

**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 SYSTEM

B.A/BSc. CORE Course Program

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B.A/BSc. Elective Course Program

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**B. A. / B.SC. (ELECTIVE) PROGRAMME  
Anthropology (ANTH)**

## Scheme of Courses

### SEMESTER -1

**ET-5-ANT-101 : INTRODUCTION TO ANTHROPOLOGY**

5 Credit=Marks : 100

### SEMESTER-II

**ET-5-ANT-201 : PHYSICAL ANTHROPOLOGY (EVOLUTION AND VARIATION)**

5 Credit=Marks : 100

### SEMESTER-III

**ET-3-ANT-301: SOCIAL & CULTURAL ANTHROPOLOGY**

3 Credit=Marks : 60

**EP-2-ANT-302: PHYSICAL ANTHROPOLOGY PRACTICAL - I**

2 Credit=Marks : 40

### SEMESTER -IV

**ET-3-ANT-401: PREHISTORIC ANTHROPOLOGY**

3 Credit=Marks : 60

**EP-2-ANT-402: PRACTICAL IN PREHISTORY AND TECHNOLOGY**

2 Credit=Marks : 40

### SEMESTER -V

**ET-3-ANT-501: HUMAN GENETICS**

3 Credit=Marks : 60

**EP-2-ANT -502: PHYSICAL ANTHROPOLOGY PRACTICAL – II**

4 Credit=Marks : 80

### SEMESTER -VI

**ET-3-ANT -601: FIELD METHODOLOGY AND ELEMENTARY STATISTICS**

3Credit=Marks :60

**EP-2-ANT -602: FIELD WORK BASED REPORT**

4 Credit=Marks : 80

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**Total=34 Credit=Marks 380**

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**Anthropology**  
**Elective (General)**  
**SEMESTER-I**  
**Total Marks :100**

<b>Code (Paper) : ET-5-ANTH-101:: Title: INTRODUCTION TO ANTHROPOLOGY :: 5 Credits</b>
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Lecture Hours: 80

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

**Unit 1.1 : Fundamental of Anthropology :**

Meaning and Scope of Anthropology, History and development of Anthropology, Branches of Anthropology : (a) Social-Cultural Anthropology, (b) Physical Anthropology, (c) Prehistoric Anthropology, (d) Linguistic Anthropology, Relationship of Anthropology with other disciplines: Life Sciences, Social Sciences, Environmental Sciences and other Sciences. Lecture Hours: 16

**Unit 1.2: Fundamentals of Physical Anthropology**

Definition, aim and scope of Physical Anthropology and its relationship with other branches of Anthropology. A general study of human skeleton, Man's place in the animal kingdom. Classification of mammals and their characteristic features, classification of primates and their characteristic features. Comparative study of the anatomical characters of apes and man. Changes in the human skeleton due to assumption of erect posture and bipedal locomotion

Lecture Hours: 16

**Unit 1.3: Fundamentals of Social-Cultural Anthropology**

Definition, aim and scope of social cultural anthropology and its relationship with other branches of anthropology. Concept of culture: meaning and definition, material and non-material culture. Culture trait, culture complex, culture area, culture center

Lecture Hours: 16

**Unit 1.4: Fundamentals of Prehistoric Anthropology**

Definition, aim and scope of social pre-historic anthropology, and its relationship with other branches of anthropology. Prehistory and Proto-history; Methods of studying prehistoric anthropology: Geological (stratigraphical), Palaeontological, Archaeological (typological) and Ethnographical. Tool technology and tool type. Lecture Hours: 16

**Unit 1.5: Fundamentals of Applied Anthropology**

Application of Anthropological knowledge in the field of administration, Health and Education. Knowledge of Anthropometry and Human Genetics human welfare.

Lecture Hours: 16

**Recommending Reading:**

Basu Roy, I (2003): *Anthropology: The Study of Man*. S.Chand & Company ltd.

Das B.M (2006):*Out lines of Physical Anthropology*. Kitab Mahal

Bhattacharya D.K(1997): *Prehistoric Archaeology*. Hindustan Publishing Corp.

