

**NORTH LAKHIMPUR COLLEGE, ASSAM
(AUTONOMOUS)**

Estd. 1952

COLLEGE WITH POTENTIAL FOR EXCELLENCE
[Re-Accredited 'A' Grade by NAAC with 3.08 CGPA]

Proposed

SYLLABUS FOR THREE YEAR DEGREE COURSE

IN

ANTHROPOLOGY

UNDER SEMESTER SYETEM

B.A/BSc. CORE Course Program

**B.A./ B.SC. (CORE) PROGRAMME
ANTHROPOLOGY (ANTH)
SCHEME OF COURSES**

SEMESTER-I

CT-5-ANT-101: FOUNDATION OF PHYSICAL ANTHROPOLOGY 5 Credits =100 marks

SEMESTER-II

CT-5-ANT-201: SOCIAL ANTHROPOLOGY 5 Credits=100 marks

SEMESTER-III

CT-3-ANT 301: CULTURE 3 Credits=60 marks

CT-3-ANT-302: PREHISTORY 3 Credits=60 marks

CP-2-ANT-303: PRACTICAL IN PREHISTORY 2 Credits= 40 marks

SEMESTER-IV

CT-3-ANT-401: HUMAN EVOLUTION 3 Credit=60 marks

CT-3-ANT-402: SOCIAL INSTITUTION 3 Credits=60marks

CP-2-ANT-403: PRACTICAL IN PHYSICAL ANTHROPOLOGY
(OSTEOLOGY) 2 Credits= 40 marks

CP-2-ANT-404: PRACTICAL IN MATERIAL CULTURE 2 Credits= 40 marks

SEMESTER-V

CT-4-ANT-501: HUMAN GENETICS 4 Credits=80 marks

CT-4-ANT-502: PREHISTORIC CULTURE 4 Credits=80 marks

CT-3-ANT-503: ECOLOGICAL ANTHROPOLOGY 3 Credits=60 marks

CT-3-ANT-504: HUMAN VARIATION AND RACE 3 Credits=60 marks

CT-3-ANT-505: ANTHROPOLOGICAL THOUGHT AND DISASTER MANAGEMENT 3Credits= 60 marks

CP-2-ANT-506: PRACTICAL IN PHYSICAL ANTHROPOLOGY-I
(DERMATOGLYPHICS & SEROLOGY) 2 Credits= 40 marks

CP-2-ANT-507: PRCTICAL IN PHYSICAL ANTHROPOLOGY-II
(OSTEOMETRY & CRANIOMETRY) 2 Credits= 40 marks

SEMESTER-VI

CT-5-ANT-601: INDIAN ANTHROPOLOGY 5 Credits=100 marks

CT-3-ANT-602: APPLIED SOCIAL ANTHROPOLOGY 3 Credits=60 marks

CT-3-ANT-603: APPLIED PHYSICAL ANTHROPOLOGY AND DEMOGRAPHY 3 Credits=60 marks

CP-4-ANT-604: FIELD WORK BASED REPORT 4 Credits=80 marks

CP-2-ANT-605: MUSEUM METHOD 2 Credits=40 marks

CP-2-ANT-606: ELEMENTS OF DATA ANALYSIS 2 Credits=40 marks

CP-2-ANT-607: PRACTICAL IN PHYSICAL ANTHROPOLOGY
(SOMATOMETRY & SOMATOMETRY) 2 Credits=40 marks

Total 70 Credits =1400 Marks

ANTHROPOLOGY
CORE (Major)
SEMESTER-I
Total Marks : 100

Code (Paper) : CT-5-ANTH-101 :: Title : FOUNDATION TO PHYSICAL ANTHROPOLOGY :: Credit : 5
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Lecture Hours: 80

L-4, T-1, P-0=Credit: 5

Unit 1.1: Foundation to Physical Anthropology . The meaning, Nature and its scope. History and Development of Physical anthropology. Lecture Hours:15

Unit 1.2: New Physical Anthropology; Emerging Areas in Physical Anthropology. Relationship with other branches of anthropology and cognate science. Lecture Hours:15

Unit 1.3: Study of Human skeleton : Identification, structure and function of Different bones of skeleton . Age and sex determination. Lecture Hours:15

Unit 1.4:Man's place in animal kingdom. Lecture Hours :20
General characters of mammals –its classification
General characters of primates – its classification
Living primates: distribution and salient features-
Tupaioidea (Treeshrews),Lemuroidea,Tarsioidae, Lorisidae,
Ceboidea and Cercopithecoidea.
Living Anthropoid apes : distribution and salient features-
Gibbon,Orang Utan,Chimpanzee, Gorilla.

