

VIDYASAGAR UNIVERSITY
MIDNAPORE -721 102,
WEST BENGAL, INDIA



DEPARTMENT OF ANTHROPOLOGY

Post Graduate Syllabus
in

ANTHROPOLOGY
Under Choice Based Credit System
(CBCS)

With effect from: 2018-19

PROGRAMME OUTLINES

1	PROGRAMME TYPE	The M. Sc. Programme is a regular programme for full-time students. It entails the Choice Based Credit System (CBCS) in order to facilitate student mobility across institutions within and across countries and also enable potential employers to assess the performance of students in terms of a uniform measure [the cumulative grade point average (CGPA)]* as per the UGC guidelines.
2	DURATION	The duration of the M. Sc. Programme is of two years. The programme comprises of 4 Semesters and commences from July.
3	INTAKE CAPACITY	<p>3.1 55 (fifty five). However, 60% seats are reserved for direct admission for the students of the Vidyasagar University (VU) and 40% seats are open for students of VU and Other Universities (OU), who will be admitted through written Admission Test.</p> <p>3.2 Seats are reserved for SC, ST, PH, OBC-A and OBC-B candidates as per the norms.</p>
4	ADMISSION PROCEDURE	<p>4.1 The admission is open to those who have obtained Bachelor's degree in Anthropology/Tribal Studies/Sociology or an allied discipline with at least 55% marks for General students and 50% marks for SC/ST/PH/OBC-A/OBC-B candidates in the aggregate or an equivalent grading with 10+2+3 year scheme.</p> <p>4.2 At the beginning of the IIIrd Semester, each candidate will have to indicate his/her priorities in regard to the elective courses he/she would like to choose based upon the specialization opted for. Keeping these in view, the Departmental Committee will finally decide the courses to be offered in that academic year.</p>
5	ATTENDANCE	A student, admitted to the M. Sc. Programme, is required to attend not less than 75% of the total number of lectures, seminars and practical held.
6	FEE STRUCTURE	The Course fee and the examination fee will be fixed by the university and the fee structure can be revised by the university from time to time.

7	EXAMINATION & EVALUATION SCHEME	7.1	During the I st Semester in 1 st year of M. Sc. programme, students have to study 6 Core Courses (CC). Each course is of 4 credits.
		7.2	During the II nd Semester, students have to study 5 Core Courses (CC) and one Elective Course (EC) out of a pool of such courses offered by the other disciplines in Vidyasagar University. Each course is of 4 credits.
		7.3	During the III rd Semester (2 nd year), students have to study 5 Core Courses in connection and one Elective Course (EC) out of a pool of such courses offered by the other disciplines in the university.
		7.4	At the beginning of the III rd Semester, each eligible student have to opt for the specialization programme in connection with the Dissertation work and for the available Elective Courses accordingly. The Department of Anthropology offers two specialization programmes on (i) Biological Anthropology and (ii) Socio-Cultural Anthropology.
		7.5	After completion of the III rd Semester, the Departmental Committee will assign for every student a teacher who shall supervise the student during the course of Dissertation fieldwork and writing of the dissertation report.
		7.6	The evaluation of the dissertation shall be undertaken at the end of the 2 nd year. It will be evaluated by the Internal and External Examiners.

**For clarification and details, please see the UGC (www.ugc.ac.in) and the VU (www.vidyasagar.ac.in) Guidelines on Choice Based Credit System (CBCS).*

PROGRAMME OUTCOME

- (i) After completion of the course, students will hold both theoretical as well as practical knowledge of the subject matters of Anthropology which will be helpful for their future academic or research career.**
- (ii) To develop among the students the knowledge as well as habits of collection, documentation, and analysis of data of anthropological importance.**
- (iii) To develop among students the leadership and management skills on the aspects such as survey-based research, ethnographic studies, or development projects in public and community domain through exhibitions and publications.**
- (iv) After completion of the course, the students may be able to compete in any state or national level competitions, or interviews based on Anthropology, rural development, or allied disciplines.**
- (v) After completion of the course, the students may seek jobs in different cultural-management, community-development, and rural development organizations. The candidates may also be able to work in different governmental as well as non-governmental organizations (NGOs).**

M.Sc. in Anthropology CURRICULUM STRUCTURE

Semester	Course Type	Course Code & Type	Course Name	Marks	Credit Points
I	Core courses	ANT 101 T	Fundamentals of Anthropology	50	4
		ANT 102 T	Biological Anthropology	50	4
		ANT 103 T	Socio-Cultural Anthropology	50	4
		ANT 104 T	Prehistoric Archaeology and Palaeoanthropology	50	4
		ANT 105 T	Indian Anthropology	50	4
		ANT 196 P	Prehistory and Palaeoanthropology	50	4
II	Core courses	ANT 201 T	Research Methodology	50	4
		ANT 202 T	Human Genetics and Human Variation	50	4
		ANT 203 T	Indian Society and Culture	50	4
	CBCS	C-ANT 204 T	Foundations of Anthropology	50	4
	Core courses	ANT 295 P	Ethnographic Fieldwork	50	4
		ANT 296 P	Biological Anthropology - I	50	4
Specialization Programs(2)		Group A - <i>Biological Anthropology</i> Group B - <i>Socio-Cultural Anthropology</i>			
III	Core Elective	ANT 301A T	Fossil Primates and Hominization	50	4
		ANT 301B T	Ecological Anthropology		
		ANT 302A T	Human Growth and Nutrition	50	4
		ANT 302B T	Theories in Socio-Cultural Anthropology	50	4
		ANT 303A T	Demographic Anthropology	50	4
		ANT 303B T	Anthropology of Religion and Ethnicity	50	4
	CBCS	C-ANT 304 T	Biocultural Anthropology	50	4
	Core Elective	ANT 305A T	Biocultural Aspects of Health and Disease	50	4
		ANT 305B T	Development Anthropology	50	4
		ANT 396A P	Biological Anthropology - II	50	4
		ANT 396B P	Problem-based empirical work	50	4
IV	Core Elective	ANT 401A T	Human Population Genetics	50	4
		ANT 401B T	Economic and Political Anthropology	50	4
		ANT 402A T	Human Evolution and Adaptation	50	4
		ANT 402B T	Anthropology of Complex Society		
		ANT 403A T	Medical Genetics	50	4
		ANT 403B T	Medical Anthropology		
		ANT 404A T	Applied Biological Anthropology	50	4
		ANT 404B T	Emerging Areas of Socio-Cultural Anthropology		
	ANT 495 P	Literature Review and Project Proposal	50	4	
	ANT 496 P	Dissertation Field report and Viva-voce	50	4	

