

# **Syllabus and Examination Scheme under Choice Based Credit System (CBCS) for the P.G. Department of Anthropology**

**(To be implemented from Session 2017 -2018)**

**Department of Anthropology  
Faculty of Science  
University of North Bengal  
Rajarammohunpur  
Darjeeling- 734013**

**Signature of HOD  
Department of Anthropology, NBU**

**UNIVERSITY OF NORTH BENGAL  
DEPARTMENT OF ANTHROPOLOGY**

**REVISED SYLLABUS FOR M.Sc. PROGRAMME IN ANTHROPOLOGY  
UNDER CHOICE BASED CREDIT SYSTEM (CBCS), (FROM THE  
SESSION 2017 – 2018 ONWARDS)**

**PROGRAMME STRUCTURE**

The M.Sc. Programme in Anthropology under CBCS is divided into two parts and each part comprises of two semesters (two odd semesters and two even semesters). Each semester is made up of 16 Credits (400 marks). So the total credits of the course are  $16 \times 4 = 64$  (marks=1600). Semesters I and II have core compulsory papers to be studied by all students who are admitted to the M.Sc. Anthropology programme. The first part of Semester III is made up of compulsory courses to be studied by all the students of this semester while the second part of Semester III is arranged in two groups which are made up of core with elective courses to be taken from specific group. Semester IV is composed of core and elective courses arranged in two groups. The papers include both theoretical and practical papers. Field studies in all the three sub-disciplines are compulsory. The internal evaluation consists of class tests, comprehensive viva, term papers, group discussions, seminars and book reviews.

At present the Department is offering core papers in Physical Anthropology, Prehistoric Archaeology and Social Cultural Anthropology while elective papers are being offered only in Social Cultural Anthropology and Physical Anthropology.

**STRUCTURE OF SYLLABUS FOR M.SC. IN ANTHROPOLOGY UNDER  
CHOICE BASED CREDIT SYSTEM (CBCS)**

**M. Sc. Anthropology,  
Semester - I  
(Broad outline)**

**(Compulsory Courses in Anthropology for 1<sup>st</sup> Semester)**

	<b>Courses</b>	<b>Modules</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Marks</b>	<b>Credits</b>
<b>CORE COURSES</b>	101A Physical Anthropology	<i>PHYANTH 1:</i> The Theories and Concepts of Evolution <i>PHYANTH 2:</i> Osteology	2			25	1
	101B Physical Anthropology	<i>PHYANTH 3:</i> Primatology <i>PHYANTH 4:</i> Primate and Hominoid Evolution	2			25	1
	102A Prehistoric Archaeology	<i>ARANTH 1:</i> Concept of Archaeological Anthropology <i>ARANTH 2:</i> Palaeoenvironment <i>ARANTH 3:</i> Dating and Chronology	2			25	1
	102B Prehistoric Archaeology	<i>ARANTH 4:</i> Tool Technology and Typology <i>ARANTH 5:</i> Lithic Cultures of Europe <i>ARANTH 6:</i> The Neolithic Revolution	2			25	1
	103A Social Cultural Anthropology	<i>SCANTH 1:</i> Society and Culture	2			25	1
	103B Social Cultural Anthropology	<i>SCANTH 2:</i> Social Structure and Organization (Family, Marriage and Kinship)	2			25	1
	104A Research Methodology (Physical Anthropology)	<i>RMANTH 1:</i> Methods in human genetics <i>RMANTH 2:</i> Statistics <i>RMANTH 3:</i> Methods	2			25	1

	<i>and Prehistoric Archaeology)</i>	in Prehistoric Archaeology					
	104B Research Methodology ( <i>Social Cultural Anthropology</i> )	<i>RMANTH 4:</i> Historical Background and Conceptual Frame Work <i>RMANTH 5:</i> Tools, techniques and methods of data collection <i>RMANTH 6:</i> Approaches of Research in Social Sciences	2			25	1
105 Practical	Unit I	<i>PRPHYANTH 1:</i> Osteology and osteometry <i>PRPHYANTH 2:</i> Craniometry <i>PRPHYANTH 3:</i> Somatometry and somatoscopy	1		4	50	4
	Unit II	<i>PARANTH 1:</i> Drawing, description and identification of Prehistoric tools	1		2	30	
	Unit III	<i>PSCANTH 1:</i> Material Culture (Drawing, description and identification)	1		2	20	
106 Continuing Evaluation	Unit I	<i>Class Test</i>		1		40	4
	Unit II	<i>Group Discussion</i>		1		30	
	Unit III	<i>Comprehensive viva-voce</i>		1		30	
<b>Total Marks and Credits (for all 1<sup>st</sup> Semester Students)</b>						<b>400</b>	<b>16</b>

**Note: L- Lecture of one hour duration per week (assuming 15 weeks per semester); T – Tutorial; and P- Practical**

**M. Sc. Anthropology**  
**Semester - II**  
**(Broad outline)**

**(Compulsory Courses in Anthropology for 2<sup>nd</sup> Semester)**

	<b>Courses</b>	<b>Modules</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Marks</b>	<b>Credits</b>
<b>CORE COURSES</b>	201A Physical Anthropology	<i>PHYANTH 5:</i> Human genetics	2			25	1
	201B Physical Anthropology	<i>PHYANTH 6:</i> Human variation <i>PHYANTH 7:</i> Human Auxology and Nutrition	2			25	1
	202A Palaeoanthropology	<i>PHYANTH 8:</i> Human Evolution <i>PHYANTH 9:</i> Biocultural Process	2			25	1
	202B Prehistoric Archaeology	<i>ARANTH 7:</i> Prehistoric Cultures of Africa <i>ARANTH 8:</i> Indian prehistory	2			25	1
	203A Social Cultural Anthropology	<i>SCANTH 3:</i> Economic Organisation, Political Organisation and Social Stratification	2			25	1
	203B Social Cultural Anthropology	<i>SCANTH 4:</i> Religion and Magic, Socialization, Personality Formation and Civilization	2			25	1
	204A Social Cultural Anthropology	<i>SCANTH 5:</i> Schools of Diffusionism <i>SCANTH 6:</i> Schools of Evolutionism <i>SCANTH 7:</i> Functional School of Thoughts	2			25	1

	204B Social Cultural Anthropology	SCANTH 8: Structuralism and Neo-structuralism  SCANTH 9: Psychological School of thoughts	2			25	1
205 Practical	Unit I	PRPHYANTH 4: Field study in Physical Anthropology/ Museum visit/ Laboratory visit/ Zoo visit/ Primate study	1	2	field work	25	4
	Unit II	PARANTH 2: Fieldwork in Prehistoric Archaeology	1	1	field work	15	
	Unit III	PSCANTH 2: Fieldwork in Social Cultural Anthropology	2	4	2-3 weeks field work	60	
206 Continuing Evaluation	Unit I	<i>Class Test</i>		1		40	4
	Unit II	<i>Seminar</i>		1		30	
	Unit III	<i>Comprehensive viva-voce</i>		1		30	
<b>Total Marks and Credits (for all 2<sup>nd</sup> Semester Students)</b>						<b>400</b>	<b>16</b>

**M. Sc. Anthropology**  
**Semester - III**  
**(Broad outline)**

**(Compulsory Courses in Anthropology for 3<sup>rd</sup> Semester)**

	<b>Courses</b>	<b>Modules</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Marks</b>	<b>Credits</b>
<b>CORE COURSES</b>	301A Indian Anthropology	<i>PHYANTH 10</i> : Physical Anthropology in India  <i>ARANTH 9</i> : Prehistoric Studies in India  <i>ARANTH10</i> : Significant Prehistoric Sites of Undivided India	2			25	1
	301B Indian Anthropology	<i>SCANTH 10</i> : Social Cultural Anthropology in India	2			25	1
	302A Indian Anthropology	<i>PHYANTH 11</i> : Physical Anthropology in West Bengal and Sikkim  <i>ARANTH 11</i> : Prehistoric Studies in West Bengal and Sikkim  <i>ARANTH 12</i> : Important Prehistoric Sites in West Bengal and Sikkim	2			25	1
	302B Indian Anthropology	<i>SCANTH 11</i> : Ethnic Profile of the Indigenous Populations of West Bengal and Sikkim  <i>SCANTH 12</i> : History and Development of Tea Gardens in North Bengal	2			25	1
<b>Total marks and credits (Compulsory for all 3<sup>rd</sup> Semester Students)</b>						<b>100</b>	<b>4</b>

**M. Sc. Anthropology**  
**Semester - III**  
**(Broad outline)**

**(Group – A: Core and Elective courses in Social Cultural Anthropology for 3<sup>rd</sup> Semester)**

	<b>Courses</b>	<b>Modules</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Marks</b>	<b>Credits</b>
<b>ELECTIVE COURSES</b>  (Any four may be opted by a 3 <sup>rd</sup> Semester student. The choices of elective courses would be subject to availability of infrastructure and resources.)	303A Social Cultural Anthropology	<i>SCANTH 13:</i> Rural Society in India -I	2			25	1
	303B Social Cultural Anthropology	<i>SCANTH 14:</i> Rural Society in India -II	2			25	1
	304A Social Cultural Anthropology	<i>SCANTH 15:</i> Weaker Sections in Indian Populations – I	3			25	1
	304B Social Cultural Anthropology	<i>SCANTH 16:</i> Weaker Sections in Indian Populations - II	2			25	1
	305A Social Cultural Anthropology	<i>SCANTH 17:</i> Concepts of culture and civilization  <i>SCANTH 18:</i> Indian Culture and Civilisation	3			25	1
	305B Social Cultural Anthropology	<i>SCANTH 19:</i> Concept and Approaches of Social and Cultural dynamics in India  <i>SCANTH 20:</i> Theories and approaches on Structural Changes in India	2			25	1



	306A Social Cultural Anthropology	<p><i>SCANTH 21:</i> Theoretical concepts of Medical Anthropology</p> <p><i>SCANTH 22:</i> Approaches of Medical Anthropology</p> <p><i>SCANTH 23:</i> Advanced Medical Anthropology</p>	2			25	1
	306B Social Cultural Anthropology	<p><i>SCANTH 24:</i> Applied Medical Anthropology: Culture and Nutrition</p> <p><i>SCANTH 25:</i> Indigenous Health</p> <p><i>SCANTH 26:</i> Healthcare Programmes and Services in India</p>	2			25	1
	307A Social Cultural Anthropology	<i>SCANTH 27:</i> Ecological Anthropology	2			25	1
	307 B Social Cultural Anthropology	<i>SCANTH 28:</i> Action Anthropology and Practicing Anthropology	2			25	1
<b>CORE COURSE</b> (Compulsory for 3 <sup>rd</sup> Sem. Group A students)	<b>308 Continuing Evaluation</b>	Unit I	Class test		1	40	4
		Unit II	Term paper		2	30	
		Unit III	Comprehensive <i>viva-voce</i>		1	30	
<b>Total marks and Credits (for all 3<sup>rd</sup> Semester Group A Students)</b>						<b>300</b>	<b>12</b>

**M. Sc. Anthropology**  
**Semester - III**  
**(Broad outline)**

**(Group – B: Core and Elective courses in Physical Anthropology for 3<sup>rd</sup> Semester)**

	Courses	Modules	L	T	P	Marks	Credits	
<b>ELECTIVE COURSES</b> (Any two may be opted by a 3 <sup>rd</sup> Semester student. The choices of elective courses would be subject to availability of infrastructure and resources.)	303A Physical Anthropology	<i>PHYANTH 12:</i> Cell Biology <i>PHYANTH 13:</i> Inborn Errors of Metabolism	2			25	1	
	303B Physical Anthropology	<i>PHYANTH 14:</i> Human Genetic Variation	2			25	1	
	304A Physical Anthropology	<i>PHYANTH 15:</i> Mating Patterns <i>PHYANTH 16:</i> Hardy-Weinberg Law and Population Structure	2			25	1	
	304B Physical Anthropology	<i>PHYANTH 17:</i> Human Reproductive Biology <i>PHYANTH 18:</i> Human Auxology	2			25	1	
	305A Physical Anthropology	<i>PHYANTH 19:</i> Body composition	2			25	1	
	305B Physical Anthropology	<i>PHYANTH 20:</i> Physiological anthropology	2			25	1	
<b>CORE COURSES</b> (Compulsory for 3 <sup>rd</sup> Sem. Group B students of Anthropology)	306 Practical	<i>PRPHYANTH 5:</i> Craniometry, Somatometry and Body composition	1		8	50	2	
	307 Practical	<i>PRPHYANTH 6:</i> Dermatoglyphics, Blood Sugar, Hair and Genetics	1		8	50	2	
	308 Continuing Evaluation	Unit I	<i>Class test</i>		1		40	4
		Unit II	<i>Term paper</i>		2		30	
Unit III		<i>Comprehensive viva-voce</i>		1		30		
<b>Total marks and Credits (for all 3<sup>rd</sup> Semester Group B Students)</b>						<b>300</b>	<b>12</b>	

**M. Sc. Anthropology**  
**Semester - IV**  
**(Broad outline)**

**(Group – A: Core and Elective courses in Social Cultural Anthropology for 4<sup>th</sup> Semester)**

	<b>Specialization Papers</b>	<b>Modules</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Mark s</b>	<b>Cred its</b>
<p style="text-align: center;"><b>ELECTIVE COURSES</b></p> <p>(Any four may be opted by a 4<sup>th</sup> Semester student. The choices of elective courses would be subject to availability of infrastructure and resources.)</p>	401A Social Cultural Anthropology	<p><i>SCANTH 29:</i> Basic Concepts of Urban Anthropology</p> <p><i>SCANTH 30:</i> Urbanisation in India</p> <p><i>SCANTH 31:</i> Urbanisation and Industrialisation</p> <p><i>SCANTH 32:</i> Urban Poor</p>	2			25	1
	401B Social Cultural Anthropology	<p><i>SCANTH 33:</i> Globalisation</p> <p><i>SCANTH 34:</i> Human Resource Development in India</p>	2			25	1
	402A Social Cultural Anthropology	<i>SCANTH 35:</i> Tribal Development - I	2			25	1
	402B Social Cultural Anthropology	<i>SCANTH 36:</i> Tribal Development - II	2			25	1
	403A Social Cultural Anthropology	<p><i>SCANTH 37:</i> Demography and Anthropology: Concepts and Theories</p> <p><i>SCANTH 38:</i> Fertility and Mortality</p> <p><i>SCANTH 39:</i> Migration</p>	2			25	1

	403B Social Cultural Anthropology	<p><i>SCANTH 40:</i> Basic Concepts of Human Rights</p> <p><i>SCANTH 41:</i> Contextual Background of Human Rights</p> <p><i>SCANTH 42:</i> Indigenous Rights and Other Issues</p> <p><i>SCANTH 43:</i> Emerging Consequences and Implementations</p>	2	1		25	1	
	404A Social Cultural Anthropology	<i>SCANTH 44:</i> Environment, Development and Culture of Peace – I	2	1		25	1	
	404B Social Cultural Anthropology	<i>SCANTH 45:</i> Environment, Development and Culture of Peace – II	2	1		25	1	
	405A Social Cultural Anthropology	<i>SCANTH 46:</i> Tribal India	2	1			1	
	405B Social Cultural Anthropology	<i>SCANTH 47:</i> Emerging Medical Anthropology	2	1			1	
<b>CORE COURSES</b> (Compulsory for 4 <sup>th</sup> Sem. Group A students of Anthropology)	406 Practical Social Cultural Anthropology	<i>PSCANTH 3:</i> Dissertation	1	1	2-3 weeks field work	100	4	
	407 Continuing Evaluation	Unit I	<i>Class test</i>		1		40	4
		Unit I	<i>Book review</i>		1		30	
		Unit I	<i>Comprehensive viva-voce</i>		1		30	
<b>Total marks and Credits (for all 4<sup>th</sup> Semester Group A Students)</b>						<b>400</b>	<b>16</b>	

**M. Sc. Anthropology**  
**Semester - IV**  
**(Broad outline)**

**(Group – B: Core and Elective courses in Physical Anthropology for 4<sup>th</sup> Semester)**

	Course	Modules	L	T	P	Marks	Credits	
<b>ELECTIVE COURSES</b> (Any three may be opted by a student. The choices of elective courses would be subject to availability of infrastructure and resources.)	401A Physical Anthropology	<i>PHYANTH 21:</i> Demography	3	1		25	1	
	401B Physical Anthropology	<i>PHYANTH 22:</i> Human Auxology	3	1		25	1	
	402A Physical Anthropology	<i>PHYANTH 23:</i> Human Nutrition	3	1		25	1	
	402B Physical Anthropology	<i>PHYANTH 24:</i> Primatology <i>PHYANTH 25:</i> Human Evolution	3	1		25	1	
	403A Physical Anthropology	<i>PHYANTH 26:</i> Forensic Anthropology	3	1		25	1	
	403B Physical Anthropology	<i>PHYANTH 27:</i> Human Ecology and Adaptation <i>PHYANTH 28:</i> Applied Human Genetics	3	1		25	1	
	404A Physical Anthropology	<i>PHYANTH 29:</i> Advanced forensic anthropology	3			25	1	
	404B Physical Anthropology	<i>PHYANTH 30:</i> Palaedemography	3			25	1	
<b>CORE COURSES</b> (Compulsory for 4 <sup>th</sup> Sem. Group B students of Anthropology)	405 Practical	<i>PRPHYANTH 31:</i> Biostatistics	1		4	50	2	
	406 Practical Physical Anthropology	<i>PRPHYANTH 32:</i> Dissertation	1		Field /laboratory study	100	4	
	407 Continuing Evaluation	Unit I	<i>Class test</i>		1		40	4
		Unit II	<i>Book review</i>		1		30	
Unit III		<i>Comprehensive viva-voce</i>		1		30		
<b>Total marks and Credits (for all 4<sup>th</sup> Semester Group B Students)</b>						<b>400</b>	<b>16</b>	

**M. Sc. Anthropology**  
**1<sup>st</sup> Semester**

***COURSE 101A PHYSICAL ANTHROPOLOGY***

**Credit: 1 (Marks= 25)**

**Module PHYANTH 1: The Theories and Concepts of Evolution**

1. Lamarkism; Darwinism -- evidences against and evidences in support; Modern Synthetic theory -- main tenets, criticism.
2. Dollo's rule, Cope's rule, adaptive radiation, extinction.
3. Species concept, Mayr's definition of species, isolating mechanism, speciation.

**Module PHYANTH 2: Osteology**

1. Human skeletal system: function and classification of bones according to size and position; axial skeleton and appendicular skeleton;
2. Bones of the human cranium: frontal, parietal, temporal, occipital bones, and mandible; Norma frontalis and Norma lateralis
3. Post cranial bones: scapula, humerus, femur, tibia
4. Sex differences in skull and pelvis.

**Reading list:**

- Dobzhansky T, Ayala, FJ, Stebbins, GL, Valentine, JW. 1973. *Evolution*. Delhi: Surjeet Publications.
- Hutchinson M, Mallatt J, Marieb EN. 2006. *A Brief Atlas of the Human Body*. Delhi: Pearson Education.
- Mayr. E. 1999. *Systematics and the Origin of Species*. Harvard: Harvard University Press.
- Nelson H, Jurmain R. 1985. *Introduction to Physical Anthropology*. San Francisco: West Publishing Company.
- Poddar S, Bhagat A. 1987. *Handbook of Osteology*. Patna: Scientific Book Co.
- Ridley M. 1993. *Evolution*. Boston: Blackwell Scientific Publications.
- Stebbins, GL. 1971. *Processes of Evolution*. Englewood Cliffs: Prentice-Hall Inc.
- Strickberger, MW. 1990. *Evolution*. London: Jones and Bartlett Publishers.

***COURSE 101B PHYSICAL ANTHROPOLOGY***

**Credit: 1 (Marks= 25)**

**Module PHYANTH 3: Primatology**

1. Definition and classification of primates (classical: Simpson; modern: Szalay and Delson)
2. Primate distribution, evolutionary trends; arboreal adaptation, locomotion.
3. Primates grades: Prosimians, New world monkeys, Old world monkeys and Pongids

**Module PHYANTH 4: Primate and Hominoid Evolution**

1. Fossil primates: Apidium, Aegyptopithecus, Propliopithecus; Pongid-hominid split
2. Miocene environment; Dryopithecus, Proconsul, Ramapithecus, Sivapithecus: distribution, general features, phylogenetic position.

**Reading list:**

- Conroy GC. 1990. *Primate Evolution*. New York. Norton.

- Delson. E, Tattersall I, Couvering JV (eds.) 2000. *Encyclopedia of Human Evolution and Prehistory*. New York: Taylor and Francis.
- Jones S, Martin R, Pilbeam D (eds.) 1992. *The Cambridge Encyclopedia of Human Evolution*. Cambridge: Cambridge University Press.
- Ember CR, Ember M. Peregrine PN. 2006. *Anthropology*. Delhi: Pearson Education.
- Jurmain R, Nelson H, Kilgore L, Trevathan W. Introduction to Physical Anthropology. 1999. Belmont: Wadsworth.
- Nelson H, Jurmain R. 1985. *Introduction to Physical Anthropology*. San Francisco: West Publishing Company.
- Peregrine PN, Ember CR, Ember M. (eds.) 2002. *Physical Anthropology: Original Readings in Method and Practice*. New Jersey: Prentice-Hall.

