

# **CURRICULUM**

**UNDER CHOICE BASED CREDIT SYSTEM**

(w.e.f session 2016-2017)

**MASTER OF ARTS (MA)/ MASTER OF SCIENCE (MSc)  
PROGRAMME**

**IN**

**Anthropology & Tribal Studies**

**SIDHO-KANHO-BIRSHA UNIVERSITY  
PURULIA, WEST BENGAL**

# SIDHO-KANHO-BIRSHA UNIVERSITY

## Curriculum

### MASTER OF ARTS (MA)/ MASTER OF SCIENCE (MSc) PROGRAMME IN

### ANTHROPOLOGY & TRIBAL STUDIES

(w.e.f academic session: 2016-2017)

	Course Code	Course Title	Credit	Marks
<b>SEM-1</b>	MANTCCT101	General Anthropology	4	40+10
	MANTCCT102	History and Development of Anthropology	4	40+10
	MANTCCT103	Biological Anthropology	4	40+10
	MANTCCT104	Prehistoric Archaeology	4	40+10
	MANTCCT105	Social and Cultural Anthropology	4	40+10
	MANTCCS106	Practical works on Prehistoric Archaeology	4	50
<b>SEM-2</b>	MANTCCT201	Society, Culture and Civilization	4	40+10
	MANTCCT202	Biological basis of life and Human Evolution	4	40+10
	MANTCCT203	Statistical Application in Anthropology	4	40+10
	MANTCCT204	Research Methodology	4	40+10
	MANTCCT205	Tribes in India	4	40+10
	MANTCCS206	Ethnographic Field Work on Tribes	4	50
<b>SEM-3</b>	MANTCCT301	Anthropology of Development	4	40+10
	MANTCCT302	Indian Anthropology	4	40+10
	MANTMET303	Major Elective Paper from A or B Group	4	40+10
	MANTOET304	OPEN ELECTIVE	4	50
	MANTCCS305	Practical on Biological Anthropology	4	50
	MANTOPS306	OUTREACH PROGRAMME	4	50
<b>SEM-4</b>	MANTCCT401	Ecology, Demography and Health	4	40+10
	MANTMET402	Major Elective Paper from A or B Group	4	40+10
	MANTACT403	ADD-On Course	4	50
	MANTMES404	Major Elective Paper from A or B Group -Practical	4	50
	MANTMES405	Project and Viva-voce	4	50
	MANTMEP406	Project and Dissertation	4	50

# SIDHO-KANHO-BIRSHA UNIVERSITY

## Curriculum

### MASTER OF ARTS (MA) / MASTER OF SCIENCE (MSC) PROGRAMME IN ANTHROPOLOGY & TRIBAL STUDIES

#### LIST OF MAJOR ELECTIVE COURSES

Students of the **ANTHROPOLOGY & TRIBAL STUDIES** course are required to study any **ONE** Group from the available groups

#### Group-A: Tribal Studies

Paper	Course Ref Code	Course Title	Credit	Marks
I	MANTMET303 A	Tribal Movements	4	40+10
II	MANTMET402A	Tribal Development	4	40+10
III	MANTMES404A	Practical work on Participatory Research Methods with relevance to Tribal Studies	4	50

#### Group-B: Biological Anthropology

Paper	Course Ref Code	Course Title	Credit	Marks
I	MANTMET303B	Human Growth and Development	4	40+10
II	MANTMET402B	Anthropology of Food and Nutrition with special reference tribal population of India	4	40+10
III	MANTMES404B	Biological Anthropology -Practical	4	50

# SIDHO-KANHO-BIRSHA UNIVERSITY

## Curriculum MASTER OF ARTS (MA) / MASTER OF SCIENCE (MSC) PROGRAMME

### LIST OF OPEN ELECTIVE COURSES

Students of the **ANTHROPOLOGY & TRIBAL STUDIES** course are required to study **ONE** Open Elective Course from the following list of courses to be selected from the courses not offered by the department of **ANTHROPOLOGY & TRIBAL STUDIES**.

Course ref Code	Course Title	Offered by Department	Credit	Marks
MOE1	Gerontology	Anthropology & Tribal Studies	4	50
MOE2	Bangla Sahityo o Sanskriti	Bengali	4	50
MOE3	Sustainable Agriculture and Food Security	Botany	4	50
MOE4	Entrepreneurship Developments	Commerce	4	50
MOE5	Essence of Chemistry	Chemistry	4	50
MOE6	Intellectual Property Rights	Economics	4	50
MOE7	Yoga Education	Education	4	50
MOE8	Business English and Grammar	English	4	50
MOE9	Land and People	Geography	4	50
MOE10	Urban Study	History	4	50
MOE11	Statistical Methods	Mathematics	4	50
MOE12	Modern Indian Thoughts	Philosophy	4	50
MOE13	Nature of Universe and Concepts of Physics: Inventions and Applications	Physics	4	50
MOE14	Human Rights Study	Political Science	4	50
MOE15	Ancient Indian Culture and science	Sanskrit	4	50
MOE16	Communicative Santali	Santali	4	50
MOE17	Social Relations	Sociology	4	50
MOE18	Biodiversity and Wildlife Conservation	Zoology	4	50

# SIDHO-KANHO-BIRSHA UNIVERSITY

## Curriculum MASTER OF ARTS (MA) / MASTER OF SCIENCE (MSC) PROGRAMME

### LIST OF ADD-ON COURSES

Students of the **ANTHROPOLOGY & TRIBAL STUDIES** course are required to study **ONE** Add-On course from the following list of courses

Course ref Code	Course Title	Offered by Department	Credit	Marks
MAC1	Environmental protection and management	Botany	4	50
MAC2	Statistical Analysis	Economics	4	50
MAC3	Communicative English	English	4	50
MAC4	Computer Application	Mathematics	4	50
MAC5	Value Based Education	Philosophy	4	50
MAC6	Indian Constitution	Political Science	4	50
MAC7	Communicative Sanskrit	Sanskrit	4	50
MAC8	Health, hygiene, sanitization	Zoology	4	50

# SEMESTER-I

**COURSE TITLE: GENERAL ANTHROPOLOGY**

**COURSE CODE: MANTCCT101**

**FULL MARKS = 50 (40+10)**

**TOTAL LECTURES-50**

<b>UNIT-I</b>	Introduction and a short history of the discipline.
<b>UNIT-II</b>	Aims; Objectives; Principles and Scope of Anthropology
<b>UNIT-III</b>	Interrelationship with Natural and social sciences with Anthropology; Branches of Anthropology.
<b>UNIT-IV</b>	Uniqueness of Anthropology; Holism; Worldview; Bio-cultural interactions; Fieldwork with Participant Observation.
<b>UNIT-V</b>	Applied Action and Development; Application of anthropological studies and knowledge in contemporary world.