Unit 1.5: Comparison of morphological and skeletal characters of man and apes Lecture Hours:15
With special reference to skull, dentition, vertebral column, pelvis, femur and foot. Evolutionary changes in the human skeleton due to functional adaptation.
Social behaviour of non human primates.

Recommended Readings:

1. Breneman, W.R. : *Animal Form and Function* (Relevant chapters like 19 and 20)
2. Burnow, Victor (1975) : *An Introduction to Anthropology*, Vol.1. Physical Anthropology and Archaeology, Homewood, Illinois. The Borsey Press.
3. Buettner-Janusch John(1969) : *Origin of Man*, New Delhi, Wiley Eastern Pvt. Ltd.
(Relevant chapters of part-I)
4. Das,B.M.(1971) : *Outline Physical Anthropology*, Allahabad, Kitab Mahal
(Relevant chapters 1, 5)
5. Dobzhansky, T. (1971) : *Evolution, Genetics and Man*, New Delhi, Anand R. Kundaji
(Relevant chapter like 13)

Anthropology
CORE (Major)
SEMESTER-II
Total Marks :100

Code (Paper) :CT-5-ANTH-201: :Title :SOCIAL ANTHROPOLOGY	5 Credits
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Lecture Hours: 80

L-4, T-1,P-0=Credit: 5

- Unit 2.1:** History and development of Social Anthropology. Lecture Hours:15
Defination of Social Anthropology, its aim and scope.
Relation of Social Anthropology with other social sciences.
- Unit 2.2:** Concept of society and basic characteristics of human society. Lecture Hours:15
Meaning of Social organization and Social structure, community.
- Unit 2.3:** Primitive religion-concept, theories of origin. Functions of religion, Lecture Hours:15
Magic; Differences between magic and religion, Religious specialist,
Ancestor worship , Divination , Totem, Taboo , Mana.
- Unit 2.4:** Economic Anthropology: Salient features of Primitive Economic System; Lecture Hours :20
Subsistence economy and barter system.
Shifting cultivation , merit and demerits of shifting cultivation.
Terrace cultivation , Horticulture & Pastoralism.
Concept of Property, its Types and Patterns of ownership with
special reference to tribal society.
- Unit 2.5:** Concept of law and government in simple societies. Lecture Hours:15
Informal means of social controls: folkways, mores, customs and traditions.

Recommended Readings:

1. Beals, Ralph L; Harry Hoijer &: *An Introduction to Anthropology* (Relevant chapters like 1, 19)
Alan R. Beals (1977)
2. Bose, N. K. (1971) : *Tribal Life in India*, New Delhi, national Book Trust of India.
3. Evans-Pritchard, E.E. (1960) : *Social Anthropology*, London, Cohen and West (Relevant chapters
line 1-2)
4. Keesing, Roger M. (1976) : *Cultural Anthropology.*, A Contemporary Perspective, New York, Holt,
Rinehart & Winston (Relevant chapters like 13-15, 17-19)
5. Majumdar, D.N. and (1961) : T. N. Madan *An Introduction to Social Anthropology*, Bombay,
Asia Publishing House.
6. Linton, R (2006) : *The Study of Man*, Surjeet Publiucation, Delhi
7. Sarkar, R.N(1997) : *Fundamental of Physical Anthropology*, Calcatta

Anthropology
CORE (Major)
SEMESTER-III
Total Marks :60

Code (Paper): CT-3-ANT-301::	Title : CULTURE ::	3 Credits
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Lecture Hours: 48

L-3, T-0, P-0. Credit:3

Unit 3.1: Culture : Concept, definition and nature; material and non-material culture. Universal in culture, cultural value and cultural relativism ,Culture trait, culture complex, Culture area, culture focus ,

Lecture Hours:15

Unit 3.2: Concept of culture and society, aspects of culture, different theories of culture, Enculturation , transculturation Forces and factors responsible of culture change, concept of diffusion and acculturation,

Lecture Hours:18

Unit3.3: Concept of culture and personality, Basic personality, Modal personality , Role of culture in personality formation. Culture and language.