**COURSE 102A: PREHISTORIC ARCHAEOLOGY**

**Credit: 1 (Marks= 25)**

**Module ARANTH 1: Concept of Archaeological Anthropology**

1. Definition, aim and scope of Palaeoanthropology; Relationship with other disciplines and other branches of anthropology;
2. Concepts: Environmental archaeology, Ethno archaeology and New Archaeology.
3. Fossils and taphonomy.

**Module ARANTH 2: Palaeoenvironment**

- 1 Prehistoric environment, Geological framework, climatic changes during Quaternary period
- 2 Climatic, Geomorphic, Faunal and Floral changes
- 3 Pleistocene stratigraphy and geo-morphological evidences for reconstruction of palaeo-environment and chronological framework of prehistoric culture
- 4 Glacial and interglacial periods; Features, Causes and evidences of Ice ages
- 5 Features of Pluvial and interpluvial periods

**Module ARANTH 3: Dating and Chronology**

- 1 A brief idea about concepts and types of dating differences between Absolute and Relative methods of dating
- 2 Relative dating- Stratigraphy, Palynology, Typo-technology, fluorine test
- 3 Numerical or Absolute dating- Radio-carbon, Potassium-Argon, Thermoluminescence, Dendrochronology, Amino-Acid Recimization, Archaeomagnetism, Fission-Track, Uranium series
- 4 Cultural chronology-Three age system: Stone Age, Copper- Bronze Age, Iron Age

**Reading List:**

- Agarwal DP and Kusumgar Sheela 1974. *Prehistoric Chronology and Radiocarbon dating*, Delhi: Munshiram Manoharlal
- Bhattacharya D.K. 1972. *Prehistoric archaeology: A comparative study of human succession*. Delhi: Hindusthan Publishing Corporation.
- Butzer Karl W 1971. *Environment and Archaeology: An Ecological Approach to Prehistory*. Chicago: Aldine- Atherton.
- Ember Carol R, Ember Melvin and Peregrine Peter N. 2002. *Anthropology* Delhi: Pearson Education.
- Haviland WA 1997. *Human Evolution and Prehistory 4<sup>th</sup> edition*. Fort Worth: Harcourt Brace College Publications.

Hole Frank and Heizer Robert 1973. *An Introduction to Prehistoric Archeology 3<sup>rd</sup> edition*. New York: Holt Rinehart and Winston Inc.

Isaac Glynn 1997. *Plio-Pleistocene Archaeology*. Oxford: Clarendon Press.

Nelson H and Jurmain R. 1991. *Introduction to Physical Anthropology 5<sup>th</sup> edition*. New York: West Publishing Co.

Sen D and Ghosh A.K. 1966. *Studies in Prehistory*. Calcutta: Firma KLM.

#### **COURSE 102B: PREHISTORIC ARCHAEOLOGY**

**Credit: 1 (Marks= 25)**

#### **Module ARANTH 4: Tool Technology and Typology**

- 1 Basic concepts: Core tool, Flake tool, Bulb of Percussion, Primary flaking, Secondary flaking, Striking Platform etc.
- 2 Tool making techniques: Block-on-block, Block-on-envil, Cylinder hammer and hollow hammer technique, Fluting technique, Blunting technique, Pressure flaking technique, Grinding and Polishing technique etc.
- 3 Tool typology: Stone Tools:- Rostro-Carinate, Proto-Handaxe, Handaxe, Chopper, Cleaver, Tortoise Core, Scraper, Points, Blades, Knife blades, Burin, Microliths, Celts, Shoulder Celt, Ring Stone etc. Bone Tools:- Arrow straightner (Batton –de-commadement), fish hooks, harpoon heads, Bone lence points, Spear througher etc.

#### **Module ARANTH 5: Lithic Cultures of Europe**

1. Different Sub-divisions, Type Station, Major Cultural features, Man responsible, tool typology, Distribution, Glacial age and Geological age
2. Lower Palaeolithic cultural stages:- Pre- chellean, Chellean or Abbevillian, Clactonian, Acheulian and Levalloisian
3. Middle Palaeolithic Culture:- Characteristic features and distribution of Middle Palaeolithic Culture of Europe (Mousterian Culture); technological and Economic implication of evolution of flake tools
4. Upper Palaeolithic Cultural Stages: Perigordian, Aurignacian, Solutrean, Magdalenian, Study on Upper Palaeolithic Art
5. Mesolithic Culture of Europe: Comparative study on different sites and ages distributed over western and northern Europe.

#### **Module ARANTH 6: The Neolithic Revolution**

1. Nature, Character, Distribution, Environment, Economy, Tool technology and typology, Pottery Making Technique etc.
2. The Natufian Culture.

#### **Reading List:**

Bhattacharya D. K. 1977 *Palaeolithic Europe*, Humanities Press Inc. USA

Burkitt M.C. 1925 *Prehistory*, Cambridge: Cambridge University Press.

Burkitt M.C. 1963 *The Old Stone Age*, Cambridge: Cambridge University Press.

C. Gamble 1999 *The Palaeolithic Societies of Europe*, Cambridge: Cambridge University Press.

Childe V.G. 1951 *Man Makes Himself*, New York: New American Library.

Ember Carol R, Ember Melvin and Peregrine Peter N. 2002. *Anthropology 10<sup>th</sup> edition*. Delhi: Pearson Education.

Gosden Chris 2003 *Prehistory*, Oxford : Oxford University Press.

Oakley, Kenneth, Page 1956. *Man the Tool-Maker*. Natural History Museum: London.



Yosef-Bar O. and F. Valla 1990 The Natufian Culture and the Origin of the Neolithic in the Levant, *Journal, Department of Anthropology, Harvard University*, Vol.31, Number-4.

**COURSE I03A: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 1: Society and Culture**

1. Society: (a) Society- concepts, components, and types functions; Social groups- primary, secondary and quasi groups and functions. (b) Community- features and types; (c) Association-features and types.
2. Social institutions: (a) Mores and folkway; (b) Norms and values; (c) Social sanctions.
3. Culture: (a) Meaning/concepts and definition of culture, components, aspects, traits, complexes, pattern, value, characteristics /attributes and nature of culture. (b) Relation among culture, language and society. Language - vehicle of culture. (c) Theories of cultural evolution; and (d) theories of cultural diffusion; (e) Acculturation theory/ culture contact, etc.

**Reading List:**

- Boas, F. 1911. *Mind of Primitive Man*. New York: Macmillan.
- Boas, F. 1928. *Anthropology and Modern Life*. New York: W.W. Norton and Co.
- Boas, F. 1940. *Race, Language and Culture*. New York: MacMillan and Company.
- Bose, N.K. 1961. *Cultural Anthropology*, Bombay: Asia Publishing House.
- Bose, N.K. 1961. *Cultural and Society in India*. Bombay: Asia Publishing House.
- Bose, N.K. 1929. *Cultural Anthropology*, Bombay: Asia Publishing House.
- Davis, K. 2002: *Human Society*, Delhi: Surjeet Publications
- Evans-Pritchard, E.E. 1951. *Social Anthropology*. . New York: Free Press.
- Firth, R. 1921 Firth, R. 1971: *Elements of Social Organization*. London: Tavistock Publications.
- Haddon, A.C. 1908. *The study of Man*. London: J. Murray.
- Haddon, A.C. 1934. *History of Anthropology*. London: Warrs.
- Hobell, E.A. 1949. *Man in the Primitive World*. New York: McGraw-Hill Book Company.
- Kroeber, A. 1923. *Anthropology*. New York: Harcourt, Brace.
- Herskovits, M.J. 1958: *Cultural Anthropology*. Calcutta : Oxford & IBH Publishing Co.
- Kroeber, A.L. (et al.). 1953: *Anthropology Today*. Chicago, University Chicago Press.
- MacIver, R.M. and C.H. Page, 1974, *Society*, Delhi, Macmillan India Ltd.
- Malinowski, B. 1944: *A Scientific Theory of Culture*. New York.
- Nadel, S.F. 1951. *The foundation of Social Anthropology*. New York: Free Press.
- Radcliffe- Brown, A.R. 1958. *Methods in Social Anthropology*. Chicago: University of Chicago Press.
- Redcliffe-Brown, A.R. 1776. *Structure and function in Primitive Societies*. London: Routledge and Kegan Paul.
- Sarma, Gopala. 1983. *Sociology and Anthropology and other Essays*. Calcutta: Institute of Social Research & Applied Anthropology.
- Tylor. E.B. 1881. *An introduction to the Study of Man and Civilization*. New York: D. Appleton.
- Upadhyay, V.S. and Pandey , G. 1993. *History of Anthropological Thought*. Concept Publishing Company, New Delhi.
- Vidyanthi, L.P. 1977. *Rise of Anthropology in India (2 volumes)*. New Delhi: Concept Publishing

**Module SCANTH 2: Social Structure and Organization (Family, Marriage and Kinship)**

1. Social Structure and Organization: Concepts and meanings. Traditional social structure of the Indian tribes.
2. Family as a Social Institution: (a) Origin and development, (b) Family formation, (c) Types and forms of family, (d) Change in family structure and function.
3. Marriage: (a) Marriage rules-incest, taboo, endogamy, exogamy, preferential marriages, alliance and exchange marriage, dowry and bride price, etc., (c) Marriage and legitimacy, (d) Institution of marriage and contemporary change.
4. Kinship: (a) Importance of kinship organization, (b) aspects of kinship system (consanguine, affinal; kin-group: tribe, class, moiety, phratry, etc.), descent and rules of inheritance, (c) types of kinship system (classificatory and descriptive, terms of reference and address), (d) Kinship behaviour: joking and avoidance relationship, (e) recent development in kinship studies, (f) features of kinship system in India and the change.

**Reading List:**

- Ahuja, Ram. 1999. *Society in India*. Jaipur: Rawat Publ.
- Biswas, S.K. 2007. The Chuniya: A Little Known Community, *Bulletin of the Cultural Research Institute*, XXIII (1): 28-33.
- Biswas, S.K. 2012. *The Drukpas of West Bengal, India*, *Bulletin of the Cultural Research Institute*, XXIV (1&2): 50-56.
- Biswas, S.K. 2014. *Ethical Issues of Anthropology with Special Reference to Field-Work*, in S. Biswas (ed.) *Ethical Issues in Anthropological Research*, 65-76. Concept Publishing Company Pvt. Ltd, New Delhi [ISBN-13:978-93-5125-090-6].
- Biswas, S.K. and S. Bhattacharjee, 2008. The Totos In transition, in R.M.Sarkar (ed.) *Primitive Tribal Groups in India: Tradition, Development and Transformation*, 200-218. Serials Publications, New Delhi. [ISBN: 978- 81-8387-186-0].
- Boas, F. 1911. *Mind of Primitive Man*. New York: Macmillan.
- Bose, N.K. 1961. *Cultural Anthropology*, Bombay: Asia Publishing House.
- Bose, N.K. 1961. *Culture and Society in India*. Bombay: Asia Publishing House.
- Durkheim, E.1897. *The Elementary Forms of Religious Life*. London: Allen and Unwin.
- Dube, Leela. 1974: *Sociology of Kinship: An analytical survey of literature*.
- Evans-Pritchard, E.E. 1951. *Social Anthropology*. . New York: Free Press.
- Firth,R. 1921. *Primitive Economics of the New Zeland Maori*. London:George Routledge.
- Fortes, M. 1949. *The Web of Kinship among the Tallensy*. London: Oxford University.
- Harris, M. 1968. *Rise of Anthropological Theory*. New York.
- Hoebel, E.A. 1954. *Man in the Primitive World*. Harvard: University Press.
- Honigmann, J.J. (ed.): *Hand Book of Social and Cultural Anthropology*; Chicago: Rand McNally and Company,
- Kroebar, A. 1923. *Anthropology*. New York: Harcourt, Brace.
- Leach, E. 1954. *Political Systems of Highland Burma*. Bioston: Beacon Press.
- Lowie, R..H. 1949. *Primitive Society*, London:Routledge and Krgan Paul
- Murdock, G.P. 1949. *Social Structure*. New York..
- Radcliffe-Brown, A.R.: *Structure and Function in Primitive society*.
- Radcliffe- Brown, A.R. 1922. *The Andaman Islanders*. Cambridge:Cambridge University press.
- Radcliffe- Brown, A.R. 1958. *Methods in Social Anthropology*, Chicago: University of Chicago

Press.  
Rivers, W.H.R. 1949. *Kinship an Social Organization*. London: Constable.  
Srinivas, M.N. 1942. *Marriage and Family in Mysore*. Bombay: Asia Publishing House.  
Westermarck, E. 1891. *The History of Human Marriage*. New York: Macmillan.

**COURSE 104A RESEARCH METHODOLOGY**

**Credit: 1 (Marks= 25)**

**Module RMANTH 1: Methods in Human Genetics**

1. Twin method: biology of twinning, diagnosis of zygoty, heritability
2. Pedigree method

**Module RMANTH 2: Statistics**

1. Introduction to statistics: use of statistics in Anthropology
2. Theory, hypothesis, validity and reliability, variables
3. Measure of central tendency: mean, median and mode
4. Measure of dispersion: range, mean deviation and standard deviation.

**Module RMANTH 3: Methods in Prehistoric Archaeology**

1. Exploration and excavation
2. Surface collection
3. Classification and field documentation.

**Reading List:**

Barua Saumitra 2002. *Human Genetics: An Anthropological Perspective*. Kolkata: Classique Books.  
Ember Carol R, Ember Melvin and Peregrine Peter N. 2002. *Anthropology*. Delhi: Pearson Education.  
Frank Harry and Althoen Steven C 1997. *Statistics: Concepts and Applications*. Cambridge: Cambridge University Press.  
Hole Frank and Heizer Robert 1973. *An Introduction to Prehistoric Archeology* New York: Holt Rinehart and Winston Inc.  
Kothari C K 2000. *Research Methodology: Methods and Techniques*. New Delhi: Vishwa Prakashan.  
Lewis Richi 2003. *Human Genetics: Concepts and Applications* Boston: WCB McGraw Hill.  
Madrigal Lorena 1998. *Statistics for Anthropology*. Cambridge: Cambridge University Press.  
Stern Curt 1973. *Principles of Human Genetics 3<sup>rd</sup> edition*. San Fransisco: WH Freeman.

**COURSE 104 B: RESEARCH METHODOLOGY**

**Credit: 1 (Marks= 25)**

**Module RMANTH 4: Historical Background and Conceptual Frame Work**

1. Field work traditions in Anthropology
2. Theories, facts and their relations
3. Comparison, generalization and interpretation
4. Research design, Objectives and Hypothesis formulation

### **Module RMANTH 5: Tools, Techniques and Methods of Data Collection**

1. Conventional: Schedules, Questionnaires, Observation, Participant Observation, Interview, key Informant Interview, Genealogy, Case Study, Cross Cultural Comparison, Controlled Comparison and Mapping
2. Contemporary: Group Discussion, Focus Group Discussion (FGD), Participatory Rural Appraisal (PRA), Rapid Rural Appraisal (RRA)

### **Module RMANTH 6: Approaches of Research in Social Sciences**

1. 1. Micro and macro, Qualitative and quantitative, etic and emic, synchronic and diachronic, ideographic and nomothetic
2. Positivist and interpretative, Descriptive and analytical
3. Basic, applied, action and participatory
4. Exploratory, diagnostic and evaluative

### **Reading List:**

Coehran, W.G. 1953: *Sampling techniques*, New York, John Wiley & Sons.

Epstein, A.L. (ed.) 1967: *The Craft of Social Anthropology*, London: Partel Tavistock Publication,

Evans-Pritchard, E.E. 1951: *Social Anthropology*. London: Cohen and West

Goode, W.J. and Hatt, P. 1952: *Methods in Social Research*, New York: McGraw Hill.

Pelto Perti, J. Pelto, Getel, H.: *Anthropological Research: The Structure of Inquiry*.

Radcliffe-Brown, A.R. 1958: *Methods in Social Anthropology* (ed. By M.N. Srinivas); Bombay: Asia Publishing House.

Sinha, S.C. (ed.) 1978: *Field studies on the people of India*; Calcutta: Indian Anthropological Society.

Young, P.V. 1966: *Scientific Social Surveys and Research*, New Delhi: Prentice Hall of India Pvt. Ltd.

**COURSE 105: PRACTICAL**

**Credit: 4 (Marks= 100)**

**COURSE 105 /UNIT- I: PRACTICAL**

**(Marks= 50)**

### **Module PRPHYANTH 1: Osteology and Osteometry**

1. Identification of bones including side determination: frontal, parietal, temporal, occipital, mandible, scapula, humerus, femur, tibia
2. Sex identification in pelvis.
3. Scapula: maximum length, maximum breadth, length and breadth of glenoid fossa; Humerus: maximum length, maximum diameter in middle; minimum diameter, girth in mid-shaft; Femur: maximum length, sagittal diameter of mid-shaft, transverse diameter of mid-shaft, girth of mid-shaft.

### **Module PRPHYANTH 2: Craniometry**

1. Craniometric measurements - definitions, landmarks and instruments.
2. Linear measurements: maximum cranial length, maximum cranial breadth, least frontal breadth, glabella-inion length, nasion-inion length, bi-mastoid breadth, frontal arc, parietal arc, occipital arc, bizygomatic breadth, morphological superior facial height, nasal length, nasal breadth, palatal length, palatal breadth

3. Angular measurements using craniophore: metopic angle, alveolar profile angle, facial profile angle, nasal profile angle

### **Module PRPHYANTH 3: Somatometry and Somatoscopy**

1. Somatometric measurements - definition, landmarks and instruments
2. Linear measurements: maximum head length, maximum head breadth, least frontal breadth, bizygomatic breadth, bigonial breadth, nasal length, nasal breadth, nasal height, physiognomic facial height, physiognomic upper facial height, morphological facial height, morphological upper facial height, head circumference.
3. Somatometric indices: definition, measurements and classification: cephalic index, nasal index, morphological facial index, jugo-mandibular index
4. Somatoscopic observation: skin colour ---- exposed, unexposed; hair ---- colour, form, quantity, texture, whorl (number, type); eye ---- colour, opening, direction, epicanthic fold; nose ---- depression of root, height of tip, flare of wing.

#### **Reading List:**

- Singh Indra P and Bhasin MK 2004. *A Manual of Physical Anthropology*. Delhi: Kamla-Raj Enterprises.
- Weiner JS and Laurie JA 1969. *Practical Human Biology*. Oxford: Blackwell Scientific Publications.

#### **COURSE 105 /UNIT- II: PRACTICAL**

**(Marks= 30)**

### **Module PARANTH 1: Drawing, Description and Identification of Prehistoric Tools**

1. Identification of tools and artifacts of Palaeolithic, Mesolithic and Neolithic Periods.
2. Drawing and description of tools and artifacts of the same periods stated above. Two major categories of tools have to draw along with labeling of different significant portions. In case of stone tools candidates will be instructed to draw dorsal and ventral view along with cross-sectional view of each tool.
3. Laboratory Note book and Viva-voce.

List of the tools to be identified and drawn are given below:-

Stone Tools: Handaxe, Cleaver, Chopper, Scraper, Blade, Microliths, Celt and Shoulder Celt, Ring Stone etc.

Bone Tools and Artifacts: lance Point, Arrow Head, Harpoon, Baton-de-commandement, and Spear Thrower etc.

#### **COURSE 105/ UNIT- III: PRACTICAL**

**(Marks= 20)**

### **Module PSCANTH 1: Material Culture (Drawing, description and identification)**

1. Identification, drawing and description of different objects of materials culture used by various communities.
2. Laboratory Note book and Viva-voce.

***COURSE 106: CONTINUING EVALUATION***

**Credits: 4 (Marks= 100)**

***COURSE 106/UNIT- I CONTINUING EVALUATION***

**(Full marks: 40)**

1. Class test.

***COURSE 106 / UNIT –II CONTINUING EVALUATION***

**(Full marks: 30)**

1. Group discussion.

***COURSE 106 / UNIT – III: CONTINUING EVALUATION***

**(Full marks: 30)**

1. Comprehensive *viva-voce*.

**M. Sc. Anthropology**  
**2<sup>nd</sup> Semester**

**COURSE 201A PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 5: Human Genetics**

1. Human chromosomes: non-disjunction; classification; chromosome variation in number and structure: euploidy, polyploidy, mosaics; deletion, duplication, inversion, translocation; syndromes; banding
2. Mutation and its types; point mutation in man, Natural selection in man, penetrance and expressivity
3. Simple Mendelian inheritance in Man ---- Autosomal (dominant, recessive), Sex-linked (X linked- dominant, recessive, Y linked), Co-dominant inheritance
4. Polygenic inheritance, heritability
5. Genetics of ABO and Rh(D) blood groups ---- genetics, inheritance and incompatible mating.
6. Practical application of human genetics ---- eugenics, genetic counseling, genetic screening, ethical and social implications.

**Reading List:**

- Barua Saumitra 2002. *Human Genetics: An Anthropological Perspective*. Kolkata: Classique Books.
- Gardner Eldon John, Simmons Michale J and Snustad D Peter 1991. *Principles of Genetics*. New York: John Willey & Sons.
- Harper, P. S. 1998, *Practical Genetic Counseling*, Oxford: Butter worth Heinemann.
- Klug WS and Cummings MR 1999. *Essentials of Genetics* New Jersey: Prentice Hall.
- Lewis Richi 2003. *Human Genetics: Concepts and Applications* Boston: WCB McGraw Hill.
- Rothwell, N. V., 1978, *Human Genetics*, New Delhi: Prentice Hall Pvt. Ltd.
- Thompson, J. S. and Thompson, M. W. 1968, *Genetics in Medicine*, Philadelphia: W. B. Saunders.
- Vogel, F. and Motulsky, A. G., 1986, *Human Genetics: Problems and Approaches*, Berlin: Springer Verlag.