## SUGGESTED READINGS:

1. Majumder, D.N. and T.N.Madam 1956 An Introduction to Social Anthropology. Bombay; Asia Publishing House.
2. Bhowmick, P.K.1980 Some Aspects of Indian Anthropology, Calcutta Subarnarekha.
3. Beals and Hoijer 2007An Introduction to Anthropology, Surjeet publication
4. Vidyarthi, L.P and Rai, B.K. 1984 The Tribal Cultural of India. New Delhi; Concept Publications.
5. Srivastava, A.R.N. What is Anthropology K.K. publication
6. Jha , Makhan An Introduction to Indian Anthropology, Vikas Publishing House PVT LTD
7. Jha Praful Ranjan & Deepshikha Vernval, Social Cultural Anthropology, Piush Publication

**COURSE TITLE: HISTORY AND DEVELOPMENT OF ANTHROPOLOGY**

**COURSE CODE: MANTCCT102**  
**TOTAL LECTURES-50**

**FULL MARKS = 50 (40+10)**

<b>UNIT-I</b>	History of Indian Anthropology; History of World Anthropology;
<b>UNIT-II</b>	H H Risley; J.H. Hutton; Verrier Elwin; C. Von Furer, Haimerdorf; A . C .Mayer.
<b>UNIT-III</b>	Contribution of S C Roy; D N Majumdar; T C Das; N K Bose; P K Bhowmick; M N Srinivas; H D Sankalia; B S Guha; I Karve; S S Sarkar; K. P. Chattopadhyay; L P Vidhyartha.
<b>UNIT-IV</b>	Contributions of world Anthropologist; Evolutionism; Diffusionism; Functionalism; Structural Functionalism; Structuralism;
<b>UNIT-V</b>	Contribution of Max Gluckman; E R Leach; F Barth; C Geertz; M Harris.

**SUGGESTED READINGS:**

1. Voget, Fred W. 1975. A history of ethnology. New York: Holt, Rinehart and Winston.
2. Leaf, Murray J. 1979. Man, mind, and science: a history of anthropology. New York: Columbia University Press.
3. Leaf, Murray J., and Bernard Grant Campbell. 1974. Frontiers of anthropology; an introduction to anthropological thinking. New York: Van Nostrand.
4. Applebaum, Herbert A. 1987. Perspectives in cultural anthropology. Albany: State University of New York Press.
5. Bloch, Maurice. 1983. Marxism and anthropology: the history of a relationship. Marxist introductions. Oxford [Oxfordshire]: Clarendon Press.
6. Evans-Pritchard, E. E., and Andre Singer. 1981. A history of anthropological thought. New York: Basic Books.
7. L. P. Vidyarthi : Rise of Anthropology in India, Vol. II
8. Gaya Pandey : Bhartiya Manavshastra
9. Upadhaya & Pandey : History of Anthropological Thought
10. Upadhaya & Pandey : Manav Shastriya Vicharak
11. S. C. Roy : Munda and Their Country

**COURSE TITLE: BIOLOGICAL ANTHROPOLOGY**  
**COURSE CODE: MANTCCT103**

**FULL MARKS = 50 (40+10)**

## TOTAL LECTURES-50

<b>UNIT-I</b>	Introduction; branches; brief history; basic concepts; main contributor's trends in India and abroad; methods; applications;
<b>UNIT-II</b>	Place of Human in Animal Kingdom; classification of the Order Primates
<b>UNIT-III</b>	Human skeleton: Skull with different views, skeleton system
<b>UNIT-IV</b>	Physical features of Hominidae and Pongidae; Comparative study of the anatomical; behavioral; reproductive; physiological; morphological and biochemical characters of man and apes.
<b>UNIT-V</b>	Definitions and characteristic features of Primate; Distribution and characters of living primates in the sub-continent of India. Evolution of primates with special reference to erect posture; bipedal locomotion; brain; skull; jaw; teeth; limbs and special senses.
<b>UNIT-VI</b>	Anatomical, morphological and behavioural characteristics of Great Ape (Gorilla, Chimpanzee, Orang-Utan and Gibbon)

### SUGGESTED READINGS:

1. Harrison, G.A., Weiner, J.S., Tanner, J.M. and Barnicot, N.A. Human Biology: An Introduction to Human Evolution, Variation And Growth, Clarendon Press, Oxford.
2. Hooton, E. A. Up from the Ape, The Macmillan Co., New York.
3. Lasker, G.B. and Tyzzer, R.N. Physical Anthropology, Holt Rinechart & Winston, New York.
4. Montagu, M.F.A. An Introduction to Physical Anthropology, Charles C Thomas, Springfield Illinois.
5. Montagu, M.F.A. The Concept of Race, The Free Press, New York.
6. Shukla, B.R.K. and Rastogi, S. Physical Anthropology and Human Genetics: An Introduction, Palka Prakashan, Delhi.
7. Principles of Genetics Peter Snustad and M. J. Simmons (2006). John Wiley and Sons, Honboken, NJ.
8. Genetics : A Conceptual Approach Benjamien Pierce (2003). W. H. Freeman & Company.
9. A Primer of Population Genetics Daniel Hartl (1999) Sinauer Associates, Inc.
10. Primate Behavioral Ecology (3rd edition). Karen B. Strier. (2006) Allyn and Bacon



11. Kinship and Behaviour in Primates. (2004) Bernard Chapais and Carol M. Berman. Oxford University Press
12. Primate Paradigms: Sex Roles and Social Bonds, (1992) Linda Marie Fedigan. University of Chicago Press
13. The Primate Anthology: Essays on Primate Behaviour, Ecology and conservation from National History. (1997) Russell L. Ciohon and Richard A. Nisbett. Prentice Hall.
14. Montague, Ashley,. Concept of Race.
15. Backer, P.T. & Weiner (eds.). Biology of Human Adaptability.
16. Barnouw, V. 1979. Anthropology : A General Introduction, The Dorsey Press, Illinois.
17. Bodmer and Cavalli Sforza. Genetics, Evolution and Man.
18. Buettner-Janusch, J. Origins of Man, Wiley Eastern Pvt. Ltd. New Delhi.
19. Dobzhansky. Evolution, Genetics and Race. John Willey and Sons

**COURSE TITLE: PEHISTORIC ARCHAEOLOGY**

**COURSE CODE: MANTCCT104**

**FULL MARKS = 50 (40+10)**

**TOTAL LECTURES-50**

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|------------------|---|
| <b>UNIT-I</b>    | Introduction; branches; Framework of Archaeology; Formation Processes; Basics of Archaeology; Prehistory; Proto-history; Dating Methods- Relative dating and Absolute dating ;Introduction to Social Archaeology; Environmental Archaeology; Cognitive Archaeology.               |
| <b>UNIT -II</b>  | Introduction to Prehistory of Europe: Chronology and Terminology; Geological Time Scale. Dating of Artifacts: Absolutes and Relatives; Lower Paleolithic Culture of Europe; Middle Paleolithic Culture of Europe; Upper Paleolithic Culture of Europe; Paleolithic Art of Europe. |
| <b>UNIT -III</b> | Indian Prehistory; Introduction of Indian Prehistory: Chronology and Terminology. Lower Paleolithic Culture of India; Middle Paleolithic Culture of India; Upper Paleolithic Culture of India; Paleolithic Art of India; Mesolithic Culture of India; Neolithic Culture of India. |
| <b>UNIT -IV</b>  | Indus Valley Civilization; Megalithic Cultures of India; Indian Prehistory in 21st Century: Problems and Challenges.  |

**UNIT -V** Brief history; Basic concepts; main contributors trends in India and abroad; methods; applications; etc.

**SUGGESTED READINGS :**

1. Lee, R.B and I. Devore (Eds.) (1977). Man the Hunter. Chicago: Aldine Publishing Company.
2. Sankalia, H. D. (1977). Prehistory of India.: Munshiram Manoharlal Publishers Pvt. Ltd, Delhi.
3. Coles, J.M. and E.S. Higgs. (1969). The Archaeology of Early Man. Faber and Faber. London:
4. Burkitt, M. (1963).The Old Stone Age: A study of Palaeolithic Times. London: Bowes and Bowes. Archaeology: Theories methods and Practices, London: Thames and Hudson. Renfrew, C. and P. Bahn.
5. Fagan B. M.People of the Earth: An Introduction to World Prehistory. New Jersey: Pearson Education. Frameworks for dating Fossil man.London: Weidenfeld and Nicolson.
6. Oakley,K P (1973).The Explanation of culture change: Models in prehistory. London. Duckworth. .
7. Sankalia, H.D.(1974).Prehistory and Protohistory of India and Pakistan. Pune: Deccan College.