Madan & Majumdar(2008): *An Introduction to Social and Cultural Anthropology*. Mayoor Paper Backs

Jha, M(2009): *An Introduction to Social Anthropology*. Vikash Publishing House Pvt ltd.

**Anthropology**  
**Elective (General)**  
**SEMESTER-II**  
**Total Marks: 100**

**Code (Paper):ET-5-ANTH-201:: Title: PHYSICAL ANTHROPOLOGY (EVOLUTION AND VARIATION) :: 5 Credits**

Lecture Hours: 80  
5

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

Unit 2.1 : General principles of organic evolution, concept of evolution Lamarckism Darwinism, and Synthetic theory.

Lecture Hours: 16

Unit 2.2 : Evolution of primates : a general study of the following fossil types – Adapidae, AnaptomorphidaeParapithecus, Propliopithecus, Limnopithecus and Dryopithecinae.

Lecture Hours: 16

Unit 2.3 : Evolution of man : the study of the following fossils remains to understand the evolutionary stages of man: Australopithecinae  
Homo erectus: Pithecanthropus and Sinanthropus  
Homo neanderthalensis  
Homo sapiens : Grimaldi, Chancelade, Cromagnon.

Lecture Hours: 16

Unit 2.4 : Human variation : climatic adaptation, ecological rules, Adaptive strategies and adaptability.  
Biological basis of human variation : mutation, selection, hybridization and genetics drift.

Lecture Hours: 16

Unit 2.5: Modern concept of Race. Study of some racial criteria : stature, skin colour, head form, nose form, face form, eye, ABO blood group, dermatoglyphic .

Major racial groups of the world-their physical characters and distribution. Racial classification of Human population in India. H. H. Risley, B. S. Guha, S.S. Sarkar. Racial Clements in India with special reference to North East India.

Lecture Hours: 16

**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 Archarology, 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**  
**Elective (General)**  
**SEMESTER-III**  
**Total Marks :60**

<b>Code (Paper):ET-3-ANT- 301 ::</b>	<b>Title : Socio- Cultural Anthropology ::</b>	<b>3 Credits</b>
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Lecture Hours:48

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

Unit 3.1 :      Marriage and Family – definition, types, distinctive features and functions.  
                  Kinship-definition, terminology and its classification – Kinship usages.

Lecture Hours:20

Unit 3.2 :      Primitive Religion- Concept, Theories and Function of Religion.

Lecture Hours:12

Unit 3.3 :      Culture and society; and their relationship. Culture and Environment – relationship.  
                  Culture and language, Concept of culture and personality, the role of culture in  
                  personality formation.

A general outline on various socio-cultural anthropological theories with special reference to  
Evolutionism, Diffusionism, Functionalism and Structuralism.

Lecture Hours:16

**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) : An Introduction to Social Anthropology, Bombay,  
    T. N. Madan                             Asia Publishing House.

**Anthropology**  
**Elective (General)**  
**SEMESTER-III**  
**Total Marks :40**

<b>Code (Paper) :EP-2-ANT-302 :: Title : Physical Anthropology Practical –I ::</b>	<b>2 Credits</b>
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Lecture Hours:32

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

Credit:2

**Group A : Somatometry and Somatoscopy.**

**Somatometry :** Candidates shall record somatometric measurements taken on 3 subjects: .

1	Maximum head length	9	Nasal breadth
2	Maximum head breadth	10	Stature
3	Horizontal circumference of head	11	Sitting height vertex
4	Minimum frontal breadth	12	Height tragus
5	Breadth of bi-zygomatic are	13	Height acromion
6	Total facial height	14	Girth of thorax
7	Upper facial height	15	Bi-acromial diameter
8	Nasal height	16	Weight

Indices to be calculated :

1. Cephalic Index

2. Nasal Index
3. Morphological facial Index
4. Morphological Upper facial Index
5. Relative sitting height Index
6. Breadth –height Index
7. Length-height Index

Somatoscopy : The following observations shall be made on 3 individuals :

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

Group B:

Osteology :

Drawing, Description and identification (side & position) of the following bones of human skeleton :

Frontal, parietal, occipital, mandible, scapula, humerus, radius, ulna, pelvis, femur, Tibia and fibula.



