

SEMESTER 2nd
MAJOR COURSE

ANT222J: ANTHROPOLOGY (BIOLOGICAL ANTHROPOLOGY)

CREDITS: THEORY: 04, PRACTICALS: 02

Course Objectives

- To enable the students to learn about Fossil Hominids: *Australopithecus*, Habitat Ecology and Distribution of *Homo Neanderthalensis*.
- To enable students to learn about various characteristic features and classification of Primates
- To enable the students to learn about the various stages of Human Growth, Population Genetics and Human Racial Classification

THEORY (4 CREDITS)

Unit 1: Genetic Basis of Human Variation

- Mendelian Principles.
- Population Genetics: Hardy Weinberg's Equilibrium
- Racial Classification; Morphological basis of Racial Classification
- Polymorphism: Blood Groups and Sickle Cell Anaemia

Unit 2: Primates

- Taxonomic Classification
- Primates: Characteristic Features
- Primate Behaviour: Habitat, Diet and Social Behaviour
- Miocene fossils

Unit 3: Hominid Evolution

- Definitive Hominid features; Theories of Bipedalism and Brain Expansion
- Fossil Hominids: *Australopithecus*
- *Homo Erectus*; Habitat, Ecology and Distribution
- Habitat Ecology and Distribution of *Homo Neanderthalensis*

Unit 4: *Homo sapiens*

- Human Skeleton Anatomy
- Anatomical Comparison with apes
- Concept of Human Growth & Development
- Adaptations to Heat, Cold and Altitude.

PRACTICAL (2 CREDITS)

- i. Anthropometry: Total Upper Extremity Length Size and Shape Indices; Relative Upper Extremity Length; Ponderal Index; Relative Total Lower Extremity Length; Body Mass Index.
- ii. Blood Group Determination (ABO), Blood Pressure and Haemoglobin Estimation.

LIST OF READINGS

- Ember, C.R., Ember, M. & Peregrine P.N. (2021). *Anthropology*. New Delhi: Pearson.
- Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). *Introduction to Physical Anthropology*. Wadsworth Publ: USA
- Nystrom P. and Ashmore P. (2011). *The Life of Primates*. PHI Learning Private Limited, New Delhi. John Relethford (2010). *The Human Species: An Introduction to Biological Anthropology*. McGraw-Hill: Boston/ New Delhi.
- Park, Michael. 2007. *Biological Anthropology: An Introductory Reader*, McGraw Hill
- Radtke. Trudi. 2019. *Physical Anthropology*. An Open Educational Resources Publication.
- Stanford C., Allen J.S. and Anton S.C. (2010). *Exploring Biological Anthropology. The Essentials*. Prentice Hall Publ: USA.
- Stanford C., Allen J.S. and Anton S.C. (2014). *Biological Anthropology. The Natural History of Mankind*. PHI: New Delhi.