

Government Degree College Baramulla

Semester 2nd

Major / Minor Course

Subject: Anthropology

Title: Biological Anthropology

Course code: BAN22C201

Credits (4+2): Theory 04, Practical -02)

Contact hours: 60 (T) + 60 (L)

Part 1: Theory = (4 Credits)

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 characteristics features and classification of Primates
- To enable the students to learn about the various stages of Human Growth, Population Genetics and Human Racial Classification

Unit I: Genetic Basis of Human Variation

(16 Contact hours)

1.1 Mendelian Principles.

1.2 Population Genetics: Hardy Weinberg's Equilibrium

1.3 Racial Classification; Morphological basis of Racial Classification

1.4 Polymorphism: Blood Groups and Skill Cell Anaemia

Unit II: Primates

(16 Contact hours)

2.1 Taxonomic Classification

2.2 Primates: Characteristic Features

2.3 Primate Behaviour: Habitat, Diet and Social Behaviour

2.4 Miocene fossils

Unit III: Hominid Evolution

(16 Contact hours)

3.1 Definitive Hominid features; Theories of Bipedalism and Brain Expansion

3.2 Fossil Hominids: Australopithecus

3.3 Homo Erectus; Habitat, Ecology and Distribution

3.4 Habitat Ecology and Distribution of Homo Neanderthalensis

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Unit IV: Unit 4: Homo Sapiens

(16 Contact hours)

- 4.1 Human Skelton Anatomy
- 4.2 Anatomical Comparison with apes.
- 4.3 Concept of Human Growth & Development.
- 4.4 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.

Books recommended:

- 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. Taft College

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Subject: Anthropology

Multidisciplinary

Title: Human Growth and Development
(CREDITS (3): THEORY – 03)

Course code: ANT122I
Contact hours: 30 (T) + 30 (L)

Part 1: Theory = (3 Credits)

Course Objectives:

- To enable the students to learn about physical growth and development.
- To enable student to learn about various factors affecting human growth.
- To acquaint the students with basic concepts of human physique and body composition.

Learning Outcomes:

After thoroughly understanding the course the students should be able to

- Learn basics of human growth and development.
- Understand various factors affecting human growth and development.
- Understand the basic concepts in human physique and body composition.

Unit 1: Introduction

- 1.1 Concept of Human Growth and Development.
- 1.2 Growth curves and Methods
- 1.3 Prenatal and Postnatal development.
- 1.4 Physical and Psychological Changes during Adolescence

Unit 2: Factors Affecting Growth

- 2.1 Factors Influencing Growth (Genetic and Environmental)
- 2.2 Secular trends
- 2.3 Adolescence spurt, catch-up growth
- 2.4 Malnutrition and its assessment

Unit 3: Human physique and Body Composition.

Adaptation to Environment: Heat, Cold and Altitude.

3.1 Introduction to human physique.

3.2 Introduction to Body Composition.

3.3 Application of Human physique and Body composition.

3.4 Concept of balanced diet

Books recommended:

Bogin B, Mac Vean RB. 1981. Nutritional and biological determinants of body fat patterning in urban Guatemalan. 53, 259-268.

Bogin, B., 1999. Patterns of human growth (Vol. 23). Cambridge University Press.

Cameron, N. and Bogin B 2013 Human Growth and Development second edition.

Harrison GA, Tanner JM, Pibeam DR, Baker PT. (1988). Human Biology. Oxford University Press.

John Relethford (2010). The Human Species: An Introduction to Biological Anthropology. McGraw-Hill: Boston/ New Delhi.

Malina R.M, C. Bouchard, and O. Bar-Or, —Undernutrition in childhood and adolescence, in Growth, Maturation, and Physical Activity, M. Malina, C. Bouchard, and O. Bar-Or, Eds., pp. 509–525, Human Kinetics Books, Champaign, Ill, USA, 2d edition, 2004.

Malina, R.M., 2007. Body composition in athletes: assessment and estimated fatness. Clinics in Sports Medicine, 26, 37-68.

Stanford C., Allen J. S. and Anton S.C. (2010). Exploring Biological Anthropology. The Essentials. Prentice Hall Publ: USA.