Lecture Hours:15

Recommended Readings:

1. Beals, Ralph L. Harry Hoijet & Alan R. Beals (1977) : *An Introduction to Anthropology* (Relevant chapters like 1, 19)
2. Hammond, Peter B.(1971) : *An Introduction to Cultural and Social Anthropology*, London, Collier Macmillan Ltd.
3. Herskovits (1969) : *Cultural Anthropology*, New Delhi, Oxford & IBH publishing Co. (Relevant chapters like 6, 19, 21, 24, 25).
4. Kessing Roger (1976) : *Cultural Anthropology. A Contemporary Perspective* (Relevant chapters like 8, 10, 11).
5. Kroeber, A. L. (1948) : *Anthropology*, Calcutta, Oxford and IBH Publishing Co.
6. S. Raymond & C.R. Decorse : *Anthropology. A Global Perspective*, Fifth Edition, Prentice Hall of India Pvt. Ltd. , New Delhi.
7. Srivastav, A. R. N. : *Essentials of Cultural Anthropology*, Prentice Hall of India Pvt. Ltd., New Delhi.

Anthropology
CORE (Major)
SEMESTER-III
Total Marks :60

Code (Paper) :CT-3-ANT-302::	Title: PREHISTORY	::	3 Credits
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Lecture Hours: 48

L-3, T-0, P-0. Credit:3

Unit 3.1: Meaning and scope of prehistoric anthropology and its Development. Lecture Hours:15
Prehistory, Protohistory and History, Relations of Prehistoric anthropology with other branches of anthropology.

Unit 3.2: Geological Time Scale, Pleistocene stratigraphy and climatic changes, great is age, glacial and inter- glacial, pluvial and inter-pluvial phases. Lecture Hours:15
Dating method - Relative (Pollen Analysis, Verve clay analysis, Dendrochronology , Flourin Analysis) and Absolute (Radio-carbon, Potassium argon, Thermoluminescence)

Unit 3.3: Methods of studying prehistory: Geological, Palaeontological and Associated Finds , Archaeological Method. Lecture Hours:18
Studies of prehistoric technology – tool technology, tool type and tool industry. Raw Material and Rock types.

Recommended Readings:

1. Bhattacharyya, D. K. (1972) : *Prehistoric Archaeology*, New Delhi.
2. Frank Hole and R. F. Heizer (1968) : *An Introduction to Prehistoric Archaeology*, New York.
3. Leaky, L.S.B. (1960) : *Adam's Ancestor*, London, Methuen & Co.
4. Oakley, Kenneth P. (1963) : *Man the Tool Maker*, London.
5. Reddy V. R. (1987) : *Elements of Prehistory*, New Delhi.
6. Stuart Piggott, (1959) : *Approach to Archaeology*, London, Panguin.
7. R. C. Das (1985) : *Prarombhic Brittata* (in Assamese), 1st Part, Arya Book Stall, Guwahati.

**Anthropology
CORE (Major)
SEMESTER-III
Total Marks: 40**

CP-2-ANT-303: PRACTICAL IN PREHISTORY	2 Credits
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Lecture Hours: 32

L-0, T-0, P-2. Credit:2

Students should be able to identify the tool types they have studied along with techniques of manufacture. Students are to undertake systematic drawing and description of the following tool type illustrating techniques, probable use, probable age, manipulation, tool type etc.

1. Lower Palaeolithic – 4 (four)
2. Middle Palaeolithic – 4 (two)
3. Upper Palaeolithic – 4 (two)
4. Mesolithic – 4 (four)
5. Neolithic – 4 (three)

Students shall maintain a Laboratory Note Book for which 3 marks are allotted

Anthropology
CORE (Major)
SEMESTER-IV
Total Marks : 60

Code (Paper) : CT-3-ANTH-401::	Title: HUMAN EVOLUTION ::	3 Credits
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Lecture Hours:48

L-3, T-0, P-0. Credit:3

Unit 4.1: Concept and theories of Evolution : General principles of organic evolution. Lecture Hours:12
Theories of organic evolution, Lamarckism, Neo Lamarckism, Darwinism, Neo Darwinism and Synthetic theory.

Unit 4.2: Human Evolution: Biological and Cultural Dimension. Lecture Hours:12
Paleoanthropology its definition, Aims & Scope. Paleo anthropology in India.

Unit 4.3: The meaning of Primate, Origin and Evolution of primates : Lecture Hours:12
a general study of the following fossil types – Adapidae, Anaptomorphidae, Parapithecus, Propithecus and Dryopithecinae.

Unit 4.4: Origin and evolution of hominidae: Lecture Hours:12
Australopithecine
Homo erectus
Homo neanderthalensis
Homo sapiens : Grimaldi, Chancelade, Cromagnon.