**COURSE 201B PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 6: Human Variation**

1. Concept of race: historical development, typological, population and biological concepts; race statements; racism.
2. Geographical, local and micro races
3. Criteria for human classification; hair, head form, dermatoglyphics, ABO blood group
4. Distribution and characteristics of three primary races of mankind: Caucasoid, Negroid, Mongoloid.

**Module PHYANTH 7: Human Auxology and Nutrition**

1. Definition and concept of growth, maturation and development,
2. Methods of growth study: cross sectional, longitudinal, mixed longitudinal- merits and demerits.
3. Malnutrition, under-nutrition, obesity; causes

#### 4. Roles of vitamin and minerals in human nutrition

##### **Reading List:**

- Barua Saumitra 2002. *Human Genetics: An Anthropological Perspective*. Kolkata: Classique Books.
- Bogin Barry 1999. *Patterns of Human Growth*. Cambridge: Cambridge University Press.
- Chatterjee, C.C. 1997, *Human Physiology*, Calcutta; Medical Allied Agency
- Relethford JH 2002. *The Human Species: An Introduction to Physical Anthropology*. Boston: McGraw Hill.
- Singh IP and Bhasin MK 2004. *A Manual of Physical Anthropology*. New Delhi: Kamla-Raj Ent.
- Tanner JM 1990. *Foetus into Man: Physical Growth from Conception to Maturity*. Harvard: Harvard University Press.
- Vogel, F. and Motulsky, A. G., 1986, *Human Genetics: Problems and Approaches*, Berlin: Springer Verlag.
- Wardlaw GM, Insel PM. 1996. *Perspectives in Nutrition*. Boston: Mosby

#### **COURSE 202 A: PALAEOANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

##### **Module PHYANTH 8: Human Evolution**

1. Australopithecus: distribution, species, main feature, phylogenetic position
2. Homo habilis: distribution, general features and phylogenetic position
3. Homo erectus: species, distribution, general features and phylogenetic position
4. Homo sapiens neanderthalensis: distribution, general features and phylogenetic position, Neanderthal problem
5. Anatomically modern humans: distribution, general features and phylogenetic position.

##### **Module PHYANTH 9: Biocultural Process**

1. Definition, man's capacity for culture.
2. Homo erectus: bifid technology, hominid colonization, use of fire.
3. Homo sapiens neanderthalensis: Mousterian; first burials and rituals.
4. Homo sapiens: blade tool technology, use of bone and antler, development of art.

##### **Reading List:**

- Conroy GC. 1990. *Primate Evolution*. New York: Norton.
- Delson. E, Tattersall I, Couvring JV (eds.) 2000. *Encyclopedia of Human Evolution and Prehistory*. New York: Taylor and Francis.
- Ember CR, Ember M. Peregrine PN. 2006. *Anthropology*. Delhi: Pearson Education.
- Jurmain R, Nelson H, Kilgore L, Trevathan W. *Introduction to Physical Anthropology*. 1999. Belmont: Wadsworth.
- Leakey R. 1994. *The Origin of Humankind*. New York: Basic Books.
- Nelson H, Jurmain R. 1985. *Introduction to Physical Anthropology*. San Francisco: West Publishing Company.
- Peregrine PN, Ember CR, Ember M. (eds.) 2002. *Physical Anthropology: Original Readings in Method and Practice*. New Jersey: Prentice-Hall.
- Tobias, PV. 1969. *The Brain in Hominid Evolution*. New York: Columbia University Press.



**Module ARANTH 7: Prehistoric Cultures of Africa**

1. The geo-climatic background: The pluvial periods, Chronological classifications of different cultural periods.
2. East Africa: a) The earliest Pleistocene cultural level: Kafuan Stages. b) The middle Pleistocene cultural level: The oldowan and Olduvai Gorge deposits. c) Upper Pleistocene cultural level: Kenya proto- Stillbay and Kenya stillbay, Kenyacapsian.
3. South Africa: a) Old Stone Age: Pre-Stellenbosch stage and Stellenbosch stages. b) Middle Stone Age: Sangoan, Proto-stillbay and Stillbay. c) Late Stone Age: Wilton and Mangosian and Smith field culture.

**Module ARANTH 8: Indian Prehistory**

1. The geo-climatic background: The three strata in India, The ice age in India, Quaternary sub-divisions in India, Chronological classifications of different cultures.
2. The Palaeolithic cultural Phases: a) Lower palaeolithic culture: North-west India, Southern India and South- central Indian sites (Sohan valley, Attirumpukkom and Vadamadurai, Nevasa). b) Middle palaeolithic culture: Sites of Central and southern India (Nevasa) c) Upper palaeolithic culture: Western, southern and eastern India sites.
3. The Mesolithic Culture: a) The successive stages b) Southern and Eastern Indian sites.
4. The Neolithic Culture: a) Western, Southern, Central and Eastern Indian sites. b) The Megalithic Monuments: Dolman, Passage Grave, Stone Kist, Menhir etc.
5. The Chalcolithic period: Indus Valley Civilisation: Basic Characteristic features, Town planning, Trade and Commerce, Religion, Reasons for Declination.

**Reading List:**

- Allechin B. 1982 *The Rise of Civilization in India and Pakistan*, Cambridge: Cambridge University Press,
- Allechin B. and R. Allchin 1982 *The Birth of Indian Civilization*, Penguin Books, New Delhi
- Bhattacharyya D. K. 1989 *An Outline of Indian Prehistory*, Delhi: Palaka Prakashan.
- Bhattacharyya, M. 1987. Stages of Prehistoric Culture in Rarh Bengal (A Recent Exploration). In: Brijia Mohana Pande and B. D. Chattopadhyaya (eds.), *Archaeology and History: Essays in Memory of A. Ghosh*, Vol. I. pp. 47-52. New Delhi.
- Dani, A.H. 1960. *Prehistory and Protohistory of Ancient India*, Calcutta: Firma.
- David W. Phillipson 1993 *African Archaeology*, Cambridge, Cambridge University Press
- Hay, R.L. 1963. Stratigraphy of Beds I through IV Olduvai Gorge, Tanganyika, *Science* 139: 829-33
- Jayaswal V. 1978. *Palaeohistory of India*, New Delhi: Archaeological Survey of India.
- J. D. Clark 1970 *The Prehistory of Africa* New York: Praeger
- Mary Leakey 1971 *Olduvai Gorge: Excavations in Bed-I and II*, Cambridge, Cambridge University Press
- Mitra P. 1979. *Prehistoric India*, Varanasi: Bharatiya Publishing House.
- Ray, Ranjana 1985. The Blade Bladelets Industry of India. In: V.N. Misra and P.S. Bellwood (eds.), *Recent Advances in Indo Pacific Prehistory*, pp. 123-128. Oxford, IBH: New Delhi.
- Sankalia, H.D. 1962. *Prehistory and Protohistory of India and Pakistan*, Bombay: University of Bombay
- Sankalia, H.D. 1975. *Prehistory of India*, New Delhi: Munshirum Monoharlal.

**Module SCANTH 3: Economic Organisation, Political Organisation and Social Stratification**

1. Economic Organizations: Economic aspects of social relation. Characteristic features of primitive economy. Division of labour. System of production, technology, exchange, distribution, consumption. Concept of property and inheritance. Economic organisation in hunting- gathering and pastoral communities.
2. Political organization: Traditional political organization of the tribes; Social control; Primitive and modern political system. Patterns of political organization, customs law and social sanction.
3. Nature and function of social stratification.

**Reading List**

- Belshaw, C. 1975. *Traditional exchange and modern markets*. New Jersey: Prentice Hall
- Biswas, S.K. 2004. 'Samataler Rabha: Samaj O Sanskriti Paribartaner Prekshapat' (in Bengali) in Goutam Roy (ed.), 'Uttar Banger Janajati O Luptopray Lokosanskriti', 120-136. Baitanik Patrika Goshthi, Siliguri.
- Biswas, S.K. 2007. The Chuniya: A Little Known Community, *Bulletin of the Cultural Research Institute*, XXIII (1): 28-33.
- Biswas, S.K. 2012. *The Drukpas of West Bengal, India*, *Bulletin of the Cultural Research Institute*, XXIV (1&2): 50-56.
- Biswas, S.K. and S. Bhattacharjee, 2007. The Rajbansi Stone Crushers of Balasan River Bed, Siliguri, West Bengal, *Journal of the Indian Anthropological Society*, 42(2): 165-175.
- Bose, N.K. 1961. *Cultural and Society in India*. Bombay: Asia Publishing House.
- Bose, N.K. 1961. *Cultural Anthropology*, Bombay: Asia Publishing House.
- Danda, A. K. 1971. *Tribal economy in India*. New Delhi: Inter India Publication.
- Dube, S.C. 1990 (2<sup>nd</sup> Ed. 1992). *Indian Society*. India: National Book Trust.
- Durkheim, E.1893. *Division of Labour in Society*. New York: Macmillan.
- Evans-Pritchard, E.E. 1951. *Social Anthropology*. . New York: Free Press.
- Evans-Pritchard, E.E. 1972. *Social Anthropology*. London: Routledge & Kegan Paul Ltd.
- Firth,R. 1921.*Primitive Economics of the New Zeland Maori*. London: George Routledge.
- Harris, M. 1979. *Rise of Anthropological theories*; London, Routledge & Kegan paul.
- Haviland, A.W.1996. *Cultural Anthropology*. New York: Harcourt Brace College Publishers.
- Honigman, J.J. 1973. *Handbook of Social and Cultural Anthropology*. Chicago: Rand McNally and Co.,
- Jha, M. 1983. *An Introduction to Anthropological Thought*. New Delhi: Vikas Publishing House,
- Leach, E. 1954. *Political Systems of Highland Burma*. Bioston: Beacon Press.
- Lowie, R..H. 1949. *Primitive Society*, London:Routledge and Krgan Paul
- Lowie, R.H. 1920. *Primitive Society*. New York: Farrer & Rinehart.
- Lowie, R.H.1950. *Social Organization*. London, Routledge and Kegan Paul.
- Malinowski, B. 1926. *Crime and Custom in Savage Society*. London: Keganpal.
- Malinowski, B. 1980. *A Scientific Theory of Culture and other Essays*; New York:: Oxford University Press.
- Nash, M. 1974. *Primitive and peasant Economic systems*. San Francisco: Chander Pub. Parsons
- Sharma, K.L. (ed.). 1986: *Social Stratification in India* Delhi: Monohar.
- Sharma, K.L. 1974: *The Changing Rural Stratification System*, New Delhi: Orient Longman

Singh, K.S. (ed.) 1982. *Economics of Tribes and their transformation*. New Delhi: Concept.  
 Singh, Yogendra. 1977: *Social Stratification and Change in India*, New Delhi: Monohar.  
 Srinivas M. N. 1962 *Caste in Modern India and other Essays*, Bombay: Asia Publishing House  
 Srinivas M. N. 1966 *Social Change in Modern India*, California: University of California Press  
 Srinivas, M.N. 1986: *India: Social Structure*. Delhi: Hindustan.

**COURSE 203B: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 4: Religion and Magic, Socialization, Personality Formation and Civilization**

1. Religion and Magic: Meaning and definition of religion. Anthropological approaches to the study of Religion. Theories of origin of religion. Function of religion. Forms of religion: Animism, animatism, fetishism, *manaism*, *bongaism*, naturism, *totemism*. Occultism and magical practices: Magic and witch-craft; magico-religious specialists; symbolism in religion. Religion and rituals. Religion, magic and science.
2. Socialization and enculturation – concepts and process. Culture and personality: meaning, concepts, formation processes and determinants of personality. Concepts/views of Ruth Fulton Benedict, Margaret Mead, Ralph Linton, Abram Kardinar, Cora-du-Bois on culture and personality, etc.
3. Culture and civilization: Concept, meaning and definition of civilization.
4. Concepts and views of various anthropologists and sociologists on civilization. Relation and differences between culture and civilization.

**Reading List**

Benedict, R. 1934. *Patterns of Culture*. New York: Houghton Mifflin.  
 Biswas, S.K. 2007. Child Worker- Poverty and Hunger: A Study Among the Stone Crushers of Balasan River Bed, *Indian Journal of Human Rights and Justice*, 2(1-2): 25-37.  
 Biswas, S.K. and B. Gan, 2008. Socio-Cultural Factors for Child Survival: A Study on the Resettled Rajbansis of Darjeeling District, *Bulletin of the Department of Anthropology Dibrugarh University*, 36: 43-58.  
 Biswas, S.K. and B. Gan, 2011. Child Abuse in An Unorganised Sector: A Case Study, *Indian Journal of Human Rights and Justice*, 2011, 7(1-2): 27-34, (Referred Journal.) [ISSN 0973-6271].  
 Boas, F. 1940. *Race, Language and Culture*. New York: MacMillan and Company.  
 Bose N. K. 1975 *The Structure of Hindu Society*, New Delhi : Orient Longman Limited.  
 Durkheim, E.1897. *The Elementary Forms of Religious Life*. London: Allen and Unwin.  
 Ember, C.R., M. Ember and P.N. Pergine 2002. Anthropology. Delhi:Pearson Education Asia.  
 Evans-Pritchard, E.E. 1951. *Social Anthropology*. . New York: Free Press.  
 Frajer, J.C. 1887. *Totemism*. Edinburgh: Adams & Charles.  
 Frajer, J.C. 1911-1915. *The Golden Bough*, 3<sup>rd</sup> Edition. London: Macmillan.  
 Harris, M. 1979. *Rise of Anthropological theories*; London, Routledge & Kegan paul.  
 Haviland, A.W.1996. *Cultural Anthropology*. New York: Harcourt Brace College Publishers.  
 Hobel, E.A. 1949. *Man in the Primitive World*. NewYoork: McGrow-HillBook Company.  
 Honigman, J.J. 1973. *Handbook of Social and Cultural Anthropology*. Chicago: Rand McNally  
 Jha, M. 1983. *An Introduction to Anthropological Thought*. New Delhi: Vikas Publishing House,  
 Jullian Steward. *Theory of culture change*. London: Hartcourt Brace College Pub.

- Kroeber A. 1957 *Style and Civilisation*, Ithaca: Cornell University Kuper. A. 1973. *Anthropologists and Anthropology*. London: Allen Lane.
- Leach, E.R. 1961: *Rethinking Anthropology*; London: Anthony Press.
- Levi-Strauss, C. 1963 (b). *Totemism*. Boston: Beacon Press.
- Lewis, Oscar. 1966 (a). *The Culture of Poverty*. Scientific American.
- Linton, R. 1945. *The Cultural Background of Personality*. New York: Appleton.
- Lowie, R..H. 1949. *Primitive Society*, London:Routledge and Krgan Paul
- Lowie, R.H. 1920. *Primitive Society*. New York: Farrer & Rinehart.
- Lowie, R.H.1950. *Social Organization*. London, Routledge and Kegan Paul.Malinowski, B. 1922. *Argonauts of Western Pacific*, New York: Dutton.
- Malinowski, B. 1980. *A Scientific Theory of Culture and other Essays*; New York: Oxford University Press.
- Marriet, R.R. 1909. *The Threshold of Religion*. London: Methuen.
- Mead, M. 1928. *Coming of age in Samoa*. New York: Morrow.
- Mead, M. 1930. *Grwoing up in NewGuinea*. New York: Blue Ribbon.
- Mead, M. 1955. *Cultural Patterns and Technical Change*. New York: Mentor.
- Radcliffe- Brown, A.R. 1922. *The Andaman Islanders*. Cambridge : Cambridge University press.
- Radcliffe-Brown, A.R. 1958. *Methods in Social Anthropology*, M.N. Srinivas (ed.) Bombay: Asia Publishing House.
- Redfield, R. 1941 *The Folk Culture of Yukatan*, Chicago, Chicago University Press
- Redfield, R. 1953 *Primitive World and its Transformation*, New York
- Redfield, R. 1955 *The Little Community: View Point for the Study of Human Whole*, Chicago: Chicago University Press
- Singer, M. 1972 *When a Great tradition Modernises*, Chicago : Chicago University Press.
- Singer, M. 1975 *Traditional India: Structure and Change*, Chicago : Chicago University Press,
- Singh Yogendra 1973 *Modernisation of Indian Tradition*, New Delhi: Thomson Press (India) Limited.
- Singh Yogendra 1975 *Essays on Modernisation in India*, New Delhi : Monohar Book Service.
- Singh Yogendra 1993 *Social Change in India: Crisis and Resilience*, New Delhi : Har-Anand PVT. LTD,
- Sinha, S. 1965 *Tribe-Caste Continuum, Man in India, Vol. 45, No.1*
- Srinivas M. N. 1952 *Religion and Society among Coorgs of South India*, Bombay: Asia Publishing House.
- Srinivvas,M.N. 1952. *Religion and Society among Coorgs of South India*. Bombay: Asia Publishing House.
- Upadhyay, V.S. and Pandey , G. 1993. *History of Anthropological Throught*. Concept Publishing Copany, New Delhi.
- Vidyarthi, L.P. 1961 *Sacred Complex in Hindu Gaya*, Bombay: Asia Publishing House
- Vidyarthi, L.P. 1963 *The Maler: Nature-Man-Spirit Complex in a Hill Tribe of Bihar*, Calcutta: Bookland Private Limited.

**COURSE 204A SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 5: Schools of Diffusionism**

1. Concept and features
2. British School of Thoughts
3. German School of Thoughts
4. American School of Thoughts

### **Module SCANTH 6: Schools of Evolutionism**

1. Concept and features
2. Classical and Neo-evolutionary thoughts
3. Concept of Unilinear Evolutionists: L.H. Morgan and E. B. Tylor
4. Concept of Multilinear Evolutionist: Julian Steward
5. Concept of Universal Evolutionists: Gordon-Childe and L. White

### **Module SCANTH 7: Functional School of Thoughts**

1. Concept of Malinowski
2. Theory of Need

#### **Reading List:**

- Behura, N. K. 1988 *Anthropological thoughts and theories*, Calcutta: Institute of Social Research and Applied Anthropology.
- Bose, N.K. 1929. *Cultural Anthropology*, Bombay: Asia Publishing House
- Child, V.G. 1951. *Social Evolution*, New York : Henry Schuman.
- Harris M. 1964. *The Nature of Cultural Things*, New York : Random House.
- Harris M. 1979. *Rise of Anthropological Theories*, London.: Routledge and Kegan Paul ltd.
- Honigmann, J.J. 1973. *Handbook of Social and Cultural Anthropology*, Chicago: Rand McNally and Co. Honigmann J.J. 1954. *Culture and Personality*, New York: Harper and Row.
- Malinowski, B. 1922. *Argonauts of Western Pacific*, New York, Duttan.
- Malinowski, B. 1927. *Sex and Repression in Savage Society*, London, Routledge and Kegan Paul

### **COURSE 204 B SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

### **Module SCANTH 8: Structuralism and Neo-structuralism**

1. Social Solidarity and Division of labour: Emile Durkheim.
2. Structural-functionalism: Radcliffe-Brown.
3. Structuralism: Social Structure: Levi-Strauss, S. F. Nadel, E.R. Leach and E. Pritchard.
4. Social structure and Social Organisation: Raymond Firth.
5. Post Structuralism and Post Modernism: Concept, overview and approaches.
6. Cognitive anthropology

### **Module SCANTH 9: Psychological School of thoughts**

1. Concept of Culture and Personality
2. Concept of Culture pattern: Ruth Benedict
3. Impact of Personality on Culture: Ruth Benedict
4. Impact of Culture on Personality: Margaret Mead
5. Study of National Character: Ruth Benedict and Margaret Mead
6. Culture Background of Personality: Ralph Linton
7. Basic personality type: Abram Kardiner
8. Modal personality, central tendency and frequency distribution: Cora-Du-Bois

#### **Reading List:**

- Behura, N. K. 1988. *Anthropological thoughts and theories*, Calcutta: Institute of Social Research and Applied Anthropology,
- Benedict, R. 1934. *Patterns of Culture*, New York: Houghton Mifflin.

Benedict, R. 1946. *The Chrysanthemum and The Sword*, Boston : Houghton Mifflin.  
 Du-Bois, C. 1944. *The People of Alor*, Minneapolis : University of Minnesota Press.  
 Durkheim, E. 1893. *Division of Labour in Society*, New York, Macmillan.  
 Harris M. 1979. *Rise of Anthropological Theories*, London.: Routledge and Kegan Paul ltd.  
 Honigmann, J.J. 1973. *Handbook of Social and Cultural Anthropology*, Chicago: Rand McNally and Co.  
 Honigmann J.J. 1954. *Culture and Personality*, New York: Harper and Row.  
 Levi-Strauss, C.1963. *Structural Anthropology*, New York: Basic Book  
 Malinowski, B. 1922. *Argonauts of Western Pacific*, New York, Duttan  
 Malinowski, B. 1927. *Sex and Repression in Savage Society*, London, Routledge and Kegan Paul  
 Radcliffe-Brown A. R.1948: *A Natural Science of the Society*, New York: Free Press.