**Anthropology**  
**Elective (General)**  
**SEMESTER-IV**  
**Total Marks : 60**

<b>ET-3-ANTH- 401 : Prehistoric Anthropology</b>	<b>3 Credits</b>
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Lecture Hours:48

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

Unit 4.1 :Geological Time Scale, Pleistocene period and its significance in prehistory.  
Climatic Fluctuation during Pleistocene period : Glacial and Interglacial,  
Pluvial and Inter-Pluvial .

Lecture Hours:12

Unit 4.2 : Dating method : Relation dating and Absolute dating method  
Dating Technique: Relative (Stratigraphical and Associated finds) and  
Absolute (Radiocarbon and Potassium Argon).  
Prehistoric technology : tool type; tool technology and tool industry.

Lecture Hours:16

Unit 4.4 : Prehistoric culture : Lower Palaeolithic , Middle Palaeolithic and  
Upper Palaeolithic culture ; Mesolithic culture, Lower Palaeolithic  
culture of Africa, Europe and India.  
Neolithic Cultural Development, Indus Valley Civilization

Lecture Hours:20

**Recommended Readings:**

- |                      |   |  |
|----------------------|---|--|
| 1. Butzer, Karl      | : | Environment and Archaeology                      |
| 2. Hole and Hoizer   | : | An introduction to Prehistoric Archaeology       |
| 3. Wheeler, Mortimer | : | Archaeology from the earth                       |
| 4. Kennyn, K         | : | Beginning in Archaeology                         |
| 5.Daniel, Glyn       | : | The Origin and Growth of Archaeology             |
|                      | : | The Idea of Prehistory                           |
| 6.Willia, S.D        | : | Archaeological Field Method "an introduction"    |
| 7. Fagan, B.M        | : | In The Beginning" an introduction to Archaeology |

**Anthropology**  
**Elective (General) Practical**  
**SEMESTER-IV**  
**Total Marks :40**

**Group A: Prehistory**

Students should be able to identify the tool types they have studied in the evolutionary sequence along with their techniques of manufacture. Students are to undertake systematic drawing and description of the following tool types illustrating morphological features, techniques, probable use, probable age, manipulating, tool types etc.

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

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

**Group B: Technology**

Students 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 – 2 (two)
2. Middle Fishing – 2 (two)
3. Agriculture - 2 (two)
4. Basketry – 2 (two)

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

[The students may be exposed to various objects of material culture during their ethnographic fieldwork]

**Recommended Readings:**

1. Bhattacharyya, D.K. (1972) : *Prehistoric Archaeology*, Delhi, Hindustan, Publishing Corporation (Introduction and relevant chapters like 1 to 8).
2. Sharma, Tarun Chandra (1974) : *Prageitihasiik Nritattwa* (in Assamese), Part I, Gauhati G. U. Text Book Production Corporation.
3. Sharma, Tarun Chandra (1975) : *Prageitihasiik Nritattwa* (in Assamese), Part II, Gauhati G. U. Text Book Production Corporation.
4. Sharma, Harish Chandra (1980) : *Prageitihasiik Nritattwa* (in Assamese), Gauhati G. U. Text Book Production Corporation.
5. Reddy, V. R. (1987) : *Elements of Prehistory*, New Delhi.

Lecture Hours:48  
Credit:3

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

Unit 5.1 : Elementary knowledge of Human Genetics: meaning, aim & scope of Human Genetics.  
Methods of studying Human Genetics: Twin Method , Pedigree Method.

Lecture Hours:16

Unit 5.3: Biological basis of man's inheritance cell, cell division, chromosome,  
gene-DNA & RNA ,Cell Divisions, Linkage and crossing over,  
Mendel's Laws of inheritance.

Lecture Hours:16

Unit 5.4: Man, heredity and environment. Influence of heredity and environment with  
special reference to statures, skin colour.,and weight.