**COURSE TITLE: SOCIAL AND CULTURAL ANTHROPOLOGY**

**COURSE CODE: MANTCCT105**

**FULL MARKS = 50 (40+10)**

**TOTAL LECTURES-50**

<b>UNIT-I</b>	Introduction; branches; brief history; Basic concepts; main contributors trends in India and abroad; methods; applications
<b>UNIT -II</b>	Marriage: Definitions; nature and forms. Preferential and Prohibited Categories; Incest; Dowry; Bride Price; Divorce; Marriage regulations of Non-Tribal and Tribal.
<b>UNIT-III</b>	The family; Definition and foundation of the family; Descent groups and domestic groups; Variation in family forms; Approaches to the study of family.
<b>UNIT-IV</b>	Basic Concepts of Kinship; descent and filiations; Kinship as a cultural principle and social mechanism. The principle and structure of descent: unilineal; cognatic and bilateral principle, Kinship nomenclature.

**SUGGESTED READINGS:**

1. Barnard, Alan. 2000. History and theory in anthropology. Cambridge, U.K.: Cambridge University Press.
2. Nadel, S. F. 1951. The foundations of social anthropology. Glencoe, Ill: Free Press.
3. Ingold, Tim. 1994. Companion encyclopaedia of anthropology. Routledge reference. London: Routledge.
4. Harris, C. C. 1990. Kinship. Concepts in social thought. Minneapolis: University of Minnesota Press.
5. Carsten, Janet. 2004. After kinship. New departures in anthropology. Cambridge, UK: Cambridge University Press
6. Levi-Strauss, Claude. 1969. The elementary structures of kinship. Boston: Beacon Press.
7. Goody, Jack, and Meyer Fortes. 1973. The Character of kinship. Cambridge [Eng.]: University Press.
8. Herskovits M.J : Man and His works
9. L.P. Vidyarthi & B. K. Rai : Tribal Culture in India
10. Ember and Ember : Social Cultural Anthropology
11. Upadhaya & Pandey : Samagita Sanskriti Manavshastra.
12. A.R.N Srivastava : Social Cultural Anthropology.
13. E.E. Evance Prtichand : Social Anthropology

**COURSE TITLE: PRACTICAL WORKS ON PREHISTORIC ARCHAEOLOGY**  
**COURSE CODE: MANTCCS106** **FULL MARKS = 50 (30+20)**  
**TOTAL LECTURES-50**

- UNIT-I** Detailed Study and Understanding of tool types; Lower Palaeolithic Culture; Middle Palaeolithic Culture; Upper Palaeolithic Culture
- UNIT-II** Draw and Descriptions of tools of Mesolithic Culture; Neolithic Culture;
- UNIT-III** Art objects; Bone Tools and artifacts.
- UNIT-IV** Identification Fossil Apes and Fossil Man
- UNIT-V** Different type of plough; Spade; Hoe; Khanta; Bow and arrow; Battle axe, Spear; Fishing net; Bird net; House type.

## **UNIT-VI**

Housing patterns; Agricultural implements; Fishing, Hunting; Fire Appliances; Costumes and dress; Ornaments; Musical instruments; Masks; Museum work; visit and report writing

### **SUGGESTED READINGS:**

1. An Outline of Indian Prehistory, D.K.Bhattacharya , Palka parkashan , New Delhi
2. Prehistoric Archeology D.K.Bhattacharya , Palka parkashan , New Delhi
3. The old Stone Age, M.C.Burkit
4. Prehistory and Proto-history of India and Pakistan, H.D. Sankaliya
5. Sankalia, H D The stone age tools

## SEMESTER-II

**COURSE TITLE: SOCIETY, CULTURE AND CIVILIZATION**

**COURSE CODE: MANTCCT201**

**FULL MARKS = 50 (40+10)**

**TOTAL LECTURES-50**

- UNIT-I** Culture:-Definitions and concepts; Patterns of culture; Nature of Culture; Aspects of culture; holistic; super organic and Mentalist view of culture
- UNIT -II** Culture trait; culture complex; culture area and age area theory of culture; Material Culture
- UNIT -III** Cultural relativism; Adaptive role of culture; Cultural change: evolutionary; through culture contact; diffusion; acculturation etc.
- UNIT -IV** Definitions of Society; elements of society; Types of human bonding; Primary group; In group; Out group; Patterned group; Non-patterned group; Local group; status and role; groups; association; community; institution and organization; Features and nature of Tribal society.
- UNIT -V** Gender Studies; Social Processes; social Change

### SUGGESTED READINGS:

1. Cohen, Yehudi A. 1968. Man in adaptation; the cultural present. Chicago: Aldine Pub. Co.
2. Redfield, Robert. 1965. Peasant society and culture an anthropological approach to civilization. Chicago [u.a.]: Univ. of Chicago Press.
3. Wittfogel, Karl August. 1957. Oriental despotism; a comparative study of total power. New Haven: Yale University Press.
4. Symposium on Man the Hunter, Richard B. Lee, and Irvn DeVore. 1969. Man the hunter. Chicago: Aldine Pub. Co.
5. Majumder, D.N. and T.N.Madam 1956 An Introduction to Social Anthropology. Bombay; Asia Publishing House.
6. Jha, Praful Ranjan & Deepshikha Vernval, Social Cultural Anthropology, Piush Publication

**COURSE TITLE: BIOLOGICAL BASIS OF LIFE AND HUMAN EVOLUTION**  
**COURSE CODE: MANTCCT202** **FULL MARKS = 50 (40+10)**  
**TOTAL LECTURES-50**

- UNIT -I** Biological basis of life, Human genetics aim and scope; Human Chromosomes; Identification, and Techniques of studying; Cell mechanics and chromosomes; Chromosomal aberrations - Numerical and Structural.
- UNIT -II** Mendelian Genetics in Man: autosomal and sex-linked inheritance; dominant and recessive inheritance.
- UNIT -II** Human origin and evolution. Fossil evidences: Dryopithecus, Ramapithecus, Sivapithecus, Gigantopithecus, Australopithecus, *Homo habilis*, *Homo erectus*, *Homo neanderthalensis* and *Homo sapiens* (Grimaldi Cro-Magnon and Chancedelade )
- UNIT -III** Hominization Process: Evolution of hominid-human Bipedalism; stereoscopic Vision; Bio-Cultural Interactions; Modern Trends.
- UNIT -IV** Principles and processes of evolution; Formation of new population and species; Lamarckism; Neo-Lamarckism; Darwinism; Neo-Darwinism; Synthetic theory;
- UNIT -V** Human variation and adaptation. Nature and causes of human variation. Adaptive significance of human variation.
- UNIT -VI** Concept of race and its limitations. Factors responsible for race formation.
- UNIT -VII** Genetic history of populations – South East Asia and Indian subcontinent. Basic concept of Population genetics and application of Hardy-Weinberg Law
- UNIT -VII** History and development of the concept of Race; Criteria for Racial classifications; Racism; Racial classifications; Study of population diversity in contemporary time.