**COURSE 205: PRACTICAL**

**Credits: 4 (Marks= 100)**

**COURSE 205 /UNIT- I: PRACTICAL (FIELD-WORK)**

**(Marks= 25)**

**Module PRPHYANTH 4:**

1. Field study/ Museum visit/ Laboratory visit/ Zoo visit/ Primate study  
 Duration: at least five days

**COURSE 205 /UNIT- II: PRACTICAL (FIELD-WORK)**

**(Marks= 15)**

**Module PARANTH 2**

1. Field Work in Prehistoric Archaeology  
 Duration: at least five days

**COURSE 205 /UNIT- II: PRACTICAL (FIELD-WORK)**

**(Marks: 60)**

**Module PSCANTH 2**

1. Field Work in Social Cultural Anthropology  
 Duration: at least fifteen days

**COURSE 206: CONTINUING EVALUATION**

**Credits: 4 (Marks= 100)**

**COURSE 206 / UNIT - I CONTINUING EVALUATION**

**(Full marks: 40)**

1. Class test

**COURSE 206 / UNIT –II CONTINUING EVALUATION**

**(Full marks: 30)**

1. Group discussion

**COURSE 206 / UNIT – III CONTINUING EVALUATION**

**(Full marks: 30)**

1. Comprehensive *viva-voce*

**M. Sc. Anthropology**  
**3<sup>rd</sup> Semester**  
**(Compulsory Papers: 301 & 302)**

**COURSE 301A INDANTH**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 10: Physical Anthropology in India**

1. Racial classification of India by H.H.Risley, B.S.Guha and S.S.Sarkar
2. Negrito racial element in India
3. Primate studies in India, families of Indian primates
4. Morphological, anthropometric traits and genetic markers: Head shape, ABO blood group, dermatoglyphics.

**Module ARANTH 9: Prehistoric Studies in India**

1. Concept, Classification, Development, Approaches and Methodologies.
2. Contribution of Indian Prehistorians: H.D. Sankalia, D.Sen, N.K.Bose and L.A.K. Aiyar.
3. Comprehensive studies in Indian Prehistory (Old, Middle and Late stone ages).
4. Recent Studies on Indian Prehistoric Cultures.

**Module ARANTH 10: Significant Prehistoric Sites of Undivided India**

1. Northern Indian sites
2. North-Western Indian sites
3. Central Indian sites
4. Eastern Indian sites
5. North Eastern Indian sites
6. Southern Indian sites

**Reading List:**

- Allechin B. 1982 *The Rise of Civilization in India and Pakistan*, Cambridge: Cambridge University Press.
- Allechin B. and R. Allchin 1982 *The Birth of Indian Civilization*, Penguin Books, New Delhi
- Bhattacharyya D. K. 1989 *An Outline of Indian Prehistory*, Delhi: Palaka Prakashan.
- Bhattacharya, M. 1987. Stages of Prehistoric Culture in Rarh Bengal (A Recent Exploration). In: Brijia Mohana Pande and B. D. Chattopadhyaya (eds.), *Archaeology and History: Essays in Memory of A. Ghosh*, Vol. I. pp. 47-52. New Delhi.
- Dani, A.H. 1960. *Prehistory and Protohistory of Ancient India*, Calcutta: Firma.
- Hay, R.L. 1963. Stratigraphy of Beds I through IV Olduvai Gorge, Tanganyika, *Science* 139: 829-33
- Jayaswal V. 1978. *Palaeohistory of India*, New Delhi: Archaeological Survey of India.
- Mitra P. 1979. *Prehistoric India*, Varanasi: Bharatiya Publishing House.
- Sankalia, H.D. 1962. *Prehistory and Protohistory of India and Pakistan*, Bombay: University of Bombay
- Ray, Ranjana 1985. The Blade Bladelets Industry of India. In: V.N. Misra and P.S. Bellwood (eds.), *Recent Advances in Indo Pacific Prehistory*, pp. 123-128. Oxford, IBH: New Delhi.
- Sankalia, H.D. 1975. *Prehistory of India*, New Delhi: Munshirum Monoharlal

**Module: SCANTH 10: Social Cultural Anthropology in India**

1. History and development of social-cultural anthropology in India
2. Ethnographic profile of India: Racial, ethnic, linguistic and religious communities.
3. Multiculturalism in India- challenges and opportunities; communalism, regionalism, identity crisis, ethnicity, unrest among the ethnic groups and marginal people, tribal movements and problems of national integration.
4. Theoretical contributions of Indian anthropologists and sociologists in understanding Indian society and culture with particular references to – D.N. Majumdar, I. Karve, L.P. Vidyarthi, M.N. Srinivas, N.K. Bose, S.C. Roy, S.C. Sinha, T.C. Das, S.C. Dube, Verrier Elwin, M.N. Basu, B.K. Roy Burman.

**Reading List**

- Ahuja, Ram. 1999. *Society in India: concepts, theories and changing trends*. Rawat: New Delhi.
- Biswas, S.K. 2012. *Suicide: An Anthropological Study at Sagar Block, West Bengal*, in S. Biswas, et al., (eds.) *Human Health: A Bio-cultural Synthesis*, 85-99. Cosmo New Delhi.
- Biswas, S.K. and A. Das Gupta, 2013. Migration: An Anthropological Perspectives with Special Reference To North Bengal, India, in K.K. Bagchi (ed.) *Internal Migration in India Nature, Determinants and Consequences, Vol. II:631-657*. Abhijeet Publications, New Delhi.
- Bhowmik, P.K. 1980: *Some aspects of Indian Anthropology*; Calcutta: Suvarnarekha.
- Bose, N.K. (ed.) 1961. *Peasant life in India*. Calcutta: ASI.
- Bose, N.K. 1967. *Problems of National Integration*; Simla: Indian Institute of Advanced Study,
- Bose, N.K. (Translated by A. Beteille) 1975: *The Structure of Hindu Society*; Calcutta: Orient Longman,
- Danda, A.K. 1996: *Foundation of Anthropology in India*; , New Delhi.: Inter-India Publication
- Danda, A.K. *Ethnicity in India*; New Delhi.: Inter India Publication.
- Desai, A.R. 1948. *Social Background of Indian Nationalism*; Bombay.: Popular Prakashan.
- Engineer, A.A. (ed.). 1984. *Communal Riots in Post Independence India*, New Delhi: Sangam Books.
- Guha, A. 2011. Ethics of Field work in the Study of Bengal Famine: The Case of Tarak Chandra Das 46 (2&3): 135-144, *Journal of the Indian Anthropological Society*.
- Jash, P. (ed.). *National Integration; Problems in perspectives*; Santiniketan. : Visva Bharati.
- Jha, Makhan 1982: *An Introduction to Anthropological thought*; New Delhi : Vikash Publishing House Pvt. Ltd.
- Madan, T.N. & Gopal Sarana (ed.) 1962: *Indian Anthropology, Essays in Honour of D.N. Majumdar*, New Delhi: Asia Publishing House,
- Mathur, H.M. 1977: *Anthropology in development process*; New Delhi: Vikash Publishing.
- Oommen, T.K. & R.N. Mukherjee (eds.) 1986: *Indian Sociology*; Bombay: Popular Prakashan.
- Rao, M.S.A. 1974: *A Survey of Rise arch in society and social anthropology*; Bombay: ICSSR, Popular Prakashan,
- Siddiqui, M.K.N. 1999. *Roots of communalism in India*; New Delhi.: Abodi Publication.
- Sinha, Surajit (ed.): *Aspects of Indian Culture and Society*; Calcutta: ASI.
- Singh, K.S. 1972. *Tribal Situation in India*. Simla, Indian Institute of Advance Study.
- Singh, K.S. 1983. *Tribal Movements in India Vol. 1 & 2*. New Delhi, Manohar Publications.
- Singh, K.S. 1985. *Tribal Society in India*. New Delhi, Manohar.
- Unnifham T.K.N. Indra Deva and Y. Singh (eds.) 1965: *Towards sociology of culture in India*;



- New Delhi.: Prentice Hall of India.
- Vidyarthi, L.P.: *Rise of Anthropology in India (2 Volume)*, New Delhi: Concept Publishing Home.
- Vidyarthi, L.P. and B.K. Rai. 1985. *The tribal culture of India*. New Delhi: Concept Pub. Company.

**COURSE 302A INDANTH**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 11: Physical Anthropology in West Bengal and Sikkim**

1. Ethnic profile of North Bengal and Sikkim
2. Forensic anthropology in North Bengal and Sikkim
3. Studies in human growth and nutrition in North Bengal and Sikkim
4. Dermatoglyphic studies in North Bengal and Sikkim

**Module ARANTH 11: Prehistoric Studies in West Bengal and Sikkim**

1. Aim, scope and objectives of Prehistoric Studies in West Bengal and Sikkim.
2. Some of the significant studies conducted in West Bengal and Sikkim.
3. Recent trends of Prehistoric studies in West Bengal and Sikkim.

**Module ARANTH 12: Important Prehistoric Sites in West Bengal and Sikkim**

1. Sites in Southern parts of West Bengal.
2. Sites in Central parts of West Bengal.
3. Sites in Northern parts of West Bengal.
4. Sites in Sikkim.

**Reading List:**

- Bhattacharyya M. 2005 Palaeolithic Tools From Indo-Bhutan Border, *Journal of the Department of Anthropology, University of Calcutta*, Vol. 9 Number: 1& 2 pp-118-120
- Bhattacharyya M. 2005 Sequence of Acheulian Culture in West Bengal: Geochronological and Morphological Study *Journal of the Department of Anthropology, University of Calcutta*, Vol. 9 Number: 1& 2 pp- 59-67
- Ray, R. 1985. The Blade Bladelets Industry of India. In: V.N. Misra and P.S. Bellwood (eds.), *Recent Advances in Indo Pacific Prehistory*, pp. 123-128. Oxford, IBH: New Delhi.
- Ray, Ranjana and A.K. Ghosh 1990. Isotypes of Early Holocene Industries in Eastern India: Studies on Adaptation Determinants. In: N.G.Ghosh and Subrata Chakraborty (eds.), *Adaptation and Other Essays*, pp. 122-130. Viswa Bharati Research Publication: Santiniketan.
- Tarafdar, P. *et. al.* 2012 & 2013. Palaeolithic Tools of Siulibona, District-Bankura, West Bengal: A Typological and Morphometric Study. *Journal of the Anthropological Survey of India*, 61(2) & 62(1): 651-665.
- Tarafdar, P. *et. al.* 2014 Microlithic Assemblages of 'Tapaban Pahar' (A study on an emerging Mesolithic site of District-Bankura, West Bengal), *South Asian Anthropologist* vol.14 (1), 47-58

**Module SCANTH 11: Ethnic Profile of the Indigenous Populations of West Bengal and Sikkim**

1. Southern part of West Bengal.
2. Northern part West Bengal (North Bengal).
3. Sikkim

**Module SCANTH 12: History and Development of Tea Gardens in North Bengal**

1. Historical Perspectives of establishment of Tea Gardens.
2. Ethnic profile and Social system of Tea Garden labourer.
3. Acculturation and Cultural change.
4. Syncretism.

**Reading List:**

- Bhadra, R.K. 1997: *Social Dimension of Health of Tea Plantation workers in India*; Dibrugarh: N.L. Publishing.
- Bhadra, R.K. and Mita Bhadra. 1997: *Plantation labourers of North East India*; Dibrugarh: N.L. Publishers.
- Bhowmik, K.S. 1981: *Class Formation in a plantation system*; New Delhi.: P.P. Lt.
- Das, A.K. 1969: The Lepchas of West Bengal; *Bulletin CRI Publication special series, 19*.
- Das, A.K. and M.K. Raha. 1967: The Rabhas of West Bengal; *Bulletin of CRI Special Series*.
- Sanyal, C.C.. 1965: *Rajbanshi of North Bengal*; Calcutta: Asiatic Society.
- Sinh, A.C.: *Politics of Sikkim*; New Delhi: Thomson Press.
- Tarafdar, P. 2015 Indigenous Population of North Bengal: A Contemporary Contemplation In *Omnibus of North Bengal The History and Culture of the Hills and the Plains*, Anita Bagchi and Dahlia Bhattacharya (eds.), B.B. Publishing Corporation, Delhi.
- Xaxa, V. 1980: Evolution of Agrarian Relation in Jalpaiguri; *Sociological Bulletin, March*.

**M. Sc. Anthropology**  
**3<sup>rd</sup> Semester**  
**(Special Papers)**

**(GROUP – A: CORE AND ELECTIVE COURSES IN SOCIAL CULTURAL ANTHROPOLOGY)**

**COURSE 303A: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 13: Rural Society in India - I**

1. Characteristics of Rural Society. Salient criteria to distinguish rural society from urban society.
2. Agrarian Class Structure: (a) Characters of Indian peasants. (b) Agrarian social structure. Social organization of production, caste and agrarian relations in Indian villages. Impact of globalization on Indian villages, the changing agrarian relations.
3. Agrarian movements in India.

**Reading List:**

- Atal, Yogesh. 1979: *Changing Frontiers of Caste*. New Delhi. National Pub. House.
- Berremann, G.D. 1979: *Caste and Other Inequalities*. Meerut, Folklore Institute
- Beteille, Andre. 1966: *Caste, Class and Power*. Delhi: Oxford University Press.
- Beteille, Andre. 1974: *Studies in Agrarian Social Structure*; Delhi: Oxford University Press.
- Bottomore, T.B. 1970: *Class in Modern Society*. London: George Allien and Unwin.
- Dasgupta, Biplab (ed.) 1975: *Village Studies in the Third World*, Delhi: Hindustan.
- Desai. A.R. 1969: *Rural Sociology in India*. Bombay: Popular.
- Dhanagare, D.N. 1983: *Peasant Movements in India after Independence*. Delhi: Oxford University Press.
- Dube, S.C.1955. *India's Changing Villages: Human Factors in Community Development*. London: Cornell University Press.
- Dube, S.C.1955. *Indian Village*. London: Cornell University Press.
- Dube, S.C.1955. *India's Changing Villages: Human Factors in Community Development*. London: Cornell University Press.
- Dube, S.C.1958. *Power and Conflict in Village India*. London: Cornell University Press.
- Hutton.J.H. 1946,: *Caste in India*. Cambridge University press
- Joshi, P.C. 1977 *Land Reforms in India*, Delhi. : Institute of economic growth
- Kothari, Rajani. 1970: *Caste in Indian Politics*. Delhi: Orient Longman.
- Majumder, D.N. 1958. *Caste and Communication in an Indian Village*. Bombay Asia Publishing House.
- Mandelbaum, David G. 1972: *Society in India*. Bombay: Popular
- Redfield, R. 1955. *The Little Community, View point for the Study of Human Whole*. Chicago: Chicago University Press.
- Redfield, R. 1956. *Peasant Society and Culture*. Chicago: Chicago University Press.
- Srinivas, M.N. (ed.) 1955: *India's Villages*. Bombay: Asia Pub. House.
- Srinivas, M.N. 1986: *India: Social Structure*. Delhi: Hindustan.
- Thorner, Daniel 1973: *Agrarian Prospect in India*. New Delhi Allied.
- Vidyardhi, L.P. 1978: *Rise of Anthropology in India (Vol. 2)*; Delhi Concept Pub.
- Wiser, William H. 1936: *The Hindu Jajmani System* Lucknow: Lucknow Pub. House.

- Marriot, McKim (ed.). 1955. *Village India*. Chicago: University of Chicago press.
- Redfield, R. 1955. *The Little Community, View point for the Study of Human Whole*. Chicago: Chicago University Press.
- Redfield, R. 1956. *Peasant Society and Culture*. Chicago: Chicago University Press.
- Sinha, Surjit, 1965. Tribe Caste Continuum. *Man in India, Vol. 45, No.1*.
- Singer Milton (ed.) 1958. *Traditional India: structure and change*, American, Folklore Society, Philadelphia.
- Singh, Yogendra 1973. *Modernization of Indian traditions*. New Delhi.: Thomson Press (India) Limited.
- Srinivas, M.N.1962. *Caste in Modern India and other Essays*. Bombay: Bombay Asia Publishing House.
- Srinivas, M.N. 1976 . *The Remembere3d Villages*. Berkeley: University of California.
- Srinivas, M.N. 1972: *Social Change in Modem India*. Bombay: Orient Longman

**COURSE 303B: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 14: Rural Society in India - II**

1. Village Communities in India: Village studies in India- (tribal and peasant); primitive society as a conceptual model of village ethnography. Village, social systems- solidarity, external linkages, rural cosmopolitan (Oscar Lewis), unity and extension of Indian villages (Morris E. Opler), factions, conflicts.
2. The Varna–Jati and Caste System in India: Stratification, caste as a group and as a system of social segmentation and integration. Dominant caste, caste mobility, tribe-caste continuum.
3. Social and cultural change with special references to caste in modern India / changing dimensions of caste and rural society: Traditional and changing patterns of settlement and inter-caste relations; various agents- Hinduization, Sanskritization, Vaisnavization, Kshatryaization, westernization, industrialization, urbanization, modernization, globalization, influences of multi-complex societies and interactions with their various traditions, various mobilities’ in caste as well as in village societies; panchayati raj and social change; media and social change.

**Reading List**

- Atal, Yogesh. 1979: *Changing Frontiers of Caste*. New Delhi. National Pub. House.
- Berremen, G.D. 1979: *Caste and Other Inequalities*. Meerut, Folklore Institute
- Beteille, Andre. 1966: *Caste, Class and Power*. Delhi: Oxford University Press.
- Beteille, Andre. 1974: *Studies in Agrarian Social Structure*; Delhi: Oxford University Press.
- Biswas, S.K. 2012. *Environmental Degradation and Its Impact on Human Society with Special Reference to Suicide*, in B. Chaudhuri (ed.) *Human Rights*, 150-160. Zhishi Chanquan Publishing House, China, in Huang Zhongcai (Editor in Chief), *Anthropology and Ethnology Today Series*; Book series of the 16<sup>th</sup> World Congress of IUAES.
- Biswas, S.K. and S. Bhattacharjee, 2009. Folk Culture of North Bengal Tribes, in A.K. Danda, R.K. Mutatkar and D.K. Midya (eds.) *Essay on Cultural Anthropology*, 316-334. Indian National Confederation and Academy of Anthropologists, Jhargram and Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal.
- Biswas, S.K. and B. Gan, 2007. Child Health: A Socio- Cultural Perspective, Study on the Rajbansi of East Rangia Village in Darjeeling District, West Bengal, India, in B. Chaudhuri and S. Chaudhuri (eds.) *Anthropology and Human Rights in Contemporary Era*, 3: 241-265. Inter India Publications, New Delhi.

- Biswas, S.K. and S. Bhattacharjee, 2008. The Totos In transition, in R.M.Sarkar (ed.) *Primitive Tribal Groups in India: Tradition, Development and Transformation*, 200-218. Serials Publications, New Delhi. [ISBN: 978- 81-8387-186-0].
- Biswas, S.K. and S. Bhattacharjee, 2010. Folk Culture in Front of Serious Challenge: A Case Study on the Tribes of North Bengal, in P. Chakravorty and N. Gupta (eds.) *Dance Matters*,: 40-54. Routledge Taylor & Francis Group, New Delhi.
- Bottomore, T.B. 1970: *Class in Modern Society*. London: George Allien and Unwin.
- Dasgupta, Biplab (ed.) 1975: *Village Studies in the Third World*, Delhi: Hindustan.
- Desai. A.R. 1969: *Rural Sociology in India*. Bombay: Popular.
- Dhanagare, D.N. 1983: *Peasant Movements in India after Independence*. Delhi: Oxford University Press.
- Dube, S.C.1955. *India's Changing Villages: Human Factors in Community Development*. London: Cornell University Press.
- Dube, S.C.1955. *Indian Village*. London: Cornell University Press.
- Dube, S.C.1955. *India's Changing Villages: Human Factors in Community Development*. London: Cornell University Press.
- Dube, S.C.1958. *Power and Conflict in Village India*. London: Cornell University Press.
- Hutton.J.H. 1946,: *Caste in India*. Cambridge University press
- Joshi, P.C. 1977 *Land Reforms in India*, Delhi. : Institute of economic growth
- Kothari, Rajani. 1970: *Caste in Indian Politics*. Delhi: Orient Longman.
- Majumder, D.N. 1958. *Caste and Communication in an Indian Village*. Bombay Asia Publishing House.
- Mandelbaum, David G. 1972: *Society in India*. Bombay: Popular
- Redfield, R. 1955. *The Little Community, View point for the Study of Human Whole*. Chicago: Chicago University Press.
- Redfield, R. 1956. *Peasant Society and Culture*. Chicago: Chicago University Press.
- Srinivas, M.N. (ed.) 1955: *India's Villages*. Bombay: Asia Pub. House.
- Srinivas, M.N. 1986: *India: Social Structure*. Delhi: Hindustan.
- Thorner, Daniel 1973: *Agrarian Prospect in India*. New Delhi Allied.
- Vidyarthi, L.P. 1978: *Rise of Anthropology in India (Vol. 2)*; Delhi Concept Pub.
- Wiser, William H. 1936: *The Hindu Jajmani System* Lucknow: Lucknow Pub. House.
- Marriot, McKim (ed.) 1955. *Village India*. Chicago: University of Chicago press.
- Redfield, R. 1955. *The Little Community, View point for the Study of Human Whole*. Chicago: Chicago University Press.
- Redfield, R. 1956. *Peasant Society and Culture*. Chicago: Chicago University Press.
- Singh Yogendra 1973 *Modernisation of Indian Tradition*, New Delhi: Thomson Press (India) Limited.
- Singh Yogendra 1975 *Essays on Modernisation in India*, New Delhi : Monohar Book Service.
- Singh Yogendra 1993 *Social Change in India: Crisis and Resilience*, New Delhi : Har-Anand PVT. LTD,
- Sinha, Surjit, 1965. Tribe Caste Continuum. *Man in India, Vol. 45, No.1*.
- Singer Milton (ed.) 1958. *Traditional India: structure and change*, American, Folklore Society, Philadelphia.
- Singh, Yogendra 1973. *Modernization of Indian traditions*. New Delhi.: Thomson Press (India) Limited.
- Srinivas M. N. 1952 *Religion and Society among Coorgs of South India*, Bombay: Asia Publishing House.
- Srinivas, M.N.1962. *Caste in Modern India and other Essays*. Bombay: Bombay Asia Publishing

House.