Lecture Hours:16

**Recommending Reading:**

Das, BM : *Outlines of Physical Anthropology*, Kitab Mahal

Gange, SD(2009): *Human Genetics*. Reed Elsevier India Pvt. Ltd.

Stern Curt(1967): *Principles of Human Genetics*. Eurasia Publishing House pvt.ltd.

**SEMESTER-V**

A. Cranimotery

The following direct linear measurements are to be taken on 3(three) human skulls :

1	Maximum cranial length	8	Bicondylar breadth
2	Maximum cranial breadth	9	Nasion-prosthion line
3	Glabella-inion length	10	Frontal chord
4	Minimum frontal breadth	11	Parietal chord
5	Nasal height	12	Occipital chord
6	Bizygomatic breadth	13	Length of foramen magnum
7	Bimastoid diameter	14	Height of ramus

B. Osteometry

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

Scapula	Anatomical breadth
	Anatomical length
	Length of axillary border
Humerus	Maximum length
	Breadth of proximal epiphysis
	Breadth of distal epiphysis
	Least girth of shaft
Femur	Maximum length
	Physiological length
	Girth of the shaft
Indices to be calculated :	(1) Scapular index (2) Caliber index

C. Serology

Students are required to be acquainted with the slide / tile method of determine blood grouping. They are to determine ABO blood grouping of 5 (ten) individuals.

D. Dermatoglyphics

Students are required to be acquainted with the technique of collection of finger and palm prints and identification of finger type patterns by Galton and palmer main line formula. They shall collect and analyze finger and plam prints of 5(ten) individuals.

**Recommended Readings:**

1. Buettner – Janusch, John (1969) : *Origins of Man*, New Delhi, Whiley Eastern Pvt. Ltd. (Relevant chapter like 2)
2. Comas, Juan (1960) : *Manual of Physical Anthropology*, Springfield, Illino
3. Das B.M : *Physical Anthropology Practical*

8. Das R.C. (2008 ) : *Anthropology*, Part I, Amrita Prakashan, Guwahati.  
 9. Das R. C. (1985) : *Prarombic Nrittat* (in Assamese), 1<sup>st</sup> Part, Arya Book Stall, Guwahati.

## SEMESTER VI

<b>ET-2 ANTH-601: Filed Methodology and Elementary Statistic</b>	<b>3 Credits</b>
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Lecture Hours:48  
Credit:3

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

Unit 6.1 : Fieldwork tradition in Anthropology.  
 Observation, Interview, Schedule, Questionnaire, Gebealogy, Case study. Lecture Hours:16

Unit 6.3 : Tabulation of data : Diagrammatic Representation- frequency distribution, histogram, polygon and pie diagram. Lecture Hours:16

Unit 6.4 : Elementary Statistics : Measures of Central Tendency – mean, median and mode ; standard deviation and standard error. Lecture Hours:16

<b>EP-3ANTH-602: Fieldwork based Report</b>	<b>4 Credits</b>
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Lecture Hours: 64  
Credit:4

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

Students are required to undertake ethnographic field investigations in rural area (preferable a tribal village), under the guidance of teacher(s) at least for 7 days.

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 (based on analysis of data with the help of household survey schedule, the proforma of which is given in Annexure-I).
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) Cottage industries
  - c) Village organization
  - d) Marriage
  - e) Lifecycle
  - f) Fishing
  - g) Personal adornment
  - h) House types
  - i) Religion
  - j) Any other topic as suggested by the supervisor(s)

At least 7(seven) Field-Orientation lectures to be arranged for the students before going to the field.

**Recommended Readings:**

1. Das,B.M. and Ranjan Deka : Practical Anthropology.
2. Srinivas : Caste in Modern India and Other Essays.
3. Vidyarthi and Rai : Tribal Culture in India.
4. Beattlie, Andre : Essays in Comparative Society
5. Pegu, N. C. : The Mishings of the Brahmaputra Valley.
6. Taid, Tapu :
7. Pegu,Indreswar : Mishing Samaj aru Sanskriti (Assamese).
8. Bordoloi, B. N.; G. C. Sharma Thakur : Tribes of Assam, Vol.I, II & III.

