency,Performance London Bloomsbury 2013.153-167.
16. Schneider Jane ‘The Anthropology of Cloth.in Annual Review of Anthropology,16 (1987)409-448.
17. Smith Fred T “Archaeological Evidence “;in the Berg Encyclopedia of World Dress and Fashion. Volume I .Africa ,Berg Fashion Library-2010.
18. Tarlo Emma and Moors ,Annelies Islamic Fashion and Anti OFashion,New Perspectives from Europe and America ,London; Bloomsbury2013.
19. Tarlo Emma :Clothing Matters :Dress and Identity in India Chicago University of Chicago Press.
20. Tarlo Emma ,Visible Muslim Fashion Politics Faith Berg Fashion Library.2010.

### **DSE 12 Demographic Anthropology”.**

#### **Theory**

Credit-4

**UNIT-I** : Demographic Anthropology. Introduction ,Definition and basic Concepts .Relationship Between demography population studies and Anthropology .Population Theories :John Graunt .Thomas T Malthus Biological Theory of Population ,Theory of Demographic transition.

**UNIT-II :** Tools of Demographic Data ,Measure of Population Composition ,distribution and growth  
Measure of fertility :Measures of Mortality :Measure of migration.

**UNIT-III:** Population of India ,Sources of Demographic data in India ,Growth of Indian Population  
Demography of Indian tribal and non-tribal groups .Anthropological determinants of population  
growth: Impact of urbanization on the migration of Tribal Groups.

**UNIT-IV;** National policies :National Population Policy :National Health Policy :National Policy on  
Reproductive Health Care.

**Practical**

**Credit -2**

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

**Suggested Readings:-**

1. Bhande A and Kanitkar T.(2010) Principles of Population Studies :Himalaya {Publication House Mumbai (All Units it Cover 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 publication New Delhi.
5. Howell N (1986) Demographic Anthropology Ann.Rev. Anthpol/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(2001) Population Characteristics of Desert Ecology VDM,Variag Dr.Muller Gmbh and Co..Germany.
8. Mishra BD(1982) An introduction to the study if population South Asia Publ.Ltd.New Delhi.
9. National Population Policy/[http:// populationcommission.nic.in/npp.htm](http://populationcommission.nic.in/npp.htm).
10. Park .K. (2000) Textbook of Preventive and Social Medicines .Banarsidas Bhanot .Jabalpur.
11. Patra P.K. and Kapoor A.K (2009) Demography. And Development Dynamics in a Primitive Tribe of Himalayas International Book Distributors Dehradun.
12. Riley N.E. and McCarthy .J.(2003) Demography in the Age of the Postmodern .Cambridge University Press.UK page1-13 and 32-98.
13. Sharma A.K. (1979) Demographic transition .A determinant of Urbanization .Social Change 9:13-17.
14. Srivastava O.S.(1996) Demographic and population studies.Vikas Publishing House .India.
15. Zubrow E.B.W (1976 ) Demographic anthropology: Quantitative approaches .University of New Mexico Press. Albuquerque.
16. [http:// human-nature .com/dm/chap3.html](http://human-nature.com/dm/chap3.html).
17. [http:// biography.yourdictionary.com/john-graunt](http://biography.yourdictionary.com/john-graunt).
18. [http:// www. Marathon.uwc.edu/geography/demotrans/demtran.html](http://www.Marathon.uwc.edu/geography/demotrans/demtran.html).

**DSE 13 :Urban Anthropology.**

**Theory**

**Credit-4**

**UNIT-I :** Emergence of Urban Anthropology: Introduction Extension of the Anthropological interest in peasant and rural areas. Origins of Cities and Early Sociological Approaches Urban Planning and design.

**UNIT-II :** Political economy :Rural–urban migration kinship in the city problems that arise from urbanism poverty and social stratification.

**UNIT-III:** Class approach :Culture of Poverty and the Underclass Approach ,Comparison between relations function in an urban setting versus function in a rural setting. Race and class in Urban Ethnography.Urban Dystopia.

**UNIT-IV :** Urban Inequality and Disasters :Poverty extended family for urban natives versus migrants. Global cities and the Production of Space ,Community study and Urban ecology.Urban Space,Postman and Hypermodern City: Contemporary urban issues .Suburbs ,Exurbs and Urban Decline.

### **Practical**

### **Credit-2**

1. Visit city life among business community and appreciate and role of culture with politics and economics.
2. Media-popular culture behaviour.
3. Photo shoot in any city life, Creating captions and texts relating to urban Anthropology findings

### **Suggested Readings.**

1. [http:// www.oxfordbibliographies.com/](http://www.oxfordbibliographies.com/)
2. Cities classes and the social order ,Anthony Leeds ,Rogar Sanjek.
3. Childe.V. Gordon 1950”Urban Revolution>Town Planning Review.
4. Low Reader Part-V; The Postmodern City in Low pp.317-377.
5. Dear and Flusty –“Anthropological Fieldwork in Cities.”The anthropology of Cites. Some Methodological Issues.

### **DSE 14 : Anthropology of Health..**

### **Theory**

### **Credit-4**

**UNIT-I :** Defining Health and fitness in Cross-Cultural Perspective: Looking at “health” “illness” and related concepts in Western culture including sociological sick role’ models. Some important variations in the process of seeking health care Morbidity .Mortality . Epidemiology: Meaning scope and methods Epidemiology of common communicable diseases .Malaria,Tuberculosis ,Leprosy, Diabetes, Cardiovascular diseases and Sexually Transmitted Diseases (STDS),HIV,AIDS.

**UNIT-II :** Women’s Health, Sex, Family, Planning and Maternal-infant Health. Reproductive, life child Birth, Family planning adoption male dominance, Nursing and early nature, hyper-menstruation and its corollaries .Chronic Disease, Injury,Stress and Mental Health: Relationship between mental health chronic disease and injury. Understanding Stress and Its Effects Cross-Culturally.Mental Disorders and Related Phenomena, diseases associated with specific sociocultural and environmental context:kuru, osteomalacia.sickle cell anaemia. Adaptations to Health Threats :Genetic Vulnerability and Resistance & Environment. Developmental and Cultural Adaptations to adverse Conditions.

