

DEPARTMENT OF ANTHROPOLOGY
KOHIMA SCIENCE COLLEGE (AUTONOMOUS), JOTSOMA
2024

NEP 2020: Outline of the syllabus for B.Sc/B.A in Anthropology

FIRST SEMESTER			
COURSE TYPE	COURSE CODE	COURSE TITLE	CREDITS
Major (MJ 1)	ANTH 1.11	Introduction To Basics Of Anthropology	4
Minor (MN 1)	ANTH 1.12	Introduction To Basics Of Anthropology	4
Multi-disciplinary MD 1	ANTH 1.13	Holistic Perspective to the Study of Human Beings	2+1
SEC 1	ANTH 1.14	Fieldwork Tradition In Anthropology	1+2
VAC 1	ANTH 1.15	Environmental Science	3
AECC	-	-	3
SECOND SEMESTER			
Major (MJ 2)	ANTH 2.11	Anthropology and Its Dimensions	3+1
Minor (MN 2)	ANTH 2.12	Anthropology and Its Dimensions	3+1
Multi-disciplinary MD 2	ANTH 2.13	Sports Anthropology	2+1
SEC 2	ANTH 2.14	Fitness and Wellness	1+2
VAC 2	ANTH 2.15	Tourism Anthropology	3
AECC	-	-	3
THIRD SEMESTER			
Major (MJ 3)	ANTH 3.11	Introduction to Biological Anthropology	3+1
Major (MJ 4)	ANTH 3.12	Introduction to Prehistoric Archaeology	3+1
Minor (MN 3)	ANTH 3.13	Introduction to Biological Anthropology	3+1
Multi-disciplinary (MD 3)	ANTH 3.14	Human Ecology: Biological and Cultural Dimensions	2+1
SEC 2	ANTH 3.15	Disaster Management	1+2
AECC	-	-	2
FOURTH SEMESTER			
Major (MJ 5)	ANTH 4.11	Anthropology In India-I	3+1
Major (MJ 6)	ANTH 4.12	Human Morphology	3+1
Major (MJ 7)	ANTH 4.13	Fundamentals of Human origin and Evolution	3+1
Major (MJ 8)	ANTH 4.14	Anthropological Theories	4
Minor (MN 4)	ANTH 4.15	Anthropology In India-I	3+1
FIFTH SEMESTER			
Major (MJ 9)	ANTH 5.11	Human Genetics	3+1
Major (MJ 10)	ANTH 5.12	Anthropology In India - II	3+1
Major (MJ 11)	ANTH 5.13	Pre-history of South Asia	4
Minor (MN 5)	ANTH 5.14	Pre-history of South Asia	4
Internship			4

SIXTH SEMESTER			
Major (MJ 12)	ANTH 6.11 (a) Or ANTH 6.11 (b)	Anthropology of Health Anthropology of Gender	3+1 4
Major (MJ 13)	ANTH 6.12	Research Methodology	3+1
Major (MJ 14)	ANTH 6.13	Introduction To World Prehistory	3+1
Major (MJ 15)	ANTH 6.14 (a) Or ANTH 6.14 (b)	Human growth and Development Physiological Anthropology	3+1 3+1
Minor (MN 6)	ANTH 6.15 (a) Or ANTH 6.15 (b)	Human growth and Development Physiological Anthropology	3+1 3+1
SEVENTH SEMESTER			
Major (MJ 16)	ANTH 7.11 (a) Or ANTH 7.11 (b)	Museology and Cultural Resource Management Ecological Anthropology	3+1 4
Major (MJ 17)	ANTH 7.12 (a) Or ANTH 7.12 (b)	Forensic Anthropology Human Population Genetics	3+1 4
Major (MJ 18)	ANTH 7.13	Sciences And Archaeology	4
Major (MJ 19)	ANTH 7.14	Anthropology of North- East India	4
Minor (MN 7)	ANTH 7.15	Museology and Cultural Resource Management	3+1
EIGHT SEMESTER			
Major (MJ 20)	ANTH 8.11	Applied Anthropology	3+1
Minor (MN 8)	ANTH 8.12	Applied Anthropology	3+1
OPTIONAL			
Major (MJ 21)	ANTH 8.13	Urban Anthropology	3+1
Major (MJ 22)	ANTH 8.14	Biological Diversity in Human Population	4
Major (MJ 23)	ANTH 8.15	Cultural Heritage Management, Tourism And Law	3+1
OR			
Major (MJ 24)	ANTH 8.16	Research Project/ Dissertation	12
Total Credit			160

FIRST SEMESTER

MJ 1: ANTH 1.11

INTRODUCTION TO BASICS OF ANTHROPOLOGY

Total Credit: 4

- UNIT I** Definition, Origin and development; Major Branches of Anthropology— Biological, Socio-Cultural, Linguistics and Archaeological; Essence of Anthropology- Holism, Relativism, Comparative method and Fieldwork. Applied and Action Anthropology.
- UNIT II** Socio-Cultural Anthropology: Scope, sub-branches, relationship with other social sciences. Basic Concepts of Culture- Material and Non-material culture; Society, Status and Role, Groups, Associations, Institutions, Social Structure, Social Organization. Factors of social and cultural change. Acculturation, Enculturation, Socialization. Political Anthropology; Economic Anthropology.
- UNIT III** Biological Anthropology: Scope and sub-branches of Physical Anthropology; relationship with other allied sciences; Basic terms and concepts: Classical Genetics, Organic evolution theories, Primatology and Paleo-anthropology.
- UNIT IV** Archaeology: Definition, Aims, Scope; Major Sub-discipline of Archaeology; Historical development of archaeology as a discipline; Relationship of archaeology with Biological and Socio-Cultural Anthropology, Zoology, Botany, Geology, Chemistry, Physics and History.

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). Introduction to Physical Anthropology. Wadsworth Publ., USA
2. Kroeber A. L. (1948). Anthropology. Oxford & IBH Publishing Co., New Delhi.
3. Stanford C., Allen J.S. and Anton S.C. (2010). Exploring Biological Anthropology. The Essentials. Prentice Hall Publ, USA.
4. Doshi, S.L. and Jain, P.C. 2009. Social Anthropology. Jaipur: Rawat Publications.
5. Ember C. R. et al. 2011. Anthropology. New Delhi: Dorling Kindersley
6. Haviland et. al. 2008. Anthropology. Australia: Wordsworth.
7. Kottak, C.P. (1996) Cultural Anthropology
8. Majumdar, D.N. and Madan, T.N. 1987. An Introduction to Social Anthropology. New Delhi: National Publishing House
9. Barsky, D. Human Prehistory: Exploring The Past To Understand The Future. Cambridge University Press.
10. Birx, H. J. 21st Century Anthropology: A Reference Handbook Vol. 1 & 2. Sage Publications, Inc.
11. Daniel, G. *A Short History of Archaeology*. Thames and Hudson Ltd.
12. Fagan, B. Ancient Lives: An Introduction to Archaeology and Prehistory. Routledge.
13. Fagan, B. In the beginning: An Introduction to Archaeology. Glenview: Scott, Foresman and company.
14. Gamble, C. *Archaeology: The Basics*. Routledge.
15. Hester, J. J. *Introduction to Archaeology*. Holt, Rinehart and Winston.
16. Hodder, I. *Interpreting Archaeology: Finding Meaning in the Past*. New York: Routledge.
17. Hodder, Ian. Theory and Practice in Archaeology. London: Routledge.
18. Hodder, I. & S. Hutson. *Reading the Past*. Cambridge University Press.
19. Rajan, K. *Archaeology: Principles and Methods*. Thanjavur: Manoo Pathippakam.
20. Raman K. V. *Principles and Methods in Archaeology*. Madras: Parthajan Publication.
21. Sutton, M. Q. *Archaeology: The Science of the Human Past*. Routledge.

MN 1: ANTH 1.12

INTRODUCTION TO BASICS OF ANTHROPOLOGY

Total Credit: 4

- UNIT I** Definition, origin and development; Major Branches of Anthropology— Biological, Social-Cultural, Linguistic and Archaeological; Essence of Anthropology- Holism, Relativism, Comparative method and Fieldwork. Applied and Action Anthropology.
- UNIT II** Social-Cultural Anthropology: Scope, sub-branches, relationship with other social sciences. Basic Concepts of Culture, Society, Groups, Associations, Institutions, Caste, Tribe, Social Structure, Social Organization, Status and Role. Factors of social and cultural change; Acculturation, Enculturation, Socialization. Political Anthropology; Economic Anthropology.
- UNIT III** Biological Anthropology: Scope and sub-branches of Physical Anthropology; relationship with other allied sciences; Basic terms and concepts: Classical Genetics, Organic evolution theories, Primatology and Paleo-anthropology.
- UNIT IV** Archaeology: Definition, Aims, Scope; Major Sub-discipline of Archaeology; Historical development of archaeology as a discipline; Relationship of archaeology with Biological and Socio-Cultural Anthropology, Zoology, Botany, Geology, Chemistry, Physics and History.

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). Introduction to Physical Anthropology. Wadsworth Publ., USA
2. Kroeber A. L. (1948). Anthropology. Oxford & IBH Publishing Co., New Delhi.
3. Stanford C., Allen J.S. and Anton S.C. (2010). Exploring Biological Anthropology. The Essentials. Prentice Hall Publ, USA.
4. Doshi, S.L. and Jain, P.C. 2009. Social Anthropology. Jaipur: Rawat Publications.
5. Ember C. R. et al. 2011. Anthropology. New Delhi: Dorling Kindersley
6. Haviland et. al. 2008. Anthropology. Australia: Wordsworth.
7. Kottak, C.P. (1996) Cultural Anthropology
8. Majumdar, D.N. and Madan, T.N. 1987. An Introduction to Social Anthropology. New Delhi: National Publishing House
9. Barsky, D. Human Prehistory: Exploring The Past To Understand The Future. Cambridge University Press.
10. Birx, H. J. 21st Century Anthropology: A Reference Handbook Vol. 1 & 2. Sage Publications, Inc.
11. Daniel, G. *A Short History of Archaeology*. Thames and Hudson Ltd.
12. Fagan, B. Ancient Lives: An Introduction to Archaeology and Prehistory. Routledge.
13. Fagan, B. In the beginning: An Introduction to Archaeology. Glenview: Scott, Foresman and company.
14. Gamble, C. *Archaeology: The Basics*. Routledge.
15. Hester, J. J. *Introduction to Archaeology*. Holt, Rinehart and Winston.
16. Hodder, I. *Interpreting Archaeology: Finding Meaning in the Past*. New York: Routledge.
17. Hodder, Ian. Theory and Practice in Archaeology. London: Routledge.
18. Hodder, I. & S. Hutson. *Reading the Past*. Cambridge University Press.
19. Rajan, K. *Archaeology: Principles and Methods*. Thanjavur: Manoo Pathippakam.
20. Raman K. V. *Principles and Methods in Archaeology*. Madras: Parthajan Publication.
21. Sutton, M. Q. *Archaeology: The Science of the Human Past*. Routledge

MD 1: ANTH 1.13
Holistic Perspective to the Study of Human Beings

Total Credit: 3

- Unit I** Definition of Anthropology and its main domains- Socio-Cultural, Linguistic, Biological and Archaeological Anthropology. Holism, Comparison, Relativism and Fieldwork. Applied Anthropology and relevance of Anthropology in contemporary world.
- Unit II** Basic Concepts of Culture- Material and Non-material culture; Society, Status and Role, Factors of social and cultural change. Acculturation, Enculturation, Socialization. Language, thought and Culture.
- Unit III** Basic Concepts of Paleoanthropology, Primatology, Human Genetics, Human Osteology, Forensic Anthropology, Human Variation and Adaptation, Anthropometry. Pre-history and archaeology- Its major sub-divisions and cultural achievements.

Suggested Readings

1. Roy, B.I. 2003 Anthropology The Study of Man. S Chand & Company Ltd.
2. Ember C. R. et al. 2011. Anthropology. New Delhi: Dorling Kindersley
3. Haviland et. al. 2008. Anthropology. Australia: Wordsworth.
4. Scupin, R. 2011. Cultural Anthropology: A Global Perspective. Delhi: Pearson.

SEC 1: ANTH 1.14
FIELDWORK TRADITION IN ANTHROPOLOGY

Total Credit: 1+2

- UNIT I** Field work tradition in Anthropology. Techniques of data collection – Primary and secondary data, qualitative and quantitative data.
- a) Primary data: Interview, participant and other forms of observation, schedules, questionnaire, case study, extended case method, genealogical method, sampling, types of sampling, pedigree method, RRA, PRA, RAP.
 - b) Secondary data: Census, documents and records, maps, reports and journals.

PRACTICAL

UNIT II Construction of interview schedule and questionnaire;

UNIT III Genealogical tree and pedigree analysis.

Suggested Readings

1. Ahuja R. Research methods. Rawat Publications. 2001
2. Bernard R. Research Methods in Anthropology: Qualitative and Quantitative Approaches. AltaMira Press. 2011.
3. Emerson RM, Fretz RI and Shaw L. Writing Ethnographic Fieldnotes. Chicago, University of Chicago Press.1995.
4. Lawrence NW. Social Research Methods, Qualitative and Quantitative Approaches. Boston: Allyn and Bacon. 2000.

5. O'reilly K. *Ethnographic Methods*. London and New York: Routledge. 2005.
6. Pelto PJ and Pelto GH. *Anthropological Research, The Structure of Inquiry*. Cambridge: Cambridge University Press. 1978.
7. Sarantakos S. *Social Research*. London: Macmillan Press. 1998.

VAC 1: ANTH 1.15
ENVIRONMENTAL SCIENCE
Theory Credit: 3

AECC
Theory Credit: 3

SECOND SEMESTER

MJ 2: ANTH 2.11
ANTHROPOLOGY AND ITS DIMENSIONS
Total Credit: 3+1

UNIT I Race- Definition, concept, historical background. UNESCO statement on Race, relevance of racial studies in anthropology. Major racial groups of mankind: general physical features and Racial criteria—Stature, Skin color, Hair, ABO system of blood group; Factors responsible for race formation.

UNIT II a. Concept of Social Institutions: Family (types, basic structure, functions, factors associated with the changes in joint family), Marriage- forms and functions; rules of marriage (Hypergamy, Hypogamy, Endogamy and Exogamy); Ways of Acquiring Mates; Prescribed, Proscribed and Preferential Marriage; Incest and Incest Taboo; Post-marital residential rules; Kinship (Definition, Typology, Degree), Kinship Terminologies, Kinship Systems, Kinship Behavior: Avoidance, Joking Relationship, Types of Descents.

b. Concept and theories/principles of Religion and Magic. Science, religion and magic. Magico-religious practitioners (Priest, Shaman, Sorcerer and Witch).