**SUGGESTED READINGS:**

1. Harrison, G.A., Weiner, J.S., Tanner, J.M. and Barnicot, N.A. Human Biology: An Introduction to Human Evolution, Variation And Growth, Clarendon Press, Oxford.

2. Hooton, E. A. Up from the Ape, The Macmillan Co., New York.
3. Lasker, G.B. and Tyzzer, R.N. Physical Anthropology, Holt Rinechart & Winston, New York.
4. Montagu, M.F.A. An Introduction to Physical Anthropology, Charles C Thomas, Springfield Illinois.
5. Montagu, M.F.A. The Concept of Race, The Free Press, New York.
6. Shukla, B.R.K. and Rastogi, S. Physical Anthropology and Human Genetics: An Introduction, Palka Prakashan, Delhi.
7. Principles of Genetics Peter Snustad and M. J. Simmons (2006). John Wiley and Sons, Honboken, NJ.
8. Genetics: A Conceptual Approach Benjamin Pierce (2003). W. H. Freeman & Company.
9. A Primer of Population Genetics Daniel Hartl (1999) Sinauer Associates, Inc.
10. Primate Behavioral Ecology (3rd edition). Karen B. Strier. (2006) Allyn and Bacon
11. Kinship and Behaviour in Primates. (2004) Bernard Chapais and Carol M. Berman. Oxford University Press
12. Primate Paradigms: Sex Roles and Social Bonds, (1992) Linda Marie Fedigan. University of Chicago Press
13. The Primate Anthology: Essays on Primate Behaviour, Ecology and conservation from National History. (1997) Russell L. Ciohon and Richard A. Nisbett. Prentice Hall.
14. Montague, Ashley,. Concept of Race.
15. Backer, P.T. & Weiner (eds.). Biology of Human Adaptability.
16. Barnouw, V. 1979. Anthropology : A General Introduction, The Dorsey Press, Illinois.
17. Bodmer and Cavalli Sforza. Genetics, Evolution and Man.
18. Buettner-Janusch, J. Origins of Man, Wiley Eastern Pvt. Ltd. New Delhi.
19. Dobzhansky. Evolution, Genetics and Race. John Willey and Sons

**COURSE TITLE: STATISTICAL APPLICATION IN ANTHROPOLOGY**  
**COURSE CODE: MANTCCT203** **FULL MARKS = 50 (40+10)**  
**TOTAL LECTURES-50**

- UNIT-I**                      Significance of Statistics in Anthropology; Concepts of Variables; Measures of Central Tendency; and Measures of Dispersions; Sampling; Probability; Non-Probability.
- UNIT-II**                      Distribution; Binomial; Normal and Z-Score.
- UNIT-III**                     Inferential Statistics; Chi-Square; t-Test; ANOVA; Co-relation; Regression.

**UNIT-IV** Graphical representation of Data; Histogram; pie-chart; Bar chart

**UNIT-V** Use of Statistical Software (SPSS); Word; Excel; Power Point presentation.

**SUGGESTED READINGS:**

1. Crawford; 2006 Anthropological Genetics: Theory, Methods and Applications (2006) Cambridge University Press.
2. Bioinformatics for Geneticists: A Bioinformatics Primer for the analysis of Genetic Data (2007) Wiley.
3. Michael R. Barnes; 2008 Statistical Genetics: Gene Mapping Through Linkage and Association Benjamin M. Neale Eds.
4. Manual AR. Ferreira, Sarah T. Medland, Danielle Posthuma; Taylor & Francis
5. Pagano M., Gauvreau, K, (2000), Principles of Biostatistics, Duxbury Press, USA.

**COURSE TITLE: RESEARCH METHODS**

**COURSE CODE: MANTCCT204**

**FULL MARKS = 50 (40+10)**

**TOTAL LECTURES-50**

**UNIT-I** Research methodology in anthropology; Distinction between method; Technique and methodology; Hypotheses formation; Research design.

**UNIT-II** Field work tradition in Anthropology; Participant observation and basic characteristics of anthropological fieldwork.

**UNIT-III** Genealogical method; Construction of Genealogy; Observation; Direct, Indirect; Participant; Non-participant; Controlled; Questionnaire and Schedule,

**UNIT-IV** Interview: Unstructured; Structured; Key informant interview; Focused Group Discussion;

**UNIT-V** Comparative method in anthropology; Cross cultural comparison; Human Relations Area file; Controlled comparison in social-cultural Anthropology; Group discussion, PRA, RRA.

**SUGGESTED READINGS:**

1. Ghosh, B.N: Scientific Method and Social Research, Sterling Publishers, New Delhi, 3rd Edition, 1985.



2. Young, V. Pauline: Scientific Social Surveys and Research, Prentice Hall of India, N. Delhi, 8<sup>th</sup> Indian Reprint, 1988.
3. Srivastava, V.K. 2004. Methodology and Fieldwork, OUP, New Delhi.
4. Danda, A.K. (1992) Research Methods in Anthropology Inter India Publication, New Delhi.
5. Pelto, Pretti, J & Gretal H. Pelto : Anthropological Research - the Structure of Inquiry.
6. Gibaldi, Joseph (2005): *MLA Handbook for Writers of Research Papers*, 6<sup>th</sup> Edition. Affiliated East West Press, New Delhi.
7. Gupta, S.P., (New Edition): *Statistical Methods*, Sultan Chand and Sons, New Delhi.
8. Ahuja, Ram, (New Edition) : *Research Methods*, Jaipur, New Edition.

**COURSE TITLE: TRIBES IN INDIA**

**COURSE CODE: MANTCCT205**

**FULL MARKS = 50 (40+10)**

**TOTAL LECTURES-50**

- UNIT -I** Tribe: Definition; General Characteristics; Special characteristics; nomenclature; geographical distribution; linguistic classification; racial classification; economic classification; cultural classification; religious classification; Antiquity of Indian Tribes; Tribes in translation and transcription; tribes in ancient, medieval and Modern present time.
- UNIT -II** Comparison between tribe and caste; distribution of tribes according to region and states; tribes across the boundary of states; tribal identity; problem and solution; tribe and pressure group; why people want to be scheduled tribe; Tribal demand and pseudo-tribalism.
- UNIT -III** Tribal and Forest : Importance of forest for tribal's; minor forest produce; collection; trade; marketing; LAMPS; TRIFED; Forest policies; Forest Movement; Forest and Medicine; Forest Rights Act 2007. Maternity in Tribal India; features; area; Garo matriliney; Khasi maternity; Matriliney of Lakshawadip; recent trends in Matriliney; polyandry; types; Khasi Polyandry; Gallong Polyandry; Toda Polyandry;

Kota Polyandry; recent trends in polyandry; Chief Characteristics of tribal village : Sarana; Sagandiri; Akhra and youth dormitory.

#### UNIT -IV

Political organization: The cultural background of law and anthropological approaches to the study of law; customary primitive and codified law. Law and sanction; Leadership and chieftainship in primitive society; Primitive and contemporary government; State society and stateless society; Nation building process in a new state; Political organisation of Lodha; Oraon; Santal; Munda.