Srinivas, M.N. 1976 . *The Remembere3d Villages*. Berkeley: University of California.

Srinivas, M.N. 1972: *Social Change in Modem India*. Bombay: Orient Longman

**COURSE 304A: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 15: Weaker Sections in Indian Populations - I**

1. Weaker section in Indian Population: Definition and characteristics features of tribes, scheduled tribes, denotified communities. Scheduled castes and Other Backward Communities/Classes; and Dalits' in India.
2. Economic, education and social profile of the weaker sections.
3. Exploitation, deprivation and violence against weaker section and Ameliorative measures.
4. Relation between weaker and non-weaker sections with special references to so-called earlier untouchable and touchable; and tribal-nontribal relations. Untouchability and its eradication; and Dalit consciousness.
5. Dalit Movements and Socio-political Reformers: Dalit leaders and their activities with special references to Dr. B.R. Ambedkar, Jyotirao Phule, Babu Jagjivan Ram, Manyawar Shir Kanshi Ram Ji, Jogendra Nath Mandal, Harichand Thakur and Guruchand Thakur, Thakur Panchanan Barma etc.

**Reading List**

Ahmed Aziz. 1964 *Studies in Islamic Culture in the Indian Environment*. Clarendon Press.

Ahmed Indiaz. 1976 *Oxford: Caste and Social Stratification Among Muslims in India*, New Delhi: Monohar Publications.

Ahuja, Ram. 1999. *Violence against Women*. Jaipur: Rawat Pub.

Ahuja, Ram. 1999. *Society in India*. New Delhi: Rawat.

Ahuha, Ram. 1999. *Indian Social System*. New Delhi: Rawat.

<http://www.bspindia.org/manyawar-shri-kanshiram-ji.php>

Banerjee, Nirmala: *Women Workers in the Unorganized Sector*.

Bhadra, Mita. 1999. *Girl Child in Indian Society*. Rawat Pub. Jaipur: New Delhi.

Bhai, P. Nirmala. *Harijan Women in Independent India*; New Delhi: B.R. Publishing Corporation,

Bhowmik, P.K. 1963 *The Lodhas of West Bengal*. Calcutta, Punthi Pustak

Biswas, S.K. 2005. 'Asantosh Karan'(in Bengali), in Goutam Roy (ed.), 'Santras', 81-93. Baitanik Patrika Goshthi, Siliguri.

Biswas, S.K. 2007. Culture and Peace: The Major Constraint in Indian Society, *Indian Journal of Human Rights and Social Justice*, 2(1-2): 137-152.

Biswas, S.K. 2009. Socio-Economic Crisis and Its Consequences on a Little Known Tribal Community in West Bengal, India, September, 2009, in E. Kolig, V. SM. Angeles and S. Wong (eds.) *Identity in Crossroad Civilisations*, 8:97-114. Amsterdam University Press, Amsterdam.

Biswas, S.K. 2012. 'Kaloprobeha Namashudra'(in Bengali), *Chaturthabarta*, 1(2):24-29.

Biswas, S.K. 2013. Partition, Displacement and Social Exclusion, *Nrtattv The Anthropology*, 3(4):123-136.

Biswas, S.K. and A. Das Gupta, 2013. Migration: An Anthropological Perspectives with Special Reference To North Bengal, India, in K.K. Bagchi (ed.) *Internal Migration in India Nature, Determinants and Consequences, Vol. II:631-657*. Abhijeet Publications, New Delhi.

- Biswas, S.K. and S. Bhattacharjee, 2007. Health Situation Among the Stone Crushers of Balasan River Bed in Siliguri, West Bengal, India, in B. Chaudhuri and S. Chaudhuri (eds.) *Health, Environment Development and Other Essays: Anthropological Perspectives*, 5: 182-202. Inter India Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2007. The Rajbansi Stone Crushers of Balasan River Bed, Siliguri, West Bengal, *Journal of the Indian Anthropological Society*, 42(2): 165-175.
- Biswas, S.K. and S. Bhattacharjee, 2009. Factors Related to the Health Situation of the Stone Crushers: A Study of Balasan River Bed in Siliguri, West Bengal, October, 2009, in D.K. Adak, A. Chattopadhyay and P. Bharati (eds.) *People of Contemporary West Bengal*, 354-362. Mohit Publications, New Delhi.
- Bose, N.K. 1971. *Tribal Life in India*. New Delhi, National Book Trust.
- Chaudhuri, B. 1982. *Tribal Development in India: Problems and prospects*. New Delhi: Inter India, Publications.
- Danda, A.K. (ed.). 1978. *Tribal Women in India*. Calcutta.: Indian Anthropological Society.
- Imam Zafari (ed.) 1975 *Muslims in India*, New Delhi: Orient Longman.
- Evelyn, S.K. 1975. *Women: An anthropological view*. New York: Hold Rainhart and Winston.
- Freild, E. 1975. *Women and Men: Anthropologists View*. New York: HRW.
- Hobel, E.A. 1949. *Man in the Primitive World*. New York: McGraw-Hill Book Company.
- Kidwai and M.H. Seikh: *Women under different Social and Religious Laws: Buddhism, Jainism, Christianity and Islam*.
- Majumder, D.N. 1946. *Races and Cultures of India*. Allahbad: Kitabistan.
- Majumder, D.N. 1958. *Caste and Communication in an Indian Village*. Bombay Asia Publishing House.
- Mondal Sekh Rahim, 1994 *Dynamics of Muslim Society*, New Delhi.: Inter India Publications.
- Mondal Sekh Rahim, 1994 *Muslims of Siliguri*: New Delhi.: Institute of Objective Studies.
- Quinn, N. 1977. Anthropological Studies on Women's Status. *Annual Review of Anthropology*, Vol. 6.
- Redfield, R. 1955. *The Little Community, View point for the Study of Human Whole*. Chicago: Chicago University Press.
- Redfield, R. 1956. *Peasant Society and Culture*. Chicago: Chicago University Press.
- Sachidananda and R.P. Sinha. 1984. *Women's Rights: Myth and Reality*. Jaipur.
- Saikia, P.D. *Indian Rural Women: A Study on role and Status of Rural Women in Assam*.
- Siddiqui M.K.A. 1984 *Educating a Backward Minority*, Calcutta: Abdei Publications.
- Singh, K.S. 1985. *Tribal Society in India*. New Delhi, Manohar.
- Singh, K.S. 1972. *Tribal Situation in India*. Simla, Indian Institute of Advance Study.
- Srinivas, M.N. (b). *Caste in Modern India and other Essays*. Bombay: Asia Publishing House.
- Sohab, S.M. 1977 *Rural Development, Planning and Reform*, New Delhi: Abhinav Publications,
- Vidyarthi, L.P. and B.K. Rai 1985. *The tribal culture of India*. New Delhi: Concept Publ. Company.
- Zehol, L.T.V. 1998. *Women in Naga Society*. New Delhi: Regency.

**COURSE 304B: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 16: Weaker sections in Indian Populations - II**

1. Religious minorities of Indian population: Socio-economic and political situation of the religious minorities.
2. Impact of Buddhism, Jainism, Islam and Christianity on India society.

3. Linguistic and religious minorities and their social, political and economic status.
4. Women in Indian society: Women as social and cultural entities; role, status and position; and authority of women in tribal and so-called modern societies. Exploitation and violence against women. Empowerment, equality and women's movement with special reference to India.

### Reading List

- Ahmed Aziz. 1964 *Studies in Islamic Culture in the Indian Environment*. Clarendon Press.
- Ahmed Intiaz. 1976 *Oxford: Caste and Social Stratification Among Muslims in India*, New Delhi: Monohar Publications.
- Ahuja, Ram. 1999. *Violence against Women*. Jaipur: Rawat Pub.
- Ahuja, Ram. 1999. *Society in India*. New Delhi: Rawat.
- Ahuha, Ram. 1999. *Indian Social System*. New Delhi: Rawat.
- Banerjee, Nirmala: *Women Workers in the Unorganized Sector*.
- Bhadra, Mita. 1999. *Girl Child in Indian Society*. Rawat Pub. Jaipur: New Delhi.
- Bhai, P. Nirmala. *Harijan Women in Independent India*; New Delhi: B.R. Publishing Corporation,
- Bhowmik, P.K. 1963 *The Lodhas of West Bengal*. Calcutta, Punthi Pustak.
- Biswas, S.K. 2007. Women Rights: A Theoretical Explanation, in A. Bhumali and S.A. Kumar (eds.) *Women in the Face of Globalisation*. Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2005. The Stone Crushing Women of Balasan River Bed: An Appeal from Humanitarian Perspective, *South Asian Journal of Human Rights (SAJHR)*, *Special Issue: Poverty and Human Rights of Women*, 1(1-2): 141-157.
- Biswas, S.K. and S. Bhattacharjee, 2007. Women Rights in Indian Society: An Anthropological Observation, *Indian Journal of Human Rights and the Law*, 4(1-2): 1-26.
- Biswas, S.K. 2008. Women's Rights: A Theoretical Appraisal, *Indian Journal of Development Research and Social Action*, 4(1-2): 99-109.
- Biswas, S.K. and S. Bhattacharjee, 2009. Depletion of Resources and Violence against Women: An Anthropological Observation, in A.K. Singh, S.P. Singh and S.P. Pandey (eds.) *Domestic Violence Against Women in India*, 400-418. Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2010. Empowerment of Women: An Anthropological Approach, April 2010, in A.K. Singh, S.P. Singh and D.S. Sutaria (eds.) *Gender Budgeting and Women Empowerment in India*, 408-424. Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2011. Depletion of Resources and Its Impact on Food, Nutrition and Health: An Anthropological Observation, in U.V. Somayajulu' C.P. Prakasam, N. Audinarayana and K.E.Vaidyanathan (eds.) *Health, Poverty and Human Development Perspectives and Issues*, 201-215. Global Research Publications, New Delhi.
- Biswas, S.K. and A.K. Ghosh, 2011. Prevalence of Consanguinity and Offspring Mortality- An Observation among the Chunias in North Bengal, *Journal of the Anthropological Survey of India*, 60(2): 309 – 320.
- Biswas, S.K. and S. Bhattacharjee, 2012. Microfinance and Empowerment of Women: An Anthropological Analysis, in A.K.Singh, S.P.Singh, Nobert Koubek and O.P. Shukla (eds.) *Micro Financing and Women Empowerment Emerging Perspective*, Issues and Strategies, Vol. II: 743–765. New Royal Book Company, Lucknow.
- Biswas, S.K. and S. Bhattacharjee 2012. Women Trafficking: An Emerging Social Problems, March 2012, in A.K. Singh, A.P. Singh and P.A. Khan (eds.) *Trafficking in Women and Children in India Emerging Perspective Issues and Strategies*, 137-158. Serials Publications, New Delhi.



- Biswas, S.K. 2013. Trafficking of Women and Girl Children: Issues and Challenges, August, 2013 in A.P.Singh and A.K.Singh and S.K. Biswas (eds.) *Care and Protection of Girl Children in India Status, Emerging Issues, Challenges and Way Forward*, 86 –96. Bal Vikas Prakashan Pvt. Ltd., New Delhi.
- Bose, N.K.1971. *Tribal Life in India*. New Delhi, National Book Trust.
- Chaudhuri, B. 1982. *Tribal Development in India: Problems and prospects*. New Delhi: InterIndia, Publications.
- Danda, A.K. (ed.). 1978. *Tribal Women in India*. Calcutta.: Indian Anthropological Society.
- Imam Zafari (ed.) 1975 *Muslims in India*, New Delhi: Orient Longman.
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- Freild, E. 1975. *Women and Men: Anthropologists View*. New York: HRW.
- Hobel, E.A. 1949. *Man in the Primitive World*. NewYoork: McGrow-HillBook Company.
- Kidwai and M.H. Seikh: *Women under different Social and Religious Laws: Buddhism, Jainism, Christianity and Islam*.
- Majumder, D.N. 1946. *Races and Cultures of India*. Allahbad: KItabistan.
- Majumder, D.N. 1958. *Caste and Communication in an Indian Village*. Bombay Asia Publishing House
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- Mondal Sekh Rahim, 1994 *Muslims of Siliguri*: New Delhi.: Institute of Objective Studies.
- Quinn, N. 1977. Anthropological Studies on Women's Status. *Annual Review of Anthropology*, Vol. 6.
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- Siddiqui M.K.A. 1984 *Educating a Backward Minority*, Calcutta: Abdei Publications.
- Singh, A.P. and A.K. Singh and S.K. Biswas (eds.), 2013. *Care and Protection of Girl Children in India: Status, Emerging Issues, Challenges and Way Forward*. Bal Vikas Prakashan Pvt. Ltd., New Delhi.
- Singh, K.S. 1985. *Tribal Society in India*. New Delhi, Manohar.
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- Vidyarthi, L.P. and B.K. Rai 1985. *The tribal culture of India*. New Delhi: Concept Publ. Company.
- Zehol, L.T.V. 1998. *Women in Naga Society*. New Delhi: Regency.

**COURSE 305A: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 17: Concepts of culture and civilization**

1. Little Community, Folk Society, Peasant Society.
2. Folk Urban Continuum, Little and Great Tradition.
3. R. Redfield and A.L. Kroeber model on Civilisation.

### **Module SCANTH 18: Indian Culture and Civilisation**

1. Concept of Tribe-Caste Continuum: F.G.Baily, Surajit Sinha, Martin Orans and N.K.Bose.
2. Culture Role of Traditional City: Milton Singer
3. Study on Sacred Complex: L.P.Vidyarthi
4. Study on Network and Centres in the Integration of Indian Civilisation: B. S. Cohn and Mackim Marriott
5. Unity and Diversities in Indian Civilization: N.K.Bose

#### **Reading List:**

- Bose N. K. 1975 *The Structure of Hindu Society*, New Delhi : Orient Longman Limited.
- Kroeber A. 1957 *Style and Civilisation*, Ithaca: Cornell University
- Redfield, R. 1941 *The Folk Culture of Yukatan*, Chicago, Chicago University Press
- Redfield, R. 1953 *Primitive World and its Transformation*, New York
- Redfield, R. 1955 *The Little Community: View Point for the Study of Human Whole*, Chicago: Chicago University Press
- Singer, M. 1972 *When a Great tradition Modernises*, Chicago : Chicago University Press.
- Singer, M. 1975 *Traditional India: Structure and Change*, Chicago : Chicago University Press,
- Vidyarthi, L.P. 1961 *Sacred Complex in Hindu Gaya*, Bombay: Asia Publishing House
- Vidyarthi, L.P. 1963 *The Maler: Nature-Man-Spirit Complex in a Hill Tribe of Bihar*, Calcutta: Bookland Private Limited.

### **COURSE 305B: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

### **Module SCANTH 19: Concept and Approaches of Social and Cultural dynamics in India**

1. Sanskritization, Westernization, Universalization, Parochialization, Modernization, Little and Great Tradition.
2. Dominant Caste, Dominant Communities, Multiple Tradition,
3. Unity and Extension of Indian Villages, Rural Cosmopolitan, Cognitive Historical Approach.

### **Module SCANTH 20: Theories and approaches on Structural Changes in India**

1. Theories of Structural Changes: Class and Class conflict: Karl Marx
2. Dialectical Approach: Dialectical Materialism: Karl Marx
3. Application of both the theories in Indian Context.
4. Theoretical formulation and Existential Process: Criteria of Caste Change.
5. Integrated Approach: Sources of Changes: Heterogenetic and Orthogenetic
6. Cultural Structure and Societal Structure, Traditionalisation.

#### **Reading List:**

- Marriott, Mc Kim 1955 *Village India*; Chicago: Chicago University Press.
- Singh Yogendra 1973 *Modernisation of Indian Tradition*, New Delhi: Thomson Press (India) Limited.
- Singh Yogendra 1975 *Essays on Modernisation in India*, New Delhi: Monohar Book Service.
- Singh Yogendra 1993 *Social Change in India: Crisis and Resilience*, New Delhi: Har-Anand PVT. LTD,
- Sinha, S. 1965 Tribe-Caste Continuum, *Man in India*, Vol. 45, No.1
- Srinivas M. N. 1952 *Religion and Society among Coorgs of South India*, Bombay: Asia Publishing House.
- Srinivas M. N. 1962 *Caste in Modern India and other Essays*, Bombay: Asia Publishing House

Srinivas M. N. 1966 *Social Change in Modern India*, California: University of California Press

**COURSE 306A: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 21: Theoretical concepts of Medical Anthropology**

1. Definition, Scope, Division, Dimension.
2. Concept of Health, Disease, Treatment and health seeking behavior.
3. Sickness, Disease and Illness.
4. Epidemiology and Community Medicine.
5. Review on different medical anthropological studies.

**Module SCANTH 22: Approaches of Medical Anthropology**

1. Bio-cultural approach
2. Archaeological approach
3. Culture ecological approach
4. Ethnomedical approach
5. Applied approach

**Module SCANTH 23: Advanced Medical Anthropology**

1. Case Studies in explanatory Models.
2. Critical Medical Anthropology.
3. Cultural, Structural and Environmental Factors.
4. Healers in Cross-Cultural Perspectives.

**Reading List:**

- Carstairs G. M. 1955 Medicine and Faith in Rural Rajasthan In *Health, Culture and Community*, edited by B. D. Paul, New York: Russel Sage Foundation.
- Channa, S. M. (Ed.) 1998 *Medical Anthropology Health, Healers*, New Delhi: Cosmo Publications.
- Chaudhuri, B. 1986 *Tribal Health: Socio-Cultural Dimensions*, New Delhi: Inter India Publications.
- Chaudhuri, B. 1989 Social Science, Health and Culture: The Tribal Situation, *Social Action*, 39 (3), 1989, pp 243-53.
- Chaudhuri, B. 1990 *Culture and Environmental Dimensions on Health*, New Delhi: Inter India Publication.
- Chaudhuri, B. 2003 *Health, Forest and Development: The Tribal Situation*, New Delhi: Inter India Publication.
- Hahn, Robert A. 1995 *Sickness and Healing: An Anthropological Perspective*. New Haven, CT: Yale University Press.
- Lewis, Oscar 1959 Medicine and Politics in Mexican Village In *Health, Culture and Community*, edited by B. D. Paul New York: Rossel Sage Foundation pp: 403-434.
- Marriott, Mackim 1955 Western Medicine in the Village of North India, *Health Culture and Community*, edited by B.D. Paul, New York: Rossel Sage Foundation, pp: 239-268.
- Nichter, M, 1992 "The Layperson's Perception of Medicine as Perspective into the Utilization of Multiple Therapy System in the Indian Context." *Social Science and Medicine* 148: 225-233.
- Singh, B. and N. Mahanti 1995 *Tribal Health in India*, New Delhi : Inter India Publications,

- Tarafdar, P. 2004 Health, Tribal and Healers: Different Consequences *Bulletin of CRI*, Vol. 22, No.1, pgs: 84-86.
- Tarafdar P. 2008 Medical Anthropology: Concept, Approaches and Dimensions, North Bengal Anthropologist Vol.1, No. 1,.
- Tarafdar, P. 2007 Health Development: Displacement of Traditional Culture, In B. Chaudhuri & S. Chaudhuri (Eds.), *Health, Environment Development and Other Essays: Anthropological Perspective*, New Delhi: Inter India Publication.

**COURSE 306B: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 24: Applied Medical Anthropology: Culture and Nutrition**

1. Concept and approaches.
2. Mother and Child.
3. Indigenous and disadvantaged Populations.

**Module SCANTH 25: Indigenous Health**

1. Indian Perspective.
2. World Perspective.

**Module SCANTH 26: Healthcare Programmes and Services in India**

1. Review of Health Policies.
2. Nutritional Feeding Programme (Rural and Backward areas).
3. Population Control Programme (Rural and Backward areas).
4. Rajiv Gandhi National Drinking Water Mission (Rural and Backward areas).
5. Total Sanitation Programme (Rural and Backward areas).
6. Immunization Programme (Rural and Backward areas).
7. Institutional Delivery Programme.
8. Contemporary Programme and Services.

**Reading List**

- Chaudhuri, B. 1990 *Culture and Environmental Dimensions on Health*, New Delhi: Inter India Publication.
- Chaudhuri, B. 2003 *Health, Forest and Development: The Tribal Situation*, New Delhi: Inter India Publication.
- Tarafdar P. 2005 A Development Programme in the Tribal Villages, *Journal, Dept. of Anthropology, University of Calcutta*, Vol-9
- Tarafdar P. 2006. Child Healthcare among the Santals and the Koras of Jhargram sub-division, District Midnapore, *West Bengal Tribal Health Bulletin*, Vol. 12 No. 1&2, Regional Medical Research Centre for Tribals, ICMR
- Tarafdar P. 2009 Concepts and Techniques of Population Control among the Santals and the Koras of Jhargram Sub-division, District-Midnapore (West), West Bengal, *South Asian Anthropologist*, vol.9(2), pp-133-138.
- Tarafdar P. 2010 Cultural Dimensions on Tribal Health A Study among the Santal and the Kora of Jhargram Sub-division District- Midnapore (West), West Bengal, India, Lambert Academic Publishing, Germany.