UNIT III Field methods of Archaeology – Exploration methods- Survey methods, Geo-Physical method, Ariel Survey, Excavation methods – Types of trenches - Test pits, Trail Trench, Step trench, Traditional Methods – Box Grid, Grid Method, Recent trends – Harris matrix. Chronology and Dating method: Numeric/Absolute dating method (Radio-carbon, Potassium Argon, Thermo luminescence, Palaeo-magnetism, Dendrochronology), Relative Dating (Stratigraphy, Fluorine-Nitrogen Analysis, Seriation, Zonal Concept).

PRACTICAL

UNIT IV Recording methods- 3D, Features, section drawing and trench layout.

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). *Introduction to Physical Anthropology*. Wadsworth Publ., USA
2. Kroeber A. L. (1948). *Anthropology*. Oxford & IBH Publishing Co., New Delhi.
3. Stanford C., Allen 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. Molnar S. (1982). *Human Variation: Races, Types and Ethnic groups*. New York: Pearson Education Inc.
6. Scupin, R. 2011. *Cultural Anthropology: A Global Perspective*. Delhi: Pearson.
7. Miller, Barbara. *Cultural Anthropology*. 6th ed. 2011. PHI Learning Private Limited: New Delhi.
8. Fox, Robin. 1983. *Kinship and Marriage: An Anthropological Perspective*. Cambridge University Press.
9. Nanda, Serena. 2006. *Cultural Anthropology*. USA: Cengage Learning.
10. Haviland et. al. 2008. *Anthropology*. Australia: Wordsworth.
11. Allchin and Allchin (1993). *The Rise of Civilization of India and Pakistan*. Cambridge University Press.
12. Bhattacharya D.K. (1978). *Emergence of Culture in Europe*, Delhi, B.R. Publication.
13. Bhattacharya D.K. (1979). *Old Stone Age Tools and Techniques*. Calcutta, K.P. Bagchi Company.
14. Bhattacharya D.K. (1996). *Palaeolithic Europe*. Netherlands, Humanities Press.
15. Champion et al. (1984). *Prehistoric Europe*. New York, Academic Press.
16. Fagan B.M. (1983). *People of Earth: An Introduction*. Boston, Little, Brown & Company

MN 2: ANTH 2.12

ANTHROPOLOGY AND ITS DIMENSIONS

Total Credit: 3+1

UNIT I Race- Definition, concept, historical background. UNESCO statement on Race, relevance of racial studies in anthropology. Major racial groups of mankind: general physical features and Racial criteria—Stature, Skin color, Hair, ABO system of blood group; Factors responsible for race formation.

UNIT II Concept of Social Institutions: Family (types, basic structure, functions, factors associated with the changes in joint family), Marriage- forms and functions; rules of marriage (Hypergamy, Hypogamy, Endogamy and Exogamy); Ways of Acquiring Mates; Prescribed, Proscribed and Preferential Marriage; Incest and Incest Taboo; Post-marital residential rules; Kinship (Definition, Typology, Degree), Kinship Terminologies, Kinship Systems, Kinship Behavior: Avoidance, Joking Relationship, Types of Descents.

UNIT III Field methods of Archaeology – Exploration methods- Survey methods, Geo-Physical method, Ariel Survey, Excavation methods – Types of trenches - Test pits, Trail Trench, Step trench, Traditional Methods – Box Grid, Grid Method, Recent trends – Harris matrix. Chronology and Dating method: Numeric/Absolute dating method (Radio-carbon, Potassium Argon, Thermo luminescence, Palaeo-magnetism, Dendrochronology), Relative Dating (Stratigraphy, Fluorine-Nitrogen Analysis, Seriation, Zonal Concept).

PRACTICAL

UNIT IV Recording methods- 3D, Features, section drawing and trench layout.

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). *Introduction to Physical Anthropology*. Wadsworth Publ., USA
2. Kroeber A. L. (1948). *Anthropology*. Oxford & IBH Publishing Co., New Delhi.
3. Stanford C., Allen 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. Molnar S. (1982). *Human Variation: Races, Types and Ethnic groups*. New York: Pearson Education Inc.
6. Scupin, R. 2011. *Cultural Anthropology: A Global Perspective*. Delhi: Pearson.
7. Miller, Barbara. *Cultural Anthropology*. 6th ed. 2011. PHI Learning Private Limited: New Delhi.

8. Fox, Robin. 1983. Kinship and Marriage: An Anthropological Perspective. Cambridge University Press.
9. Nanda, Serena. 2006. Cultural Anthropology. USA: Cengage Learning.
10. Haviland et. al. 2008. Anthropology. Australia: Wordsworth.
11. Allchin and Allchin (1993). The Rise of Civilization of India and Pakistan. Cambridge University Press.
12. Bhattacharya D.K. (1978). Emergence of Culture in Europe, Delhi, B.R. Publication.
13. Bhattacharya D.K. (1979). Old Stone Age Tools and Techniques. Calcutta, K.P. Bagchi Company.
14. Bhattacharya D.K. (1996). Palaeolithic Europe. Netherlands, Humanities Press.
15. Champion et al. (1984). Prehistoric Europe. New York, Academic Press.
16. Fagan B.M. (1983). People of Earth: An Introduction. Boston, Little, Brown & Company

MD 2: ANTH 2.13

SPORTS ANTHROPOLOGY

Total Credit: 2+1

- Unit I** Historical development of sports anthropology
- a) Physical fitness and conditioning, component of physical fitness. Training-techniques and physiological effects.
 - b) Environmental effects on physical performance: Effect of heat stress, cold stress and high altitude on physiological response and performance.
- Unit II** Somatotyping and human physique with reference to Sheldon, Parnell, Heath and Carter methods, Body composition and athlete sports selection and monitoring, doping and performance, health and nutrition.

PRACTICAL

- Unit III**
- a. Evaluate association of nutritional status and performance (Step test)
 - b. Blood Pressure and pulse rate

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 Disease in Traditional and Developing Societies. GA Harrison and JC Waterlow, eds. P. 307-325. Cambridge University Press. Cambridge.
3. Rozin P. (1987). Psychobiological Perspectives on Food Preferences. 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. FE Johnston, ed. Pp. 67-84. Liss. NY.
5. Ulijasek SJ and Strickland SS. (1993). Introduction. In Nutritional Anthropology: Prospects and Perspectives. Pp. 1-5. Smith Gordon. London

SEC 2: ANTH 2.14

FITNESS AND WELLNESS

Total Credit: 1+2

- UNIT I** Definition and meaning of physical fitness; components of health related and athletic related physical fitness. Definition and component of wellness- relationship between fitness, health and wellness. Factors influencing fitness- Age, sex, climate, nutrition, exercise and training.

Effects of physical activity on various systems of the body- health benefits of physical activity, assessment of cardio-respiratory fitness, musculoskeletal fitness. Aerobic and anaerobic exercises.

PRACTICAL

Unit II Cardiovascular function (Blood pressure, heart rate, pulse rate)

Unit III Evaluation of association between nutritional status and physical performance (Step test)

Suggested Readings

1. Cox, Corbin, C.B &Indsey, R., Concept of Physical Fitness, WC Brown, 1994
2. Giam, C.K &The K.C., Sport Medicine Exercise and Fitness, Singapore: P.G Medical Book, 1994
3. Gossellior, C., The Ultimate Guide to Fitness, London: Vermilion, 1995
4. Hoeger, W. K and S.A., Principles and Labs for Physical Fitness, Englewood Morton, 1999
5. Kirtani, Reema, Physical Fitness, Delhi: KhelSahitya, 1998
6. Maud, J. R. and Foster, C. Physiology Assessment of Human Fitness, New Delhi, 1995
7. Mcglynn, G., Dynamics of Fitness, Madison: W.C.B Brown, 1993
8. Muller, J.P., Health Exercise and Fitness, Delhi: Sports, 2000
9. Muller, J.P., Health Exercise and Fitness, Delhi: Sports. 2003
10. Saggar, S.K., Physical Fitness, New Delhi: Rupa Co., 1994
11. Sharkey, B.J., Physiology of Fitness, Human Kineticc Book, 1990

VAC 2: ANTH 2.15

TOURISM ANTHROPOLOGY

Theory Credit: 3

UNIT I Tourism- concept, features, types and prospects, comparing the tour and migration; tourism anthropology; Scope, interconnections between tourism history and the rise of the socio-cultural study of tourism.

UNIT II Impact of tourism on social cultural aspects, economy and environment; Commodification of culture. Relationships between heritage-making enterprises, revival and preservation projects; role of museums and other branches of the cultural industries (including music, art, and food) in tourism economies.

UNIT III New Directions in Anthropology of Tourism: Globalization (tourism and global mobility), Tourism and Terrorism; applied aspects of anthropology in tourism development and planning; Eco-tourism and sustainable development.

Suggested Readings

1. Chambers E. (2000). Native Tours: The Anthropology of Travel and Tourism. Prospect Heights: Waveland.
2. Crick M. (1995). The Anthropologist as Tourist: An Identity in Question. In Lanfant MF, Allcock JB, Bruner EM(eds.)International Tourism: Identity and Change. London: Sage. pp. 205-223.
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. Graburn NHH. (1977). Tourism: The Sacred Journey. Hosts and Guests: The Anthropology of Tourism. Valene L. Smith, ed. Philadelphia: University of Pennsylvania Press. Pp. 33-47.

6. Dann G. (2002). *The Tourist as a Metaphor of the Social World*. Wallingford: CAB International.
7. Nash D. (1996). *Anthropology of Tourism*. New York: Pergamon.
8. Kirshenblatt-Gimblett B.(1998). *Destination Culture: Tourism, Museums, and Heritage*.University of California Press.
9. Lippard LR. (1999). *On the Beaten Track: Tourism, Art and Place*. New Press.

AECC

Theory Credit: 3

THIRD SEMESTER

MJ 3: ANTH 3.11

INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

Total Credit: 3+1

- Unit I** History of Physical Anthropology and development of Modern Biological anthropology, its relationship with allied disciplines. Difference in the approaches of modern and traditional Biological Anthropology. History and development of understanding human variation and evolutionary thought. Theories of evolution- Lamarckism, Neo Lamarckism, Darwinism, Synthetic theory, Mutation and Neo-Mutation theory, Neutral theory (basic concept)
- Unit II** a) Position of Mans place in animal Kingdom,
b) Classification and characteristics of living primates, primate locomotion.
c) Comparative anatomy and behavior of human and non-human primates.
- Unit III** Race and racism, UNESCO statement on race, Classification of World population by Hooton; classification of Indian population by H.H. Risley, B.S. Guha, and S.S. Sarkar. Molecular genetics and race.

PRACTICAL

- Unit IV** a)Anthropometric instruments: Anthropometer, Sliding & Spreading Calipers, weighing machine, measuring tape.
- b)Somatometry (Minimum five subjects): Maximum head length & breadth, Maximum bizygomatic breadth & Bi-gonial breadth, Nasal length, Nasal height, Nasal breadth, Morphological facial height & Morphological upper facial height, Head circumference, Height vertex, sitting height vertex.
- c)Indices: Cephalic, nasal, upper facial index, total facial index, Jugo-mandibular index, Relative sitting height index (Measurements on at least five subjects.)
- d)Somatoscopy: Skin color, Hair (form, texture,colour), Eye (form, slit, colour& eyebrows), Nose (bridge, root), malar prominence, forehead (height and shape), chin form, ear (attachment & shape).

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). *Introduction to Physical Anthropology*. Wadsworth Publ., USA
2. Kroeber A. L. (1948). *Anthropology*. Oxford & IBH Publishing Co., New Delhi.
3. Stanford C., Allen 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. Das, B.M & Ranjan – Physical Anthropology Practical
6. Jannusch, J. Buettner – origins of Man
7. Hootan, E.A - up from the Ape
8. Comas, J – Manual of Physical Anthropology
9. Sarkar, R.M – Fundamentals of Physical Anthropology

MJ 4: ANTH 3.12

INTRODUCTION TO PREHISTORIC ARCHAEOLOGY

Total Credit: 3+1

- Unit 1** Prehistoric framework: Aims, scope and development of Pre-history. The Multidisciplinary Approach, Stone age and Metal age (Brief outline of Palaeolithic, Mesolithic and Neolithic period).
- Unit 2** Palaeo-environment: Geochronology of Neogene and Quaternary periods
- Unit 3** Prehistoric Tools: Bipedalism and Tool Making, Typology and Technology of Prehistoric Tool Manufacture

PRACTICAL

- Unit 4** Lithic technology: Identification, drawing, description and analysis of prehistoric stone tools (2 tools from each period). Students are to be taught drawing, description and analysis of tools from different cultural periods. They will submit the practical note book for internal evaluation

Recommended Readings

1. Dennell, R.W. *Palaeolithic Settlement of Asia*. Cambridge: Cambridge University Press.
2. Ember, C. R., M. Ember & P. N. Peregrine. *Anthropology*. Pearson Prentice Hall of India Pvt. Ltd., New Delhi
3. Fagan, B. M. and N. Durrani. *People of the Earth: An Introduction to World Prehistory*. Routledge.
4. Fagan, B. *Ancient Lives: An Introduction to Archaeology and Prehistory*. Routledge.
5. Fagan, B. *In the beginning: An Introduction to Archaeology*. Glenview: Scott, Foresman and company.
6. Gamble, C. *Archaeology: The Basics*. Routledge
7. Hester, J. J. *Introduction to Archaeology*. Holt, Rinehart and Winston. Inizan, Marie-Louise, Reduron-Ballinger, M., Roche, Helene and Tixier, Jacques. *Terminology of Knapped Stone*. Nanterre: CREP.
8. Sankalia, H. D. *Stone Age Tools: Their Techniques, Names and Probable Functions*. Pune: DCPRI.
9. Reddy, R. *Elements of Prehistory*. South Asia Books.
10. Scupin, R. and C. R. DeCorse. *Anthropology: A Global Perspective*. Pearson.
11. Sutton, M. Q. *Archaeology: The Science of the Human Past*. Routledge.

MN 3: ANTH 3.13

INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

Total Credit: 3+1

- Unit I** History of Physical Anthropology and development of Modern Biological anthropology, its relationship with allied disciplines. Difference in the approaches of modern and traditional Biological Anthropology. History and development of understanding human variation and evolutionary thought. Theories of evolution- Lamarckism, Neo Lamarckism, Darwinism, Synthetic theory, Mutation and Neo-Mutation theory, Neutral theory (basic concept)

- Unit II** a) Position of Mans place in animal Kingdom,
b) Classification and characteristics of living primates, primate locomotion.
c) Comparative anatomy and behavior of human and non-human primates.
- Unit III** Race and racism, UNESCO statement on race, Classification of World population by Hooton; classification of Indian population by H.H. Risley, B.S. Guha, and S.S. Sarkar. Molecular genetics and race.

