

**5<sup>TH</sup> SEMESTER  
DISCIPLINE CENTRIC ELECTIVE COURSE**

**OPTION-I**

**ANT516DA: ANTHROPOLOGY - PALAEOANTHROPOLOGY**

**CREDITS: THEORY: 04, PRACTICAL: 2**

**Theory: 04 credits**

**UNIT-I**

- 1.1 Introduction: Aims, objectives and problems.
- 1.2 Affinities of paleoanthropology with other disciplines (Geology, Earth Science and Archaeology)
- 1.3 Historical development of Paleoanthropology.
- 1.4 Fossils and their preservation and processes of fossilization.

**UNIT-II**

- 2.1 Principles of stratigraphy and correlation.
- 2.2 Dating methods- Relative and Chronometric dating.
- 2.3 Brief account of Pro-pliopithecus and Pliopithecus
- 2.4 Detailed description of Australopithecines and Neanderthal man

**UNIT-III**

- 1.3 Taxonomy and rules of nomenclature.
- 3.2 Succession of life through ages with stress on
- 3.3 Cenozoic Era with reference to Pleistocene and Holocene
- 3.4 Extinct primates and other related animals in Pleistocene glaciation

**UNIT-IV**

- 4.1 Siwalik Group – Nomenclature, stratigraphy, fauna and flora.
- 4.2 Paleoanthropological significance of Siwaliks.
- 4.3 Evolution of dentition with special emphasis on primate dentition.
- 4.4 Various trends in primate evolution – Continental drift, food habits and alternative interpretation, etc.

## **Practicals: 02 Credits**

1.1 How and where to look for fossils. Equipment and techniques for collection, washing & screening, field cataloguing, transportation, etc. of fossils.

1.2 Identification of major rock types. Structure and use of clinometer compass (dip and strike, topo sheet reading and mapping). Moulding and casting.

1.3 Methods of identification of fossils with particular reference to primates (casts). Dental morphology and taxonomy of selected fossil groups and their illustration, interpretation and reporting style.

## **Essential Readings**

Brace, C. L. and Montagu: Man's Evolution: An Introduction to M.F.A. (1969) Physical Anthropology, Macmillan.

Kennedy, G.E. (1980): Paleoanthropology. New York: McGraw-Hill.

Buttner-Janusch, J. (1966): Origins of Man. New York:

John Wiley Simpson, G.G. (1953): The Major Features of Evolution. New York: Columbia University Press

Poirier, F.E. (1990): In Search of Ourselves: An Introduction to Physical Anthropology. New Jersey: Prentice Hall.

Kummel, (1961): History of the Earth: An Introduction to Historical Geology. San Francisco: Freeman

Lewin, R. (1999): Human Evolution: An Illustrated Introduction. Massachusetts: Blackwell Science.

Vasishat, R.N. (1985): Antecedents of Early Man in Northwest India. Delhi: Inter-India Publications.

**5<sup>TH</sup> SEMESTER  
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**OPTION-II**

**ANT516DB: ANTHROPOLOGY - HUMAN GROWTH**

**CREDITS: THEORY: 04, PRACTICAL: 2**

**Theory: 04 credits**

**UNIT-I**

- 1.1 Introduction: Concept and basic principles of growth; Human physical growth as a primate characteristic; growth processes
- 1.2 Measurements and Standards of Growth: Longitudinal, Cross-sectional & Mixed-longitudinal growth curves
- 1.3 Phases of growth-Pre-natal and Post-natal.
- 1.4 Stages of growth: Infancy, Childhood, Adolescence, Puberty and Senescence.

**UNIT-II**

- 2.1 Developmental processes and measures of skeletal maturity
- 2.2 Dental and sexual maturity and their relationships.
- 2.3 Aging Processes: Theories of aging, morbidity - mortality relationship.
- 2.4 Hereditary and Environmental Influences on growth, Secular Trends

**UNIT-III**

- 3.1 Body composition and human physique
- 3.2 Introduction of various somatotyping methods
- 3.3 Sheldon's Method of Somatotyping: Endomorphy, Mesomorphy, Ectomorphy,
- 3.4 Technique of Somatotyping and Somatochart.