#### UNIT -V

Economic Organization; Primitive and peasant economics; Property and inheritance; Barter and ceremonial exchange; reciprocity; redistribution; Markets; Trade; Economic organization of hunter-gatherers; Pastoral; people; shifting cultivators; settled agriculturists and urban people. Magico-religious beliefs and practices; Occultism and Magical practices; God; Spirit; Sacred Complex; Origin of religion social function of religion; Totemism; Animism; Animatism; Taboo; Mana; Spell; Divination; Prayer; Magic – concepts and types of magic and magical functionaries.; Magico-religious specialists – priest; shaman; witch; sorcerer; spirit doctor .

#### SUGGESTED READINGS:

1. Hardiman, David. 2008. *Missionaries and their medicine: a Christian modernity for tribal India*. Manchester: Manchester University Press.
2. Fu'rer-Haimendorf, Christoph von. 1985. *Tribal populations and cultures of the Indian subcontinent*. Handbuch der Orientalistik, 7. Bd.-Leiden: E.J. Brill.
3. Bhandari, J. S., and Subhadra Channa. 1997. *Tribes and government policies*. New Delhi: Cosmo Publications.
4. Channa, Subhadra. 1992. *Nagaland, a contemporary ethnography*. New Delhi, India: Cosmo Publication.
5. Xaxa, Virginius. 2008. *State, society, and tribes: issues in post-colonial India*. New Delhi: Dorling Kindersley (India), licencees of Pearson Education in South Asia.
6. Miri, Mrinal. 2003. *Identity and the moral life*. New Delhi: Oxford University Press.
7. Miri, Mrinal. 1993. *Continuity and change in tribal society*. Shimla: Indian Institute of Advanced
8. L. P. Vidyarthi and B. K. Rai : Tribal Culture of India.
9. Nadeem Hasnian : Tribal India

10. Gaya Pandey : Bhartiya Janjatiya Sanskriti  
11. Bose, N. K : Tribal Life in India.  
12. Upadhaya and Pandey : Tribal Development in India  
13. G. S Ghurye : The Scheduled Tribes.

**COURSE TITLE: ETHNOGRAPHIC FIELD WORK ON TRIBES**

**COURSE CODE: MANTCCS206**

**FULL MARKS = 50 (30+20)**

**TOTAL LECTURES-50**

Field work on any tribe preferably in a rural setting under the supervision of Departmental Teacher(s) at least 15 days and produce a report based on this intensive field work. The report will be examined by an External Examiner and the concerned students will be required to appear for a Viva-voce test before the Examiner.

**SUGGESTED READINGS:**

1. Chaudhuri, A B : Tribal Heritage : A Study of the Santals  
Lutterwoeth Press (1949)
2. Prasad, Narmadeshwar : Land and People of tribal Bihar. ( Bihar  
Tribal Research Institute, Ranchi, 1961)
3. Roy, S.C The Oraon of chotanagpur , Crown Publication Ranchi
4. Roy, S.C The Munda and their country, Crown Publication Ranchi
5. Oraon, Prakash Chandra. Land and People of Jharkhand, TRI. Ranchi
6. Bhowmick, P K 1963 The Lodha

## SEMESTER-III

**COURSE TITLE: ANTHROPOLOGY OF DEVELOPMENT**

**COURSE CODE: MANTCCT301**

**FULL MARKS = 50 (40+10)**

**TOTAL LECTURES-50**

- UNIT - I**                      Development: Meaning and evolution of the concept. Theories, Indices and measurements of development. Anthropological concept of development. Contribution of Anthropology to development studies.
- UNIT-II**                      Rural development with special reference to West Bengal and Backward regions. Special programmes on rural development in India. Role of civil Society as change agents.
- UNIT- III**                      Poverty alleviation schemes. Land reforms and Panchayati Raj. Assessment of land reforms and Panchayati Raj with special reference to West Bengal.
- UNIT-IV**                      Policy studies in Anthropology: Forest policy, land policy and water management policy. Common Property Resources (CPR) and the management of CPR with special reference to India.
- UNIT-V**                      Human rights – Anthropological perspectives. Gender discrimination. Anthropology of force migration, displacement and Diaspora.

### SUGGESTED READINGS:

1. Identify any development project in India and construct a brief ethnography of the project.
2. Collect all available material debating the project. 3. Make a project report with your own critical evaluation of the debate.
3. Provide a comprehensive bibliography. Encountering Development: (1995) Arturo Escobar, The Making and Unmaking of the Third World, Princeton, N. J. Princeton University Press.
4. Anthropology in Practice: Case Studies in Development Anthropology, (1986) Edward Green, Boulder, Colorado, West View Press.
5. . Local Science vs. Global Science: Approaches to Indigenous Knowledge in International Development, New York, Berghehn Book, 2007.

**COURSE TITLE: INDIAN ANTHROPOLOGY**  
**COURSE CODE: MANTCCT302**  
**TOTAL LECTURES-50**

**FULL MARKS = 50 (40+10)**

- UNIT -I** People of India and background of Indian Culture: Ethnic classifications of Risley and Guha; Linguistic classification of Grierson; N K Bose's contribution on unity and diversity
- UNIT -II** Approaches to the study of Indian civilization: Great Tradition and Little Tradition; parochialisation and universalisation; Sanskritisation and Westernisation; Globalisation; localization and Multi- cultururation.
- UNIT -III** Caste System; Concept and types of village; Jajmani system; Concept of varna; and jati; Origin of caste. Dominant caste; Nature-man-spirit complex; Tribe-caste continuum: tribe; caste and nation; peasant society and peasant culture.
- UNIT -V** Scheduled Castes: Definition; distribution; problem; untouchability Act 1995; Constitutional safeguards; some special Acts related to Scheduled Castes; Present Status of Scheduled Castes;
- UNIT -V** Exploitation and atrocities on Dalits; Dalit Women; Dalit Movement. Major Religions in India: Tribal form of Religion; Hinduism; Jainism; Buddhism; Islam; Christianity;

**SUGGESTED READINGS:**

1. Cohn S. Bernard: 2000. India: The Social Anthropology of Civilization. Delhi: Oxford University Press.
2. Dirks Nicholas. 2001. Castes of Mind: Colonialism and the Making of Modern India. Princeton University Press.
3. Donald S. Lopez, (ed.). 1995. Religions of India in Practice. Princeton University Press
4. Gupta, Dipankar (ed): Social Stratification. Delhi: Oxford University Press.
5. Karve, Irawati 1961. Hindu Society : An Interpretation . Poona : Deccan College
6. V. S Sahay & P. K. Singh : Indian Anthropology
7. Nadim Husnian : Indian Anthropology
8. Irawati Karve : Kinship oraganisation in India

**COURSE TITLE: TRIBAL MOVEMENTS (MAJOR ELECTIVE)**

**COURSE CODE: MANTMET303 (GROUP-A)**

**FULL MARKS = 50 (40+10)**

**TOTAL LECTURES-50**

<b>UNIT -I</b>	Tribal Identity; Ethnicity; Individuals in their society; Solidarity; Continuum study; impact of colonialism and modern politics; Tribe and forest.
<b>UNIT –II</b>	Tribal Movements: Bhumij Revolt; Santhal revolt; Birsa Movement; Tana Bhagat movement; Paharia or Maler revolt; Ho Revolt; Great Kol Revolt; Sardari larai;
<b>UNIT -III</b>	Bodo Land Movement; Gorkhaland Movement; Jharkhand Movement
<b>UNIT -IV</b>	Mina Gujjar conflict; Movements of North East India; Environmental movements
<b>UNIT -V</b>	Detribalisation; Retribalisation; revitalization; Newly trends; Evaluation and consequences of the movements