PRACTICAL

- Unit IV** a) Anthropometric instruments: Anthropometer, Sliding & Spreading Calipers, weighing machine, measuring tape.
- b) Somatometry (Minimum five subjects): Maximum head length & breadth, Maximum bizygomatic breadth & Bi-gonial breadth, Nasal length, Nasal height, Nasal breadth, Morphological facial height & Morphological upper facial height, Head circumference, Height vertex, sitting height vertex.
- c) Indices: Cephalic, nasal, upper facial index, total facial index, Jugo-mandibular index, Relative sitting height index (Measurements on at least five subjects.)
- d) Somatoscopy: Skin color, Hair (form, texture, colour), Eye (form, slit, colour & eyebrows), Nose (bridge, root), malar prominence, forehead (height and shape), chin form, ear (attachment & shape).

Suggested Readings

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). Introduction to Physical Anthropology. Wadsworth Publ., USA
2. Kroeber A. L. (1948). Anthropology. Oxford & IBH Publishing Co., New Delhi.
3. Stanford C., Allen 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. Das, B.M & Ranjan – Physical Anthropology Practical
6. Jannusch, J. Buettner – origins of Man
7. Hootan, E.A - up from the Ape
8. Comas, J – Manual of Physical Anthropology
9. Sarkar, R.M – Fundamentals of Physical Anthropology

MD 3: ANTH 3.14

HUMAN ECOLOGY: BIOLOGICAL & CULTURAL DIMENSIONS

Total Credit: 2+1

- Biological Dimensions*
- Unit I** Concepts in Ecology: Definition, eco-sensitivity adaptation, acclimation and acclimatization, biotic and abiotic component. Methods of studying human ecology, Adaptation to various ecological stresses; Ecological rules and their applicability to human populations.
- Cultural Dimensions*
- Unit II** a) Culture as a tool of adaptation; various modes of human adaptation in pre-state societies;
i. Hunting and food gathering
ii. Pastoralism
iii. Shifting cultivation
b) Impact of urbanization and industrialization on Man.
c) Industrial civilization and growth of urban societies

PRACTICAL

Unit III Drawing, identification & description of technological implements from the department collection. (Implements for food gathering, hunting, fishing & agriculture)

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) Stapledon. Faber & Faber.
4. Studies in Human Ecology. (1961) Theodorson, G.A. Row, Peterson & Company Elmsford, New York.
5. Human ecology: (1973) Problems and Solutions. Paul R. Ehrlich, Anne H. Ehrlich and John P. Holdress. W.H. Freeman & Company, San Francisco.
6. Cohen, Yehudi A. 1968. Man in adaptation; the cultural present. Chicago: Aldine Pub. Co.
7. Redfield, Robert. (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.

SEC2: ANTH 3.15

DISASTER MANAGEMENT

Total Credit: 1+2

- Unit 1**
- a) Introduction to disaster: Definition and concept, types, vulnerability, risk and coping with disaster.
 - b) Disaster risk reduction crisis management, needs of disaster assessment: types and technique, Disaster response by Central, State and Local Authority, disaster recovery and rehabilitation.

PRACTICAL

Unit II Identification of first aid items/instruments/equipments, first aid in common medical emergencies, carriage of sick and wounded, types and usage of fire extinguisher.

Unit III Report Writing (Student will choose any topic related to any types of disaster – natural and man made, at International, National, Regional and Local level occurred during last 10 years and students have to submit a report relevant to disaster management).

Selected Readings

1. Disaster Management Guidelines, GOI-UND Disaster Risk Program (2009-2012) 2
2. Damon, P. Copola, (2006) Introduction to International Disaster Management, Butterworth Heineman.
3. Gupta A.K., Niar S.S and Chatterjee S. (2013) Disaster management and Risk Reduction, Role of Environmental Knowledge, Narosa Publishing House, Delhi.
4. Murthy D.B.N. (2012) Disaster Management, Deep and Deep Publication PVT. Ltd. New Delhi.
5. Modh S. (2010) Managing Natural Disasters, Mac Millan publishers India LTD.
6. Carter, W. Nick (1991), Disaster Management: A Disaster Manager's Handbook, Asian Development Bank, Manila
7. Green Stephen. 1980. International Disaster Relief: Towards A Responsive system, Mc Graw Hill Book Company, New York.

8. Prakash, Indu (1995), Disaster Management, Rashtra Prahari Prakashan, Gaziaba
9. Talwar, Arun Kumar, Juneja and Satish (2008): Encyclopedia of Disaster Management (10 volumes)-saujanya books, Delhi
10. Damon P. Coppola (2006) : Introduction to International Disaster Management. 11. Smith K and Petley DN. (2009): Environmental Hazards: Assessing risk and reducing disaster. 5th edition, Routledge: New York.
11. NCC cadet training handbook common subject (2017), D.G NCC Delhi.
12. United Nations Volunteers (2011), Inspiring Youth, UNV Annual Report 2010.

AECC

Theory Credit: 2

FOURTH SEMESTER

MJ 5: ANTH 4.11

ANTHROPOLOGY IN INDIA-I

Total Credit: 3+1

- Unit I** Anthropological concept of Tribe and Peasants in India:
 a) Definition & Features of tribes and peasants in India
 b) Classification of Indian tribes: biogenic variables, linguistic and socioeconomic characteristics, geographical distribution of tribal India
 c) The history of tribal administration (pre and post-Independence).
- Unit II** Issues of Tribal development in India: Problems of tribal peoples: land-alienation, indebtedness, lack of educational facilities, shifting-cultivation, migration, forests, tribal unemployment, health and nutrition. Tribal development schemes & programmes
- Unit III** Anthropological concept of Village & Social Movements:
 a) Indian village - social organization, economy, concept & characteristics of Caste system, Impact of globalization on Indian village.
 b) Ethnicity and Identity Issues: causes and types of Tribal and peasant movements (Indigo movement, Champaram Satyagraha, Naga movement and Bodo movement).

PRACTICAL

- Unit IV** Identification, mapping and distribution of Indian tribes

Note: As a part of the classroom practical, the students will be made to draw the map and trace the location of the tribal population in India on the basis of biogenic variability, linguistic affiliation, territorial distribution, subsistence pattern and cultural characteristics.

Suggested Readings

1. 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 Enterprises, Delhi
2. Das, Veena (ed). 2003. The Oxford India Companion to Sociology and Social Anthropology, Delhi, OUP, 2003, 2 volumes.
3. Dube, SC. (1998). Indian Village. Delhi: Psychology Press.
4. Guha BS. (1931). The racial attributes of people of India. In: Census of India, 1931, vol I, Part III (BPO, Simla)
5. Hasnain, Nadeem. 1991. Tribal India. Delhi: PalakaPrakashan
6. Hasnain, Nadeem. 1988. Indian Anthropology. Delhi: PalakaPrakashan
7. Madan V. 2002. The Village in India. Oxford University Press: Delhi
8. Majumdar DN. (1901). Races and Culture of India. Asia Publishing House, Bombay

9. Majumdar, D.N. and Madan, T.N. 1987. An Introduction to Social Anthropology. New Delhi: National Publishing House
10. McKim Marriott (ed.) 1955. Village India. Illinois: University of Chicago Press.
11. Nandini Sundar (ed). 2016. The Scheduled Tribes and Their India. Oxford in India Readings in Sociology and Social Anthropology.
12. Nathan D. 1998. Tribe-Caste Question. Simla: IAS.
13. National Tribal Policy (draft). 2006. Ministry of Tribal Affairs. Government of India.
14. Pandey, Gaya. 2015. Bhartiya Manav Shastra, concept, New Delhi
15. Patnaik S.M. 1996. Displacement, Rehabilitation and Social change. Inter India Publication, Delhi.
16. Sahay, V.S. and Singh, P.K. : Indian Anthropology
17. Sahlin M.D. 1968. Tribesman. Prentice Hall.
18. Shah G. 2002. Social Movement and the State. Delhi: Sage.
19. Shanin T. 1987. Peasants and Peasantry. New York, Blackwell.
20. Srinivas, M.N. (Ed.) 1961. India's Villages. New York and Bombay: Asia Publishing House. Second revised edition.
21. Srivastava, Vinay Kumar. 2021. India's Tribes: Unfolding Realities. New Delhi: SAGE Publications India Pvt. Ltd.
22. Vidyarthi L.P. and Rai B.K. 1985. Tribal Culture in India, New Delhi, Concept Publishing Company.
23. von Fürer-Haimendorf, C. 1982. Tribes of India: The Struggle for Survival. Berkeley: University of California Press.
24. Wolf E. 1966. Peasants. NJ, Prentice Hall

MJ 6: ANTH 4.12

HUMAN MORPHOLOGY

Total Credit: 3+1

- Unit I**
- a) Skeletal morphology: Definition and function of skeleton, classification of bones; articulations of bones (sutures and bones)
 - b) Cranial osteology: the human cranium – name, number, features and determination of side of the constituent bones
 - c) Different views/normas (vertical, frontal, lateral, occipital, and basal views) of skull. [For these 'views', only salient features and their evolutionary significance, if any, to be studied].
- Unit II**
- Post-cranial osteology: vertebral column, pectoral girdle, thoracic cage, pelvic girdle, upper and lower extremity bones – name, number and features. Determination of side of the bones – scapula, clavicle, humerus, radius, ulna, innominate, femur, tibia, fibula.
Human dentition (basic structural features), dental formula (deciduous and permanent) and evolutionary significance (brief outline)
- Unit III**
- Identification of age and sex from adult skull and pelvis. Concepts and facts regarding skeletal modifications as a consequence of evolution; erect bipedalism, grips. External morphological features of man (Hair, nose and eye) in relation to evolution

PRACTICAL

- Unit IV**
- a) Identification of human skull bones: (frontal, parietal, temporal, occipital, maxilla, zygomatic, ethmoid, sphenoid, mandible). Sides to be identified for the paired bones.
 - b) Identification of human post-cranial bones: Vertebral column (atlas, axis, typical cervical, thoracic, lumbar, sacrum), sternum, clavicle, scapula, humerus, radius, ulna, innominate, femur, tibia, fibula. Sides to be identified for the paired bones.
 - c) Identification of sex from skull and pelvis.
 - d) Identification of human deciduous and permanent teeth.

Suggested Reading

1. Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). Introduction to Physical Anthropology. Wadsworth Publ., USA
2. Kroeber A. L. (1948). Anthropology. Oxford & IBH Publishing Co., New Delhi.

3. Stanford C., Allen J.S. and Anton S.C. (2010). *Exploring Biological Anthropology. The Essentials.* Prentice Hall Publ, USA.
4. Scupin R. and DeCorse C. (1998). *Anthropology: A global Perspective.* Prentice Hall Inc. USA.
5. Rastogi S and Shukla B. R. K. (2003). *Laboratory Manual of Physical Anthropology.* Bharat Book Center, Lucknow, India.
6. Mukherjee D., Mukherjee D. and Bharati. (2009). *Laboratory Manual for Biological Anthropology.* Asian Books Pvt. Ltd. New Delhi, India.
7. Mitra S. (2001). *Anatomy.* Academic Press. Kolkatta, India

MJ 7: ANTH 4.13

FUNDAMENTALS OF HUMAN ORIGIN AND EVOLUTION

Total Credit: 3+1

- Unit I** Primate origins and radiation with special reference to Miocene hominoids: Ramapithecus, distribution, features and their phylogenetic relationships. Relevance of primate study; genetic evidence of common ancestry.
- Unit II** a) Australopithecines: Distribution, features and their phylogenetic relationships.
b) Appearance of genus Homo (*Homo habilis*) and related finds.
c) *Homo erectus* from Asia, Europe and Africa: Distribution, features and their phylogenetic status.
- Unit III** The origin of *Homo sapiens*: Fossil evidences of Neanderthals and Archaic *Homo sapiens sapiens*, Ancient DNA (scopes and basic outline)
Origin of modern humans (*Homo sapien sapiens*): Distribution and features, Hominisation process.

PRACTICAL

- Unit IV**
1. Osteology: Drawing and study of bones
 2. Craniometry
 - a. Linear measurements: Maximum cranial length, Maximum cranial breadth, least frontal Breadth, Maximum bizygomatic breadth, Greatest frontal breadth, Glabella-inion length, Nasion-inion length, Nasion-basion length, Bi-maxillary breadth, Nasal length, Nasal breadth, Nasion prosthion length, Bi-mastoidal breadth, orbital breadth, orbital height, occipital breadth, Length of occipital foramen, Breadth of occipital foramen, Prosthion-basionlength, Frontal chord Parietal Chord, Occipital chord.
 - b. Curvilinear or arc measurements: Frontal arc, Parietal arc, Occipital arc, sagittal cranial arc, Horizontal circumference.
 - c. Measurements on mandible: Bi-condylar breadth, Bi-gonial breadth, Length of mandible.

Suggested Readings

1. Buettner-Janusch, J. (1966). *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. (1977). *Horizons of Anthropology.* Eds. S. Tax and L.G. Freeman, Aldine Publishing House, Chicago.
4. Nystrom P. and Ashmore P. (2011). *The Life of Primates.* PHI Learning Private Limited, New Delhi.
5. Seth P. K. and Seth S. (1986). *The Primates.* Northern Book Centre, 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. Stanford C.; Allen 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 to the Primates.* Overseas Press India Pvt. Ltd., New Delhi.

MJ 8: ANTH 4.14

ANTHROPOLOGICAL THEORIES

Total Credit: 4

- Unit I** Introduction to anthropological theories. Evolutionary theory, changing perspective of Evolutionism (Tylor, Morgan, Steward & White)
- Unit II** Diffusionism: Basic postulates of diffusionism: British, American & German school of diffusionism (W.H.R Rivers, G.E. Smith, Franz Boas, A.L Kroeber, Friedrich Ratzel, F. Graebner)
- Unit III** a) Social integration, Functionalism and Structural Functionalism (Emile Durkheim, Malinowski and Radcliffe Brown)
- b) Culture & personality (Benedict, M. Mead, Kardiner, R. Linton, Cora du bois)
- Unit IV** New Ethnography , Cognitivism , Symbolic & Interpretative Anthropology (Marvin Harris, Goodenough , S.Tyler , D' Andrade, Clifford Geertz , Victor Turner , Mary Douglas)

Suggested Readings

1. Applebaum, H.A. 1987. Perspectives in Cultural Anthropology. Albany: State University of New York.
2. Barnard, A. 2000. History and Theory in Anthropology. Cambridge: Cambridge University.
3. Clifford, James and George E. Marcus 1986. Writing culture: the poetics and politics of ethnography. Berkeley: University of California Press.
4. Goffman, E. 1959. The Presentation of Self in Everyday Life. University of Edinburgh Social Sciences Research Centre. Anchor Books.
5. Harris, Marvin. 1968. Rise of Anthropological Theories: A History of theories of Culture. Routledge and Kegan Paul.
6. Jha, Makhan. 1994. An Introduction to Anthropological Thought. New Delhi: Vikas Publishing House Pvt.Ltd.
7. McGee R.J. and Warms R.L. 1996. Anthropological Theories: An Introductory History.
8. Moore, Jerry D. 2009. Visions of Culture: An Introduction to Anthropological Theories and Theorists. Third Edition. US: Alta Mira Press.
9. Moore M. and Sanders T. 2006. Anthropology in Theory: Issues in Epistemology, Malden, MA: Blackwell Publishing.
10. Pandey and Upadhaya. 2002. History of Anthropological Thoughts. New Delhi: Concept Publishing Company.