Recommended Reading:

1. Breneman, W.R: *Animal Form and Function* (Relevant chapters like 19 and 20)
2. Buettner-Janusch John(1969) : *Origin of Man*, New Delhi, Wiley Eastern Pvt. Ltd. (Relevant chapters of part-I)
3. Burnow, Victor (1975) : *An Introduction to Anthropology*, Vol.1. Physical Anthropology and Archaeology, Homewood, Illinois, The Borsey Press.
4. Das, B. M.(1971) : *Outlines of Physical Anthropology*, Allahabad, Kitab Mahal (Relevant chapters- 1 to 5)
5. Dobzhansky, T. (1971) : *Evolution, genetics and Man*, New Delhi, Anand R. Kundaji (Relevant chapter like 13)
6. Downs, James F. (1969) : *Human Variation. An Introduction to Physical Anthropology*, Beverly Hills (Calif) Glencoe Press.
7. Hootan, E. (1965) : *Up From the Ape*, Delhi, Motilal Banarassi Das (Relevant chapters like 1 & 4)

**Anthropology
CORE (Major)
SEMESTER-IV
Total Marks : 60**

Code (Paper):CT-3-ANTH-402::	Title: SOCIAL INSTITUTION	:: 3 Credits
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Lecture Hours:48

L-3, T-0, P-0. Credit:3

Unit 4.1:Family-definition; types and distinctive features; functions, changing trends.

Lecture Hours:12

Unit4.2:Marriage-definitions; forms (monogamy, polygamy) ; Regulations of marriage (exogamy,endogamy), Ways of acquiring mates, preferential marriage (cross-cousin marriage, parallel cousin marriage, sororate, levirate, widow inheritance) ; marriage payments (bride-price, dowry) ; changing trends.

Lecture Hours:14

Unit 4.3: Kinship- a general outline, terminology and usages.

Lecture Hours:10

Unit 4.4: Rules of descent, inheritance and succession with particular Reference to simple societies, Unilineal descent groups (lineage, clan, phatry and moiety) .

Lecture Hours:12

Recommended Readings:

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|----------------------------------|---|
| 1. <i>Bidney, David (1964) :</i> | Theoretical Anthropology. New York, Columbia University Press. |
| 2. Bohanna, Paul (1963) : | Social Anthropology. New York, Holt, Rinehart & Winton Inc. |
| 3. Childe, Gordon V. (1951): | Social Evolution. London, Watts & Co. (Relevant Chapter 1). |
| 4. Harris, Marvin (1968) : | The Rise of Anthropological Theory. New York, Thomas Y. Crowell & Co. |

Anthropology
CORE (Major)
SEMESTER-IV
Total Marks :40

Code (Paper):CP-2-ANTH-403:: Title: PRACTICAL IN MATERIAL CULTURE	::	2Credits
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Lecture Hours: 32

L-0, T-0, P-2. Credit:2

Study of implements illustrative of material culture and subsistence economy of the tribal and non – tribal communities with special reference to North east India. Students are to systematically draw and describe the following implements:

1. Hunting – 4 nos.
2. Fishing - 4 nos.
3. Agriculture – 4nos.
4. Basketry – 4 nos.

The record of work is maintained in Practical Note Book for which 5 marks are allotted.

CP-2-ANTH-404:PRACTICAL IN PHYSICAL ANTHROPOLOGY(OSTEOLOGY)	2 Credit
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Lecture Hours:32

L-0, T-0, P-2. Credit:2

The student should draw, describe and identify (side & position) of the following bones of human skeleton:

- | | |
|-------------|--------------|
| 1. Frontal | 2.Parietal, |
| 3. Temporal | 4. Occipital |
| 5. Mandible | 6. Scapula |
| 7. Humerus | 8. Radius |
| 9. Ulna | 10.Pelvis |
| 11. Femur | 12.Tibia |
| 13. Fibula. | |

The record of work is maintained in Practical Note Book for which 5 marks are allotted.

**Anthropology
CORE (Major)
SEMESTER-V
Total Marks : 80**

CT-4-ANTH-501: HUMAN GENETICS

4 Credits

Lecture Hours: 64

L-4, T-0, P-0. Credit:4

Unit 5.1: Human Genetics – Aims and Scope, History and Development. Lecture Hours:16
Methods of studying human
genetics: Twin method, Pedigree method.

Unit 5.2: Cell Biology : Structure of cell, Cell Division-Mitosis and Meiosis. Lecture Hours:16
The Chromosome- Basis of inheritance, Chromosomal aberration,
Crossing over & Linkage. Molecular Genetics : gene, DNA, RNA.