**UNIT-III:** Variations in Health Care systems .A Comparative Perspective :Health promotion and health care delivery programmes. Family welfare-programmes .Child health and nutrition programmes .Reproductive health awareness. Healing and Healers in cross-Cultural Perspectives: Shaman,Magic

,Witchcraft and Sorcery :Folk healers alternative medicine: Types of healers and healing. Problems in evaluating efficacy .Sources of dissatisfaction with mainstream medicine.

**UNIT-IV :** Legal Aspects & Future Prospects for Health: Rules and regulations of international health policy Medico-Legal Problems in relation to health administration .International health organization .NGOs Medical Ethics, Criticalissues in global health..

### **Practical**

**Credit-4**

1. Make a Schedule on Health and Demography.
2. Calculation of Infant sex ration. Fertility rate .Total fertility rate .Mortality rate Birth rate crude birth rate crude, death rate, Mortality rate,life expectancy .Immigration rate population growth rate.
3. Identification and Characteristics of Various diseases.
4. Case Studies of Traditional and Modern healers.

### **Suggested Readings.**

1. Rajesh Khanna and A,K, Kapoor 2007 :Ethnic Groups and Health Dimensions Discovery Publishing House New Delhi.
2. Chin,Jaines M.D.M.P.H.(ed.)2000.Control of Communicable Diseases Manual.17<sup>th</sup> Edition .American Public Health Association, *Anyone Interested in fieldwork in less developed areas should own this book for reference.*
3. Heiman Cecil G.2001 Culture>health and Illness, 4<sup>th</sup> ed. London. Arnold.*This book is written for health care practitioners and clearly explains the relevance of culture to health.*
4. Mann.Johnson M.et al (eds) 1999.Health. and human Rightss ,NewYork:Routledge.
5. Albrecht Gary L.Ray Fitzparick abd susan Scrimshaw (eds.)2000.*The Handbooks of Social Studies in Health and Medicine,SAGE.Publication.*
6. Bannerman .Robert .J.Burton and Ch'en Wen-Chien (eds.)1983.Trditional Medicines and health care Coverage Geneva:World Health Organization.
7. Chen Lincoln C.Arthur Kleinman and Norma C,Ware 1994,Health and Social Change in International Perspective Harvard University Press.
8. Corell Jeannine and J.Dennis, Mull (eds.) 1990 Anthropology and Primary Health Care. Boulder Westview Press.
9. Hahn.Robert A,1999 Anthropology in public Health ,Bridging Differences inCulture and Society .New York,Oxford University Press.
10. Helman.Cecil G.1994.Culture :Health and Illness ,3<sup>rd</sup> ed.Oxford:Buttrerworth-Heinmann.
11. Inhorm ,Marcia C and Peter I Brown 1997.The Anthropology of Infectious,Disease .International Health Perspective s Gordon and Breach Publishers.
12. Koop.C.Everett,Clarence E.Pearson and M Roy ,Schwartz (eds.) 2001.Critical Issues in Global Health San Francisco: Jossey-Bass.A wiley Company.
13. Mayer Kenneth H.and H.F.Pizer (eds)2000.The Emergence of AIDS. The Impact on Immunology.
14. Microbiology and Public Health Washington.D.C.American Public Health Association.
15. Nichter.Mark and Mimi Nichter 1996. Anthropology and international Health Asian Case Studies,Gordon and Breach Publishers.
16. Paul BenjaminD.(ed.) 1995 Health,culture and Community .Case Studies of Public Reactions to Health Programs.



17. Williams, Gicely D. Naomi Baumslag and Derrick B. Jelliffe 1994. Mother and Child Health Delivering the Services 3<sup>rd</sup> Edition. New York, Oxford University Press, Basch Paul F. Textbook of International Health 1999. New York, Oxford University Press,
18. Tsul Amy O, Jedith N. Wasserheit and John G. Haaga (eds.) 1997, Reproductive Health in Developing Countries. Washington, D.C. National Academy Press.

### **DSE 15 : Linguistic Anthropology**

#### **Theory**

**Credit-4**

**UNIT-I :** Concept and Scope of Linguistic Anthropology. Linguistic Anthropology and other Behavioural Sciences : Universals of Language. Types Descriptive and Historical Linguistics. Origin and Evolution of Language. Language. Dialect and Idiolects, Definitions and Interrelations, Socio-Linguistics.

**UNIT-II :** Language as a system Phonetic sub-system Morphophonemic, Sub System, Syntactic, Sub-System and Semantic sub-system, Language and Culture: Cultural Influence on Language and linguistic, Influence on Culture Sapir, Whorf Hypothesis: Linguistic and Culture Change.

**UNIT-III:** Classification on Languages: Typological and Genealogical: Functional Study of Language India as a Linguistic Area. Standard languages and Nationalism, speech variation and the study of Indian civilization.

**UNIT-IV :** Language and the Analysis of Social Laws, Language and Social Structure. Structural Analysis in Linguistics and Anthropology. Language and Communication. Verbal and Non-Verbal (Signs and Symbols): Communication and Sociality: Language and Speech.

#### **Practical**

**Credit-4**

1. Report Writing.
2. Education Policies in India.
3. Multilingual Education.
4. Tribal Languages

#### **Suggested Reading.**

- |                     |  |
|---------------------|--|
| 1. Ardver .E(ed.)   | Social Anthropology and Language.                    |
| 2. Bloomfield.I.    | Language.  |
| 3. Bright.W.        | Socio-Linguistics                                    |
| 4. Burling R.       | Man's Many voices –Language in its Cultural Context. |
| 5. Gleason H.A.     | An Introduction to Descriptive Linguistics           |
| 6. Gumperz and      | The Ethnography of Communication Hymas (eds.)        |
| 7. Hoekett, C.P     | A Course in Modern Linguistics.                      |
| 8. Hoijer.H.(ed.)   | Language in Culture.                                 |
| 9. Hymes D.(ed.)    | Language in Culture and Society.                     |
| 10. Lehman.H.P.     | Historical Linguistics                               |
| 11. Levis Strauss.C | Structural Anthropology (Selected chapter)           |
| 12. Mishra K.K.     | Anthropology Linguistics.                            |
| 13. Sapir E.        | Language.  |

*Note : Student will write dissertation on the basis of 20 days field work in the nearby locality on any branch of Anthropology in 6<sup>th</sup> Semester. She/He will be supervised by on Teacher/teachers.*

## Generic Elective Course (GE)

**Credits : Any four papers = Theory + Practical =(4+2)\*4 =24**

**For B.Sc. in Anthropology ,a student shall have the option to choose from the following subjects:** Chemistry, Botany, Zoology, Geology, Geography ,Bio-Technology, Environmental Science, Psychology, Statistics Marine Science ,BCA.