MN 4: ANTH 4.15

ANTHROPOLOGY IN INDIA-I

Total Credit: 3+1

- Unit I** Anthropological concept of Tribe and Peasants in India:
a) Definition & Features of tribes and peasants in India
b) Classification of Indian tribes: biogenic variables, linguistic and socioeconomic characteristics, geographical distribution of tribal India
c) The history of tribal administration (pre and post-Independence).
- Unit II** Issues of Tribal development in India: Problems of tribal peoples: land-alienation, indebtedness, lack of educational facilities, shifting-cultivation, migration, forests, tribal unemployment, health and nutrition. Tribal development schemes & programmes

- Unit III** Anthropological concept of Village & Social Movements:
- c) Indian village - social organization, economy, concept & characteristics of Caste system, Impact of globalization on Indian village.
 - d) Ethnicity and Identity Issues: causes and types of Tribal and peasant movements (Indigo movement, Champaram Satyagraha, Naga movement and Bodo movement).

PRACTICAL

- Unit IV** Identification, mapping and distribution of Indian tribes

Note: As a part of the classroom practical, the students will be made to draw the map and trace the location of the tribal population in India on the basis of biogenic variability, linguistic affiliation, territorial distribution, subsistence pattern and cultural characteristics.

Suggested Readings

1. 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 Enterprises, Delhi
2. Das, Veena (ed). 2003. The Oxford India Companion to Sociology and Social Anthropology, Delhi, OUP, 2003, 2 volumes.
3. Dube, SC. (1998). Indian Village. Delhi: Psychology Press.
4. Guha BS. (1931). The racial attributes of people of India. In: Census of India, 1931, vol I, Part III (BPO, Simla)
5. Hasnain, Nadeem. 1991. Tribal India. Delhi: PalakaPrakashan
6. Hasnain, Nadeem. 1988. Indian Anthropology. Delhi: PalakaPrakashan
7. Madan V. 2002. The Village in India. Oxford University Press: Delhi
8. Majumdar DN. (1901). Races and Culture of India. Asia Publishing House, Bombay
9. Majumdar, D.N. and Madan, T.N. 1987. An Introduction to Social Anthropology. New Delhi: National Publishing House
10. McKim Marriott (ed.) 1955. Village India. Illinois: University of Chicago Press.
11. Nandini Sundar (ed). 2016. The Scheduled Tribes and Their India. Oxford in India Readings in Sociology and Social Anthropology.
12. Nathan D. 1998. Tribe-Caste Question. Simla: IAS.
13. National Tribal Policy (draft). 2006. Ministry of Tribal Affairs. Government of India.
14. Pandey, Gaya. 2015. Bhartiya Manav Shastra, concept, New Delhi
15. Patnaik S.M. 1996. Displacement, Rehabilitation and Social change. Inter India Publication, Delhi.
16. Sahay, V.S. and Singh, P.K. : Indian Anthropology
17. Sahlins M.D. 1968. Tribesman. Prentice Hall.
18. Shah G. 2002. Social Movement and the State. Delhi: Sage.
19. Shanin T. 1987. Peasants and Peasantry. New York, Blackwell.
20. Srinivas, M.N. (Ed.) 1961. India's Villages. New York and Bombay: Asia Publishing House. Second revised edition.
21. Srivastava, Vinay Kumar. 2021. India's Tribes: Unfolding Realities. New Delhi: SAGE Publications India Pvt. Ltd.
22. Vidyarthi L.P. and Rai B.K. 1985. Tribal Culture in India, New Delhi, Concept Publishing Company.
23. von Fürer-Haimendorf, C. 1982. Tribes of India: The Struggle for Survival. Berkeley: University of California Press.
24. Wolf E. 1966. Peasants. NJ, Prentice Hall

FIFTH SEMESTER

MJ 9: ANTH 5.11 HUMAN GENETICS

Theory Credit: 3+1

- Unit I** Introduction: Definition, Sub-branches, aims and applications of human genetics and its relevance in anthropology.
- a) Mendelian inheritance: Mendel's law and its application to man; modes of inheritance of Mendelian traits in man—autosomal dominant, autosomal recessive; sex-linked inheritance

(with reference to common examples)- X-linked dominant and recessive inheritance in man. Co-dominant inheritance, multiple allelism, polymorphism.

b) Alteration of Mendelian ratios: Brief introductions to— lethal alleles, incomplete dominance, epistasis, pleiotropy, sex-limited and sex-controlled traits, penetrance and expressivity, genetic heterogeneity, linkage.

c) Inheritance of complex traits: Concepts of complex traits, continuous and discontinuous traits, quantitative traits; threshold value; examples of multifactorial and polygenic traits in humans: stature and dermatoglyphics.

d) Methods of studying human genetics with special reference to family study, twin study. Eugenics and genetic counseling.

- Unit II**
- a) The chromosome: Structure, size and shape of human chromosome; histones and nonhistone protein, Normal human karyotype. Classification of chromosomes – Denver system. Chromosome banding (brief outline)
 - b) Concept of DNA and RNA –Types and function of DNA and RNA, double helix, Genetic code.

- Unit III**
- a) Concept of Gene, function and type of genes, basic structural features of typical human gene (Hemoglobin).
 - b) Chromosomal abnormalities: Concepts of Ploidy numerical abnormalities with special reference to the etiology and clinical features of Down's, Turner's, and Klinefelter's syndromes; structural abnormalities: brief introduction to translocation, deletion, inversion, duplication, ring chromosome, and isochromosome.

PRACTICAL

- Unit I**
- Students should be acquainted to undertake the following tests or observations and record the results in the laboratory notebook:
- a. ABO and Rh (D) Blood groupings: Students should be taught in determining ABO and Rh (D) Blood groups of at least 5 subjects following standard technique.
 - b. Testing of Colour vision (Colour blindness): Ishihara's chart (1979) should be used and tests should be demonstrated as suggested. Inference should be recorded on at least 5 subjects.

Suggested readings

1. Lewis R. (2009). Human Genetics: Concepts and Applications 9th Edition. The McGraw-Hill Companies, Inc.
2. Cavalli-Sforza, L.L. and Bodmer, W.F (1971). The Genetics of Human Population. San Francisco: Freeman.
3. Snustad D. P. and Simmons M.J. (2006). Principles of Genetics, Fourth Edition, John Wiley & Sons USA, Hoboken NJ.
4. Vogel F. and Motulsky A.G. (1996). Human Genetics. Springer, 3rd revised edition. 21
5. Stern C. (1970). Principles of Human Genetics. Freedman, San Francisco.
5. Mange E. J. and Mange A. P. (1994). Basic human Genetics. Sinauer Associates, Inc, USA. (Indian Reprint edtn by Rastogi Publications, Meerut.
6. Cummings M.R. (2011). Human Heredity: Principles and Issues. Ninth Edition. Brooks/Cole, Cengage Learning.
7. Weiner J.S. and. Lourie J.A .1981. Practical human biology, London; New York: Academic Press

MJ 10: ANTH 5.12

ANTHROPOLOGY OF INDIA – II

Total Credit: 3+1

- Unit I**
- a) Emergence and growth of Anthropology in India; Approaches to study of Indian society and culture (Indological, Historical, Anthropological and Structural functionalism).

b) Understanding the diversity of Indian social structure- Concept of Varna, Jati/Caste. Theories of origin of caste system, Ashram and purusharathas. Changes in the caste system.

Unit II Impact of culture- contact, urbanization and industrialization on rural population. Basic concepts- Great tradition and little tradition, Universalization and parochialization, Sanskritisation and Westernization, Dominant caste, Nature-Man-Spirit complex, sacred complex.

Unit III Problems of exploitation and deprivation of scheduled caste/tribe and Other Backward classes. Constitutional Provisions for the Scheduled caste and scheduled tribes.

PRACTICAL

UNIT IV Drawing, identification & description of technological implements from the department collection. (Implements for food gathering, hunting, fishing & agriculture)

Suggested Readings

1. Ahuja, Ram. 2013. Indian Social System. Jaipur: Rawat Publications.
2. Bernard CS. 2000. India: The Social Anthropology of Civilization. Delhi: Oxford University Press.
3. Dube SC. 1992. Indian Society. National Book Trust, India: New Delhi.
4. Dumont L. 1980. Homo Hierachicus. University of Chicagon Press.
5. Guha B.S. 1931. The racial attributes of people of India. In : Census of India, 1931, vol I, Part III (BPO, Simla)
6. Hasnain, Nadeem. 1991. Tribal India. Delhi: Palaka Prakashan
7. Hasnain, Nadeem. 1988. Indian Anthropology. Delhi: Palaka Prakashan
8. Hasnain, Nadeem. 2004. India Society and Culture: Continuity and Change. New Delhi: Jawahar Publisher and Distributors.
9. Karve, I. 1961. Hindu Society: An Interpretation. Poona : Deccan College
10. Nicholas D. 2001. Castes of Mind: Colonialism and the Making of Modern India. Princeton University Press.
11. Peter Berger and Frank Heidemann (eds). 2013. The Modern Anthropology of India: Ethnography, themes and theory. Routledge.
12. Patricia Uberoi, NandiniSundar, SatishDeshpande (eds). 2007. Anthropology in the East. Permanent Black
13. Peter Berger. 2012. Theory and ethnography in the modern anthropology of India. Journal of Ethnographic Theory.
14. SatishDeshpande. 2001. Disciplinary predicaments: sociology and anthropology in postcolonial India.
15. Srinivas, MN. 1962, Caste in Modern India and other essays. Asia Publishing House
16. Srinivas, MN. 1966. Social Change in Modern India. Orient Blackswan Private Limited.
17. Trautmann TR. 2011. India: Brief history of Civilization. Oxford University Press : Delhi ‘
18. Xaxa, Virginia. 2008. State, Society, and Tribes: Issues in Post-Colonial India. New Delhi: Pearson Education India
19. L. P. Vidyarthi, 1961: *The Sacred Complex in Hindu Gaya*. Delhi: Concept Publishing Company.
20. L. P. Vidyarthi, 1963: *The Maler: A Study of the Nature-Man-Spirit complex*. University of Michigan: Bookland.

MJ 11: ANTH 5.13

PREHISTORY OF SOUTH ASIA

Total Credit: 4

Unit 1 **The Quaternary Period:** Introduction to the Quaternary, Methods for reconstructing palaeoenvironment, Soil pH estimation, and Quaternary environments in India.

Unit 2 **The Lower Palaeolithic culture (Acheulian):** Nature and significance of the technology, Distribution and Variation, Important areas, Associated Fauna, Chronology.

Unit 3 **The Middle and Upper Palaeolithic culture:** Nature and significance of the technology, Distribution and Variation, Important areas, Associated Fauna, Chronology.

Unit 4 **Mesolithic and Neolithic culture:** Nature and significance of the technology, Distribution and Variation, Important areas, Associated Fauna, Chronology.

Recommended Readings

1. Agarwal, D. P. *The Archaeology of India*. Curzon Press.
2. Allchin, B. and Allchin, R. *The Birth of Indian Civilisation*, London.
3. Bhattacharya, D. K. *Outline of Indian Prehistory*. Palaka Prakashan.
4. Chakrabarti, D.K. *A History of Indian Archaeology: From the Beginning to 1947*. New Delhi: Munshiram Manoharlal.
5. Chakravarty, K. K., and R. G. Bednarik. *Indian Rock Art in Global Context*. Delhi: Motilal Banarasiidass & IGRMS.
6. Clark, J.D. and Sharma, G.R. (Eds.) *Palaeoenvironment and Prehistory in the Middle Son Valley, Madhya Pradesh, North Central India*. Allahabad: Abinash Prakashan.
7. Cole, S. *The Neolithic Revolution*. British Museum.
8. Corvinus, G. *A Survey of the Pravara River System in Western Maharashtra, India, Vol 2: The Excavations of the Acheulian Site of Chirki-on-Pravara, India*. Tubingen: Institute for Urgeschichte.
9. Corvinus, G. *Prehistoric Cultures in Nepal: From the Early Palaeolithic to the Neolithic and the Quaternary Geology of the Dang-Deokhuri Dun Valleys*, Volume 1. Friedrich-Alexander-Universität Erlangen-Nürnberg. Institut für Ur- und Frühgeschichte. Harrassowitz Verlag.
10. de Terra, H. and T.T. Paterson (Eds.). *Studies on the Ice Age in India and Associated Human Cultures*. Washington: Carnegie Institution of Washington Publication No.493.
11. Dennell, R. W. *Palaeolithic Settlement of Asia*. Cambridge: Cambridge University Press.
12. Deraniyagala, S.U. *The Prehistory of Sri Lanka. An Ecological Perspective. Sri Lanka: Memoir Volume Part I, II, III*, Commissioner of Archaeology, Government of Sri Lanka.
13. Dhavalikar MK, (Ed). *Prehistory of India*. New Delhi: Manohar
14. Henke, W., T. Hardt, and I. Tattersall. Editors. *Handbook of Paleoanthropology 3 Vols*: Springer. Second edition.
15. Pappu, R.S. *Acheulian Culture in Peninsular India: an Ecological Perspective*. New Delhi: D.K. Printworld.
16. Misra VD, and Pal JN, (Eds.). *Mesolithic India*. Allahabad: Department of Ancient History, Culture and Archaeology, University of Allahabad.
17. Misra, V.N. *Rajasthan: Prehistoric and Early Historic Foundations* .
18. Neumayer, E. *Rock Art of India*. Oxford and New Delhi: Oxford University Press.
19. Paddayya K. and Sushama G. Deo (Eds.) *Recent Advances in Acheulian Culture Studies in India. ISPQS Monograph No.6*. Available in e-format: www.manandenvironment.org
20. Paddayya K. and Sushama G. Deo. *Prehistory of South Asia (The Lower Palaeolithic or Formative Era of Hunting-Gathering)*, The Mythic Society, Bengaluru, pp. 152
21. Pandey, S. K. *Indian Rock Art*. Delhi: Aryan Books International.
22. Pant, P.C. and V. Jayaswal. Paisra: *The Stone Age Settlement of Bihar*. Delhi: Agam Kala Prakashan.
23. Pappu, R. S. *Acheulian culture in peninsular India: an ecological perspective*. New Delhi: D.K. Printworld.
24. Sankalia, H.D. *The Prehistory and Protohistory of India and Pakistan*. Pune: Deccan College Postgraduate and Research Institute

MN 5: ANTH 5.14

PREHISTORY OF SOUTH ASIA

Total Credit: 4

Unit 1 **The Quaternary Period:** Introduction to the Quaternary, Methods for reconstructing palaeoenvironment, Soil pH estimation, and Quaternary environments in India.