Unit 5.3: Mode of Inheritance : Single factor inheritance, Sex-limited and Lecture Hours:16
Sex-influenced traits, Multiple allelism, Polygenic inheritance in man,
ABO, MN and Rh Blood group ,Bombay Phenotype.

Unit 5.4: Population genetics : Definition, Breeding population, Lecture Hours:16
Hardy-Weinberg law, Genetic equilibrium. Mating pattern –
Consanguinity, inbreeding and miscegenation.

Recommended Readings:

1. *Buettner-Janusch, John (1969)* : Origins of Man, New Delhi, Wiley Eastern Pvt. Ltd. (Relevant chapter like 2)
2. Comas, Juan (1960) : Manual of Physical Anthropology, Springfield, Illinois.
3. Neel, James, V. (1968) :
& William J. Schull Human Heredity, Chicago, The Univ. of Chicago, The Univ. of Chicago Press.
4. Stern, Curt (1968) : Principles of Human Genetics, Eurasia Publishing House Pvt., New Delhi (Relevant chapters like 1, 2, 6, 8, 10-14, 18, 23).
5. Stein, Philip L. (1978) :
& Bruce M. Powe. Physical Anthropology, New York, Mc. Grow Hill Book Co.
6. Swedlund Alan C. (1976) :
(USA), & George Armelages Demographic Anthropology, Dubuque, Iowa W. C. & Brown Co.

**Anthropology
CORE (Major)
SEMESTER-V
Total Marks : 60**

CT-3-ANTH-503:	ECOLOGICAL ANTHROPOLOGY	3 Credits
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Lecture Hours: 48

L-3, T-0, P-0. Credit:3

Unit 5.1:	Concept of Ecology, Ecological Zones of the World; Habitat, culture and environment, man- nature relationship.	<u>Lecture Hours:12</u>
Unit 5.2:	Human Ecology and adaptation in terms of biology and culture with special reference to altitude ; hot and cold climatic conditions.	<u>Lecture Hours:12</u>
Unit 5.3:	Nutritional Adaptation, Evolutionary Implication of Changing. Nutritional Patterns.	<u>Lecture Hours:10</u>
Unit 5.4:	Man, heredity and environment. Influence of heredity and environment on stature, weight and skin colour and head form	<u>Lecture Hours:10</u>

Recommended Readings:

1. Kzein. R. N. 1976 : Cultural Anthropology A Contemporary Perspective(relevant Chapter)
2. Herskovits M. J. 1969: Cultural Anthropology (Relevant Chapter)
3. Shukla, B. R. K. : 1991: Physical Anthropology and Human Genetics, An Introduction. Palaka Prakason. New Delhi
& Rastogi. S.

Anthropology
CORE (Major)
SEMESTER-V
Total Marks : 60

CT-3-ANTH-504: HUMAN VARIATION AND RACE

3 Credits

Lecture Hours:48

L-3, T-0, P-0. Credit:3

Unit 5.1: Human Variation : Causes of variation. Factors influencing Genetic variation. Mutation, Selection, hybridization and genetic drift.

Lecture Hours:16

Unit 5.2: Concept and definition of Race. Race, Culture and Society. Race and Racism. UNESCO statement of Race. Mechanism of Race formation . Criteria for racial classification. Skin Colour, hair, eye, stature, head, face, nose, Blood Group, Haemoglobin variants, dermatoglyphic. Major human races and their important sub-division and their distribution and characteristic feature.

Lecture Hours:16

Unit 5.3 Racial classification : A critical study of classifications made by H. H. Risley, B.S. Guha and S.S. Sarkar. Racial elements in India with special reference to North East India.

Lecture Hours:16

Recommending Books:

Sarkar, R.M. (1976) : *Fundamentals of Physical Anthropology*, Calcutta, Blackie (India), (Relevant chapters like 1 , 2, 3).

Stein, Philip & (1978) :

Bruce M. Rowe *Physical Anthropology*, New York, Mc-Grow Hill Book Co.

Sarkar, R. M.: *Fundamental of Physical Anthropology* (3-5), Calcutta, Blackis India.

R. C. Das (2008) : *Anthropology*, Part I, Amrita Prakashan, Guwahati.

R. C. Das (1985) : *Prarombhic Nrittata* (in Assamese), 1st Part, Arya Book Stall, Guwahati.

Boyd, W. C.(1950) : *Genetics and the Races of Man*. Boston : D. C. Heath.