**For B.Sc. in Anthropology ,a student shall have the option to choose from the following subjects:-**History, Political Science ,Economics , Psychology, Geography, Sociology, Home science, Sanskrit, Odia, Philosophy and BBA (Health care Management) Tourism Administration.

**Ability Enhancement ( (Compulsory Course**

**Credits : Two Papers =2x4=8**

**Ability Enhancement Elective ( Skill based ) Course**

**Credits : Any Two Papers = Theory + Practical = 2x4=8**

**SEC1 .Public Health and Epidemiology**

**Theory**

**Credit -4**

**UNIT 1:** Principles of Epidemiology in public Health :Public health and Anthropology: 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 specific populations, and strategies to control health problems.

**UNIT-II:** 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 Psychological , Behavioural and Social Issues in Public Health :behavioural science theory and methods to understanding and resolving public health problems.

**UNIT III:** Management of Health care Program and Services Organization : Techniques and procedures for monitoring achievement of a program's objectives, generating evidence of program effectiveness, assessing impacts in public health settings; evaluate framework that leads to evidence –based decision –making in public health.

**UNIT-IV:** Epidemiology of disease: Contemporary methods for surveillance ,assessment,prevention and control of infectious and chronic diseases disabilities ,HIV/AIDS: understanding etiology: determining change in trend over time ,Implementation of control measures.

**Practical**

**Credit-2**

1. Draw appropriate inferences from provided epidemiologic data through statistical analysis.

2. Assesses the health status of population and related determinants.
3. Analysis information relevant to specific public health policy issues.
4. Development of health promotion model for health problem.

### **Suggested reading**

1. Gordis L. (2004).Epidemiology.Third edition. Philadelphia: Elsevier Saunders.
2. Remington PL, Brownson RC, and Wegner M.V (2010). Chronic Disease Epidemiology and control.American Public Health Association.
3. Pagano M and Gauvreau K.(2000). Principles of Biostatistics. Belmont.C.A: Wadsworth.
4. Turnock B.(2011). Public health.Jones & Bartlett Publishers.
5. Edberg M.(2013) Essentials of Health Behaviour . social and Behavioral Theory in public Health .second edition ,jones and Bartlett publishers.
6. Griffith JR and White KR. (2010). The well Managed Healthcare Organization. Health Administration press: Chicago.IL .
7. Kovner AR. Mc Alearney AS. Neuhauser D. (2013). Health services Management:cases, Readings, and commentary . 10<sup>TH</sup> Ed. chicago IL:Health Administration press.
8. Lee LM. (2010) principles and practice of public Health Surveillance.Oxford University Press
9. Turnlock B. (2011). Essential s of public Health. Jones & Bartlett publishers
10. Merson M.Black RE, mills A.(2006). International public Health: Diseases , programs, systems and policies. Jones & and Bartlett Learning.
11. Aschengrau A and seage GR. (2008). Essential s of Epidemiology in public Health.Boston.massachusetts.

## **SEC 2 .Business and Corporate Anthropology**

### **Theory**

### **Credit-2**

**UNIT I :** History of Business and corporate Anthropology ; Subject matter of Business Anthropology ;Organizational Anthropology. Marketing and consumer Behaviour . Design Anthropology, Globalization and International communication.

**UNIT 2 :** Applied anthropology in industry; application of the ethnography in business Management; organizational ethnography, stages and advantages of ethnographics approach. ethical issues in ethnographic research.

**UNIT 3:** Anthropology and consumer behaviour ; cultural meaning to consumer behaviour ; Anthropological approach to consumer behaviour ,symbols and consumer behavior. Heros and consumer behaviour. Rituals and consumer behavior. Symbols and consumer behaviour

**UNIT 4:** Globalization ,Regional Cooperation, and International Business . cultural dimensions in international business ; hofstede and ferraro ;cross-cultural Business Etiquette and sensitivity in international communication.

### **Practical**

### **Credit-4**

1. Visit a corporate sector and write a short report case study.

2. Study of interaction pattern in corporate sector with reference to ethnicity.
3. Make a schedule on the structure of the corporate /MNC.
4. Make a brief report only on one dimension of the corporate sector and give your assessment.

### **Suggested Readings**

1. Jordan, Ann T. Business Anthropology, Waveland press ,Long Grove, Illinois.
2. Whyte, W.F. 1948 Incentives for productivity ;The case of the Bundy Tubing Company Applied Anthropology 7(2);1-16.
3. Gardner ,Burleigh b. 1978 Doing Business with Management .In applied Anthropology in America, Elizabeth M. Eddy and William partridge (Eds.). New York ;Columbia University press . pp. 245-260.
4. Handbook of Anthropology in Business by Rita M Denny.
5. Advanced reading in Business Anthropology edited by Robert Guang Tian, Daming Zhu, Alfons van Marrewijk.

### **SEC 3 .Media Anthropology**

#### **Theory**

**Credit-2**

**UNIT 1 :** Introduction to Media. Anthropology :Audiences Consumption and Identity Formation .The Social and Material Life of Cinema; Television and the cultural Politics of Nation.Media as Materials Objects.

**UNIT 2 :** The Cultural work of Mass Media Production “Producing “Bollywood.”

**UNIT 3:** Producing Reality –Journalism and Advertising ;News as Social Practice. the Local and the Global in Advertising.