- Unit 2** **The Lower Palaeolithic culture (Acheulian):** Nature and significance of the technology, Distribution and Variation, Important areas, Associated Fauna, Chronology.
- Unit 3** **The Middle and Upper Palaeolithic culture:** Nature and significance of the technology, Distribution and Variation, Important areas, Associated Fauna, Chronology.
- Unit 4** **Mesolithic and Neolithic culture:** Nature and significance of the technology, Distribution and Variation, Important areas, Associated Fauna, Chronology.

Recommended Readings

1. Agarwal, D. P. *The Archaeology of India*. Curzon Press.
2. Allchin, B. and Allchin, R. *The Birth of Indian Civilisation*, London.
3. Bhattacharya, D. K. *Outline of Indian Prehistory*. Palaka Prakashan.
4. Chakrabarti, D.K. *A History of Indian Archaeology: From the Beginning to 1947*. New Delhi: Munshiram Manoharlal.
5. Chakravarty, K. K., and R. G. Bednarik. *Indian Rock Art in Global Context*. Delhi: Motilal Banarasi Dass & IGRMS.
6. Clark, J.D. and Sharma, G.R. (Eds.) *Palaeoenvironment and Prehistory in the Middle Son Valley, Madhya Pradesh, North Central India*. Allahabad: Abinash Prakashan.
7. Cole, S. *The Neolithic Revolution*. British Museum.
8. Corvinus, G. *A Survey of the Pravara River System in Western Maharashtra, India, Vol 2: The Excavations of the Acheulian Site of Chirki-on-Pravara, India*. Tubingen: Institute for Urgeschichte.
9. Corvinus, G. *Prehistoric Cultures in Nepal: From the Early Palaeolithic to the Neolithic and the Quaternary Geology of the Dang-Deokhuri Dun Valleys*, Volume 1. Friedrich-Alexander-Universität Erlangen-Nürnberg. Institut für Ur- und Frühgeschichte. Harrassowitz Verlag.
10. de Terra, H. and T.T. Paterson (Eds.). *Studies on the Ice Age in India and Associated Human Cultures*. Washington: Carnegie Institution of Washington Publication No.493.
11. Dennell, R. W. *Palaeolithic Settlement of Asia*. Cambridge: Cambridge University Press.
12. Deraniyagala, S.U. *The Prehistory of Sri Lanka. An Ecological Perspective*. *Sri Lanka: Memoir Volume Part I, II, III*, Commissioner of Archaeology, Government of Sri Lanka.
13. Dhavalikar MK, (Ed). *Prehistory of India*. New Delhi: Manohar
14. Henke, W., T. Hardt, and I. Tattersall. Editors. *Handbook of Paleoanthropology 3 Vols*: Springer. Second edition.
15. Pappu, R.S. *Acheulian Culture in Peninsular India: an Ecological Perspective*. New Delhi: D.K. Printworld.
16. Misra VD, and Pal JN, (Eds.). *Mesolithic India*. Allahabad: Department of Ancient History, Culture and Archaeology, University of Allahabad.
17. Misra, V.N. *Rajasthan: Prehistoric and Early Historic Foundations* .
18. Neumayer, E. *Rock Art of India*. Oxford and New Delhi: Oxford University Press.
19. Paddayya K. and Sushama G. Deo (Eds.) *Recent Advances in Acheulian Culture Studies in India. IS PQS Monograph No.6*. Available in e-format: www.manandenvironment.org
20. Paddayya K. and Sushama G. Deo. *Prehistory of South Asia (The Lower Palaeolithic or Formative Era of Hunting-Gathering)*, The Mythic Society, Bengaluru, pp. 152
21. Pandey, S. K. *Indian Rock Art*. Delhi: Aryan Books International.
22. Pant, P.C. and V. Jayaswal. *Paisra: The Stone Age Settlement of Bihar*. Delhi: Agam Kala Prakashan.
23. Pappu, R. S. *Acheulian culture in peninsular India: an ecological perspective*. New Delhi: D.K. Printworld.
24. Sankalia, H.D. *The Prehistory and Protohistory of India and Pakistan*. Pune: Deccan College Postgraduate and Research Institute

SIXTH SEMESTER

MJ 12: ANTH 6.11 (a)

ANTHROPOLOGY OF HEALTH

Total Credit: 3+1

Unit I a) Introduction to the Field of Anthropology and Health- Defining Health and Illness in Cross- Cultural Perspectives. Some important variations in the process of seeking health care.
b) Healing and Healers in Cross-Cultural Perspectives:
i. Types of Traditional Healers: Bonesetters, Herbalists, Faith healers, Mixed Healers, Mid-wives', Shamanism, Magic, witchcraft and sorcery.
ii. Concepts of Folk/Traditional medicine, Alternative medicine and Biomedicine.
Problems of evaluating the efficacy of Traditional medicine and Biomedicine

Unit II Measuring Health: Concept of Morbidity & Mortality, Epidemiology: Meaning, scope and methods. Endemics, Epidemics, and Outbreaks; Pandemics and Communicable diseases; Health and Environment

Unit III Rules and regulations of International health policy, Medico-Legal Problems in relation to health administration, International health organization/ NGOs, Medical Ethics, Critical issues in global health.

PRACTICAL

Unit IV Case Studies of Traditional and Modern healers.

OR

Project on Health-related issues based on primary/secondary data collection through fieldwork/review of literature.

Suggested Readings

1. Albrecht, Gary L., Ray Fitzparick, and Susan C. Scrimshaw (eds.) 2000. The Handbook of Social Studies in Health and Medicine, SAGE.Publications.
2. Bannerman, Robert, J. Burton, and Ch'en Wen-Chieh (eds.) 1983. Traditional Medicine and Health Care Coverage. Geneva: World Health Organization.
3. Chen, Lincoln C. Arthur Kleinman, and Norma C. Ware 1994. Health and Social Change in International Perspective. Harvard University Press.
4. Chin, James, M.D., M.P.H. (ed.) 2000. Control of Communicable Diseases Manual. 17th Edition. American Public Health Association.
5. Coreil, Jeannine and J. Dennis Mull (eds.) 1990. Anthropology and Primary Health Care, Boulder: Westview Press Society. New York: Oxford University Press.
6. Helman, Cecil G. 1994. Culture, Health, and Illness. 3rd ed. Oxford: ButterworthHeinemann.
7. Inhorn, Marcia C. and Peter J. Brown 1997. The Anthropology of Infectious Disease. International health Perspectives. Gordon and Breach Publishers.
8. Joralemon, Donald. 2017. Exploring Medical Anthropology. 4th Edition. Routledge.
9. Koop, C. Everett, Clarence E. Pearson, and M. Roy Schwartz (eds.) 2001. Critical Issues in Global Health. San Francisco: Jossey-Bass. A Wiley Company.
10. Mann, Jonathon M.,et al. (eds.) 1999. Health and Human Rights. New York: Routledge.
11. Mayer, Kenneth H. and H.F. Pizer (eds.) 2000. The Emergence of AIDS. The Impact on Immunology, Microbiology, and Public Health. Washington, D.C.: American Public Health Association.
12. Nichter, Mark and Mimi Nichter 1996. Anthropology and International Health. Asian Case Studies. Gordon and Breach Publishers.
13. Paul, Benjamin D. (ed.) 1955. Health, Culture, and Community. Case Studies of Public Reactions to Health Programs.

MJ 12: ANTH 6.11 (b)
ANTHROPOLOGY OF GENDER
Total Credit: 4

- UNIT I Emergence of theoretical concept of gender**
Historical and social conditions favoring a gendered approach; Social and biological theories of gender; the cross cultural implications of the concept of gender. Masculinities, feminities and third/ fourth genders in worldwide perspective- gay and Transsexuality. Feminist approach to gender.
- UNIT II Anthropological approaches to gender studies**
Men and women's position within kinship network; rules and norms pertaining to rights and duties, inheritance and rules of marriage; Gender and religion. Gender stratification, factors determining gender stratification; power and privilege, education, finance, employment, reproductive health.
- UNIT III Gender and Development**
Gender Equity, gender and employment, SHGs, entrepreneurship, Role of NGOs, and Government in creating awareness among women, Gender sensitive planning and development policies.
- UNIT IV Gender and Fundamental Issues**
Discourses concerning gender and sexual orientation- feminist movement and gender movement.
Gender and Human Rights- Gender based violence, cultural practices violating gender rights (male and female perspective)
Gender and Disaster - Impact of disaster on gender (sex and age , psychologically) , cultural practices impacting gender during disaster situations , Gender sensitive disaster planning and policies .

Suggested Readings

1. Butler, Judith. 2006. *Gender Trouble: Feminism and the Subversion of Identity*. Routledge
2. Dube, Leela. 1997. *Women and kinship: comparative perspectives on gender in South and South-East Asia*. Tokyo: United Nations University Press.
3. Gunewardena, Nandini, and Ann E. Kingsolver. 2007. *The gender of globalization: women navigating cultural and economic marginalities*. Santa Fe, N.M.: School for Advanced Research Press.
4. Kapadia, Karin. 1995. *Siva and her sisters: gender, caste, and class in rural South India*. Studies in the ethnographic imagination. Boulder, Colo: Westview Press.
5. Krijnen, Tonny, and Sofie Van Bauwel. 2015. *Gender and Media: Representing, Producing, Consuming*. Oxon: Routledge.
6. MacCormack, Carol P., and Marilyn Strathern. 1980. *Nature, culture, and gender*. Cambridge [Eng.]: Cambridge University Press.
7. Misra, K. K., and Janet Huber Lowry. 2007. *Recent studies on Indian women: empirical work of social scientists*. Jaipur: Rawat Publications.
8. Naples, Nancy A., and Manisha Desai. 2002. *Women's activism and globalization: linking local struggles and transnational politics*. New York: Routledge.
9. Reiter, Rayna. 1977. *Toward an anthropology of women*. New York: Monthly Review.
10. Rosaldo, Michelle Zimbalist, Louise Lamphere, and Joan Bamberger. 1974. *Woman, culture, and society*. Stanford, Calif: Stanford University Press.
11. Unnithan-Kumar, Maya. 1997. *Identity, gender, and poverty: new perspectives on caste and tribe in Rajasthan*. Providence: Berghahn Books.
12. Valle, Teresa del. 1996. *Gendered anthropology*. European Association of Social Anthropologists. London [u.a;]: Routledge.

MJ 13: ANTH 6.12

RESEARCH METHODOLOGY

Total Credit: 3+1

- Unit I**
- a) Introduction to research method: Research Design, Review of literature, conceptual framework, formulation of research problem, formulation of hypothesis.
 - b) Field work tradition in Anthropology
Ethnographic approach, ethnocentrism, etic and emic perspectives, comparative and historical methods, rapport establishment, identification of representative categories of informants, maintenance of field diary and logbook
- Unit II**
- Tools and techniques of data collection
Sampling, Concept of survey, relationship of survey method with ethnographic method, questionnaire and interview schedule, Observation and types of types of observation, Interview - Structured and unstructured, Focused Group Discussion, key informant interview , Case Study and life history, Genealogy.
- Unit III**
- A. Analysis and Report Writing
- a) Chapterization, preparing a text for submission and publication, concepts of preface, notes (end and footnotes), glossary, prologue and epilogue, appendix, bibliography (annotated) and references cited, review and index.
 - b) Similarities and differences between qualitative and quantitative data analysis .
- B. Quantitative Analysis
- a) Types of variables, presentation and summarization of data (tabulation and illustration).
 - b) Uses of statistics in Anthropology: Mean, Median, Mode, standard deviation, test of significance, Correlation

PRACTICAL

Credit: 1

- Unit IV**
- a) Preparation of questionnaire and schedule.
 - b) Graphical and diagrammatic presentation of data (Histogram, bar diagram, pie chart, multi-bar diagram, circular diagram, line graph etc.)
 - c) Measurements of Mean Median Mode, standard deviation and correlation on hypothetical data.

Suggested Readings

1. 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.
2. Bernard H.R. *Research Methods in Anthropology, Qualitative and Quantitative Approaches*. Jaipur: Rawat Publications. 2006.
3. Madrigal L. *Statistics for Anthropology*. Cambridge: Cambridge University Press. 2012.
4. Zar JH. *Biostatistical Analysis*. Prentice Hall. 2010.
5. Michael A. *The Professional Stranger*. Emerald Publishing. 1996.
6. Bernard R. *Research Methods in Anthropology: Qualitative and Quantitative Approaches*. AltaMira Press. 2011.
7. Emerson RM, Fretz RI and Shaw L. *Writing Ethnographic Fieldnotes*. Chicago, University of Chicago Press. 1995.
8. Lawrence NW. *Social Research Methods, Qualitative and Quantitative Approaches*. Boston: Allyn and Bacon. 2000.
9. O'reilly K. *Ethnographic Methods*. London and New York: Routledge. 2005.
10. Patnaik S.M. *Culture, Identity and Development: An Account of Team Ethnography among the Bhil of Jhabua*. Jaipur: Rawat Publications. 2011.
11. Pelto PJ and Pelto GH. *Anthropological Research, The Structure of Inquiry*. Cambridge: Cambridge University Press. 1978.

MJ 14: ANTH 6.13

INTRODUCTION TO WORLD PREHISTORY

Total Credit: 3+1

- Unit 1** **Africa-** Background to the geography, palaeoenvironments, fossil and genetic record, The Earliest Palaeolithic assemblage of Africa: The Oldowan, The Acheulian, The Middle Stone Age, The Later Stone Age.
- Unit 2** **Europe-** Background to the geography, palaeoenvironments, fossil and genetic record, The Earliest Palaeolithic evidence, The Acheulian, The Middle Palaeolithic, The Upper Palaeolithic, The Mesolithic.
- Unit 3** **East & South East Asia-** The Earliest Palaeolithic evidence, Acheulian/Acheulian-like assemblages and other Middle Pleistocene assemblages in China, Non-biface tradition-Anyathian, Tampanian, Hoabihian techno-complex and Earliest Pottery.

PRACTICAL

- Unit 4** Mock site excavation: students will practice excavation, note-taking skills and analysis of artifacts and features in stratified soils at a simulated site.