Coon, S.C.; S.M. Garn and

J.B. Birdsell (1950): *Races : A Study of the Problems of Race Formation in Man*. Springfield :

Charles C. Thomas.

Coon, S.C. (1962) : *The Origin of Races*. New York, K. Knopf.

Garn, S.M. (1969) : *Human Races*. Springfield, Charles C. Thomas.

**Anthropology
CORE (Major)
SEMESTER-V
Total Marks : 60**

CT-3-ANTH-505 : ANTHROPOLOGICAL THOUGHT & DISASTER MANAGEMENT	3 Credits
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Lecture Hours:48

L-3, T-0, P-0. Credit:3

Unit 5.1: A general outline on various socio-cultural anthropological Theories with special reference to:
Evolutionism: (Classical and Neo Evolutionism)
Diffusionism
Functionalism
Structuralism

Lecture Hours:16

Unit 5.1: Contribution of Indian Anthropologist
S. C. Roy
D.N. Majumder
L.P. Vidiyarthi

Lecture Hours:16

Unit 5.3: Concept of Disaster Management and Displacement.
Anthropological perspective and rehabilitation.
Policies and Programmes in natural and man-made disaster.

Lecture Hours:16

Recommending Reference:

1. Bidney, David (1964): Theoretical Anthropology. New York. Columbia University Press.
2. Bohannan, Paul(1963) : Social Anthropology, New York, Holt, Rinehart & Winston Inc.
3. Child, Gordon V.(1951): Social Evolution. London, Watts & Co. (Relevant Chapter 1)
4. Harris, Mrvin (1968): The Rise of Anthropological Theory. New York, Thomas Y. Crowell & Co.
5. Vidyathi. L. P. : History of Anthropological Thought. Kitab Mahal
6. Dutta. D. & Saikia J. R. 2011 ; Environment and Development. (Edt.)

SEMESTER-V

CP-2-ANTH-506: PRACTICAL IN PHYSICAL ANTHROPOLOGY (CRANIOMETRY & OSTEOLOGY)

2 Credits

Lecture Hours:32

L-0, T-0, P-2. Credit:2

A.Craniometry

Note Book : 3

- (i) The following direct linear measurements are to be taken on 2 (two) human skulls.

1	Max. Cranial length	11	Frontal chord
2	Max. Cranial breadth	12	Parietal chord
3	Glabella-inion length	13	Occipital chord
4	Nasion-inion length	14	Frontal arch
5	Minimum frontal breadth	15	Parietal arch
6	Maximum frontal breadth	16	Length of foramen magnum
7	Bizgomatic breadth	17	Breadth of foramen magnum
8	Biauricular breadth	18	Bicondylar breadth
9	Bimastoid diameter	19	Breadth of ramus
10	Nasion-prosthion line	20	Height of ramus

- (ii) Direct angular measurements on 2(two) human skulls
 1. Facial profile angle 2. Metopic angle 3. Nasal profile angle
- (iii) The following Linear and angular measurements on sectional Drawing on skull (craniographic contour) are to be taken on 2 (two) human skulls
- | | |
|-------------------------|----------------------------|
| 1. Basion Bregma height | 2. Nasion inion line |
| 3. Metopic angle | 4. Nasal profile angle |
| 5. Facial profile angle | 6. Alveolar profile angle. |

A. Osteometry

The following measurements are to be taken on a pair of bone for each case.

Note Book : 3

Clavicle	Anatomical breadth
	Anatomical length
	Length of axillary border
Scapula	Anatomical breadth
	Anatomical length
	Length of axillary border

Humerus	Maximum length
	Breadth of proximal epiphysis
	Breadth of distal epiphysis
	Least girth of shaft
Radius	Maximum length
	Physiological length
	Least girth of shaft
Ulna	Maximum length
	Physiological length

	Least girth of shaft
Femur	Maximum length
	Physiological length
	Girth of the shaft
Tibia	Maximum length
	Physiological length
	Circumference of shaft
Fibula	Maximum length
	Maximum diameter in the middle
	Circumference in middle

Indices to be calculated: (1) Scapular index , (2) Caliber index

SEMESTER-V

CP-2-ANTH-507: PRACTICAL IN PHYSICAL ANTHROPOLOGY (SEROLOGY & DERMATOGLYPHICS)

2 Credits

Lecture Hours:32

L-0, T-0, P-2. Credit:2

A. Serology

Note Book: 3

Students are required to be acquainted with the preparation of normal saline solution, preparation of red cell suspension in normal saline for blood grouping and determination of ABO and Rh blood grouping of 10(ten) individuals by slide / tile method.