**Unit 4:** Small Media: Materiality ,Circulation Everyday life & Social Transformation .Indigenous ,Media and cultural Activism .The Social and Material Lives of Cell Phones :Media as Social Infrastructure- The Case of Facebook Learnig From New Media. The Possibilities & Constraints of You Tube.

#### **Practical**

**Credit-4**

1. Visit to Mass Media Company and submit a report on any one dimension.
2. Making a schedule and testing the same in the field with focus on either cinema or television.
3. Describe the components of mass media in its different parts.
4. Submit a report on the behavioural pattern of Media people.

### **Suggested Readings**

1. Rothnbuhler ,Eric W: Coman Mihal : Media Anthropology-2005 California sage.
2. Askew K ,and R.R. Wilk (eds) 2002. The Anthropology of Media- a Reader Blackwell Publishers Ltd.USA.
3. Brauchler .B and J postill (Eds)2010.Theorising Media and Practice Berghahn Books.

### **SEC 3 .Tourism Anthropology**

#### **Theory**

**Credit-2**

**UNIT 1 :** Tourism-anthropological issues and theoretical concerns, tourists as ethnographer: pilgrimage and Authenticity Issues.

**UNIT 2 :** 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 Journey and Tourism.

**UNIT 3:** Understand the Implication of Tourism as a major mechanism of cross-cultural interaction ,role of symbolism ,semiotics and the imagination in tourism ;tourism and the commoditization of culture of cultural degradation.

**UNIT 4:** Understand the Global and local political economy of contemporary tourism particularly in relation to international development ,explore dynamic relationship 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 economic ,tourism and global mobility Ecotourism and Development.

### **Practical**

### **Credit-4**

1. Visit a Place ,Identity a population and write a short report Case study.
2. Make a brief report only on one dimension of the tourism sector and gives your assessment.

### **Suggested Readings**

1. Chamers E (2000) Native Tours .The Anthropology of travel and Tourism .Prospect height Waveland.
2. Crick M.(1995) .The Anthropology as Tourist :An Identity in Question.In Lanfant MF.Allcock JB.Bruner EM(eds)Internationa, TourismL Identity and Change.London, Sage PP.205-223.
3. Dann GMS, Nash D and Pearce PL.(1988) Methodology in Tourism Research. Annals of Tourism research.15:1-28
4. Gmelch SB(2004) Tourists and Tourism. A Reader .Long Grove :Waveland.
5. Grabum NHH (1977) Tourism. The Sacred Journey Hosts and Guests. The Anthropology of Tourism Research.,Valene L.Smith, ed. Philadelphia: University of Pennsylvania Press PP.33-47.
6. Darnn G.(2002)The Tourist as a Metaphor of the Social World Wallingford CAB. International.
7. Nash D (1996) On the Beaten Tracks Tourism Art and Place New Press.
8. Kirshenblatt-Gimblett B(1998) Distinction Culture: Tourism,Museums and Heritage University of California Press.
9. Lippard I.R.(1999) On the Beaten Track Tourism Art and Place New Press.
10. Picard M and Wood R.(1997) Tourism Ethnicity and the State in Asian and Pacific Societies University of Hawai Press.
11. Crick M.(1995) .The Anthropology and the study of Tourism :Theoretical and Personal Reflection. In Crick M (eds) Resplendent sites Discordant Voices .Sri Lankans and International Tourism Chur Switzerland University Harwood Publisher.

12. 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.

### **SEC 3 .Muesology and cultural Resource Management.**

#### **Theory**

#### **Credit-2**

**UNIT 1 :** Museum, Museology and New Museology, Museum and Museology ,Meaning .Definition ,Nature and scope ,Classification of Museums in India-National Museum .State Museum University Museum Specialized Museums In India. New Museology. Concept and Scope New Museum Movements.

**UNIT 2 : Museum Administration Acquisition ,Display and Documentations.**

Museum Administration Staff.

**Acquisition and Arrangement of Specimens :** Modes and ways of Acquisition of Museum Specimens Principles of Display and Arrangement in Museums (including lightings)

**Documentation and labels of Museum Specimens :** Methods of Documentation. Documentation of Ethnographic and Archaeological Specimens.

**Unit 3: Management of Cultural Resources in Museum (Storage, Security and Conservation.**

**Museum Storage:-**Location of the Storage .Storage Furniture, Lighting and Ventilation in Storage Methods of Storage Visual Storage.

**Security in Museum:-**Security Risks of Museum Objects Preventive Measures.

**Conservation of Cultural Resources in Museum:-** Causes of Decay and Deterioration , Care and Handling cleaning and repairing ,Packing and Shifting of Museum Objects ,Preservation of Organic and Inorganic Objects in Museums.

**Unit 4: Educational and Extension Activities of Museum.**

Museum Education,,Tourism and Museum ,Travelling Exhibition ,Museum Library and Publication ,Public Relations Museum and Communities.

#### **Practical**

#### **Credit-4**

1. Development of Computer based Documentation, Museum Labels Dioramas , Models and Charts Museum Photography.
2. Cleaning and repairing Packing and Shifting of Museum Objects Preservation of Organic and Inorganic Objects in Museums.

#### **Suggested Readings**

- 1 Agrawal O.P.and Sashi Dhawan (1985) Control of Biodeterioration in Museum National Research Laboratory for Conservation of Cultural Property Lucknow.
2. Agrawal O.P.and Mandana Barkeshli (1997) Conservation of Books Manuscripts and Paper Documents (INTACH )Indian Council of Conservation Institutes ,Lucknow.