Recommended Readings

1. Bhattacharya, D. K. *Prehistoric Archaeology*. Hindustan Publishing Corporation.
2. Bhattacharya, D. K. *Emergence of Cultures in Europe*. B. R. Publishing Corporation.
3. Bhattacharya, D. K. *Palaeolithic Europe*. Netherlands Humanities Press.
4. Chazan, M. *World Prehistory and Archaeology: Pathways through Time*: AddisonWesley.
5. Clark, J. G. D. *Mesolithic Settlement of Northern Europe*. Cambridge University Press.
6. Dennel, R. *The Palaeolithic Settlement of Asia*. Cambridge University Press.
7. Doring, B. S. *The Prehistory of Asia Minor: From Complex Hunter-Gatherers to Early Urban Societies*.
8. Liu, L. And Chen, X. *The Archaeology of China; From the Late Palaeolithic to the Early Bronze Age*. Cambridge World Archaeology.
9. Pearsall, Deborah M. *Encyclopedia of Archaeology*. New York: Academic Press. Schick K. D. and N. Toth (eds), 2006. *The Oldowan: Case Studies into the earliest Stone Age*. Gosport: Stone Age Institute.
10. Glover, I. And Bellwood, P. (Eds.). *Southeast: From Prehistory to History*. Routledge.
11. Phillipson, D. W. *African Archaeology*. Cambridge University Press.
12. Sanchez-Mazas, A., Blench, R., Ross, M. D., Peiros, I., Lin, M. *Past Human Migrations in East Asia: Matching Archaeology, Linguistics and Genetics*. Routledge.
13. Reddy, R. *Elements of Prehistory*. South Asia Books.
14. Shelach-Lavi, G. *The Archaeology of Early China: From Prehistory to the Han Dynasty*.

MJ 15: ANTH 6.14 (a)

HUMAN GROWTH AND DEVELOPMENT

Theory Credit: 3+1

- Unit I** Concept of human growth, development, differentiation and maturation. Evolutionary perspective on human growth. Prenatal (conception till birth) and postnatal (birth till senescence) period of growth, pattern of normal growth curves, variation from normal growth (catch-up growth and catch-down growth), gender differences in growth curves, secular trend

Unit II 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. Human physique and body composition –Somatotyping and human physique with reference to Sheldon, Parnell, and Carter methods

Unit III Nutritional epidemiology- concept of balanced diet, impact of malnutrition (over and under) with special reference to obesity, Kwashiorkor and Marasmus. Assessment of nutritional status.

PRACTICAL

Unit I a) Estimation of body composition: BIA (Bio-electrical impedance analysis) method- Fat mass, Fat free mass, Visceral fat, Body fat percentage, BMI (body mass index)

b) Anthropometric somatotyping (Heath and Carter)- stature, weight, skinfold (tricep, subscapular, supraspinale, calf), bi-epicondylar breadth (humerus, femur), upper arm girth, calf girth.

Suggested Readings

1. Bogin B. (1999) Patterns of human growth. Cambridge University Press.
2. Frisancho R. (1993) Human Adaptation and Accommodation. University of Michigan Press.
3. Cameron 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, Trevathan W. Essentials of physical anthropology. Wadsworth 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 RM, Bouchard C, Oded B. (2004) Growth, Maturation, and Physical Activity. Human Kinetics.
10. McArdle WD, Katch FI, Katch VL. (2001) Exercise Physiology: Energy, Nutrition, and Human Performance.
11. Singh I, Kapoor AK, Kapoor S. (1989). Morpho-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.

MN 15: ANTH 6.14 (b)

PHYSIOLOGICAL ANTHROPOLOGY

Theory Credit: 3+1

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

Unit II Cardio-vascular and respiratory endurance, physical working capacity and physical fitness- evaluation of response and assessment; relationship of body measurements 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 III 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.

PRACTICAL

- Unit I**
- Cardiovascular function (Blood pressure, heart rate, pulse rate)
 - Respiratory function (Tidal volume, vital capacity, forced vital capacity, minute ventilation etc.)
 - Haemoglobin estimation
 - Step-test
 - Treadmill test

Suggested Readings

- McArdle WD, Katch FI and Katch VL. (2010). Exercise Physiology: Nutrition, Energy, and Human Performance. Lippincott Williams & Wilkins.
- Powers SK and Howley ET. (2007). Exercise Physiology: Theory and Application to Fitness and Performance. McGraw-Hill.
- Sherwood L. (2008). Human Physiology: From Cells to Systems. Brooks Cole.
- Case RM. (1985). Variations in Human Physiology. Manchester University Press.
- Vander AJ, Sherman JH and Dorothys L. (1978). Human Physiology: The Mechanisms of Body Functions. Mc Graw-Hill Education.
- Nageswari KS and Sharma S. (2006). Practical workbook of Human Physiology. Jaypee Brothers, Medical Publisher.
- Wildmaier EP, Raff H, Strang KT. (2014). Vander's Human Physiology: The Mechanisms of Body. Mc Graw Hill Education.
- Hale T. (2003). Exercise Physiology. England: John Wiley & Sons Inc.

MN 6: ANTH 6.15 (a)

HUMAN GROWTH AND DEVELOPMENT

Total Credit: 3+1

- Unit I** Concept of human growth, development, differentiation and maturation. Evolutionary perspective on human growth. Prenatal (conception till birth) and postnatal (birth till senescence) period of growth, pattern of normal growth curves, variation from normal growth (catch-up growth and catch-down growth), gender differences in growth curves, secular trend
- Unit II** 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. Human physique and body composition –Somatotyping and human physique with reference to Sheldon, Parnell, and Carter methods
- Unit III** Nutritional epidemiology- concept of balanced diet, impact of malnutrition (over and under) with special reference to obesity, Kwashiorkor and Marasmus. Assessment of nutritional status.

PRACTICAL

- Unit IV**
- Estimation of body composition: BIA (Bio-electrical impedance analysis) method- Fat mass, Fat free mass, Visceral fat, Body fat percentage, BMI (body mass index)
 - Anthropometric somatotyping (Heath and Carter)- stature, weight, skinfold (tricep, subscapular, supraspinale, calf), bi-epicondylar breadth (humerus, femur), upper arm girth, calf girth.

Suggested Readings

- Bogin B. (1999) Patterns of human growth. Cambridge University Press.
- Frisancho R. (1993) Human Adaptation and Accommodation. University of Michigan Press.
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16. Harrison GA and Howard M. (1998). Human Adaptation. Oxford University Press.
17. Harrison GA, Tanner JM, Pibeam DR, Baker PT. (1988). Human Biology. Oxford University Press.
18. Jurmain R, Kilgore L, Trevathan W. Essentials of physical anthropology. Wadsworth publishing.
19. Kapoor AK and Kapoor S. (1995) Biology of Highlanders. Vinod Publisher and Distributor.
20. Kathleen K. (2008). Encyclopedia of Obesity. Sage.
21. Malina RM, Bouchard C, Oded B. (2004) Growth, Maturation, and Physical Activity. Human Kinetics.
22. McArdle WD, Katch FI, Katch VL. (2001) Exercise Physiology: Energy, Nutrition, and Human Performance.
23. Singh I, Kapoor AK, Kapoor S. (1989). Morpho-Physiological and demographic status of the Western Himalayan population. In Basu and Gupta (eds.). Human Biology of Asian Highland Populations in the global context.
24. Sinha R and Kapoor S. (2009). Obesity: A multidimensional approach to contemporary global issue. Dhanraj Publishers. Delhi.

MN 6: ANTH 6.15 (b)

PHYSIOLOGICAL ANTHROPOLOGY

Total Credit: 3+1

- Unit I** Fundamentals of work physiology- homeostasis; metabolism and energy and systems; exercise, respiratory system and haemodynamics (blood pressure, pulse rate, heart rate and oxygen- transporting system, blood flow, Hb, heamatocrit etc)
- Unit II** Cardio-vascular and respiratory endurance, physical working capacity and physical fitness- evaluation of response and assessment; relationship of body measurements 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 III** 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.

PRACTICAL

- Unit I**
- a) Cardiovascular function (Blood pressure, heart rate, pulse rate)
 - b) Respiratory function (Tidal volume, vital capacity, forced vital capacity, minute ventilation etc.)
 - c) Haemoglobin estimation
 - d) Step-test
 - e) Treadmill test

Suggested Readings

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

SEVENTH SEMESTER

MJ 16: ANTH 7.11 (a)

MUSEOLOGY AND CULTURAL RESOURCE MANAGEMENT

Total Credits: 3+1

- UNIT I:** Museum – Definition, Historical background, Types of museum, Anthropological Theories on museum, Anthropological museums in India and in the North East India
- UNIT II:** Systematic documentation of data – from field case to show case; methods of arrangement and display. Preservation –brief ideas of the factors and agencies causing deterioration to the museum exhibits; preventive and curative measures.
- UNIT III:** Cultural Resource Management (CRM) AND Heritage Management:
- a) Definition , meaning , concept and relevance of CRM , History and origin of CRM
 - b) Laws and Policy on CRM (important legislations, Rules and Acts) and Guidelines for preservation and Conservation of Monuments , Sites and Remains with special reference to India . Distribution of monuments in different geographical zones and their conservation problems.

PRACTICAL

- UNIT IV** The students under the supervision of teacher/s will visit a Museum and study the exhibits. The student will write their report within a minimum of 3000 words under the guidance of the Supervisor and submit the same for evaluation.

Suggested Readings

1. Agarwal, O.P. 1997. *Care and Preservation of Museum objects*. New Delhi : National Research Laboratory for conservations of cultural property
2. Alkawali, Rosa Cabrera, Jeniffer Anderson. Last revised 6th May 2016; Last modified 11th January 2012. *Museum Anthropology*.
3. Ambrose, Timothy & Paine, Crispin 2012: *Museum Basics (Heritage: Care-Preservation-Management)* Routledge,
4. Ames, M. 1986. *Museums, the Public and Anthropology: A Study in the Anthropology of Anthropology*. Vancouver and New Delhi: University of British Columbia. Press and concept publishing company.
5. Anita Herle. University of Cambridge. 6th October 2016. *Anthropology Museums and Museum Anthropology*. Bedakar, V.H : New Museology
6. Clifford, J. 1997. Museums as contact zones, four Northwest Coast Museums: travel reflections, routes: travel and translations in the late twentieth century. 188 – 219, 212 – 54. Cambridge, press: Harvard University press
7. Clifford, J. 1988. On collecting art and culture. The predicament of culture: twentieth century ethnography, literature and art. Cambridge, press: Harvard University press.
8. Clure, Henry ed al. *Archaeological Heritage Management in the modern world*. London unwind – Hymen 1989.
9. Folk, John. H, Lynn, D D: *Learning from Museums*
10. Fowler, Don. *Cultural Resources Management*, “Advances in Archaeological methods and Theory.” 5 (1982): 1 – 50.
11. Gawel , Lukasz & Kocój , Ewa (Ed): *Cultural Heritage (Management, Identity and Potential)*
12. Ghosh, D : *Studies in Museum and Museology*
13. Greenhills, Eileen H: *Museums and interpretation of Visual culture*
14. Harrison , Richard & Butterworth: *Heinemann (Manual of Heritage Management)*
15. Lord, Barry : *The Manual of Museum Exhibition*

16. Messenger, Phyllis M & G. S. Smith (ed): Cultural Heritage Management-A Global Perspective (Cultural Heritage Studies)
17. Nigam, M : Fundamentals of Museology
18. Tilley, Chris, Keane, Webb, S. Küchler, M. Rowlands & S. Patricia: Handbook of Material Culture

MJ 16: ANTH 7.11 (b)

ECOLOGICAL ANTHROPOLOGY

Total Credit: 4

- Unit I** Ecological Anthropology: Meaning and Scope; Concepts: Ecology, Ecosystem, Homeostasis of the Ecosystem, community and Population, Habitat and Ecological Niche, Ecosystem Development (or Ecological Succession), Environment, Adaptation, Culture Core
- Unit II** Theoretical Formulations: Environmental Determinism (Meggars); Environmental Possibilism (C. Wisler, A. L. Kroeber); Cultural Ecology (J. Steward); Techno-Economic and Techno-Environmental Determinism (M. Harris); Cognitive Ecology (H. Conklin, C. Frake); Single Unified Ecology (Vayda and Rappaport); Nature-Culture Dualism; Ethno-ecology.
- Unit III** Ecological Issues: Forest and Tribes; Traditional Resources Management; Biodiversity for Sustainable Development; Community based Conservation (CBC): Issues and Prospects; Development Projects (Hydro-electric, Irrigation Projects and Industries) and Displacement.
- Unit IV** Environmentalism: Meaning and Issues for Debate; Role of Anthropology; Ecological Protest Movements; Environmental Policy and NGOs

Recommended Readings

1. Frake, C. D. 1962. Cultural Ecology and Ethnography. *American Anthropologist*. 64: 53-60.
2. Harris, M. 1968. The Rise of Anthropological Theory. New York: Thomas Y. Cruesell. (Chapter 23. pp. 654-687.
3. Meggars, B. J. 1954. Environmental Limitation to the Development of Culture. *American Anthropologist*. 56: 801-824.
4. Hardesty, D. L. 1977. *Ecological Anthropology*. New York: Wiley and Sons.
5. Kothari, A. et al. 1998. *Communities and Conservation*. New Delhi: Sage Publications.
6. Moran, E. R. 1971. *Human Adaptability: An Introduction to Ecological Anthropology*. Colorado: Westview Press.
7. Netting, R. Mc, C. 1971. *The Ecological Approach in Cultural Study*. New York: Addison Wesley Modules in Anthropology. Module – 6 Sand Hill; Road, Menlo Park: Cummings Publishing Company.
8. Odum, E. P. 1991. *Fundamentals of Ecology*. Delhi: Nataraj Publishers.
9. Poffenberger, M. and McGean. 1998. *Village Voices, Forest Choices: JFM in*
10. *India*. New Delhi: Oxford (Selected Chapters).
11. Ramakrishna, P. S. 1989. *Managing Biodiversity for Sustainable Development*. Ahmadabad: IIMA.
12. Ramakrishna, P. S. 1998. *Conserving the Sacred: Ecological and Policy Implications*. In. Ashish K. et al. (Ed.). *Communities and Conservation*. Sage Publications, New Delhi. Chapter 11. pp. 239-251.
13. Sahins, M. 1966. *Culture and Environment: The Study of Cultural Ecology*. In, Sol Tax (Ed.). *Anthropology*. Higginbotham, Madras.
14. Steward, J. H. 1968. *Cultural Ecology*. In. David Sills (Ed.). *International Encyclopedia of Social Sciences*. The Macmillan Co., The Free Press, N. Y.
15. Tiwari, D. D. 1994. *Developing and Sustaining Non-timber Forest Products: Policy Issues and Concerns with Special Reference to India*. *Journal of World Forest Resource Management*. 7: 151-178.
16. Vayda, A. P. (Ed.). 1969. *Ecological Studies in Cultural Anthropology*. Natural History Press, Garden City, N.Y.
17. Vayda A. P. and Rappaport, R. A. 1968. *Ecology: Cultural and Non-Cultural*. In. J. A. Clifton (Ed.). *Introduction to Cultural Anthropology*. Boston: Houghton Mifflin. pp. 477-497.

MJ 17: ANTH 7.12 (a)

FORENSIC ANTHROPOLOGY

Theory Credit: 3+1

Unit I Introduction to Forensic Anthropology: Definition, Brief History, Scope, Applications and Integration of Forensic Anthropology. Identification of Human and Non-Human Skeletal Remains, Ancestry, age, sex and stature estimation from bones.