**SUGGESTED READINGS:**

1. Singh K S: 1982, Tribal movements in India Publisher Manohar Book Service,
2. Sinha S P 1991 Santhal Hul (Insurrection of Santals) , The Bihar Tribal Welfare Research Institute, Ranchi
3. Birsha Munda
4. Burman, B K. Roy.1971 National Movements Among Tribes, Secular Democracy,1971, 4(3-4)
5. Doshi, S.L. 1978 Process of Tribal Unification and Integration, Concept, New Delhi.
6. Kothari, K L, 1985 Tribal Social Change in India, Himangsu Publications, Udaipur
7. Kaviraj. N, 2001 Santal Village Community And The Santal Rebellion of 1855, Subanarekha, Kolkata
8. Sing, K S 1983 Birsa Munda and his Movement (1874-1901), O U P, New Delhi
9. Sharma K L 1976 Jharkhand Movement in Bihar, Economic and Political Weekly, Jan.10,1976,11(1-2),PP.37-43

**COURSE TITLE: HUMAN GROWTH AND DEVELOPMENT (MAJOR ELECTIVE)**  
**COURSE CODE: MANTMET303 (GROUP-B) FULL MARKS = 50 (40+10)**  
**TOTAL LECTURES-50**

<b>UNIT -I</b>	Definition and concepts of growth; differentiation; maturation and development. Evolution of Human Growth: Human Lifespan, development process; Human Life Cycle.
<b>UNIT -II</b>	History of growth studies in Anthropology. Importance of growth studies.
<b>UNIT -II</b>	Major stages of human growth and development - Prenatal growth; Postnatal growth and their characteristics;
<b>UNIT –III</b>	Factors affecting growth: Genetic and Environmental: secular trends; adaptation of growth rates to environmental stresses;
<b>UNIT -IV</b>	Methods of studying Human Growth. Classical reference growth studies
<b>UNIT -V</b>	Body composition, changes in body composition and secular trends in growth.

**SUGGESTED READINGS:**

1. Patterns of human growth by Bogin, Barry (1999). Cambridge University Press.
2. Human biology: An introduction to human evolution, variation, growth & adaptability by Harrison, GA;
3. Tanner, JM; Pilbeam, DR; Baker PT (1988). Oxford, England, Oxford University Press.
4. Proceeding on Human Physical Growth and Maturation by eds. Johnson, FE, Roche, AF, Susanne, C,(1980). Plenum Publishing Corporation.
5. Weiner and Lourie. Human Biology – A Guide to Field Methods.
6. Weiss, K.M. & Ballonoff, P.A. Demographic Genetics.
7. Human growth and development by Cameron Noel (20U2). St. Louis, Academic Press
8. Growth, maturation & physical activity (2004) Malina, Robert M; Bouchard, Claude, Bar-Or, Oded. Human Kinetics
9. Patterns of human growth by Bogin, Barry (1999). Cambridge University Press.

10. Human biology: An introduction to human evolution, variation, growth & adaptability by Harrison, GA; Tanner, JM; Pilbeam, DR; Baker PT (1988). Oxford, England, Oxford University Press.
11. Applied body Composition Assessment (2009) Heyward, VH; Wagner DR. Human Kinetic.

**ONE OPEN ELECTIVE COURSE: GERONTOLOGY**

**COURSE CODE:- MANTHOE-304**

**FULL MARKS=50**

**TOTAL LECTURES-50**

UNIT-I	Gerontology in the context of Demographic and Epidemiological Transition; Demographic concepts and theories (old age dependency ratio, reverse dependency ratio, Crude death rate, fertility, Introduction to age pyramid ;)
UNIT-II	Biological approach to Gerontology; Chronic ailments, Old-age ailments, Geriatric Nutrition and food habits
UNIT-III	Social Cultural perspective of old age; Theories of old age and vulnerabilities; Domestic abuse; social negligence, fragile environment, Crime, Intergenerational Conflict
UNIT-V	Geriatric care Palliative and end of life care; Grief and bereavement counselling; age appropriate public health structure, Importance and linkage for care continuum during old age; hospital home, old age home,

**SUGGESTED READINGS:**

1. Social Gerontology: A Multidisciplinary Perspective / Edition 9 by Nancy R. Hooyman, H. Asuman Kiyak. Pearson
2. Aging and The Life Course: An Introduction to Social Gerontology / Edition 6 by Jill Quadagno. McGraw-Hill Higher Education
3. Introduction to Aging: A Positive, Interdisciplinary Approach by Judith A. Sugar, Robert Riekse, Henry Holstege, Michael Faber. Springer Publishing Company
4. Physical Change and Aging, Sixth Edition: A Guide for the Helping Professions / Edition 6 by Sue V. Saxon, Mary Jean Etten, Elizabeth A. Perkins. Springer Publishing Company
5. The Cambridge Handbook of Age and Ageing by Malcolm L. Johnson



6. The SAGE Handbook of Social Gerontology by Dale Dannefer & Chris Phillipson (eds.) (2010). Sage Publishing Company
7. Age & Anthropological theory. by D.I. Kertzer and J. Keith (eds.). Ithaca, NY: Cornell University Press
8. Problems of Aging Among Indian Tribes, by Chaturbhuj Sahu, New Delhi: Surup & Sons Publishers, 1998.
9. Aged in India, by Gurumurthy by K.G., New Delhi: Reliance Publishing House, 1998.
10. India's Elderly Burden or Challenge? By Iradaya Rajan S., Mishra, U.S., and Sankar Sarma P., New Delhi: Sage Publications, 1999.
11. Aged in India-Problems and Personality by Joseph, J., Allahabad: Chugh Publications.
12. Activity and Aging Staying Involved in Later Life, by John R. Kelly, New Delhi: Sage Publications.
13. Hand Book of Indian Gerontology, by Ramamurti P.V., Jamuna D., (Ed.), Serials Publications, New Delhi:, 2004.
14. Caring for the Elderly Social Gerontology in the Indian Context by Tattwamasi Paltasingh and Renu Tyagi (ed.). Sage Publishing Company

**COURSE TITLE: PRACTICAL ON BIOLOGICAL ANTHROPOLOGY**  
**COURSE CODE: MANTCCS305** **FULL MARKS = 50 (30+20)**  
**TOTAL LECTURES-50**

<b>UNIT- I</b>	Somatometric measurements. Indices: cephalic, nasal and height-weight indices.
<b>UNIT- II</b>	Craniometry – Human Skull and Mandible
<b>UNIT- III</b>	Somatoscopy: Head form; Hair form; Facial form; Eye form; Nose form; Hair colour; Eye colour; Skin colour
<b>UNIT- IV</b>	Osteometric measurements and indices of human long bones: Femur, Tibia, Fibula, Humerus, Radius, Ulna. Identification of long bones.
<b>UNIT- V</b>	Colour blindness test. Blood Group Testing (ABO and Rh); Evaluation of Nutritional Status

**UNIT- VI**

Evaluation of Laboratory notebooks.  
Viva-voce.

**SUGGESTED READINGS:**

1. Bhasin and Bhasin: Sing :Laboratory manual in Biological Anthropology
2. Tulika Sen: A Guide to Anthropometry
3. Das, B.M & Ranjan Deka 2006 "Physical Anthropology Practical" Publisher - Kitab Mahal, Allahabad, India.
4. Weiner and Lourie. Human Biology – A Guide to Field Methods.
5. Human biology: An introduction to human evolution, variation, growth & adaptability by Harrison, GA; Tanner, JM; Pilbeam, DR; Baker PT (1988). Oxford, England, Oxford University Press.
6. Applied body Composition Assessment (2009) Heyward, VH; Wagner DR. Human Kinetic.