3. Aiyappan A and S.T. Satyamurti (Ed.)1960.Handbook of Museum Techniques Government Museum Madras.
4. Banerjee N.R.1990 Museum and Cultural Heritage in India Agamkala Prakashan Delhi.
5. Basa K.K. Md.Rehan. RK.Gupta 2007.Museology A comprehensive Bibliography and Webliography,Serial Publications. New Delhi.
6. Basa K.K. 2010.Museums in India from :Colonial constructs to Post-Colonial Engagements Jhargram:INCAA Publications.
7. Behera B.K. and S.K. Mohanty ,2007 Museology and Museum Management in India, Mayur Publications ,Bhubaneswar, Orissa.
8. Bhatnagar A.1999 Museum Museology and New Museology. Sandeep Prakashan,New Delhi.
9. Diwvedi V.P. and G.N. Path(Ed) 2001. Museum Museology . New Horizon. Agam Kala Prakashan,New Delhi.
10. Ghoshmaulik.S.K. and K.K. Basa (Ed)2001. Heritage ;Role of Museum Academic staff Collage, Utkal University ,Bhubaneswar, India.
11. Nair S.M. (1970) Bio-deteriorations of Museum Materials .Agam Kala Prakashan ,New Delhi.
12. Nigam M.L. 1985.Fundamentals of Museology.Deva Publications,Hyderabad.
13. Sarkar H.1981,Museum and Protection of Monuments and Antiquities in India Sandeep Prakashan,New Delhi.
14. Stone P.G. and B.L. Molyneaur 1994.The Present Past: Haritage Musuems and Education,Routledge.

### **CBCS: BA, B.Sc.(Regular /Pass ) in Anthropology**

Core courses = 14 papers of 6 Credit each :100 marks each (5 Units in each course) 1400

Ability Enhancement Compulsory Course (AECC) =2 papers of 4 credit each 50marks each 100  
(English Communication /MIL/Environmental Science)

Skill Enhancement Courses (SEC) = 2 papers of 4 credit each =50 marks each 100

Sem I :2 Core Courses-1AECC IGE = 4 papers = 350 marks

Sem II :2 Core Courses-1 AECC IGE = 4 papers = 350 marks

Sem III :3 Core Courses -1SEC IGE = 5 papers = 450 marks

Sem IV :3 Core Courses-1 SEC IGE = 5 papers = 450 marks

Sem V :2 Core Courses-2 DSE = 4 papers = 400 marks

Sem VI :2 Core Courses -1 DSE Project Report = 4 papers = 400 marks

**Total =26 papers = 2400 marks(148 Credits)**

**For Papers with Practical Component : Theory -70 (Mid seat 20-End Sem 50):  
Practical 30(End Sem I here will be no mid sem exam for Practical paper,**

For Papers with no Practical -100 marks paper =2- (Mid sem) +80 (End Sem :50 marks Paper =10  
(Mid Sem + 40(End Sem)

### **Subjects with Practical**

Each the 14 Core Course 4 Discipline specific elective courses and 4 Generic Elective Papers will have minimum 40 theory classes (Lectures) of 1 hour duration and minimum 20 (practical Classes (Normally practical classes at Hons level are of 2hours duration each)

### **Subject without Practical**

Each the 4 Core courses 4 Discipline specific elective courses and 4 Generic Elective papers (100 marks each will have minimum 50 theory classes (Lectures) of I hour duration and minimum 10 tutorial classes .Ability enhancement (compulsory) and 2 Ability enhancement (Skill based) papers will have minimum 20 classes (lectures)each of 1 hour duration,

### **CBCS : B.A.(PASS.) Anthropology**

Core courses = 12 papers AECC = 2 papers, SEC=4 papers,DSE= 4 papers ,GE=2 papers,24 Papers (2100 Marks -132 credits)

To complete this programme ,a student has to take 4 Core Courses each in 2 disciplines of choice and two core papers each in English and MIL respectively,

### **CBCS : B.Sc (Pass)**

Core Courses -=12 papers AECC-=2 Papers ,SEC =4 Papers,DSE- 6 Papers:24 papers (2100 Marks-132 credits)

To complete this programme a student has to take 4 Core Papers each in 3 disciplines of choice,

### **BA, B.Sc. in Anthropology:**

#### **B.A./B.Sc, in Anthropology**

<b>Sl.No</b>	<b>Core Paper</b>	<b>Theory</b>	<b>Practical</b>
C1	Introduction to Biological Anthropology	✓	✓
C2	Introduction to Socio-cultural Anthropology	✓	✓
C3	Archeological Anthropology	✓	✓
C14	Anthropology of India	✓	✓

<b>Sl.No</b>	<b>Elective Courses</b>	<b>Theory</b>	<b>Practical</b>
DSE3	Human Genetics	✓	✓
DSE7	Anthropology of Religion,Politics and Economy	✓	✓
DSE8	Tribal Cultures of India	✓	✓
DSE12	Demographic Anthropology	✓	✓
DSE13	Urban Anthropology	✓	✓
CH.	Prehistory Archaeology of India	✓	✓



## Generic Elective (GE)

For B.Sc. in Anthropology : Chemistry, Botany, Zoology, Geology, Geography ,Bio-Technology, Environmental Science, Psychology, Statistics Marine Science ,BCA.

For B.A . in Anthropology:-History, Political Science ,Economics , Psychology, Geography, Sociology, Home science, Sanskrit, Odia, Philosophy and BBA (Health care Management) Tourism Administration.

## Ability enhancement Elective (skill Based)(SEC)

SEC1 .Public Health and Epidemiology  
SEC-2. Media Anthropology  
SEC-3 Business and Corporate Anthropology  
SEC-4 Tourism Anthology  
SEC-5 Museology and Cultural Resource Management.

## CORE PAPERS

### C1 :Introduction to Biological Anthropology

#### Theory

**Credit -4**

Unit 1: History and development of understanding human variation and evolutionary thought. Theories of evolution .Human variation and evolution in ancient times pre-19<sup>th</sup>.Century: Theories of evolution Lamarckism. Neo Lamarckism, Darwinism Synthetic theory,Mutation and Neo–Mutation theory.

Unit-II: History of Physical Anthropology and development of Modern Biological anthropology ,aim scope and its relationship with allied disciplines ; difference in the approaches of modern and traditional Biological Anthropology with emphasis on human evolution.

Unit III: Non Human primates in relation to human evolution Classification and characteristics of living primates; Comparative anatomy and behaviors of human and non-human primates : Significance of non-human primate study in Biological Anthropology.