Unit II Personal Identification, Complete and Partial Identification, Methods of Identification in Living Persons: Somatometry, Somatoscopy, dermatoglyphics of palm prints and Fingerprints, Deformities and Others.

Unit III Forensic serology: Identification and Individualization of bloodstain, urine, semen and saliva. Patterns of Bloodstains. Individualization: Forensic Odontology-Tooth Structure and Growth, Bite Marks, Facial Reconstruction, DNA Profiling.

PRACTICAL

Unit I Dermatoglyphics: candidates should be trained in taking the prints of palm and fingertips of, at least 5 subjects.

- a. In case of fingerprints, pattern types should be identified and the Pattern Intensity Index (PII) is to be calculated.
- b. In case of palm prints, a, b, c, d, and t tri-radial identification and estimation of atd angle.

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. Black 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* (2nd 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., Dhali 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.

MJ 17: ANTH 7.12 (b)

HUMAN POPULATION GENETICS

Total Credit: 4

Unit I Concept of population, allele frequencies; concept, definition, mathematical derivation and application of Hardy-Weinberg equilibrium, deviation from Hardy-Weinberg equilibrium.

Unit II Mechanism for dynamics in gene frequency: Mutation, selection, genetic drift, gene flow/migration, inbreeding. Hardy-Weinberg principle: Genotypic and allelic frequencies.

Unit III Mutation, types of mutation, direct and indirect method of calculating mutation rate. Mutation and selection; Inbreeding co-efficient and its genetic consequences.

Unit IV Population structure and admixture in human populations: Random & non-random mating (positive and negative assortative mating), heritability, linkage disequilibrium, genetic markers, utility of genetic markers in forensic, population and disease association studies.

Suggested Readings

1. Brooker R.J. (2012). *Genetics: analysis & principles*. The McGraw-Hill Companies, Inc 4th ed.
2. Cavalli-Sforza, L.L. and Bodmer, W.F (1971). *The Genetics of Human Population*. San Francisco: Freeman
3. Cooper DN and Kehrer-Sawatzki H. (2008). *Handbook of Human Molecular Evolution*. John Wiley & Sons, volume-2.
4. Crawford MH (2007). *Anthropological Genetics Theory, Methods and Applications*. Cambridge University Press
5. Cummings M.R. (2011). *Human Heredity: Principles and Issues*. Ninth Edition. Brooks/Cole, Cengage Learning
6. Jobling, M.A. Hurlis M. and Tyler-Smith C. (2004). *Human Evolutionary Genetics: Origins, Peoples & Disease*. GS. NY
7. Lewis R. (2009). *Human Genetics: Concepts and Applications* 9th Edition. The McGraw–Hill Companies, Inc.
8. Patch C. (2005). *Applied Genetics in Healthcare*. Taylor & Francis Group
9. Relethford J.H. (2012). *Human Population Genetics*. Wiley-Blackwell, USA
10. Snustad .D.P. and Simmons M.J. (2006). *Principles of Genetics*, Fourth Edition, John Wiley & Sons USA, Hoboken NJ
11. Strachan T, Read A.P. (2004). *Human Molecular Genetics*. Garland Science/Taylor & Francis Group.
12. Vogel F. and Motulsky A.G. (1996). *Human Genetics*. Springer, 3rd revised edition.
13. John H. Relethford. 2012. *Human population genetics*. John Wiley & Sons, Inc., Hoboken, New Delhi.

MJ 18: ANTH 7.13

SCIENCES AND ARCHAEOLOGY

Total Credit: 4

- Unit 1** **Archaeobotany-** Brief introduction to the scope and objectives of archaeobotany, ethnobotany, and palynology, Theories of Plant domestication, early agriculture in Old and New World, Domestication and its implications on human biology.
- Unit 2** **Geoarchaeology-** Introduction to the scope and objectives of geoarchaeology, Rocks, minerals and their identification techniques, Preliminary study of sediments and soils, Site Formation Processes and Geomorphologic Processes.
- Unit 3** **Archaeozoology and palaeontology-** Brief introduction to the scope and objectives of animal skeletal studies in archaeology, Animal classification, identification and study of osteology of domestic animals, Paleontology and taphonomy.
- Unit 4** **Osteology and Paleopathology-** Dental and Bone Histology, Nature of Archaeological Human Bone Assemblage, Bone Diseases, Dental Disease, Traces of injury on Skeleton, Sex Determination and Age Estimation, Stable Isotope Analysis of Bones.

Recommended Reading

1. Bass, W.M. *Human Osteology: A laboratory and field manual of the Human skeleton*, 2nd edition, Columbia: Missouri Archaeological Society.
2. Badam, G.L. *Pleistocene Fauna of India*, Pune: Deccan College.
3. Biswas, A. K. *Science in Archaeology and Archaeological materials*. New Delhi: D.K. PrintWorld (P) Ltd.
4. Bone, J.F. *Animal Anatomy and Physiology*, Reston: Reston Publishing Co.
5. Brothwell, D. and E. Higgs (Eds.). *Science in Archaeology*, London: Thames and Hudson.
6. Brothwell, D. and A.M. Pollard. *Handbook of Archaeological Sciences*, New York: JohnWiley and Sons.
7. Deotare, B.C. Pollen recovery from minerogenic sediments: A methodological approach. *Man and Environment*, XX (2):101 105.
8. Erdtman, G. *Hand book of Palynology*, New York: Hafner.

9. Greig, James. *Handbook for Archaeologists No.4: Archaeobotany, European Science Foundation, Strasbourg.*
10. Goffer, Z. *Archaeological Chemistry.* Wiley-interscience a John Wiley & Sons, inc., Publication.
11. Leiggi, Patrick and Peter May (Eds.). *Vertebrate Palaeontological Techniques, Vol. 1,* Cambridge University Press.
12. Pearsall, D. *Palaeoethnobotany Handbook of Procedures.* London: Academic press.
13. Renfrew, J. *Palaeoethnobotany.* London: Mathuen and Co.
14. Romer, A.S. *Vertebrate Paleontology,* Chicago: University of Chicago press.
15. Salisbury, R. *Introduction to environmental archaeology.* STIMUL, Comenius University in Bratislava, Faculty of Arts, Bratislava.
16. Walimbe, S.R. and A. Tavares. Evolving trends in skeletal biology in the Indian Sub-continent: a case study on the incipient agricultural populations of the Deccan Plateau, in *Quaternary Environments and Geoarchaeology of India: Essays in honour of Prof. S.N. Rajaguru* (S. Wadia, R. Korisettar and V.S. Kale, Eds.), pp. 515-529. Bangalore: Geological Society of India, Bangalore.

MJ 19: ANTH 7.14

ANTHROPOLOGY OF NORTH-EAST INDIA

Total Credits: 3+1

- UNIT I** Development and growth of *Sociol/Cultural Anthropology* in Northeast India: Pre-independence and post-independence scenario. Politics of identity, insurgency movements, inner-line permits. Orality and ethnic history of the Northeast; Kinship studies; Christianity and change; Social values, change and continuity - Role of festivals in maintaining social values (With special reference to the state Nagaland)
- UNIT II** Development and growth of *Physical Anthropology* in Northeast India: Pre-independence and post-independence scenario. Growth and development studies, Physical characteristics and variations, population genetics, demography and studies in the field of nutrition and health of NE India. (With special reference to the state Nagaland)
- UNIT III** Development and growth of *Archeology* in Northeast India: Pre-independence and post-independence scenario. Emerging trends of Archaeological studies in North east India. . (With special reference to the Nagaland)
- PRACTICAL**
- UNIT IVS** Students will carry out ethnographic fieldwork among any Naga community and write a report and submit the same to the department.

Suggested Readings

1. Aier A. 2018. Studies on Naga oral tradition (Vol 1). Heritage publishing house, Dimapur, Nagaland.
2. A. K. Pokharia, T. Jamir, David Tetso and Z. Venuh. 2013. First Millennium B.C. to Millennium A.D. agriculture in Nagaland: A Reconstruction Based on Archaeobotanical Evidence and Radiocarbon Dates, *Current Science*, Vol. 104, No. (10): 1341 – 1353.
3. Burling, Robbins. 1999. *Rengsanggiri: Family and Kinship in a Garo Village.* Tura: Tura Books.
4. Das, B.M. 1981. *Microevolution.* New Delhi: Concept Publishing Co.
5. Das, B.M. ed. 1974. *Contemporary Anthropological Research in Northeast India.* Dibrugarh: University Publications.
6. Das, F. A. and I. Barua. 1996. *Communities in Northeast India.* New Delhi: Mittal Publications.
7. Elwin, V. 1959. *A Philosophy for NEFA.* Shillong: Govt. Printing.
8. Goswami, M.C. and P.B.Das. 1990. *The People of Arunachal Pradesh: A Physical Survey.* Itanagar: Govt. of Arunachal Pradesh.
9. Hodson, T. C. 1989. *The Naga Tribes of Manipur.* Delhi: Low Price Publications.

10. Jamir R.M. 2014. Physical characteristics of the Nagas of Nagaland (Vol 1). Heritage publishing house, Dimapur, Nagaland.
11. Jamir R.M. 2014. Physical characteristics of the Nagas of Nagaland (Vol 2). Heritage publishing house, Dimapur, Nagaland
12. Jamir, T., David Tetso and Z. Venuh. 2017. Recent Archaeological Investigation in the Naga Ophiolite Belt of the Indo-Myanmar Border: Summary of Recent Findings, in *Prehistory of South Asia*, K. Paddayya and B. Bakak (Eds.), pp. 255-278. Centre for archaeological Studies and Training, Eastern India Kolkata.
13. Jamir Watijungshi 2014. Physical characteristics of the Nagas of Nagaland (Vol 3). Heritage publishing house, Dimapur, Nagaland
14. Jamir T, Vasa D, Tetso D. 2014. Archaeology of Naga ancestral sites (Vol 1). Heritage publishing house, Dimapur, Nagaland
15. Jamir T, Tetso D, Venuh Z, Tripathy V.M, Pokharia A.K. 2014. Archaeology of Naga ancestral sites (Vol 2). Heritage publishing house, Dimapur, Nagaland
16. Lyall, S.C. 1908. *The Garos*. London: David Nutt.
17. Misra, U. 1988. *North-East India: Quest for Identity*. Guwahati: Omsons Publications.
18. Nagi K. 2018. Traditional festivals of Nagaland (Volume 1). Heritage publishing house, Dimapur, Nagaland.
19. Nakane, C. 1976. *Garo and Khasi: A Comparative Study in Matrilineal System*. The Hague: Mouton.
20. Playfair, A. 1909. *The Garos*. London: David Nutt.
21. Raha, M.K. and A.K.Ghosh. 1998. *North-East India: The Human Interface*. New Delhi: Gyan Pub. House.
22. Sengupta, S. 1997. *Studies in Anthropology: Recent Perspectives*. New Delhi: Inter-India.
23. Singh, B.P. 1987. *The Problem of Change: A Study of Northeast India*. Delhi: OUP.
24. Subba, T.B. and G.C. Ghosh. 2003. *The Anthropology of Northeast India*. New Delhi: Orient Longman.
25. Tetso David. 2014. Animal Remains from Naga Ancestral Sites of Nagaland: a Preliminary Report, in *50 Years After Daojali-Hading: Emerging Perspectives in the Archaeology of Northeast India*, (eds. T. Jamir and M. Hazarika). Research India Press, New Delhi. ISBN: 978-81-89131-90-6.
26. Tiatoshi Jamir and David Tetso (Editors). 2020. Archaeology of Mimi Caves, Kiphire District, Nagaland. ISBN. 978-81-947285-0-4.

MN 7: ANTH 7.15

MUSEOLOGY AND CULTURAL RESOURCE MANAGEMENT

Total Credits: 3+1

- UNIT I:** Museum – Definition, Historical background, Types of museum, Anthropological Theories on museum, Anthropological museums in India and in the North East India
- UNIT II:** Systematic documentation of data – from field case to show case; methods of arrangement and display. Preservation –brief ideas of the factors and agencies causing deterioration to the museum exhibits; preventive and curative measures.
- UNIT III:** Cultural Resource Management (CRM) AND Heritage Management:
- c) Definition , meaning , concept and relevance of CRM , History and origin of CRM
 - d) Laws and Policy on CRM (important legislations, Rules and Acts) and Guidelines for preservation and Conservation of Monuments, Sites and Remains with special reference to India. Distribution of monuments in different geographical zones and their conservation problems.

PRACTICAL

UNIT IV The students under the supervision of teacher/s will visit a Museum and study the exhibits. The student will write their report within a minimum of 3000 words under the guidance of the Supervisor and submit the same for evaluation.

Suggested Readings

1. Agarwal, O.P. 1997. Care and Preservation of Museum objects. New Delhi : National Research Laboratory for conservations of cultural property
2. Alkawali, Rosa Cabrera, Jeniffer Anderson. Last revised 6th May 2016; Last modified 11th January 2012. Museum Anthropology.
3. Ambrose, Timothy & Paine, Crispin: Museum Basics (Heritage: Care-Preservation-Management)
4. Ames, M. 1986. Museums, the Public and Anthropology: A Study in the Anthropology of Anthropology. Vancouver and New Delhi: University of British Columbia. Press and concept publishing company.
5. Clifford, J. 1997. Museums as contact zones, four Northwest Coast Museums: travel reflections, routes: travel and translations in the late twentieth century. 188 – 219, 212 – 54. Cambridge, press: Harvard University press
6. Clifford, J. 1988. On collecting art and culture. The predicament of culture: twentieth century ethnography, literature and art. Cambridge, press: Harvard University press.
7. Clure, Henry ed al. 1989. Archaeological Heritage Management in the modern world. London unwind – Hymen.
8. Folk, John. H, Lynn, D D 2000. Learning from Museums. Rowman & Littlefield Publishers
9. Fowler, Don. Cultural Resources Management, “Advances in Archaeological methods and Theory.” 5 (1982): 1 – 50.
10. Gawel , Lukasz & Kocój , Ewa (Ed) 2015. Cultural Heritage (Management, Identity and Potential). Jagiellonian University Press
11. Ghosh, D 1968. Studies in Museum and Museology in India. Indian Publications
12. Greenhills, Eileen H. 2000. Museums and interpretation of Visual culture. Routledge
13. Harrison, Richard 1994. Manual of Heritage Management. Architectural Press
14. Herle, Anita. (2016) 2023. “Anthropology museums and museum anthropology”. In *The Open Encyclopedia of Anthropology*, edited by Felix Stein. Facsimile of the first edition in *The Cambridge Encyclopedia of Anthropology*. Online: <http://doi.org/10.29164/16museums>
15. Lord, Barry and Lord, G.D. 2001 The Manual of Museum Exhibition. AltaMira Press, U.S.
16. Messenger, Phyllis M & G. S. Smith (ed) 2014. Cultural Heritage Management-A Global Perspective (Cultural Heritage Studies). University Press of Florida
17. Nigam, M. L. 1985: Fundamentals of Museology. Deva Publications.
18. Tilley, C., Keane, W., Küchler-Fogden, S., Rowlands, M. & S, Patricia 2013. Handbook of Material Culture , SAGE Publications Ltd.