Tarafdar P 2013 Tribal Health and Healthcare Infrastructure in the Government Sectors in P. Dash Sharma and D. Chatterjee (eds.) *Livelihood and Health, Issues and Process in Rural Development*, Serials Publications, New Delhi

**COURSE 307A: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 27: Ecological Anthropology**

1. Meaning, concept, definition of ecology, cultural/ social ecology. Aims and scopes and relevance of Ecological Anthropology.
2. Eco system, ethno-ecology, population ecology, human ecological niche. Variety of human eco system. Contribution of Wissler, Steward, Forde, Barth.
3. Ecology, nature and culture. Relation between ecology and society/communities, food resources, nutrition, health. Indigenous Knowledge System (IKS) and Indigenous ways of conserving and maintaining natural resources, ecosystem as well ecological balance.
4. Contemporary environmental issues: Deforestation, etc. and ecological imbalance and debates in Himalayas and adjacent regions.

**Reading List**

- Beteille, Andre 1983: *The Idea of Natural Inequality and Other Essays*. Delhi: Oxford
- Cohen, Yehudi A. 1968. *Man in adaptation; the cultural present*. Chicago: Aldine Pub. Co.
- Descola, Philippe, and Gisli Palsson. 1996. *Nature and society: anthropological perspectives*. London: Routledge.
- Gadgil, M. & R.Guha, 2007, *The Use and Abuse of Nature*. New Delhi: Oxford University Press.
- Gerasimov, I.P. et.al. 1975. *Man Society and the Environment*. Moscow: Progress Publishers.
- Guha, R. 2006, *Social Ecology*. New Delhi: Oxford University Press.
- Guha, Ramachandra. 1990. *The unquiet woods: ecological change and peasant resistance in the Himalaya*. Berkeley: University of California Press.
- Guha, Ramachandra. 2003. *Social ecology*. Oxford in India readings in sociology and social anthropology. Delhi [u.a.]: Oxford University Press.
- Jha, V. C. (ed.) 2003, *Land Degradation and Desertification*. Jaipur: Rawat Publications.
- Joshi, M.V. 2004, *Environmental Disaster: Causes, Impact and Remedies*. Delhi: Adhyayan Publishers & Distributers.
- Jullian Steward. *Theory of culture change*. Hartcourt Brace College Pub. London.
- Shiva, Vandana. 2009. *Staying alive*. [S.I.]: Zed Books Ltd. University Press

**COURSE 307B: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module SCANTH 28: Action Anthropology and Practicing Anthropology**

1. Action Anthropology and Sol Tax; Participant intervention vs. Action Anthropology approaches; other aspects; international development and community development; Different Perspectives, dimensions and theories of development; Applied anthropology; The Anthropology Critique of Development Anthropology; Diffusion, Innovation and

- Sustainability; Participatory Research Procedures and Paradigms; Rapid Assessment Procedures, RRA in contemporary perspectives.
2. Development and Ethics: Aspects and Development of Practicing Anthropology; The rights and obligations of anthropologists toward their subjects and clients
  3. Business Anthropology and Social Marketing: Intercultural Training; Business and Organisational aspects of Anthropology

**Reading List:**

- Epstein, A.L. (ed.) 1967: *The Craft of Social Anthropology*, London: Partel Tavistock Publication.
- Evans-Pritchard, E.E. 1951: *Social Anthropology*. London: Cohen and West.
- Goode, W.J. and Hatt, P. 1952: *Methods in Social Research*, New York: McGraw Hill.
- Lindzey, G. (ed.) 1976: *Handbook of Social Psychology, Vol. I & II*, Addison-Wesley.
- Pelto Perti, J. Pelto, Getel, H.: *Anthropological Research: The Structure of Inquiry*.
- Radcliffe-Brown, A.R. 1958: *Methods in Social Anthropology* (ed. By M.N. Srinivas); Bombay: Asia Publishing House.
- Sinha, S.C. (ed.) 1978: *Field studies on the people of India*; Calcutta: Indian Anthropological Society.
- Young, P.V. 1966: *Scientific Social Surveys and Research*, New Delhi: Prentice Hall of India Pvt. Ltd.

**COURSE 308 CONTINUING EVALUATION**

**Credits: 4 (Marks= 100)**

**COURSE 308/ UNIT – I: CONTINUING EVALUATION**

**(Full marks: 40)**

1. Class test

**COURSE 308/ UNIT –II: CONTINUING EVALUATION**

**(Full marks: 30)**

1. Term Paper

**COURSE 308/ UNIT – III: CONTINUING EVALUATION**

**(Full marks: 30)**

1. Comprehensive Viva-voce.

**M. Sc. Anthropology**  
**3<sup>rd</sup> Semester**  
**(Special Papers)**

**(GROUP – B: CORE AND ELECTIVE COURSES IN PHYSICAL ANTHROPOLOGY)**

**COURSE 303A: PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 12: Cell Biology**

1. Cell Biology: cell cycle, structure of DNA, RNA and protein
2. Repeatative, non-repeatative and satellite DNA; euchromatin and heterochromatin
3. Biological significance of DNA; protein synthesis- translation, transcription, central dogma
4. mtDNA: structure, function, use in Physical Anthropology
5. RFLP
6. Human genome

**Module PHYANTH 13: Inborn Errors of Metabolism**

1. One gene one enzyme hypothesis, Ingram's hypothesis
2. Biochemical pathways and heredity: Phenylketonuria, alkaptonuria and albinism

**Reading List:**

Strickberger MW. 2005. *Genetics*. New Delhi: Prentice-Hall of India Pvt. Ltd.  
Klug WS, Cummings MR. 2000. *Concept of Genetics*. New Delhi: Prentice-Hall India  
Gardner EJ, Simmons MJ, Snustad DP. 2006. *Principles of Genetics*. New York: John Wiley.  
Vogel F, Motulsky AG. 1986. *Human Genetics: Problems and Approaches*. New York.  
Springer-Verlag.

**COURSE 303B: PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 14: Human Genetic Variation**

1. Genetic variation: genetic drift, recombination, migration, founder's effect
2. Clinal distribution, multivariate approach to human diversity
3. Genetic variation in red cell enzymes: PGM, Red cell acid phosphatase
4. Genetic variation in plasma proteins: Hp, Tf
5. Genetic variation in DNA: mt DNA
6. Haemoglobin: Normal Hb, fetal Hb: structure and function; Abnormal haemoglobin: HbS, HbE and HbC – structure, function and genetic variation.
7. Immunology: immune system, immunoglobulins
8. Mutations and mutagens.

**Reading List:**

Giblett ER. 1969. *Genetic Markers in Human Blood*. Oxford: Blackwell Scientific Publications  
Jurmain R, Nelson H, Kilgore L, Trevathan W. *Introduction to Physical Anthropology*. 1999.  
Belmont: Wadsworth.  
Mourant AE, Kopec AC, Domaniewska-Sobczak K. 1978. *Blood Groups and Diseases: a Study of Associations of Diseases With Blood Groups and Other Polymorphisms (Monographs on Medical Genetics)*. London: Oxford University Press.

Peregrine PN, Ember CR, Ember M. (eds.) 2002. *Physical Anthropology: Original Readings in Method and Practice*. New Jersey: Prentice-Hall.

Race RR, Sanger R. 1975. *Blood Groups in Man*. Oxford: Blackwell Scientific Publications

Strickberger, MW. 1990. *Evolution*. London: Jones and Bartlett Publishers.

Vogel F, Motulsky AG. 1986. *Human Genetics: Problems and Approaches*. New York. Springer-Verlag.

#### **COURSE 304A: PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

##### **Module PHYANTH 15: Mating Patterns**

1. Mating and Marriage pattern- Random and Assortative mating (Positive and Negative Assortative mating)
2. Genetic aspects of consanguineous marriage and Inbreeding, Coefficient of Inbreeding
3. Homogamy and Isonomy.

##### **Module PHYANTH 16: Hardy-Weinberg Law and Population Structure**

1. Principles of Genetic equilibrium- Hardy Weinberg equilibrium, Application of Hardy-Weinberg equilibrium.
2. Various methods in studying Population Structure- the Island model, isolation by distance model, Stepping Stone model.
3. Genetic distance: Sanghvi's  $G^2$  distance, Edward's  $D^2$  distance, Nei's genetic distance
4. Display methods- Cluster analysis, Dendrogram

##### **Reading List:**

Barua Saumitra 2002. *Human Genetics: An Anthropological Perspective*. Kolkata: Classique

Cavali-Sforza LL and Bodmer WF 1971. *The Genetics of Human Population*. San Francisco: WH Freeman & Co.

Falconer, D. S. 1981, *Introduction to Quantitative Genetics*, New York: Longman.

Gardner Eldon John, Simmons Michale J and Snustad D P 1991. *Principles of Genetics*. New York: John Willey & Sons.

Stern Curt 1973. *Principles of Human Genetics*. San Fransisco: WH Freeman.

Strickberger Monroe W 2003. *Genetics*. New Delhi: Prentice Hall.

#### **COURSE 304B PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

##### **Module PHYANTH 17: Human Reproductive Biology**

1. Human reproduction: hormones related to growth and reproduction
2. Pituitary cycle
3. Ovulation, menstrual cycle, menarche and menopause
4. Wolffian duct: structural organisation and function
5. Mullerian duct structural organisation and function; evolution of Mullerian duct and adaptations for pregnancy

##### **Module PHYANTH 18: Human Auxology**

1. Growth curves, Scammon growth curve, curve of boy's and girl's height and weight
2. Prenatal growth: the three trimesters
3. Factors affecting prenatal growth: genetic and nutrition
4. Post-natal growth: adolescent growth spurt; factors affecting post-natal growth



5. Factors affecting post-natal growth: genetic, nutritional
6. Tanner stages of growth

**Reading List:**

- Chatterjee, C.C. 1997, Human Physiology, Calcutta; Medical Allied Agency
- Singh IP and Bhasin MK 2004. *A Manual of Physical Anthropology*. New Delhi: Kamla-Raj Ent.
- Tanner JM 1990. *Foetus into Man: Physical Growth from Conception to Maturity*. Harvard: Harvard University Press.
- Vogel, F. and Motulsky, A. G., 1986, *Human Genetics: Problems and Approaches*, Berlin: Springer Verlag.
- Wardlaw GM, Insel PM. 1996. *Perspectives in Nutrition*. Boston: Mosby

**COURSE 305A PHYSICAL ANTHROPOLOGY**

**Credit: 1(Marks= 25)**

**Module PHYANTH 19: Body Composition**

1. Definition and scope of body composition; Methods of studying body composition: Surface anthropometry including Matiegka's methods; Densitometry, Hydrometry and Roentgenogrammetry;
2. Modern techniques of studying body composition: Gamma Ray spectrophotometry, Computer Axial Tomography (CAT) scanning, Photon absorptiometry, Bioelectrical impedance,

**Reading List:**

- Brozek, J. (1965). Human Body Composition. Pergamon, London.
- Harrison, G. A., J.S. : Human Biology – An Introduction to Human Evolution, Variation, Lohman T.G. .(1992). Advances in body composition Assessment. Human Kinetics, Champaign, Illinois.
- Shephard TG. (1991). Body Composition in.....

**COURSE 305B: PHYSICAL ANTHROPOLOGY**

**Credit: 1(Marks= 25)**

**Module PHYANTH 20: Physiological Anthropology**

1. Fundamentals of Work Physiology: Cardio-vascular and respiratory endurance, haemodynamics and exercise (blood pressure, pulse rate, heart rate and oxygen- transporting system, blood flow ,Hb, heamatocrit etc)
2. Physical working capacity and physical fitness methodology: evaluation of response and adaptation of the body to stress of exercise.
3. Variations in respiratory functions with age, sex and environment; Interrelationship of body
4. measurements with respiratory functions.
5. Impact of smoking, alcohol, air pollution and occupation on cardio-respiratory functions.

**Reading List:**

- Davson.Hugh, Eggleton, M Grace. Lea & Febiger (1968, Eds.). Principles of Human Physiology
- Case, R.M. (1985, Ed.). Variations in Human Physiology by. Manchester University Press.
- Sherwood, Lauralee (2008). Human Physiology: From Cells to Systems. Brooks Cole.

**Module PRPHYANTH 5: Craniometry, Somatometry and Body composition**

1. Craniometric measurements using craniogram: maximum cranial length, glabella-inion length, nasion-inion length, frontal chord, parietal chord, occipital chord, metopic angle, alveolar profile angle, facial profile angle, nasal profile angle
2. Somatometric measurements and indices: definition, landmarks, instruments, measurements and classification (where applicable):
  1. Measurements: height vertex; height tragus, height acromion; height radiale; height stylion; height dactylion; arm span; sitting height vertex; sitting height acromion; sitting knee height; biacromial breadth; waist breadth; hip breadth; total arm length; length of upper arm; length of forearm; hand length; hand breadth; length of foot; breadth of foot; neck girth; triceps skinfold; biceps skinfold
  2. Indices: relative span index; relative sitting height index; relative trunk index; relative biacromial index; body mass index
  3. Bio-electrical Impedance Analysis to assess body composition.
  4. Laboratory note book and viva-voce.

**Module PRPHYANTH 6: Dermatoglyphics, Blood Sugar, Hair and Genetics**

1. Dermatoglyphics: Finger dermatoglyphics: identification of finger pattern types: calculation of pattern intensity, Furuhata's, Dankmeijer's indices; total finger ridge count; absolute finger ridge count.
2. Palmer dermatoglyphics: main line formula, termination of main lines; *atd* angle.
3. Determination of blood sugar
4. Blood pressure: measuring systolic and diastolic blood pressure with classification.
5. Taste ability to PTC: preparation of PTC solution, identification of taster and non-taster; threshold values.
6. Identification of sex chromatin
7. Hair analysis: presence of medulla and diameter
8. ABO blood group determination: moist chamber method and cell suspension method
9. Laboratory note book and viva-voce

***COURSE 308: CONTINUING EVALUATION***

**Credits: 4 (Marks= 100)**

***COURSE 308 / UNIT – I: CONTINUING EVALUATION:***

**(Full marks: 40)**

1. Class test

***COURSE 308 / UNIT –II: CONTINUING EVALUATION:***

**(Full marks: 30)**

2. Term Paper

***COURSE 308/ UNIT – III: CONTINUING EVALUATION***

**(Full marks: 30)**

1. Comprehensive *Viva-Voce*

**M. Sc. Anthropology**  
**4<sup>th</sup> Semester**

**(GROUP – A: CORE AND ELECTIVE COURSES IN SOCIAL CULTURAL ANTHROPOLOGY)**

**COURSE 401A: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks=25)**

**Module SCANTH 29: Basic Concepts of Urban Anthropology**

1. Definition, Scope, Attributes
2. Characteristic features
3. Process of Urbanisation
4. Reasons for Rural to Urban Migration

**Module SCANTH 30: Urbanisation in India**

1. Reinforcement of Traditional Culture
2. Characteristics of Pre-Industrial Cities
3. Rate of Urbanisation
4. Consequence of Structural and Cultural Change.

**Module SCANTH 31: Urbanisation and Industrialisation**

1. Emerging Issues.
2. Development of Industrial Cities.
3. Industrial worker's Migration.
4. Constraints of Industrial City Life.

**Module SCANTH 32: Urban Poor**

1. Culture of Poverty.
2. Study on Slum.
3. Study on Beggars.

**Reading List:**

- Bharwava G. (Ed.) 1981 *Urban Problems and Policy Perspectives*, New Delhi: Abhinav Publ.
- Bose, A. 1974 *India's Urbanisation, 1901-2001*, New Delhi: Mittal Publications
- Chaudhuri S. 1987 *Beggars of Kalighat*, Calcutta: Anthropological Survey of India, Calcutta
- Chaudhuri S. 2008 *Urbanization and Identity: Study on Megacities in India*; New Delhi : Inter India Publications,
- Chaudhuri S. and P. Tarafdar 2004 *The Beggars: Struggle for Survival In Metropolitan Ethnic Cultures: Maintenance and Interaction*, Beijing.: China Urban Anthropological Association, Academy Press.
- Desai, A. R. and S.D. Pillai 1970 *Slums and Urbanisation* , Bombay: University of Bombay
- Gore M. S. 1958 Society and Beggar, *Sociological Bulletin*, Vol.7 No. 1
- Ross, A. 1973 *Hindu Family in its Urban Setting*, Delhi, Oxford University Press
- Roy P. and Shangon Das Gupta 1995 *Urbanisation and Slums*, New Delhi: Har- Anand Publications,
- Sinha S.C. (Ed.) 1971 *Culture Profile of Calcutta*, Calcutta:The Indian Anthropological Society.

**Module SCANTH 33: Globalisation**

1. Basic Concepts: Definition, Nature, Diffusion to Globalisation, The Predicament in Anthropology.
2. Effects of Globalisation: On Physical, Social-Cultural Anthropology, Economic Anthropology, Field Studies, Language, Dalit and Indigenous Population in India.
3. Emerging Issues: Intellectual Property Rights, Patent Act, World Trade Organisation.
4. Globalisation and Social Transformation in India.

**Module SCANTH 34: Human Resource Development in India**

1. Basic Concepts: Definition, Aim, Scope and Objectives.
2. HRD and different Five Year Plan,
3. Future Plan of HRD,
4. Importance of HRD in India,
5. Relationship with Anthropology.
6. Sustainable Development: Definition, Concept, Dimensions in Indian Context

**Reading List:**

- Jameson, F. and M. Miyoshi (ed.) 2000 *The Culture of Globalisation*, Duke University Press.
- Misra K. Kamal 2005 *Anthropology: New Global Order and Other Essays*, Concept Pub. New Delhi
- Nathan D. G. Kelkar and P. Walter 2004 *Globalisation and Indigenous Peoples in Asia*, New Delhi: Sage Publications
- Singh Yogendra 1973 *Modernisation of Indian Tradition*, New Delhi: Thomson Press (India) Limited,
- Singh Yogendra 1975 *Essays on Modernisation in India*, New Delhi : Monohar Book Service,
- Singh Yogendra 1993 *Social Change in India: Crisis and Resilience*, New Delhi: Har-Anand PVT. LTD.
- Srinivas M. N. 1966 *Social Change in Modern India*, California, University of California Press

**Module SCANTH 35: Tribal Development - I**

1. Classification and characteristics of tribal regions. Indian Tribes: Geographical distribution; racial and linguistic classification, economic avenues.
2. Tribal Policy: Colonial and post-colonial policies. Constitutional safeguards and provisions for scheduled tribes- reservation; administration of Scheduled Area (Fifth Schedule), and Tribal Areas (Sixth Schedule).
3. Strategies of Economic Development of Indian Tribes: Forest, forest policy, Acts and regulation; shifting cultivation, tribal agriculture- land holdings- land rights- land alienation, adoption of modern agricultural technology; allied economics- fishing and hunting; pastoralism; village and cottage industries, tribal crafts.

**Reading List**

- Biswas, S.K. 2007. The Chuniya: A Little Known Community, *Bulletin of the Cultural Research Institute*, XXIII (1): 28-33.

- Biswas, S.K. 2008. Forest in Tribal Life: Some Observation on Totos in Jalpaiguri District of West Bengal, *North Bengal Anthropologist*, 1(1): 1-9. Department of Anthropology, University of North Bengal, Darjeeling.
- Biswas, S.K. 2009. Socio-Economic Crisis and Its Consequences on a Little Known Tribal Community in West Bengal, India, September, 2009, in E. Kolig, V. SM. Angeles and S. Wong (eds.) *Identity in Crossroad Civilisations*, 8:97-114. Amsterdam University Press, Amsterdam.
- Biswas, S.K. 2014 (January –June). Challenges of Tribal Livelihood: A Study with Special Reference to North Bengal, *International Journal of Human Development (IJHDIS)*, 7(1):31-51 [ISSN: 0974-3529].
- Biswas, S.K. and S. Bhattacharjee, 2006. Impact of Globalization on a Tribal Community, in V. B. Jugale and Y.V. Jugale (eds.) *The State of Indian Economy, Volume: I: Rethinking Globalization*: 200-214. Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2006. Effect of Land Alienation: A Study between a Scheduled caste and a Primitive Tribal Group, in S.H. Samel (ed.), *Rights of Dalit*, 89-114. Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2008. Impact of Ecological and Environmental Change on a Primitive Tribe, in V.B. Jugale (ed.) in *Demography, Economic Inequality, Women and Other Essays*, 252-271. Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2011. Depletion of Resources and It's Impact on Food, Nutrition and Health: An Anthropological Observation, in U.V. Somayajulu' C.P. Prakasam, N. Audinarayana and K.E.Vaidyanathan (eds.) *Health, Poverty and Human Development Perspectives and Issues*, 201-215. Global Research Publications, New Delhi.
- Chaudhuri, B. 1982. *Tribal Development in India: Problems and prospects*. New Delhi: Inter India, Publications.
- Chaudhuri, B. (2003), *Health, Forest and Development: The Tribal Situation*. New Delhi: Inter-India Publications.
- De, S. 2005, *Participatory Forest Management and Democratic Decentralisation in India: Focus On The Pioneer State*. Siliguri: N.L. Publishers.
- Fernandes, W. and Menon, G. 1987, *Tribal Women and Forest Economy: Deforestation and Status Change*. New Delhi: Indian Social Institute.
- Malhotra, R. 1992. *Anthropology of Development*. New Delhi: Mittal Publications.
- Majumder, D.N. 1936. *A tribe in Transition: A study in Culture Pattern*. London: Longmans Green & Company. .
- Office of the Commissioner for Scheduled Caste and Scheduled Tribes. *Handbook on Scheduled Caste and Scheduled Tribes (Paper-I)*
- Roy, S.C. 1915. *The Oraons Of Chhotanagpur*. Ranchi, Man in India Office Sachidananda and Singh, K.S. 1985. *Tribal Society in India*. New Delhi, Manohar.
- Singh, K.S. 1972. *Tribal Situation in India*. Simla, Indian Institute of Advance Study.
- Vidyarthi, L.P. 1980. *Applied Anthropology and Development*. New Delhi: National Publication.
- Vidyarthi, L.P. 1980. *Applied Anthropology and Development*. New Delhi: National Publication.
- Vidyarthi, L.P. and B.K. Rai 1985. *The tribal culture of India*. New Delhi: Concept Publ. Co.