**COURSE TITLE: OUTREACH PROGRAMME**  
**COURSE CODE: MANTOPSS306**  
**TOTAL LECTURES-50**

**FULL MARKS = 50**

## SEMESTER-IV

**COURSE TITLE: ECOLOGY; DEMOGRAPHY AND HEALTH**

**COURSE CODE: MANTCCT401**

**FULL MARKS = 50(40+10)**

**TOTAL LECTURES-50**

- UNIT -I** Ecosystem & Energy Flow; The structure of energy flow in ecosystem; Control factor; Internal controls and Homeostatic processes; Potential Stress: Hot cold; Altitudes; Infectious diseases and Nutrition;
- UNIT -II** Different Cultural Ecological Concepts; Environmental determinism; Eco-feminism; Environmental possibilism; Cultural Ecological Approach; Ecosystem approach. Contributions of Roy A Rappaport and A P Vyada
- UNIT -III** Basic concepts of health; Illness and disease: Ethno-medicine and the growth of medical anthropology; The health and disease Social Determinants of Health; Ethnicity; Health and Diseases.
- UNIT -IV** Health and disease in the perspective of cultural and society; Culture and behavior; Culture and ecology; Diseases associated with cultural patterns; A detailed study of the *kuru* disease; Problems of health and disease
- UNIT -V** Concepts of Demography; with special reference to Anthropological Demography; Adaptive fitness; Vital Statistics; Measures of Fertility; mortality and Migration Techniques and measurements of demography – sex ratio and child woman ratio; crude and specific birth and death rates; total and age specific fertility rates; infant mortality rate.

### SUGGESTED READINGS:

1. Emilio F. Morigen. Westview 2000 Human Adaptability: An Introduction to Ecological Anthropology (2000)
2. Kleinman, David S. (1980) Human adaptation & population growth by New Jersey: Osman & Co.
3. John Relethford. (2007) The Human Species: An Introduction to Biological Anthropology. MC Graw Hill.

4. Howard Michael C. and Janet Dunaif-Hattis. Anthropology: Understanding Human Adaptation. (1992) Harper Collins Publishers, New York.
5. G.A. Harrison and Howard Morphy 1998 Human adaptation Berg Publisher, Oxford.Press.
6. Theodorson, G.A. Row 1961 Studies in Human Ecology. Peterson & Company Elmsford, New York.
7. Paul R. Ehrlich, Anne H. Ehrlich and John P. Holdress. 1973 Human ecology: Problems and Solutions. W.H. Freeman & Company, San Francisco.

**COURSE TITLE: TRIBAL DEVELOPMENT (MAJOR ELECTIVE)**  
**COURSE CODE: MANTMET402(GROUP-A) FULL MARKS = 50(40+10)**  
**TOTAL LECTURES-50**

- UNIT-I** Concepts and history of Tribal Development; Colonial and Post-Colonial periods;
- UNIT-II** Changing Models (Approaches) of Tribal Development; Community Development Programme; Special Multipurpose Tribal Blocks; Development Programme; Tribal Development Blocks; Tribal Development Agencies; MADA Pockets; Clusters and Particularly Vulnerable Groups.
- UNIT -III** Tribal Development : Mandate of Ministry of Tribal Affairs; Tribal Development and Welfare Schemes- Central Sector Schemes; Centrally sponsored schemes; Central sector schemes in which 100% assistance is given to NGO's ; Centrally sponsored scheme in which 90% to 100% assistance is provided to voluntary organization for tribal welfare and those Central Sector or centrally Sponsored schemes which are running after division of Ministry of Social Justice and Empowerment; Monitoring and Evaluation of Tribal Development; Problem of Tribal Development.
- UNIT -IV** Rural Tribal Development Programmes : IRDP; Guaranteed Employment – scheme; ; JRYC (Jawahar Rojgar Yojna); Indira Awas Yojna; Minimum Needs Programme; NREP (National Rural Employment Scheme) TRYSEM; DWACRA; Water supply yojna; Rural Sanitary Programme; Land Reform Programme; Kisan Credit Yojna; Literacy Mission Informal Education; Welfare Programme; ICDS;

Social Security Programmes; PMRY;SJSY Annapurna Yojna; NREGA.

**UNIT-V** Problems of developments; role of Civil societies ; migration; displacement; rehabilitation; effects of Mega projects; Experiences of Mahanadi Projects and other contemporary issues. Etc.

**SUGGESTED READINGS:**

1. Tribal development in India: the contemporary debate Authors: Rath, Govinda\_Chandra—Editor Published by : Sage\_Publications\_India\_Pvt Ltd.,(New Delhi)
2. Bhowmick, Prabodh Kumar Ed : Tribal people of India : Society culture and development ( R N, Bhattacharya Kolkata, 2008)
3. Chaudhuri, A B : State Formation Among Tribal : A Quest for Santal Identity. (Gyan Publishing House 1993)
4. Upadhaya & Pandey : Tribal Development (English and Hindi)
5. Gaya Pandey : Developmental Anthropology
6. Gaya Pandey : Bhartiya Janajatiya Sanskriti
7. Vidyarthi & B. K. Rai : Tribal culture of India
8. Nadeem HUSSAIN : Tribal India
9. R. K. Verma : Janjatiya Atit Ke Jharokhe Se

**COURSE TITLE: ANTHROPOLOGY FOR FOOD AND NUTRITION WITH SPECIAL REFERENCE TRIBAL POPULATION OF INDIA (MAJOR ELECTIVE)  
COURSE CODE: MANTMET402(GROUP-B) FULL MARKS = 50(40+10)  
TOTAL LECTURES-50**

**UNIT -I** Human nutrition: Basic terms and concepts.

**UNIT –II** Brief outline of the nutrients of the human body. Human variation in food intake and nutritional requirements.

**UNIT -III** Malnutrition, undernutrition, overnutrition and obesity. Socio-cultural factors affecting nutrition.

**UNIT -IV** Energy requirements of the human body. Basal Metabolic Rate (BMR). Factors affecting the Basal Metabolic Rate.

**UNIT -V** Problems related to growth and nutrition. Groups at risk: infants, pregnant and lactating mothers, and old age persons.