Unit-IV: Structure and function of an animal cell; cell theory and cell division. Essentials of Genetics ,Landmarks in the history of genetics principle in human genetics Mendel’s Laws of inheritance and its application to man ;Concept of race & UNESCO statement on Race; A comparative account of various races of the world.

#### Practical

**Credit-2**

- |                                |                                       |
|--------------------------------|---------------------------------------|
| 1. Maximum head length         | 9. Physiognomic facial height.        |
| 2. Maximum head Breadth        | 10. Morphological facial height.      |
| 3. Minimum frontal breadth     | 11. BPhysiognomic upper facial height |
| 4. Maximum Bizygomatic Breadth | 12. Morphological Upper facial height |
| 5. Head circumference          | 13. Stature.                          |
| 6. Nasal Height                | 14. Head Circumference                |
| 7. Nasal Length                | 15. Sitting height                    |
| 8. Nasal Breadth               | 16. Body weight                       |

#### Somatoscopy

- |              |                |                |                |
|--------------|----------------|----------------|----------------|
| 1. Head form | 2. Hair form   | 3. Facial form | 4. Eye form    |
| 5. Nose form | 6. Hair colour | 7. Eye colour  | 8. Skim colour |

### **Suggested Readings:-**

1. Jurmain R. Kilgore L. Travathan W.. Cuochon R.L.(2012),Introduction to Physical Anthropology Wardsworth Publ.USA..
2. Kroeber A.L. (1948) Anthropology .Oxford & IBH Publishing Co.,New Delhi.
3. Stanford C., Alien J.S. and Anton S.C. (2010) Exploring Biological Anthropology .The Essentials Prentice Hall Publ.USA.
4. Statement on Race: Annotated Elaboration and Exposition of the Four Statements on Race (1972),Issued By UNESCO ,Oxford University Press.
5. Stein P.L. and B.M. Row .1974.Physical Anthropology McGraw-Hill Inc.USA.  
Singh I.P. and M.K.Bhasin 1989 A. Laboratory Manual on Biological Anthropology; Anthropometry Kamal-Raj ,Enterprises,Delhi.

### **C2 : Introduction to Socio-Cultural Anthropology**

#### **Theory**

**Credit -4**

**UNIT-I :** Anthropological Perspective and orientation, scope and relevance of social anthropology; Relationship & social Anthropology with other disciplines.

#### **UNIT –II**

Concept of society & culture ;Status & role groups and institution ,social stratification and civil Society

#### **UNIT-III**

Social organization, social structure, Social Function, social system .

#### **UNIT-IV**

Theory and Practice of Ethnographic fieldwork ; Survey method comparative & Historical methods.

### **CREDIT-2**

Methods and Techniques of Social Anthropology : The Practical will include the following techniques and methods in collection of data in social Anthropology.

- (i) Observation ,(ii)Interview,(iii)Question aired and Schedule (iv) Case study (v) Life history.

### **Suggested Readings:-**

1. Beattie J.(1964) Other Cultures London : Cohen & West Limited.
2. Bernard H.R.(1940) .Research Methods in cultural Anthropology,Newbury Park. Sage Publication.
3. Davis K.(1981)*Human Society* New Delhi; Surjeet Publication.
4. Delaney C.(2004) Orientation and disorientation .In Investigating Culture; An experiential Introduction to Anthropology .Wiley –Blackwell.
5. Ember C.R. et at.(2011) .Anthropology New –Delhi :Dorling Kindersley.
6. Farraro G. and Andereatta S (2008) .In Cultural Anthropology; An Applied Perspective Belmont;Wardsworth.
7. Haviland ,Prins,Walrath McBride (2007) Introduction to Anthropology.Cengage Learning India Pvt.Ltd. New Delhi.
8. Haviland ,Prins,Walrath McBride (2008) Cultural Anthropology.Cengage Learning India Pvt.Ltd.New Delh.

9. Karen O'reilly.(2012). "Practical Issues in Interviewing Ethnographic Methods Abingdon ; Routledge.
10. Lang G/(1956) .Concept of status and Role in Anthropology; *Their Definitions and Use. The American catholic Sociological Review.*17(3) ;206-128.
11. O'reilly K .(2012)Ethnographic Methods ;Abingdon Routledge.
12. Parsons T (1968) The Structure of Social Action .New York; Free Press.
13. Repport N. and Overing J (2004) Key Concepts in Social and Cultural Anthropology .London. Routledge.
14. Royal Anthropological Institute of Great Britain and Ireland(1971),:Methods IN Notes and Queries on Anthropology. London Routledge & Kegan Paul Ltd.

### **C3 : Archeological Anthropology**

#### **Theory**

**Credit -4**

**UNIT-1 :** Introduction . Definition and scope of archaeological anthropology; Relation with other disciplines Methods of studying archaeological anthropology.

UNIT-II Methods of Estimation of Time and Reconstruction of the Past; Absolute dating methods: Radiocarbon 14 dating c14) ,Potassium-Argon, Fission Track Dating ;Relating dating methods. Stratigraphy. Paleontology ,Palynology.

UNIT-III: Geochronology of Pleistocene Epoch; Glacial and Interglacial; Pluviation and Inter Pluviation; Different types of geoclimatic events.

UNIT-IV; Understanding Culture ,Technique of tool manufacture and estimation of their relative efficiency; Classification of Tools; primary and combination fabrication techniques : Earliest evidence of culture in the world. Konso ,Olcuva Gorge Pirro Nord,Damanist ,Attirampakkam ,Isampur,Kuliana.