EIGHT SEMESTER

MJ 20: ANTH 8.11

APPLIED ANTHROPOLOGY

Total Credit: 3+1

UNIT I Concept of Applied Anthropology, Action Anthropology, Business anthropology and Development. Role of Anthropology in Need of Assessment and Community Development, Environment and Community Health, Social and economic sustainability, Cultural resource Management.

UNIT II Trends in Anthropology: Anthropology of Tourism, Anthropology in Census, Human Rights, protection and enforcement of human rights and duties, National and State Human Rights Commission and other grievance redressal mechanism.

UNIT III Applications of Biological Anthropology: Meaning and Scope, Anthropometry in Operational Designing, Growth and Development, Nutrition and Sports Forensic Anthropology: Medico-

legal Problems, Personal Identification and Questioned Paternity; Use of Serological and Dermatoglyphic Characters. Concepts of Genetic Counseling and Genetic Screening.

PRACTICAL

UNIT IV Seminar presentation.

Suggested Readings

1. Kertzer DI and Fricke T. (1997). Anthropological Demography. University of Chicago Press.
2. Basu, A. and P. Aaby (1998). The Methods and the Uses of Anthropological Demography. 329 pp. Oxford, Clarendon Press 20
3. Carter A. (1998). Cultural Models and Demographic Behavior. In The Methods and the Uses of Anthropological Demography edited by Basu A and Aaby P. Oxford: Clarendon Press. pp 246-268.
4. Ervic, Alexander M., (2000). Applied Anthropology: Tools and Perspectives for Contemporary Practise, Boston, MA: Allyn and Bacon.
5. Erwin A. (2004). Applied Anthropology Tools and Practice, Allyn and Bacon.
6. Gupta S and Kapoor AK. (2009). Human Rights among Indian Populations: Knowledge, Awareness and Practice. Gyan Publishing House, New Delhi.
7. Willen SS. (2012). Anthropology and Human Rights: Theoretical Reconsiderations and Phenomenological Explorations. Journal of Human Rights. 11:150–159.
8. Goodale M. (2009). Human Rights: An Anthropological Reader. Wiley Blackwell.
9. 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 I (eds.). Serials Publications, New Delhi.
10. Margaret AG. (2003). Applied Anthropology: A Career-Oriented Approach, Boston, MA: Allyn and Bacon. Halbar BG and Khan CGH. (1991). Relevance of Anthropology – The Indian Scenario. Rawat Publications, Jaipur.
11. Kapoor AK (1998). Role of NGO's in Human Development: A Domain of Anthropology. J Ind Anthropol Soc; 33:283-300.
12. Kapoor AK and Singh D. (1997). Rural Development through NGO's. Rawat Publications, Jaipur.
13. Klepinger LL (2006). Fundamentals of Forensic Anthropology. Wiley-Liss Publications
14. Kumar RK and Kapoor AK. (2009). Management of a Primitive Tribe: Role of Development Dynamics. Academic Excellence, Delhi.
15. Mehrotra N and Patnaik SM. (2008). Culture versus Coercion: The Other Side of Nirmal Gram Yojna, Economic and Political weekly. pp 25-27.
16. Mishra RC (2005). Human Rights in a Developing Society, Mittal Publications, Delhi.
17. Noaln RW. (2002). Anthropology in Practice: Building a Career outside the Academy. Publishing Lynne Reinner.
18. Patnaik SM (1996). Displacement, Rehabilitation & Social Change. Inter India Publications, New Delhi.
19. Patnaik SM (2007). Anthropology of Tourism: Insights from Nagaland. The Eastern Anthropologist. 60(3&4):455-470
20. Srivastav OS (1996). Demographic and Population Studies. Vikas Publishing House, India
21. Vidyarthi LP and BN Sahay (2001). Applied Anthropology and Development in India, National Publishing House, New Delhi.
22. Vidyarthi LP. (1990). Applied Anthropology in India – Principles, Problems and Case Studies. Kitab Mahal, U.P.
23. Vidyarthi V (1981). Tribal Development and its Administration. Concept Publishing Company, New Delhi.

MN 8: ANTH 8.12

APPLIED ANTHROPOLOGY

Total Credit: 3+1

UNIT I Concept of Applied Anthropology, Action Anthropology, Business anthropology and Development. Role of Anthropology in Need of Assessment and Community Development,

Environment and Community Health, Social and economic sustainability, Cultural resource Management.

UNIT II Trends in Anthropology: Anthropology of Tourism, Anthropology in Census, Human Rights, protection and enforcement of human rights and duties, National and State Human Rights Commission and other grievance redressal mechanism

UNIT III Applications of Biological Anthropology: Meaning and Scope, Anthropometry in Operational Designing, Growth and Development, Nutrition and Sports Forensic Anthropology: Medico-legal Problems, Personal Identification and Questioned Paternity; Use of Serological and Dermatoglyphic Characters. Concepts of Genetic Counseling and Genetic Screening.

PRACTICAL

UNIT IV Seminar presentation.

Suggested Readings

1. Kertzer DI and Fricke T. (1997). Anthropological Demography. University of Chicago Press.
2. Basu, A. and P. Aaby (1998). The Methods and the Uses of Anthropological Demography. 329 pp. Oxford, Clarendon Press 20
3. Carter A. (1998). Cultural Models and Demographic Behavior. In The Methods and the Uses of Anthropological Demography edited by Basu A and Aaby P. Oxford: Clarendon Press. pp 246-268.
4. Ervic, Alexander M., (2000). Applied Anthropology: Tools and Perspectives for Contemporary Practise, Boston, MA: Allyn and Bacon.
5. Erwin A. (2004). Applied Anthropology Tools and Practice, Allyn and Bacon.
6. Gupta S and Kapoor AK. (2009). Human Rights among Indian Populations: Knowledge, Awareness and Practice. Gyan Publishing House, New Delhi.
7. Willen SS. (2012). Anthropology and Human Rights: Theoretical Reconsiderations and Phenomenological Explorations. Journal of Human Rights. 11:150–159.
8. Goodale M. (2009). Human Rights: An Anthropological Reader. Wiley Blackwell.
9. 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 I (eds.). Serials Publications, New Delhi.
10. Margaret AG. (2003). Applied Anthropology: A Career-Oriented Approach, Boston, MA: Allyn and Bacon. Halbar BG and Khan CGH. (1991). Relevance of Anthropology – The Indian Scenario. Rawat Publications, Jaipur.
11. Kapoor AK (1998). Role of NGO's in Human Development: A Domain of Anthropology. J Ind Anthropol Soc; 33:283-300.
12. Kapoor AK and Singh D. (1997). Rural Development through NGO's. Rawat Publications, Jaipur.
13. Klepinger LL (2006). Fundamentals of Forensic Anthropology. Wiley-Liss Publications
14. Kumar RK and Kapoor AK. (2009). Management of a Primitive Tribe: Role of Development Dynamics. Academic Excellence, Delhi.
15. Mehrotra N and Patnaik SM. (2008). Culture versus Coercion: The Other Side of Nirmal Gram Yojna, Economic and Political weekly. pp 25-27.
16. Mishra RC (2005). Human Rights in a Developing Society, Mittal Publications, Delhi.
17. Noaln RW. (2002). Anthropology in Practice: Building a Career outside the Academy. Publishing Lynne Rienner.
18. Patnaik SM (1996). Displacement, Rehabilitation & Social Change. Inter India Publications, New Delhi.
19. Patnaik SM (2007). Anthropology of Tourism: Insights from Nagaland. The Eastern Anthropologist. 60(3&4):455-470
20. Srivastav OS (1996). Demographic and Population Studies. Vikas Publishing House, India
21. Vidyarthi LP and BN Sahay (2001). Applied Anthropology and Development in India, National Publishing House, New Delhi.
22. Vidyarthi LP. (1990). Applied Anthropology in India – Principles, Problems and Case Studies. Kitab Mahal, U.P.
23. Vidyarthi V (1981). Tribal Development and its Administration. Concept Publishing Company, New

MJ 21: ANTH 8.13

URBAN ANTHROPOLOGY

Total Credits: 3+1

- Unit I** Urban anthropology: Aim, scope and methodology; processes of urbanization (urbanism, urban ecology and urban structures). Basic features of urban society (heterogeneity, neighbourhood, slums, ethnic, cultural, linguistic affiliation of an Indian city); folk-urban continuum.
- Unit II** Urbanization in India: rise of city and civilization in India (pre-industrial, post industrial). Classification of city cultures: Administrative, industrial, mercantile, colonial and city states. (R.G. Fox).
- Unit III** Urban poverty: Culture of poverty (Oscar Lewis); Multiculturalism in the urban setting. Community studies in complex societies (Indian case studies)

PRACTICAL

- UNIT IV** Students will identify and write a report on any one of the urban issues faced in the state.

Suggested Readings

1. Fox, R: Urban Anthropology: (Cities in their Cultural Settings)
2. Redfield, R: Folk Culture of Yucatan
3. Redfield, R: Peasant Society and Culture.
4. Southall, A: Urban Anthropology.
5. Redfield, R: Tepoztlan : A Mexican Village
6. Eames, E & Good, J.G. : Anthropology of the City
7. Rivke, Jaffe: Introducing Urban Anthropology
8. Gmelch, George & Zenner, Walter P. : Urban Life; Reading in Urban Anthropology
9. Kaul, Shonaleeka.: Imagining the Urban.
10. Pardo, Italo : Anthropology in the City: Methodology and Theory.
11. Dicky, Sara.: Living Class in Urban India.
12. Krase, Jerom : Seeing Cities Change: Local Culture and Class.
13. Prato, Giuliana B : Beyond Multiculturalism; views from
14. Anthropology (Urban Anthropology)
15. Mayer, AC : Caste and Kin and Central India
16. Sinha, S.C. & Saraswati, B.N: Ascetics of Kashi

MJ 22: ANTH 8.14

BIOLOGICAL DIVERSITY IN HUMAN POPULATION

Total Credit: 4

- Unit I** Concept of Biological Variability; Race; Sources of Genetic Variation; Structuring Genetic Variation; Interpretation of Human Variation, Genetic Polymorphism (Serological, Biochemical and DNA Markers); Human Adaptability – Adaptive Mechanisms determining the types of adaptation.
- Unit II** 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 counseling.

Unit III Pre and Proto historic racial elements in India. Linguistic classification of Indian population. Genetic diversity among Indian Population

Unit IV Role of Bio-cultural Factors: Cultural Biology; Bio-cultural factors influencing the diseases and nutritional status. Evolution of Human diet, biological perspectives of ageing process among different populations.

Suggested readings

1. Baker P.T. and J.S. Weiner (ed.) (1996) *The Biology of Human Adaptability*. Oxford & New York, Oxford University Press.
2. Bhende A. and T. Kantikar (2006) *Principles of Population Studies*. Himalayan Publishing House, Mumbai
3. Bogin B. (1999). *Pattern of Human Growth*. 2nd 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*. McGrand Hill Book Company, USA.
6. Frisancho R. (1993) *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. Jurmain Robert Lynn Kilgore Wenda Trevathan and Ciochon (2010). *Introduction to Physical Anthropology*. Wadsworth 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. Klepinger L.L. (2006). *Fundamentals of Forensic Anthropology*. John Wiley & Sons., New Jersey.
12. Malhotra K.C. and B. Balakrishnan (1996) *Human Population Genetics in India*

MJ 23: ANTH 8.15

CULTURAL HERITAGE MANAGEMENT, TOURISM AND LAW

Total Credit: 3+1

Unit 1 **Applied Archaeology**- Impact of Population growth and Development on Archaeology, Definition, meaning, concept and relevance of CRM, importance of Heritage and Heritage management, Selection criteria of World Heritage Sites.

Unit 2 **Tourism and its significance**- Definition and Types of Tourism (Heritage Tourism, Eco-Tourism, Food Tourism), Economic and Cultural Significance of Tourism, Major Heritage Tourist Destinations of Northeast India.

Unit 3 **Important Indian Legislations**- The Indian Treasure Trove Act, 1878, The Ancient Monuments Preservation Act, 1904, The Ancient Monuments and Archaeological Sites and Remains Act, 1958, The Ancient Monuments and Archaeological Sites and Remains Rules, 1959, The Antiquities and Art Treasures Act, 1972 and The Antiquities and Art Treasures Rules, 1973.

PRACTICAL

Unit 4 Students will conduct field survey in a Cultural Heritage Site and submit a proposal on how to develop the site as tourist destination for evaluation.

Recommended Readings

1. Chambers E. Native Tours: The Anthropology of Travel and Tourism. Prospect Heights: Waveland.

2. Cleere, Henry. ed. *Archaeological Heritage Management in the Modern World*. London Unwin-Hymen.
3. Fowler, Don D, Cultural Resources Management,” *Advances in Archaeological Methods and Theory* 5 (1982): 1-50.
4. Gawel, Lukasz & Kocój , Ewa (Ed): *Cultural Heritage (Management, Identity and Potential)*.
5. Graburn, N.H.H. *Tourism: The Sacred Journey. Hosts and Guests: The Anthropology of Tourism*. Valene L. Smith, ed. Philadelphia: University of Pennsylvania Press. Pp. 33-47.
6. Gmelch, S. B. *Tourists and Tourism: A Reader*. Long Grove: Waveland.
7. Guha-Thakurta Tapati. *Monuments, Objects, Histories: Institutions of Art in Colonial and Postcolonial India*, Delhi. Permanent Black.
8. Harrison ,Richard & Butterworth: Heinemann (*Manual of Heritage Management*).
9. Hitchcock. Cultural, Economic and Environmental Impacts of Tourism Among the Kalahari. In Chambers E (eds.) *Tourism and Culture: An Applied Perspective*. SUNY Press.
10. Kirshenblatt-Gimblett B. *Destination Culture: Tourism, Museums, and Heritage*. University of California Press.
11. Messenger, Phyllis M. & G. S. Smith (ed): *Cultural Heritage Management-A Global Perspective*. Cultural Heritage Studies.
12. Nash, D. *Anthropology of Tourism*. New York: Pergamon.
13. Paddayya, K. *Essays in History of Archaeology: Themes, Institutions and Personalities*. Archaeological Survey of India.
14. Picard, M. and Wood R. *Tourism, Ethnicity, and the State in Asian and Pacific Societies*. University of Hawai Press.
15. Singh, Upinder. *The Discovery of Ancient India: early archaeologists and the beginnings of archaeology*. Delhi, Permanent Black.

MJ 24: ANTH 8.16

RESEARCH PROJECT/ DISSERTATION

Total Credit: 12

Each student shall opt either dissertation or Project work and conduct fieldwork for at least three weeks on a topic of his/her/their choice and write a thesis with a minimum of 10,000 words under the supervision of one of the faculty members. The same shall be submitted for evaluation against 12 credits.