B. Dermatoglyphics

Note Book: 3

Students are required to be acquainted with the technique of collection of finger and palm prints and identification of finger type patterns and formulation of palmar main line. They shall collect and analyze finger and palm prints of 10(ten) individuals.

SEMESTER-VI

CT-5-ANTH-601: INDIAN ANTHROPOLOGY

5 Credits

Lecture Hours: 80

L-4, T-1, P-0=Credit: 5

Unit 6.1: Definition and concept of tribe in Indian context. Racial elements in Northeast India with special reference to Assam. Lecture Hours: 16

Unit 6.2: Caste system in India-meaning salient features, theories of origin, merit and demerits, difference between caste and class, changing trend. Lecture Hours: 16

Unit 6.3: The Indian peasantry and its problem of socio-economic development. Lecture Hours: 16

Unit 6.4: The Schedule caste and the Schedule Tribes- a brief introduction to their constitutional provisions and special problems. Lecture Hours: 16

Unit 6.5: Ethnographic study of the following communities : Lecture Hours: 16

- (i) Mishing
- (ii) Apatani

Recommended Readings:

1. Bose, N.K. (1971) : Tribal Life in India, New Delhi, National Book Trust of India.
2. Bose, N.K.(1977) : Culture and Society in India, Bombay, Asia Publishing House (Relevant chapters like 10-13).
3. Borkotoky, Satyen (1969) : The Tribes of Assam, New Delhi, National Book Trust of India.
4. Choudhury, M.N.(1980) : Tribes of Assam, Gauhati, Directorate of Welfare of Plains Tribes and Backward Classes, Govt. of Assam.
5. Dube, S.C.(Ed.) (1977) : India since Independence, New Delhi, Vikas Publishing House Pvt. Ltd. (Article by T.K. Oommen on Scheduled Caste and Scheduled Tribes).
6. Furer-Haimendorf, : The Apa Tanis and their Neighbours. London Routledge and Kegan Paul. Christoph Vol. (1962)
7. Migum Jatin (1993) : The Mising of Assam(Development of a New life style) Gian Publish House

CT-3-ANTH-602: APPLIED SOCIAL ANTHROPOLOGY

Lecture Hours:48

L-3, T-0, P-0. Credit:3

Unit 6.1: Definition, meaning, scope of Applied social anthropology.Lecture Hours: 16**Unit 6.2:** Applied Anthropology and administration, Application of anthropological knowledge in community development and social welfare.Lecture Hours: 16**Unit 6.3:** Anthropology and problems of development in the spheres of health, education and agriculture with special reference to tribal and other backward communities of IndiaLecture Hours: 16**Recommended Readings:**

1. Vidyathi, L. P. (2005) : Applied Anthropology in India. Kitab Mahal, Allahabad
2. Nair, L. P. : Studies in Applied Anthropology.
3. Fernandas, W & Enakshz Ganduli Thakrai(eds) : Development, Displacement & Rehabilitation.
4. F.A. Das & R. K. Kar(eds) : Health Studies in India

CT-3-ANTH-603: APPLIED PHYSICAL ANTHROPOLOGY & DEMOGRAPHY

3 Credits

Lecture Hours:48

L-3, T-0, P-0. Credit:3

Unit 5.1: Applied Physical Anthropology. Aims and Scope.Lecture Hours: 16

Applied of Physical Anthropology in Industries
[clothing, Foot-wares, furniture] & Sports,
Nutritional Assessment and Growth and Development . Ergonomics

Unit 5.2 : Application of human genetics-medico-legal fields,Lecture Hours: 16

Genetic screening, genetic counseling &
Eugenics . DNA Finger Printing.

Unit 5.3: Demography-definition, nature and scope .Sources ofLecture Hours: 16

Population Data: Population census,
Registration of vital events & Sample Surveys.
Population Structure- Underdeveloped,
Developing & Developed Nations . Components of demographic change:
Fertility, Mortality & Migration . Population Policy in India.