**Module SCANTH 36: Tribal Development - II**

1. Indebtedness, bonded labour and forms of tribal exploitation, low literacy, unemployment, underemployment, health and nutrition- role of cooperatives and other financial institutions.
2. Impact of industrialization and urbanization.
3. Planning and Development: Education, house, health, roads and communication, agriculture etc.; Five Year Plans; SMPT Blocks, TD Blocks and Tribal Sub-Plans; IRDP, ITDP, TRIFED, LAMPS, etc., forest policy; poverty alleviation programmes. Role of NGOs. Tribal leadership. Development and displacement.
4. Role of anthropology in tribal and rural development

**Reading List:**

- Biswas, S.K. 2009. Socio-Economic Crisis and its Consequences on a Little Known Tribal Community in West Bengal, India, September, 2009, in E. Kolig, V. SM. Angeles and S. Wong (eds.) *Identity in Crossroad Civilisations*, 8:97-114. Amsterdam University Press, Amsterdam.
- Biswas, S.K. 2012. Ignorance, Exploitation and Poverty: A Case Study Among the Totos, in Dipak Midya (ed.) *Indigenous People in India: Identity, Empowerment and Discontent*, 111-119. APH Publishinh Corporatopn, New Delhi.
- Biswas, S.K. 2014 (January –June). Challenges of Tribal Livelihood: A Study with Special Rreference to North Bengal, *International Journal of Human Development (IJHDIS)*, 7(1):31-51 [ISSN: 0974-3529].
- Biswas, S.K. and A.K. Ghosh, 2011. Prevalence of Consanguinity and Offspring Mortality- An Observation among the Chunias in North Bengal, *Journal of the Anthropological Survey of India*, 60(2): 309 – 320.
- Biswas, S.K. and S. Bhattacharjee, 2006. Effect of Land Alienation: A Study between a Scheduled caste and a Primitive Tribal Group, in S.H. Samel (ed.), *Rights of Dalit*, 89-114. Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2008. Impact of Ecological and Environmental Change on a Primitive Tribe, in V.B. Jugale (ed.) in *Demography, Economic Inequality, Women and Other Essays*, 252-271. Serials Publications, New Delhi.
- Chaudhuri, B. 1982. *Tribal Development in India: Problems and prospects*. New Delhi: Inter India, Publications.
- Chaudhuri, B. (2003), *Health, Forest and Development: The Tribal Situation*. New Delhi: Inter-India Publications.
- De, S. 2005, *Participatory Forest Management and Democratic Decentralisation in India: Focus On The Pioneer State*. Siliguri: N.L. Publishers.
- Fernandes, W. and Menon, G. 1987, *Tribal Women and Forest Economy: Deforestation and Status Change*. New Delhi: Indian Social Institute.
- Malhotra, R. 1992. *Anthropology of Development*. New Delhi: Mittal Publications.
- Majumder, D.N. 1936. *A tribe in Transition: A study in Culture Pattern*. London: Longmans Green & Company. .
- Office of the Commissioner for Scheduled Caste and Scheduled Tribes. *Handbook on Scheduled Caste and Scheduled Tribes (Paper-I)*
- Roy, S.C. 1915. *The Oraons Of Chhotanagpur*. Ranchi, Man in India Office Sachidananda and Singh, K.S. 1985. *Tribal Society in India*. New Delhi, Manohar.

- Singh, K.S. 1972. *Tribal Situation in India*. Simla, Indian Institute of Advance Study.
- Vidyarthi, L.P. 1980. *Applied Anthropology and Development*. New Delhi: National Publication.
- Vidyarthi, L.P. 1980. *Applied Anthropology and Development*. New Delhi: National Publication.
- Vidyarthi, L.P. and B.K. Rai 1985. *The tribal culture of India*. New Delhi: Concept Publ. Company.

**COURSE 403A: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks=25)**

**Module SCANTH 37: Demography and Anthropology: Concepts and Theories**

1. Definition and Concept of Demography, History of Population Studies; Nature, Scope, Phases and Categories of Demography; Importance of Demography in Social-Cultural Anthropology.
2. Population theories- Malthusian theory, Theories of Optimum Population, Theory of Demographic Transition (O.P. Walker's and Karl Marx), Social and Economic theories (Dumont, Carr Saunders, Karl Marx).
3. Fundamental concepts - Still birth, Live birth, Foetal death, Child death, Family size, Parity, Birth order, Fertility and Fecundity, Mortality and Morbidity.

**Module SCANTH 38: Fertility and Mortality**

1. Concept and definition, Factors affecting Fertility, Fertility Rates and Ratios- CBR, GFR, ASFR, TFR, GRR.
2. Mortality analysis: Concept and definition, Factors affecting Mortality, Mortality Rates and Ratios- CDR, ASDR, Cause Specific Death Rates.

**Module SCANTH 39: Migration**

1. Definition, Historical Background, Reasons, Type of Migration.
2. Migration Stream, Migration Interval, Place of Origin and Place of Destination, Migrant.
3. Factors of Migration, Consequence of Migration.
4. Methods of Measuring Migration, Effects of Migration.

**Reading List:**

- Agarwal, S.N. 1960. *Indian Population*, Bombay: Asia pub. House
- Baker, P.T. and Sanders W.T. 1972 *Demographic Studies in Anthropology, Annual Review of anthropology*.
- Banerjee, D. 1971 *Family Planning in India-Problems and Prospects*, People Publ. House
- Chandra Sekhar, S. 1951 *India's Population- Facts and Policy*; Princeton : Princeton Univ.
- Cox, Peter, R. 1979 *Demography (5<sup>th</sup> ed.)*; New Delhi :Vikash pub. House,
- Lorimer F. 1954 *Culture and Fertility*, UNESCO, Paris
- Nag Mani 1979 *Factors Affecting Human Fertility on non-Industrial Society- A Cross Cultural Study*, Yale Univ. Publishing.
- Raj Hans 1996 *Fundamentals of Demography*, New Delhi: Surajeet Publications,

**COURSE 403B: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks=25)**

**Module SCANTH 40: Basic Concepts of Human Rights**

1. Definition, Attributes, Scope, Significance, Origin.
2. Characteristic feature of Human Rights with special reference to South-East Asian Countries.



### **Module SCANTH 41: Contextual Background of Human Rights**

1. International Declaration of Human Rights,
2. Promotion of Human Rights.

### **Module SCANTH 42: Indigenous Rights and Other Issues**

1. Environmental Rights, Indigenous Rights, Intellectual Property Rights, Cultural Rights.
2. Women Rights, Child Rights.
3. Health Rights, Poverty and Human Rights.

### **Module SCANTH 43: Emerging Consequences and Implementations**

1. Protection and Violation of Human Rights.
2. Conflict and Conflict Resolutions.
3. Ethnicity, Insurgencies, Ethnic Violence and Human Rights.

#### **Reading List:**

Amensty International 1984 *File on Torture*, London

Chauhan S.R. and N.S. Chauhan 2006 *International Dimension of the Human Rights (Vol.1-3)*,  
New Delhi : Global Vision Publishing House,

Claude, Richard Pierre and B.H. Weston (eds.) 1992 *Human Rights in the World Community: Issues and Action*, Philadelphia, PA, USA University of Pennsylvania Press

Crenshaw, Martha and John Pimlott (eds.) 1997 *Encyclopedia of World Terrorism*, Armonk,  
New York, Sharp Reference

Mann, Jonathan, (et al.) 1994 Health and Human Rights, *Health and Human Rights I, No.1* pp-6-23

Tarafdar, P. 2008 Rights to Health: The Tribal Situation, *Indian Anthropologist*, Vol. 38, No. 1,

Thorne, Melissa 1991 Establishing Environment as a Human Right. *Denver Journal of International Law and Policy* pp 301-342

UNICEF 1991 *International Child Development Centre, The Convention: Child Rights and UNICEF Experience at the country Level*, Florence, Italy

United Nations 1990 *Application of the International Standards concerning the Human Rights of Detained Juveniles*, New York

### **COURSE 404A: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks=25)**

### **Module SCANTH 44: Environment, Development and Culture of Peace - I**

1. Environment and Ecology: Concept of environment, ecology, social ecology, cultural ecology. Relation among society, nature and culture. Tribal socio-cultural system and environment; totem and environment; and role of nature in tribal festivals.
2. Environmental Issues: Environmental degradation; environmental and manmade problems-pollution, floods, soil erosion, landslide, earthquakes, etc. and its socio-economic consequences. Anthropology of disaster management.

#### **Reading List:**

Benedict, R. 1934. *Patterns of Culture*. New York: Houghton Mifflin.

Berremann, G.D. 1979: *Caste and Other Inequalities* Meerut Folklore Institute.

Beteille, Andre (ed.). 1969: *Social Inequality*. London: Penguin Books.

Beteille, Andre 1971: *Inequality among Men*. Delhi: Oxford University Press.

Beteille, Andre 1983: *The Idea of Natural Inequality and Other Essays*. Delhi: Oxford University Press

- Bharucha, E. (2005), *Environmental Studies*. Hyderabad: Universities: Press Pvt. Ltd.
- Biswas, S.K. 2008. Forest in Tribal Life: Some Observation on Totos in Jalpaiguri District of West Bengal, *North Bengal Anthropologist*, 1(1): 1-9. Department of Anthropology, University of North Bengal, Darjeeling.
- Biswas, S.K. 2009. Socio-Economic Crisis and Its Consequences on a Little Known Tribal Community in West Bengal, India, September, 2009, in E. Kolig, V. SM. Angeles and S. Wong (eds.) *Identity in Crossroad Civilisations*, 8:97-114. Amsterdam University Press, Amsterdam.
- Biswas, S.K. and S. Bhattacharjee, 2009. Folk Culture of North Bengal Tribes, in A.K. Danda, R.K. Mutatkar and D.K. Midya (eds.) *Essay on Cultural Anthropology*, 316-334. Indian National Confederation and Academy of Anthropologists, Jhargram and Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal.
- Biswas, S.K. 2012. Ignorance, Exploitation and Poverty: A Case Study Among the Totos, in Dipak Midya (ed.) *Indigenous People in India: Identity, Empowerment and Discontent*, 111-119. APH Publishinh Corporatopn, New Delhi.
- Biswas, S.K. 2012. *Suicide: An Anthropological Study at Sagar Block, West Bengal*, in S. Biswas, et al., (eds.) *Human Health: A Bio-cultural Synthesis*, 85-99. Cosmo New Delhi.
- Biswas, S.K. 2012. *Environmental Degradation and Its Impact on Human Society with Special Reference to Suicide*, in B. Chaudhuri (ed.) *Human Rights*, 150-160. Zhishi Chanquan Publishing House, China, in Huang Zhongcai (Editor in Chief), *Anthropology and Ethnology Today Series*; Book series of the 16<sup>th</sup> World Congress of IUAES.
- Biswas, S.K. 2014 (January –June). Challenges of Tribal Livelihood: A Study with Special Rreference to North Bengal, *International Journal of Human Development .....* (*IJHDIS*), 7(1):31-51 [ISSN: 0974-3529].
- Biswas, S.K. and A. Das Gupta, 2013. Migration: An Anthropological Perspectives with Special Reference To North Bengal, India, in K.K. Bagchi (ed.) *Internal Migration in India Nature, Determinants and Consequences, Vol. II:631-657*. Abhijeet Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2006. Impact of Globalization on a Tribal Community, in V. B. Jugale and Y.V. Jugale (eds.) *The State of Indian Economy, Volume: I: Rethinking Globalization*: 200-214; Serials Publications, New Delhi.
- Chaudhuri, B. & A. K. Maiti (eds.) (1989), *Forest and Forest Development in India*. New Delhi: Inter India Publications.
- Chaudhuri, B. (1990), *Culture and Environmental Dimension on Health*. New Delhi: Inter India Publications.
- Chaudhuri, B. (2003), *Health, Forest and Development: The Tribal Situation*. New Delhi: Inter-India Publications.
- Chauhan, I.S. & A. Chauhan. 1998, *Environmental Degradation*, Jaipur: Rawat Publications.
- Divan, S. & A. Rosencranaz, 2007 *Environmental Law and Policy in India*. New Delhi: Oxford University Press
- Fernandes, W. and Menon, G. 1987, *Tribal Women and Forest Economy: Deforestation and Status Change*. New Delhi: Indian Social Institute.
- Forde, C. Daryll. 1971, *Habitat, Economy and Society*. London: Methuen & Co. Ltd.
- Gadgil, M. & Guha, R. 2006, *The Fissured Land*. New Delhi: Oxford University Press.
- Gadgil, M. & R.Guha, 2007, *The Use and Abuse of Nature*. New Delhi: Oxford University Press.
- Gerasimov, I.P. et.al. 1975. *Man Society and the Environment*. Moscow: Progress Publishers.
- Guha, R. 2006, *Social Ecology*. New Delhi: Oxford University Press.
- Jha, V. C. (ed.) 2003, *Land Degradation and Desertification*. Jaipur: Rawat Publications.

- Joshi, M.V. 2004, *Environmental Disaster: Causes, Impact and Remedies*. Delhi: Adhyayan Publishers & Distributers.
- Jullian Steward. *Theory of culture change*. Hartcourt Brace College Pub. London.
- Kalita, M.K. 2007, *Introduction to Environmental Studies*. New Delhi: Asian Books Pvt. Ltd.
- Marsh, W.M. & J.M. Grossa, J.R. 2002, *Environmental Geography*. New York: John Wiley & Sons, INC.
- Moore, R. 1975, *Man in the Environment*. New York: Alfred A. Knope.
- Sinha, P.C. (ed.) 1998, *Costal and Marine Disasters*. New Delhi: Anmol Publications Pvt. Ltd.
- Mukherjee, Radhakamal. 1968, *Man and His Environment: A Study in Social Ecology*. Bombay, Bombay Popular Prakashan.
- Narayan, S. 2000, *Anthropology of Disaster Management*. New Delhi: Gyan Publishing House.
- Pramanik, S.K. 1993, *Fisher Men Community of Costal Villages in West Bengal*. Jaipur: Rawat Publications.
- Rajagopalan, R. 2006, *Environmental Studies*. New Delhi: Oxford University Press.
- Satyanarayana, G. 1999, *Development Displacement and Rehabilitation*. Jaipur: Rawat Publications.
- Saxena, H.M. 2004, *Environmental Geography*. Jaipur: Rawat Publications.
- Sengupta, R. 2001, *Ecology and Economics*. New Delhi: Oxford University Press.
- Shrivastava, A.K 2007, *Global Warming*. New Delhi: A.P.H Publishing Corporation.
- Shukla, S.K. & P.R. Srivastva. 1992, *Human Environment an Analysis*. New Delhi: Commonwealth Publishers.
- Singh, I.P. & S.C. Tiwari. (eds.) 1980, *Man and his Environment*. New Delhi: Concept Publishing Company.
- Sinha, U.K. 1986, *Ganga Pollution and Health Hazards*. New Delhi: Inter India Publications.
- Suresh, G. 2007 *Environmental Studies and Ethics*. New Delhi: J. K. International Publishing House.
- Trivedi, P.R. & G. Raj. 1997, *Man and Environment*. New Delhi: Akashdeep Publishing House.
- Vidyarthi, L.P. & B.K. Rai 1976, *The Tribal Culture of India*. New Delhi: Concept Publishing Company.
- White Leslie. 1949. *The Science of Culture*. New York: Grove Press.
- Wissler, C. 1926. *The Relation of Nature to Man in Aboriginal America*. New York: Oxford University press.
- Zuckerman, B. & D. Jefferson. 1990, *Human Population and the Environmental Crisis*. Boston: Jones & Bartlett Publishers.

**COURSE 404B: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks=25)**

**Module SCANTH 45: Environment, Development and Culture of Peace - II**

1. Environment, People and Natural resources: Environmental degradation/hazards and human impact on the natural environment- displacement, rehabilitation and resettlement; deforestation and afforestation; resource depletion and over exploitation of natural resources-political disturbances, migration and adaptation, culture in conflicts, regionalism, identity crisis, social disorganization, ethnicity, ethnic conflicts/violence, unrest among tribal communities.
2. Contribution of anthropology to the understanding of human insecurity, inequality, violation of basic human rights, regionalism, communalism and ethnic and political movements.

3. Development and Environment, Harmony and Conflict: Nature and culture, human security, inequality to equality, cultural clash– conflict resolution and peace; development and environment – harmony and conflict, the issue of sustainable development.

**Reading List:**

- Benedict, R. 1934. *Patterns of Culture*. New York: Houghton Mifflin.
- Berremen, G.D. 1979: *Caste and Other Inequalities* Meerut Folklore Institute.
- Beteille, Andre (ed.). 1969: *Social Inequality*. London: Penguin Books.
- Beteille, Andre 1971: *Inequality among Men*. Delhi: Oxford University Press.
- Beteille, Andre 1983: *The Idea of Natural Inequality and Other Essays*. Delhi: Oxford University Press
- Bharucha, E. (2005), *Environmental Studies*. Hyderabad: Universities: Press Pvt. Ltd.
- Biswas, S.K. 2005. 'Asantosh Karan'(in Bengali), in Goutam Roy (ed.), 'Santras', 81-93. Baitanik Patrika Goshthi, Siliguri.
- Biswas, S.K. 2007. Culture and Peace: The Major Constraint in Indian Society, *Indian Journal of Human Rights and Social Justice*, 2(1-2): 137-152.
- Biswas, S.K. 2008. Anthropology and HIV/AIDS: Critical Issues and Challenges in A Vulnerable Region of North Bengal, in G.R. Krishnamurthy, A.K. Singh and S.K. Bajpai (eds.) *Indian Health Scenario Perspectives and Dimensions* (P:145-171). Serials Publications, New Delhi.
- Biswas, S.K. 2009. Socio-Economic Crisis and Its Consequences on a Little Known Tribal Community in West Bengal, India, September, 2009, in E. Kolig, V. SM. Angeles and S. Wong (eds.) *Identity in Crossroad Civilisations*, 8:97-114. Amsterdam University Press, Amsterdam.
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- Biswas, S.K. 2013. Partition, Displacement and Social Exclusion, *Nrtattv The Anthropology*, 3(4):123-136.
- Biswas, S.K. and S. Bhattacharjee, 2006. Effect of Land Alienation: A Study between a Scheduled caste and a Primitive Tribal Group, in S.H. Samel (ed.), *Rights of Dalit*, 89-114. Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2006. Impact of Globalization on a Tribal Community, in V. B. Jugale and Y.V. Jugale (eds.) *The State of Indian Economy, Volume: I: Rethinking Globalization*: 200-214; Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2008. Impact of Ecological and Environmental Change on a Primitive Tribe, in V.B. Jugale (ed.) in *Demography, Economic Inequality, Women and Other Essays*, 252-271. Serials Publications, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2010. Folk Culture in Front of Serious Challenge: A Case Study on the Tribes of North Bengal, in P. Chakravorty and N. Gupta (eds.) *Dance Matters*,: 40-54. Routledge Taylor & Francis Group, New Delhi.
- Biswas, S.K. and S. Bhattacharjee, 2011. Depletion of Resources and It's Impact on Food, Nutrition and Health: An Anthropological Observation, in U.V. Somayajulu' C.P. Prakasam, N. Audinarayana and K.E.Vaidyanathan (eds.) *Health, Poverty and Human Development Perspectives and Issues*, 201-215. Global Research Publications, New Delhi.
- Chaudhuri, B. & A. K. Maiti (eds.) (1989), *Forest and Forest Development in India*. New Delhi: Inter India Publications.
- Chaudhuri, B. (1990), *Culture and Environmental Dimension on Health*. New Delhi: Inter India Publications.