#### **Practical**

**Credit -2**

Type –technological Analysis of Prehistoric Tools :Identification ,Interpretation and Drawings of the tool Type

1. Core Tool Types
2. Flake Tool Types
3. Blade Tool Types
4. Microlithle Tool Types
5. Neolithle Tool Types

#### **Suggested Readings:-**

1. Allchin and Allchin(1993) The Rise of Civilization of India and Pakistan, Cambridge University Press.
2. Bhattacharya D.K.(1978).*Emergence of culture in Europe,Delhi*,B.R. Publication.
3. BhattacharyaD.K.(1979).*Old stone Age Tools and Technique* ,Calcutta ,K.P. Bagchi Company.
4. Bhattacharya D.K.(1996) .Paleolithic Europe ,Netherlands Humanities Press.
5. Champion et al.(1983) *Prehistoric, Europe* New York Academic Press.
6. Fagan B.M(1983)People of Earth :An Introduction ,Boston, Little, Brown & Company.
7. Phillipson D.W (2005) *African Archaeology,Cambridge* ,Cambridge University Press.
8. Sankalia H.D.(1964) Stone Age Tools Poona Deccan College.

### **C14: Anthropology of India**

#### **Theory**

#### **Credit -4**

**UNIT-I:** Origin history and development of Anthropology in India approaches to study .Indian society and culture –traditional and contemporary Racial and linguistic elements in Indian Population Understanding the diversity of Indian social structure –concept of Varna ,Jati, Caste. Ashram or purusharatha ,gender ,hierarchies –their economic and cultural impact .,origin and evolution of Social structures and their underlying philosophies .,Contribution of Contemporary biological social and Archaeological anthropologists in India.

**UNIT-II :** Aspects of Indian village –social ,organization, agriculture and impact of market economy on villages ;Tribal situation in India –biogenetic ,linguistic and socio-economic characteristics .Problems of tribal peoples ,land-alienation, indebtedness ,lack of educational facilities ,shifting-cultivation migration, forests and tribal unemployment ,health and nutrition tribal movement and quest for identity.

**UNIT-III:** Development projects –tribal displacement s and rehabilitation problem :Impact of culture contact .,urbanization and industrialization on the tribal and rural Population .Basic concept –Great tradition and little tradition ,sacred complex ,Universalization and parochialization, Sankritization and Westernization ,Dominant caste ,Tribal-caste. continuum ,Nature –man –spirit complex pseudotribalism.

**UNIT-IV;** Problems of exploitation and deprivation of scheduled caste/ tribe and other Backward caste .Constitutional Provisions for the scheduled caste and scheduled tribes. Evaluation and Development of Indian Population .Human Rights Protection and enforcement of Human rights .Human rights of special category and marginal groups .Emerging trends of human rights with respect of terrorism globalization and environment.

#### **Practical**

#### **Credit -2**

1. Identify various traits/variables which can be used in racial classification and comment on its relevance.
2. Review a book/edited volume on Indian social structure such as caste ,religion ,tribe of rural population and give its salient features.
3. Explore the biological diversity of any population group considering a minimum of five genetic traits.
4. Highlight the contributions of any two contemporary Indian anthropologists.

#### **Suggested Readings:-**

1. Nicholas D (2001) Castes of Mind ,Colonialism and the Making of Modern India Princeton University Press.
2. Bernard CS(2000) India :The Social Anthropology of Civilization Delhi,Oxford University Press.
3. Bhasin MK Water H and Danker –Hopfe H (1994) People of India –An Investigation of Biological variability in Ecological .Ethno-economic and Linguistic Groups Kamla Raj Enterprise Press.
4. Lopaz DS (1995) Religions of India in Practice ,Princeton University Press.
5. FGupta D Social Stratification Dekhi ,Oxford University Press.
6. Karve I (1961) Hindu society : AN Interpretation Poona,Deccan College.

7. Guha BS.(1931) The racial attributes of People of India .In Census of India 1931 vol.I.Part III (BPO.Simla)
8. Trautmann TR(2011) India.Brief History of Civilization Oxford University Press Delhi.
9. Vidyarthi LP and Rai BK(1976) The tribal culture of India Concept publishing Co.Delhi.
10. Haddon AC(1929) races of man Cambridge University London.
11. Kapoor A,K,(1992) Genetic Diversity among Himalayan Human Populations M/S Vinod Publisher Jammu.
12. Manjundar DN (1901) Races and Culture of India Asia Publishing House ,Bombay.
13. Dube SC(1992) Indian Society ,National Book Trust India, New Delhi.
14. Dumont L (1980) Homo Hierarchicus University of Chicago, Press.
15. Guha BS.(1931) The racial attributes of People of India .In Census of India 1931 vol.I.Part III (BPO.Simla).
16. Malhotra K,C.(1978) Morphological Composition of People of India ,J.Human Evolution.
17. Bailey.F.G.1960:Tribe,Caste and Nation :A study of Political Activity and Political Change in Highland Orissa,UK,Manchester University Press.

## **ELECTIVE COURSES (DSE)**

### **DSE 3. Human Genetics**

#### **Theory**

UNIT-1 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 transcriptions and RNA processing encoding genetic information decoding the codons the role of transfer RNAs.

UNIT-III: Methods of genetic study in Human Pedigree analysis and expressivity ; Chromosomal Basis of Genetic Disorders (Karyotypes and identification of chromosome variation .Nucleic Acid Hybridization Assays ,cytogenetic strategies (PCR based Sanger sequencing to Exome sequencing )concept of non Mendelian inheritance and complex diseases..

UNIT-IV; genomic Diversity & Human Evolution ,Genomic Variation Genomic Polymorphism(SNPs) VNTR CNVs etc) haplotypes and haplogroups ;genotype –phenotype , epigenetic ,Peopling of the Indian Subcontinent :Evidence from mt DNA and Y-chromosome .evolutionary genetics Molecular evolution DNA sequence variation and human origins.

#### **Practical(Any Two)**

**Credit -2**

1. Blood Collection transportation and storage in field.
2. DNA extraction from whole blood.
3. DNA Quantification .Aliquotting and sample preparation.
4. PCR and electrophoresis.
5. Gel documentation.