Recommended Readings:

- Agarwal, S. N.: India's Population Problem
 Bonnet, John, W. Introduction : Planned change Perspective, Human Organization. 18: 2-4.1959.
- Burnett, H.G.R (1969) : Anthropology in Administration. Blackwell Scientific Publications, Oxford. .
- Bhende, A. and T. Kanitkar (1991) : Principles of Population Studies. New Delhi, Tata McGraw.
- Bogue, Donald (1969) : Principles of Demography. New York : John, Wiley and Sons.
- Car Sanders, A. M. (1972) : The Population Problem – A Study of Human Evolution. Oxford: Clarendron Press.
- Cox, Peter R. (1970) : Demography. Cambridge: University Press.
- Hansraj (2006) : Fundamentals of Demography with Special Reference to India. Surjeet Publications, Delhi.
- Vidyarthi, L.P (2005) : Applied Anthropology in India. Kitab Mahal. Delhi

CP-4-ANTH-604: FIELD WORK BASED REPORT	4 Credits
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Lecture Hours:64

L-0, T-0, P-4. Credit:4

Students are required to undertake ethnographic field investigations in rural area (preferable a tribal village), under the guidance of teacher(s) for two weeks.

Each student shall carry out conducted fieldwork under the supervision of teacher/s investigations independently and shall submit a report on the work done covering the following:

1. Village plan and description.
2. Demographic outline
3. A brief description on the somatometric traits; somatoscopic observation and morphological and behavioural traits of the people.
4. Any one of the following topic selected in consultation with the supervising teacher(s).
 - a) Agriculture
 - b) Material culture (Dress and ornaments, house type, fishing and hunting implements and basketry)
 - c) Social institution (Family, marriage and kinship)
 - d) Economic life
 - e) Life cycle
 - f) Village organization
 - g) Magico-religious life
 - h) Fair and festival
 - i) Any other topics as suggested by the supervisor(s)

* At least 7 (seven) Field –Orientation lecturers to be arranged for the students before going to the field.

CP-2-ANTH-605: Museum Method	2Credits
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Lecture Hours:32

L-0, T-0, P-2. Credit:2

The course is aimed to familiarize the students with basic methods of preservation of various cultural artifacts.

Classification of Museum specimens , cleaning, treatment and preservation of Museum specimen by different methods.

1. Bamboo, wooden and bone objects
2. Fabric materials.

Students shall maintain a Laboratory Note Book for which 5 marks are allotted.

CP-2-ANTH-606: PRACTICAL IN PHYSICAL ANTHROPOLOGY (SOMATOMETRY & SOMATOSCOPY)	2 Credits
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Lecture Hours:32

L-0, T-0, P-2. Credit:2

A. Somatometry

Candidates shall take the following somatometric measurements on 4 individuals:

Note Book:3

The following measurements shall be taken on 4 individuals:

- | | | | |
|----|----------------------------------|----|-----------------------|
| 1 | Maximum head length | 12 | Sitting height vertex |
| 2 | Maximum head breadth | 13 | Height tragus |
| 3 | Horizontal circumference of head | 14 | Height acromion |
| 4 | Minimum frontal breadth | 15 | Height radiale |
| 5 | Breadth of bi-zygomatic are | 16 | High stylium |
| 6 | Total facial height | 17 | Height dactylion |
| 7 | Upper facial height | 18 | Height illiospinale |
| 8 | Nasal height | 19 | Height tibiale |
| 9 | Nasal breadth | 20 | Height spherion |
| 10 | Stature | 21 | Bi-acromial diameter |
| 11 | Head height | 22 | Weight |

Indices to be calculated:

- 8 Cephalic Index
- 9 Nasal Index
- 10 Morphological facial Index
- 11 Morphological Upper facial Index
- 12 Relative sitting height Index
- 13 Length-height Index
- 14 Breadth-height Index

B. Somatoscopy

Candidate should go for observations on 4 individuals : Note Book:3

1. Skin Colour
2. Hair on head :
 - a) hair form
 - b) hair texture
 - c) hair whorl
3. Beard and Moustache quantity
4. Forehead slope
5. Supra-orbital ridges prominence
6. Eye :
 - a) eye-fold
 - b) eye-slit
7. Nose :
 - a) nasal root
 - b) nasal bridge
 - c) nasal septum
8. Lips size
9. Face
 - a) frontal outline
 - b) prognathism
 - c) malar prominence

CP-2-ANTH-607: ELEMENTS OF DATA ANALYSIS	2 Credits
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Lecture Hours:32

L-0, T-0, P-2. Credit:2

Unit 6.1: Tabulation of data and preparation of tables, Diagrammatic Representation: Histogram, Frequency Polygon and Pie diagram.

Unit 6.2: Elementary statistics – Measures of central tendency (mean, median and mode) Measures of dispersion (standard deviation and Standard error).

Unit 6.3: Report writing: Chapterization, Citation of references and preparation of bibliography.