**UNIT-IV**

- 4.1 Health & Carter Modified Somatotype Method
- 4.2 Concept and background of Somatotype, components, measurements
- 4.3 Somatochart and somatotype plotting; somatotype dispersion index,
- 4.4 Brief introduction of Body Mass Index, Adiposity Index.

## **Practical: 02 Credits**

2.1 Somatoscopy and Somatometry on the human body

2.2 Physiological variable test: Recording of Blood pressure, Pulse rate, vital capacity grip strength and Hemoglobin assessment

2.3 Use of body fat analyzer and assessment of body composition.

## **Essential Readings**

Bogin, B. (1999): Patterns of Human Growth. Cambridge University Press, Cambridge.

Harrison, G. A., J.S. Weiner, J.M. Tanner NA. Barnicot (1988): Human Biology – An Evolution, Variation, Growth and Ecology. Introduction to Human Oxford University Press, London. 33

Heath, B.H., J.E.L. Carter (1990): Somatotyping – Development and Applications Cambridge University Press, Cambridge.

Tanner, J.M. (1989): Foetus into Man – Physical Growth from Conception to Maturity. Harvard University Press, Cambridge.

Cameron, N. (2002): Human Growth and Development. Academic Press, New York.

Falkner, F., J.M. Tanner: Human Growth – A Comprehensive Treatise. Plenum Press, New York

Kaul, S., I. Nyamongo: Ecology, Growth and Nutritional Status. Ashish Publishing (1990) House, New Delhi.

**5<sup>TH</sup> SEMESTER**  
**DISCIPLINE CENTRIC ELECTIVE COURSE**

**OPTION-III**

**ANT516DC: ANTHROPOLOGY - MEDICAL ANTHROPOLOGY**

**CREDITS: THEORY: 04, PRACTICAL: 2**

**Theory: 04 credits**

**UNIT-1**

- 1.1 Medical anthropology: History, scope, perspectives and methodology;
- 1.2 Theories, applications and methods.
- 1.3 Rise of medical anthropology: Contributions of Ackerknecht, Rivers,
- 1.4 Role of Evans-Pritchard, Benjamin D. Paul, Foster, Reeds, Kleinman in medical Anthropology.

**UNIT-1I**

- 2.2 Medical Systems: Medical systems as socio-cultural adaptive strategies;
- 2.2 Disease theory and health care systems; some universals in medical systems.
- 2.3 Anthropological approaches to the study of human adaptation in health and disease.
- 2.4 Medical Anthropology and Ecology: Eco-systems and socio-cultural systems; Ecological interest of Medical Anthropology;

**UNIT-1II**

- 3.1 Ecology and epidemiology of disease:
- 3.2 Adaptation of disease and its distribution in human populations.
- 3.3 Paleopathology; Disease and evolution; Diet and evolution;
- 3.4 Epidemiology; Ecology and Development; Disease of development.

**UNIT-1V**

- 4.1 Medical Pluralism: Biomedicine, Homoeopathy, Ayurveda, Siddha, Unani, Naturopathy
- 4.2 Faith healing; Traditional Chinese and Tibetan systems of medicine;
- 4.3 Traditional and modern systems of medicine; Strength and weaknesses of traditional systems.
- 4.4 Traditional system of different regions of Jammu and Kashmir

## **Practical: 02 Credits**

- 3.1 Project report on traditional medicine system of the vicinity
- 3.2 Field visit to the remote village where primary health system is not available.

## **Essential Readings**

Banerjee, B.G. and Jalota, R. (1988): Folk Illness and Ethno-medicine. New Delhi: Northern Book Centre.

Channa, S.M. (2002): Health and the Supernatural Disease and Cure in Tribal Societies. New Delhi: Cosmo Publications.

Choudhuri, B. (Ed.). (1986): Tribal Health: Socio-cultural Dimension. New Delhi: Inter-India Press.

Ember, Carol R., and Melvin Ember (Eds.) (2004): Encyclopedia of Medical Anthropology: Health and Illness in the world's Cultures. New York: Kluwer.

Foster, G.M. and Anderson, G.A 1978: Medical Anthropology. New York: John Wiley and Sons.

Joraleman, Donald. (2006): Exploring Medical Anthropology. Boston: Pearson.

Kakar, D.N. (1977): Folk and Modern Medicine. New Delhi: New Asian Publishers.