- Chaudhuri, B. (2003), *Health, Forest and Development: The Tribal Situation*. New Delhi: Inter-India Publications.
- Chauhan, I.S. & A. Chauhan. 1998, *Environmental Degradation*, Jaipur: Rawat Publications.
- Divan, S. & A. Rosencranz, 2007 *Environmental Law and Policy in India*. New Delhi: Oxford University Press
- Fernandes, W. and Menon, G. 1987, *Tribal Women and Forest Economy: Deforestation and Status Change*. New Delhi: Indian Social Institute.
- Forde, C. Daryll. 1971, *Habitat, Economy and Society*. London: Methuen & Co. Ltd.
- Gadgil, M. & Guha, R. 2006, *The Fissured Land*. New Delhi: Oxford University Press.
- Gadgil, M. & R.Guha, 2007, *The Use and Abuse of Nature*. New Delhi: Oxford University Press.
- Gerasimov, I.P. et.al. 1975. *Man Society and the Environment*. Moscow: Progress Publishers.
- Guha, R. 2006, *Social Ecology*. New Delhi: Oxford University Press.
- Jha, V. C. (ed.) 2003, *Land Degradation and Desertification*. Jaipur: Rawat Publications.
- Joshi, M.V. 2004, *Environmental Disaster: Causes, Impact and Remedies*. Delhi: Adhyayan Publishers & Distributers.
- Jullian Steward. *Theory of culture change*. Hartcourt Brace College Pub. London.
- Kalita, M.K. 2007, *Introduction to Environmental Studies*. New Delhi: Asian Books Pvt. Ltd.
- Marsh, W.M. & J.M. Grossa, J.R. 2002, *Environmental Geography*. New York: John Wiley & Sons, INC.
- Moore, R. 1975, *Man in the Environment*. New York: Alfred A. Knope.
- Sinha, P.C. (ed.) 1998, *Costal and Marine Disasters*. New Delhi: Anmol Publications Pvt. Ltd.
- Mukherjee, Radhakamal. 1968, *Man and His Environment: A Study in Social Ecology*. Bombay, Bombay Popular Prakashan.
- Narayan, S. 2000, *Anthropology of Disaster Management*. New Delhi: Gyan Publishing House.
- Pramanik, S.K. 1993, *Fisher Men Community of Costal Villages in West Bengal*. Jaipur: Rawat Publications.
- Rajagopalan, R. 2006, *Environmental Studies*. New Delhi: Oxford University Press.
- Satyanarayana, G. 1999, *Development Displacement and Rehabilitation*. Jaipur: Rawat Publications.
- Saxena, H.M. 2004, *Environmental Geography*. Jaipur: Rawat Publications.
- Sengupta, R. 2001, *Ecology and Economics*. New Delhi: Oxford University Press.
- Shrivastava, A.K 2007, *Global Warming*. New Delhi: A.P.H Publishing Corporation.
- Shukla, S.K. & P.R. Srivastva. 1992, *Human Environment an Analysis*. New Delhi: Commonwealth Publishers.
- Singh, I.P. & S.C. Tiwari. (eds.) 1980, *Man and his Environment*. New Delhi: Concept Publishing Company.
- Sinha, U.K. 1986, *Ganga Pollution and Health Hazards*. New Delhi: Inter India Publications.
- Suresh, G. 2007 *Environmental Studies and Ethics*. New Delhi: J. K. International Publishing House.
- Trivedi, P.R. & G. Raj. 1997, *Man and Environment*. New Delhi: Akashdeep Publishing House.
- Vidyarthi, L.P. & B.K. Rai 1976, *The Tribal Culture of India*. New Delhi: Concept Publishing Company.
- White Leslie. 1949. *The Science of Culture*. New York: Grove Press.
- Wissler, C. 1926. *The Relation of Nature to Man in Aboriginal America*. New York: Oxford University press.
- Zuckerman, B. & D. Jefferson. 1990, *Human Population and the Environmental Crisis*. Boston: Jones & Bartlett Publishers.

**Module SCANTH 46: Tribal India**

1. Concept, definition, characteristic features, distribution of tribes and social organization of the tribes in Indian context.
2. Tribal India: A dimension of Indian society, culture and civilization
3. Social and Cultural changes in the tribes of India: Tribe-non tribe interaction, religious conversions, effect of modern education, technology, economic, political, Industrialization and urbanization factors, Constitutional safeguards etc.
4. Issues of Tribal Rights: Forest, land water, natural resources, food, shelter, education, health, politics and law, social justice, etc. Position in politics, administration, law and democracy, decision and policy making, economy etc.

**Reading List**

- Bhandari, J. S., and Subhadra Channa. 1997. *Tribes and government policies*. New Delhi: Cosmo Publications.
- Biswas, S.K. 2013. Perspectives of Tribal Livelihood: Issues and Challenges in the present Era, *Humankind*, 2013-14, 9-10: 111- 126.
- Biswas S.K. (2014). A Tribe in Transition: Study on Plain Land Rabhas, July, 2014, *Bulletin of the Cultural Research Institute*, XXV (1 & 2): 30 – 42. Cultural Research Institute, Govt. of West Bengal, Kolkata.
- Biswas, S.K. and Biswanath Gan, March, 2015. The Issues of Child Rights: A Case Study, *North Bengal Anthropologist annually*, 3:127-137.
- Biswas, Samar Kumar and Biswanath Gan, March, 2016. Conflict, Tension and Violence of Human Rights in West Bengal, India with Special Reference to Lalgargh, West Medinipur, *North Bengal Anthropologist annually*, 3:127-137.
- Biswas, S.K. and A. Das Gupta, (2013). Migration: An Anthropological Perspectives with Special Reference To North Bengal, India, September 2013 in K.K. Bagchi (ed.) *Internal Migration in India Nature, Determinants and Consequences*, Vol. II:631-657. Abhijeet Publications, New Delhi.
- Biswas, S.K. (2008). Forest in Tribal Life: Some Observation on Totos in Jalpaiguri District of West Bengal, March, 2008, *North Bengal Anthropologist*, 1(1): 1-9. Department of Anthropology, University of North Bengal, Darjeeling.
- Chaudhuri, B. 1982. *Tribal Development in India: Problems and prospects*. New Delhi: Inter India, Publications.
- Chaudhuri, B. (2003), *Health, Forest and Development: The Tribal Situation*. New Delhi: Inter-India Publications.
- Fu'rer-Haimendorf, Christoph von. 1985. *Tribal populations and cultures of the Indian subcontinent*.
- Ghosh, A.K. and Samar Kumar Biswas, March, 2015. The Jarawa (Ang) Territory: Historical Manifestation and Contextual Situations in Andaman Islands, *North Bengal Anthropologist annually*, 3:1-16.
- Ghosh, Amit Kumar and Samar Kumar Biswas. March, 2016. The Jarawa (Ang) in Transition: Theoretical Appraisal and Empirical Issues, *North Bengal Anthropologist annually*, 4:1-9.
- Handbuch der Orientalistik, 7. Bd.-Leiden: E.J. Brill.
- Hardiman, David. 2008. *Missionaries and their medicine: a Christian modernity for tribal India*. Manchester: Manchester University Press.
- Singh, K.S. 1972. *Tribal Situation in India*. Simla, Indian Institute of Advance Study

- Singh, K.S. 1985. *Tribal Society in India*. New Delhi, Manohar.
- Vidyarthi, L.P. 1980. *Applied Anthropology and Development*. New Delhi: National Publication.
- Vidyarthi, L.P. 1980. *Applied Anthropology and Development*. New Delhi: National Publication.
- Vidyarthi, L.P. and B.K. Rai 1985. *The tribal culture of India*. New Delhi: Concept Publ. Company.

**COURSE 405B: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 1 (Marks=25)**

**Module SCANTH 47: Emerging Medical Anthropology**

1. Clinical medical anthropology, Health Services and role of anthropology; HIV/AIDS, TB, Sexual and Reproductive Health; Roles of International and National Health Organisations, NGOs.
2. Anthropology and Social Work in the perspective of Cultural Dimensions on Health: Crime, Trafficking, 'Sex Work', Women, Gender, Transgender, Labour, Refugee, Environment; Gerontology and Anthropology.
3. Queer Anthropology: Concept and Consequences, World and Indian Perspective.

**Reading List**

- Dave, Naisargi, 2012. *Queer Activism in India: A Story in the Anthropology of Ethics*, Durham: Duke University Press.
- Feldman, Douglas A (ed.) (2008), *AIDS, Culture, and Africa*, Gainesville, F.L. University Press of Florida.
- Foucault, Michel, 1978. *The History of Sexuality, Vol, 1: An Introduction*, New York: Vintage Books.
- Michel J. (2008). *Physiology of Exercise and Healthy Aging*, Human Kinetics.
- Kulick, Don (1998). *Travesti: Sex, Gender and Culture among Brazilian Transgendered Prostitute*. Chicago: University of Chicago Press.
- Scheidt, Rick J.; Schwarz, Benyamin (2013), *Environmental Gerontology, What Now?*. New York: Routledge

**COURSE 406: SOCIAL CULTURAL ANTHROPOLOGY**

**Credit: 4 (Marks=100)**

**Module PSCANTH 3: Dissertation**

1. Dissertation paper based on fieldwork

**COURSE 407: CONTINUING EVALUATION**

**Credits: 4 (Marks= 100)**

**COURSE 407 / UNIT – I CONTINUING EVALUATION**

**(Full marks: 40)**

1. Group Discussion

**COURSE 407 / UNIT –II CONTINUING EVALUATION**

**(Full marks: 30)**

Term Paper

**COURSE 407/ UNIT – III:**

**(Full marks: 30)**

1. Comprehensive Viva-voce

**M. Sc. Anthropology**  
**4<sup>th</sup> Semester**

**(GROUP – B: CORE AND ELECTIVE COURSES IN PHYSICAL ANTHROPOLOGY)**

**COURSE 401A: PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 21: Demography**

1. Definition and importance of demographic studies; sampling methods
2. Demographic methods: population census; NSSO; vital statistics or registration of vital events; population register.
3. Population theories of Malthus, Dumont and Sadler
4. Demographic transition
5. Fertility, fecundity and fertility rate
6. Mortality, morbidity
7. Migration: definition, causes and problems
8. Anthropological demography; palaeodemography.

**Reading List:**

- Barclay George W 1958. *Techniques of Population Analysis*. New York: John Willey & Sons.
- Bogue DJ 1969. *Principles of Demography*. New York: John Willey & Sons.
- Car Saunders A.M 1992. *The Population Problem: A Study in Human Evolution*. Oxford: The Clarendon Press.
- Cox Peter R 1990. *Demography 5<sup>th</sup> edition*. New Delhi: Universal Book.
- Harrison, G. A. and Boyce, A. J. 1972, *The Structure of Human Population*, Oxford: Clarendon
- Kertzer D. I. and Fricke T. 1997. *Anthropological Demography: Toward a New Synthesis*. Chicago: The University of Chicago Press.
- Raj Hans 1978. *Fundamentals of Demography*. Delhi: Surjeet Publication.
- Swedlund, A. C. and Armelagos, G. T., 1976, *Demographic Anthropology*, Dubuque: W. C. Brown.

**COURSE 401B: PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 22: Human Auxology**

1. Factors affecting menarche and menopause
2. Senescence and aging: theories of aging; effects of aging
3. Introduction to gerontology
4. Somatotyping: Sheldon and Heath-Carter methods
5. Growth standards and references: historical development; NCHS, CDC and WHO-MRGS growth charts and references

**Reading List:**

- Bogin Barry 1999. *Patterns of Human Growth*. Cambridge: Cambridge University Press.
- Carter JE Lindsey and Heath Barbara Honeyman 2005. *Somatotyping: Development and Application*. Cambridge: Cambridge University Press.



- Carter JEL 1980. *The Heath-Carter Somatotype Method 3<sup>rd</sup> edition*. San Diego: San Diego State University Syllabus Service.
- Jurmain Robert, Nelson Harry, Kilgore Lynn and Trevathan Wenda 2000. *Essentials of Physical Anthropology*. Belmont: Wadsworth Thompson Learning.
- Roche, A. F. 1992, *Growth, Malnutrition and Body Composition*, Cambridge: Cambridge University Press.
- Tanner JM 1990. *Foetus into Man: Physical Growth from Conception to Maturity*. Harvard: Harvard University Press.
- Tanner, J. M. 1962, *Growth of Adolescence*, Oxford: Blackwell.
- Thompson, J. 1980, *On Growth and Form*, Cambridge: Cambridge University Press.
- Ulijaszek, S. L. Johnston, F. E. and Preece, M. A. 1998, *The Cambridge Encyclopedia of Human Growth and Development*, Cambridge: Cambridge University Press.

**COURSE 402A: PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 23: Human Nutrition**

1. Nutritive and caloric value of foods, role of vitamins and minerals in human nutrition vitamins A, B, C, D, P and K; minerals: iron, calcium and zinc.
2. Effects of toxic elements (lead, arsenic, mercury and cadmium) on humans.
3. Assessment of nutritional status in man; anthropometric indicators, biochemical and trace element indicators of nutritional status.
4. Anaemia, iodine and zinc deficiency human populations.

**Reading List:**

- Harrison GA, Weiner JS, Tanner JM, Barnicot NA. 1964. *Human Biology: an Introduction to Human Evolution, Variation and Growth*. London: Oxford University Press.
- Marieb EN. 2006. *Human Anatomy and Physiology*. Delhi: Pearson Education.
- Rennert OM, Chan WY, Chan W (eds.). 1984. *Metabolism of Trace Metals in Man: Genetic Implications*. Boca Raton: CRC Press.
- Roche, A. F. 1992, *Growth, Malnutrition and Body Composition*, Cambridge: Cambridge University Press.
- Wardlaw GM, Insel PM. 1996. *Perspectives in Nutrition*. Boston: Mosby

**COURSE 402B: PHYSICAL ANTHROPOLOGY**

**Credit: 1 (Marks= 25)**

**Module PHYANTH 24: Primatology**

1. Primate evolution with special reference to skull, jaws, dentition, brain and foot.
2. Development of primate speech
3. Primate behaviour: basic concepts; behaviour of chimpanzee and baboon
4. Primates in biomedical research

**Module PHYANTH 25: Human Evolution**

1. Theories of human evolution: “Out-of-Africa” model and Multi-regional model
2. Ancient DNA: brief concept.
3. Fossil finds: Java, Choukoutain, La-Chapelle-aux-Saints, Cro-Magnon
4. Transitional finds: Kabwe, Steinheim, Swanscombe.

**Reading List:**

- Nelson H, Jurmain R. 1985. *Introduction to Physical Anthropology*. San Francisco: West Publishing Company.
- Campbell BJ. 1985. *Human Evolution: An Introduction to Man's Adaptations*. New York: Aldine.
- Campbell CJ, Bearder S, Agustin F. (eds.) 2006. *Primates in Perspective*. London Oxford University Press.
- Conroy GC. 1997. *Reconstructing Human Origins ---- A Modern Synthesis*. New York: W.W.Norton and Company.
- Day MH. 1986. *Guide to Fossil Man*. Chicago: University of Chicago Press,
- Jurmain R, Nelson H, Kilgore L, Trevathan W. 1999. *Introduction to Physical Anthropology*. Belmont: Wadsworth.

**COURSE 403A: PHYSICAL ANTHROPOLOGY****Credit: 1 (Marks= 25)****Module PHYANTH 26: Forensic Anthropology**

1. Brief history, outline
2. Personal identification: dermatoglyphics and blood
3. Sex differences in skull and pelvis; estimation of stature from long bones and from foot and hand dimensions.
4. Age estimation using sutures, radiological age
5. Hair: ABO blood group; determination, drug abuse
6. Role of trace elements in forensic anthropology
7. Palaeopathology, trauma and taphonomy

**Reading List:**

- Byers SN. 2007. *Introduction to Forensic Anthropology*. New York: Allyn and Bacon.
- Jurmain R, Nelson H, Kilgore L, Trevathan W. 1999, *Introduction to Physical Anthropology*. Belmont: Wadsworth.
- Klepinger LL. 2006. *Fundamentals of Forensic Anthropology*. New York: Wiley-Liss.
- Pickering R. 1996. *Use of Forensic Anthropology*. Boca Raton: CC Press.
- Poddar S, Bhagat A. 1987. *Handbook of Osteology*. Patna: Scientific Book Co.

**COURSE 403B: PHYSICAL ANTHROPOLOGY****Credit: 1 (Marks= 25)****Module PHYANTH 27: Human Ecology and Adaptation**

1. Physical environment: the potential stressors, the nutritional stress, infections, diseases, modernization and human biological responses; Allen's rule; Bergman's rule
2. The utility of anthropology in studying ethnicity and health
3. Ethnic factors in health and disease, ethnic differences in the prevalence of common diseases of complex aetiology: coronary heart disease (CHD), non-insulin dependent diabetes mellitus (NIDDM) and hypertension (HT); reproductive health and ethnic differences.

**Module PHYANTH 28: Applied Human Genetics**

1. Genetic counseling: single-gene disorder, complex disorder and the potential effect of genetic counseling.
2. Genetic screening

**Reading List:**

- Harrison GA, Weiner JS, Tanner JM, Barnicot NA. 1964. *Human Biology: an Introduction to Human Evolution, Variation and Growth*. London: Oxford University Press.
- Marieb EN. 2006. *Human Anatomy and Physiology*. Delhi: Pearson Education.
- Moran EF. 2007. *Human Adaptability an Introduction to Ecological Anthropology*. Colorado: Westview Press.
- Thompson, J. S. and Thompson, M. W. 1968, *Genetics in Medicine*, Philadelphia: W. B. Saunders.
- Vogel, F. and Motulsky, A. G., 1986, *Human Genetics: Problems and Approaches*, Berlin: Springer Verlag

**COURSE 404A: PHYSICAL ANTHROPOLOGY****Credit: 1 (Marks= 25)****Module PHYANTH 29: Advanced forensic anthropology**

1. Dermatoglyphics: Application of Dermatoglyphics in crime investigation, including personal identification from finger prints. Latent prints: methods of development and identification; elementary method of classification in Fingerprint Bureau.
2. Hair: Morphology of hair, distinction between human and animal hair.
3. Differentiation of scalp, body and pubic hair.
4. Forensic serology: Nature of human blood; identification of blood stain and determination of its species and blood group; identification of seminal stains.
5. Human engineering: Seats, work space and gear

**Reading List:**

- Bayers, S.N.(2004). *Introduction to Forensic Anthropology: A Textbook* 2nd Ed. Boston: Allyn and Bacon.
- Burns K.R. (2007). *Forensic Anthropology Training Manual* 2nd Ed. New Jersey: Prentice Hall Inc.
- Cummins H. and Midlo, C. (1961). *Fingerprints, Palm and Sole – An Introduction to Dermatoglyphics*. New York: Dover

**COURSE 404B: PHYSICAL ANTHROPOLOGY****Credit: 1 (Marks= 25)****Module PHYANTH 30: Palaedemography**

1. Demography of early human population—Palaeopathology-traumatism, malformation and non-specific osteological variables (i.e. osteoarthritis, spondylitis, rickets, symmetrical osteoporosis and tumors), dental pathology.
2. Palaedemography – skeletal analysis and determination of demographic variable in Prehistoric populations (i.e., migration, fertility, morbidity and mortality) and post-neolithic population growth.

**Reading List**

- Brace, C.L. and Montagu, M.F.A. (1977). *Human Evolution: An Introduction to Biological Anthropology* (Macmillian Company, New York)
- Buttner Janusch, J. (1980). *Origins of Man*, New York: John Wiley.

Kennedy, G.E. (1980). *Palaeoanthropology*. McGraw Hill, New York.

Poirier, F.E. (1981). *In Search of Ourselves: An Introduction to Physical Anthropology*. Burgess Publishing Company, Minneapolis Minnesota.

**COURSE 405: PRACTICAL**

**Credits: 2 (Marks= 50)**

**Module PRPHYANTH 7: Biostatistics**

1. Frequency distributions of qualitative, discontinuous and continuous variables; graphs: bar, pie chart, histogram and polygon.
2. Descriptive statistics: measures of dispersion; range, standard deviation; co-efficient of variation.
3. Sampling: definition and uses; types of sampling: random, stratified.
4. Probability
5. Hypothesis testing: principles of hypothesis testing, errors in hypothesis testing, hypothesis testing with z scores, one and two tail hypothesis tests, hypothesis testing with t distribution.
6. Differences between two means: un-paired and paired t test, analysis of variance (ANOVA).
7. Non-parametric comparison of samples: Mann-Whitney U test.
8. Regression and correlation analysis: Pearson coefficient; regression equation.
9. Chi-square test for goodness-of-fit and independence of association, Yates correction.

**Reading List:**

Bailey, N. T. J. 1959, *Statistical Methods in Biology*, Oxford: Oxford University Press.

Campbell, R. 1967, *Statistics for Biology*, London: Longmans.

Dawson- Saunders, B. and Trapp, R. G. 1994, *Basic and Clinical Biostatistics*, Norwalk: Appleton

Gerber, A. 2004, *Using SPSS for Windows*, Springer.

Madrigal L 1998. *Statistics for Anthropology*. Cambridge: Cambridge University Press.

Norusis, M.J. 1993, *SPSS for Windows, Base System User Guide*, Chicago, SPSS Inc.

Rajaraman, V. 1999, *Fundamentals of Computers*, New Delhi, Prentice Hall.

Rosner Bernard 2000. *Fundamentals of Biostatistics*. Pacific Grove: Duxbury Thompson Learning.

***COURSE 406: PHYANTH***

**Credits: 4 (Marks= 100)**

**Module PRPHYANTH 8: Dissertation**

1. Dissertation paper based on fieldwork/laboratory study

***COURSE 407: CONTINUING EVALUATION***

**Credits: 4 (Marks= 100)**

***COURSE 407 / UNIT – I CONTINUING EVALUATION***

**(Full marks: 40)**

1. Class test

***COURSE 407 / UNIT –II CONTINUING EVALUATION***

**(Full marks: 30)**

1. Book review

***COURSE 407/ UNIT – III CONTINUING EVALUATION***

**(Full marks: 30)**

1. Comprehensive *Viva-voce*.