- UNIT -VI** Determinants of nutritional levels: anthropometric clinical signs. Socioeconomic assessment of nutritional levels. Diet survey. Concept of standard and/or reference values of growth and nutritional status.
- UNIT -VI** Nutritional status of Indian with special reference to the tribals of West Bengal.
- UNIT -VII** Intervention programmes for the improvement of nutritional levels in India: Assessment and evaluation with special reference to tribals of West Bengal
- UNIT -VIII** Food habits – Attitude towards food, food taboos, food choices, food preferences with special reference tribal population of India

#### SUGGESTED READING

1. Nutrition and Behavior: A. Multidisciplinary Approach, John Worobey, Beverly J Tapper, CABI Publishing
2. Handbook of Nutrition and Immunity, M Eric Gershwin, M.D. (Editor), Penelope Nestel (Editor), Carl L Keen (Editor), Humana Press
3. Hidden Hunger: Gender and the Politics of Smarter Foods, Aya Hira Kimuta, Cornell University Press
4. Scaling Up Scaling Down: Overcoming Malnutrition in Developing Countries, Thomas J. Marchione (Editor), Routledge
5. The Escape from Hunger and Premature Death, 1700-2100: Europe, America, and the Third World, Robert William Fogel, Richard Smith (Editor), Jan De Vries (Editor), Cambridge University Press
6. Nutrition Assessment, Catherine Cowell, , Margaret D Simko, Aspen Publishers,
7. Hunger and Health: World Hunger Series 2007 : United Nations World Food Programme, Earth Scan
8. Growth, maturation & physical activity (2004) Malina, Robert M; Bouchard, Claude, Bar-Or, Oded. Human Kinetics.
9. Human growth and development by Cameron Noel (2002). St. Louis, Academic Press.
10. Patterns of human growth by Bogin, Barry (1999). Cambridge University Press.
11. Human biology: An introduction to human evolution, variation, growth & adaptability by Harrison, GA; Tanner, JM; Pilbeam, DR; Baker PT (1988). Oxford, England, Oxford University Press.
12. Proceeding on Human Physical Growth and Maturation by eds. Johnson, FE, Roche, AF, Susanne, C, (1980). Plenum Publishing Corporation.
13. Applied body Composition Assessment (2009) Heyward, VH; Wagner DR. Human Kinetic.

**COURSE TITLE: ADD-ON COURSE**  
**COURSE CODE: MANTACT403**  
**TOTAL LECTURES-50**

**FULL MARKS = 50**

**COURSE TITLE: PRACTICAL WORK (MAJOR ELECTIVE)**  
**COURSE CODE: MANTMES404 (GROUP-A)**      **FULL MARKS = 50(30+20)**  
**TOTAL LECTURES-50**

Practical work on Participatory Research Methods with relevance to the Tribal Studies

- UNIT- I**                      Identify significance of Participatory Research Methods to reach out to Tribal population
- UNIT-II**                     Illustrate the role of communication in IEC and BCC
- UNIT-III**                    Conduct different techniques of PRA and RRA in field situation with special emphasis on Social Mapping, Transect, Mobility Map, Time line, Trend analysis, Wealth Ranking, Body mapping, Venn Diagram, Seasonal Calendar, Matrix ranking, Pair-wise ranking, Pie diagram and SWOT analysis

**SUGGESTED READINGS:**

1. Ghosh, B.N: Scientific Method and Social Research, Sterling Publishers, New Delhi, 3rd Edition, 1985.
2. Young, V. Pauline: Scientific Social Surveys and Research, Prentice Hall of India, N. Delhi, 8<sup>th</sup> Indian Reprint, 1988.
3. Srivastava, V.K. 2004. Methodology and Fieldwork, OUP, New Delhi.
4. Danda, A.K. (1992) Research Methods in Anthropology Inter India Publication, New Delhi.
5. Pelto, Pretti, J & Gretal H. Pelto : Anthropological Research - the Structure of Inquiry.
6. Gibaldi, Joseph (2005): *MLA Handbook for Writers of Research Papers*, 6<sup>th</sup> Edition. Affiliated East West Press, New Delhi.

7. Gupta, S.P., (New Edition): *Statistical Methods*, Sultan Chand and Sons, New Delhi.
8. Ahuja, Ram, (New Edition) : *Research Methods*, Jaipur, New Edition.
9. Sharma, B.A.V., Ravindra Prasad, D. Satyanarayana, P.: *Research Methods in Social Sciences*, Sterling Publishers, New Delhi. New Edition.
10. Satyanarayana, B., Kishan Rao, S., Narasimhulu, M. (New Edition) *Research Methods in Social Sciences*, Himalaya Publishing House, Bombay

**COURSE TITLE: BIOLOGICAL ANTHROPOLOGY – PRACTICAL(MAJOR ELECTIVE)**

**COURSE CODE: MANTMES404 (GROUP-B)**

**FULL MARKS = 50(30+20)**

**TOTAL LECTURES-50**

<b>UNIT-I</b>	Assessment of nutritional status and body composition. Measurement of systolic and diastolic blood pressures.
<b>UNIT-II</b>	Measurement of Physical Fitness Index (PFI) by Harvard's step test. Measurement of VO <sub>2</sub> Max by step test method.
<b>UNIT-III</b>	Measurement of Body surface Area by Dubois and Dubois formula.
<b>UNIT-IV</b>	Dermatoglyphics: Fingers and palms: TFRC and AFRC. Landmarks identification
<b>UNIT-V</b>	Identification of genetic markers; PTC Threshold value, Karyotyping
<b>UNIT-VI</b>	Evaluation of Laboratory notebook and Viva-Voice.

**SUGGESTED READINGS:**

1. Bhasin and Bhasin: Sing :Laboratory manual in Biological Anthropology
2. Tulika Sen: A Guide to Anthropometry
3. Das, B.M & Ranjan Deka 2006 "Physical Anthropology Practical" Publisher - Kitab Mahal, Allahabad, India.
4. Weiner and Lourie. Human Biology – A Guide to Field Methods.
5. Weiss, K.M. & Ballonoff, P.A. Demographic Genetics.
6. Human growth and development by Cameron Noel (20U2). St. Louis, Academic Press
7. Growth, maturation & physical activity (2004) Malina, Robert M; Bouchard, Claude, Bar-Or, Oded. Human Kinetics



8. Patterns of human growth by Bogin, Barry (1999). Cambridge University Press.
9. Human biology: An introduction to human evolution, variation, growth & adaptability by Harrison, GA; Tanner, JM; Pilbeam, DR; Baker PT (1988). Oxford, England, Oxford University Press.
10. Applied body Composition Assessment (2009) Heyward, VH; Wagner DR. Human Kinetic.

**COURSE TITLE: PROJECT AND VIVA-VOCE**  
**COURSE CODE: MANTMES405                      FULL MARKS = 50**  
**TOTAL LECTURES-50**

**COURSE TITLE: PROJECT AND DISSERTATION**  
**COURSE CODE: MANTMEP406   FULL MARKS = 50**  
**TOTAL LECTURES-50**

**Preparation of the field report = 50 MARKS;**

[Students; irrespective of their specialization; are required to undertake Dissertation work on a selected topic under the supervision of a Departmental Teacher(s) and produce a report based on intensive field work for at least a Month . The report will be examined by a Board of Examiners and the concerned students will be required to appear for a Viva-voce test before Board of Examiners

**SUGGESTED READINGS:**

1. Ghosh, B.N: Scientific Method and Social Research, Sterling Publishers, New Delhi,
2. Danda, A.K. (1992) Research Methods in Anthropology Inter India Publication, New Delhi.
3. Pelto, Pretti, J & Gretal H. Pelto : Anthropological Research - the Structure of Inquiry.
4. Gibaldi, Joseph (2005): *MLA Handbook for Writers of Research Papers*, 6<sup>th</sup> Edition. Affiliated East West Press, New Delhi.
5. Gupta, S.P., (New Edition): *Statistical Methods*, Sultan Chand and Sons, New Delhi.
6. Ahuja, Ram, (New Edition) : *Research Methods*, Jaipur, New Edition.
7. Sharma, B.A.V., Ravindra Prasad, D. Satyanarayana, P.: *Research Methods in Social Sciences*, Sterling Publishers, New Delhi. New Edition.
8. Satyanarayana, B., Kishan Rao, S., Narasimhulu, M. (New Edition) *Research Methods in Social Sciences*, Himalaya Publishing House.