#### **Suggested Readings:-**

1. Strachan T and Read AP (2004) Human Molecular genetics ,Garland Science.

2. Brown TA(2007) Genomes Garland Science.
3. Griffiths AJF (2002) Modern Genetics Analysis :Integrating Genes and genomes WH Freeman Press.
4. Griffiths AJF Wessler SR Carroll SB Doebley J (2011) An Introduction to Genetic Analysis Macmillan Higher Education.
5. Cavalli-sforza LL ,Monozzi P Piazza A(1994) History and Geography of Human Genes Princeton University.
6. Cumming Michael R(2009) Human Genetics Cengage Learning India Pvt.Ltd Delhi.
7. Cumming Michael R(2011) Human Heredity Principles and Issues .Brooks .Cole Cengage Learning India Pvt. Ltd Delhi.
8. Gilblett ER (1969) Genetic Markers in Human Blood Blackwell Scientific Oxford.
9. Jobling M Harls M and Tyler-Smith C(2004) Human Evolutionary Genetics ,Origins Peoples & Disease <New York Garland Science.
10. Lewis R(2009) Human Genetics :Concepts and Application.The McGraw-Hill Companies.Inc.
11. Patch c(2005) Applied Genetics in Health care Tayler & Francis group.
12. Snustad D.P. and Simmons M.J. (2006) Principles of Genetics ,Fourth Edition ,John Wiley & Son USA,
13. 14.Verma P.S. and V.K. Aggarwal (1974) ,Cell Biology ,Genetics ,Molecular Biology , Evolutional and Ecology.S.Chand and Company Pvt.Ltd,New Delhi.
14. Vogel F and Motulsky A.G.(1996) Human Genetics Springer,3<sup>rd</sup> revised edition.

### **DSE 7. Anthropology of Religion ,Politics and Economy.**

#### **Theory**

**UNIT-I** Anthropological approaches to understand religion-margin, animism, animatism's, totemism naturism, witchcraft and socreey;Religious specialists Shaman,Priests ,mystics Overview of Anthropological .Theories of Religion .Religion as the sacrality of ecological adaptation and socialness.

**UNIT-II :** Economic institutions:Principles of production ,distribution and consumption insimple and complex societies critical examination of relationship between economy and society through neo classical, substantivist, and neo-Marxist approaches various forms for exchange ;barter, trade and market Forms of currencies reciprocities –generalized balanced and negative.

**UNIT-III:** Political institutions concepts of power and authority types of authority ,state and stateless societies ;Law and justice in simple and complex societies ,the prospects fordemocracy and tolerance among and within the world's diverse civilizations themeaning and sources of Identify in complex contemporary societies the origins of modern politics its institutions and cultures both Western and non-Western.

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

#### **Practical**

#### **Credit -2**

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

#### **Suggested Readings:-**

1. Durkheim E (1986) The elementary forms of the religious life a study in religious sociology .New York Macmillan.
2. Benedict A (2006) Imagined communities :Reflections on the Origin and Spread of Nationalism Verso.
3. Gledhill J (2000) Power and its Disguises Anthropological Perspectives on Politics 2<sup>nd</sup> ed.London Pluto Press.
4. Ellis F(2000\_ A framework for livelihood analysis .In Rural Livelihood and Diversity in developing Countries Oxford Oxford University Press.
5. Henrich J.Boyd R.Bowles S Camerer C Fehr E .Gintis H Mc Elreath R Alvard M et al. (2005) Economic Man' in cross-cultural perspective Behavioural Experiments in 15 small-scale societies Behaviour and Brain Science 28(6)765-815.
6. Henrich J (2002) Decision –Making cultural transmission and adaptation in economic anthropology in J E..
7. Lambek M (2008) A Reader in the Anthropology of Religion.
8. Eller JD (2007) Introducing Anthropology of Religion New York Routledge.
9. Glazier SD (1997) Anthropology of Religion , a Handbook Westport,ct Greenwood Press.
10. Frick GD. and Langer R (2010) Transfer and spaces. Harrassowitz (Germany).
11. Evens -Pritchard EE (1937) Witchcraft ,Oracles and Magic among the azande ,OxfordClerendon press.
12. Frazer JG(1978) .The Illustrated Golden Bough London Macmillan.
13. Barbara M (2011) Cultural Anthropology New Jersey Pearson education.
14. Ember CR(2011) Anthropology New Delhi Dorling Kindereslay.
15. Herskovits MI (1952) Economic Anthropology A study in Comparative Economics .New York. Alfred A Knofr Inc.
16. Malinowski B (1922) Arfonauts of the Western Pacific London,Routledge.
17. Polyani K et.at(1957) Trade and Market in the Early Empires Chicago ;Henry Regnery Company .
18. Balandier G. (1972) Political Anthropology Middlesex, Penguin.
19. Snsminger (Ed) Theory in Economic Anthropology (pp 251-295) Walnut Creeck CA Altamine Press.Bala

## **DSE 8. Tribal Culture s of India**

### **Theory**

**Credit-4**

**UNIT-I** Concept of tribes and its problematic nature ,General and specific characteristic of tribes Classification and distribution of tribes based on their economy ,occupation and religion. Racial Elements among the tribes scheduled and non0scheduled category of tribes Particularly Vulnerable Tribal Groups.(PVTGs) .

UNIT-II : Tribes –caste continuum, Gender and Tribe Distribution of tribes India..

UNIT-III: Tribes nomenclature –emic and etic differences :Tribal Movements problem of tribal development.

**UNIT-IV;** Forest policies and tribes ,Migration and occupational shift ,Tribal arts and aesthetics Displacement, rehabilitation and social change Globalization among Indian Tribes.

### **Practical**

**Credit -2**

1. Distribution of Indian Tribes PVTGs ST.

2. Location of Different tribes on the map of India.
3. Write an annotated bibliography on any one tribe.
4. Write the social structure of any one tribe of India.

**Suggested Readings:-**

1. Behera D.K and Georg pfeffer contemporary Society Tribal Studies Volume I to VII ,New Delhi Concept Publishing Company.
2. Georg Pfeiffer Hunters Tribes and Peasant Cultural Crisis and Comparison Bhubaneswar :Niswas.
3. Vidarthy L.P. and Rai Applied Anthropology in India.
4. Vidarthy L.P. and B.N Sahay Applied Anthropology and Development in India.,New Delhi .National Publishing House.