Notes: 1. Second digit in the course code: 0 = theoretical, 9 = practical
2. T= Theory; P= Practical

1st Year Semester I

(Total marks: 300/ Total Credits: 24)

1. Course code : **ANT 101**

Course name : **Fundamentals of Anthropology**

Marks : Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P): 3+1+0=4

- 1.1 Meaning and Scope of Anthropology. Major sub-disciplines of Anthropology and their relationships.
- 1.2 Tracing the historical roots of Anthropology. Development of the discipline in India.
- 1.3 Relationship of Anthropology with biological and social sciences.
- 1.4 Meaning, scope and branches of the sub-disciplines of Anthropology.
- 1.5 Uniqueness of Anthropology.
- 1.6 Bio-cultural Synthesis.
- 1.7 Anthropology as a holistic and integrated discipline. Different types of holism in Anthropology: biocultural, environmental and sociocultural holism.
- 1.8 Anthropological fieldwork methods: basic characteristics. Different methods (participant observation, interview, case study, life history, and genealogy) and techniques of data collection, and their advantages and limitations.
- 1.9 Sources of data in Anthropology. Techniques of data collection. Use of questionnaire, schedule, maps and photography.
- 1.10 Types of data. Statistical tools for data analysis.
- 1.11 Recent and emerging trends in all branches of Anthropology. Ethical issues in Anthropology.

Recommended readings:

1. Davis, Kingsley. 1949. *Human society*. New York: Macmillan Co.
2. Ember, Ember and Peregrine. (2003). *Anthropology*. Prentice Hall Inc.
3. G.W. Lasker. (1976). *Physical Anthropology*, Holt, Rinehart & Winston Inc.
4. Ingold, Tim. 1994. *Companion Encyclopedia of Anthropology*. Routledge reference. London: Routledge.
5. Metcalf, Peter. 2005. *Anthropology: the basics*. Abingdon [England]: Routledge.
6. Nadel, S. F. 1951. *The Foundations of Social Anthropology*. Glencoe, III: Free Press.
7. Neison. (2002). Wadsworth Group, Canada.
8. Relethford, John. H. *Fundamentals of Biological Anthropology*, (1996) (Third Ed). Mc Graw-Hill.

9. Standford, Allen, John. S, Anton, Susan C. *Exploring Biological Anthropology: The Essentials*. Prentice Hall.
10. Turnbaugh, N A, R. Jurmain, L. K. *Understanding Physical Anthropology and Archaeology*. Iгоре H.
11. Z- Barnard, Alan. 2000. *History and Theory in Anthropology*. Cambridge, U.K.: Cambridge University Press.

Course Outcome:

1. The objective of this course is to acquaint students with the basics of the subject Anthropology and the subject matter of the discipline.
2. Through this course, the students will be introduced to the meaning and scope of Anthropology, its major sub-disciplines, uniqueness and the relationship of the subject with allied biological and social sciences.
3. Through this course, the students will also be introduced to the types and sources of data and information anthropologists deal with as their subject matter.
4. The students will also come to know the new trends in the subject and the new sub-disciplines that have emerged.

2. Course code : **ANT 102**
 Course name : **Biological Anthropology**
 Marks : Theoretical - 40 + Internal Assessment - 10 = 50
 Credits (L+T+P): 3+1+0=4

- 2.1 Concept about origin of life; theory of organic evolution.
- 2.2 Theories of evolution: Lamarckism, Darwinism, Neo-Darwinism; Mutation theory, Synthetic theory – mechanisms of evolution.
- 2.3 Evidences of Evolution: morphological, embryological, paleontological, geological, histological evidences.
- 2.4 Primate: Emergence and Evolution. Evolutionary changes of primates.
- 2.5 Earliest Primates: *Aegyptopithecus*, *Propliopithecus*, *Dryopithecus*, *Proconsul*
- 2.6 Living Primates: Distribution, characteristics and classification; Phylogeny and taxonomy.
- 2.7 Primate behavior: Evolution of behaviour; Patterns of social behaviour; reproductive behaviour.

- 2.8 Biocultural evolution and hominization process. Gene-Culture coevolution theory. Human origin: out of Africa and multiregional theories.
- 2.9 Comparative anatomy of man and nonhuman primates with special reference to skull, pelvis, dentition and long bones; Evolution of brain and senses.
- 2.10 Great ape (Gorilla, Chimpanzee and Orangutan): Characteristic features and phylogeny; Similarities and differences with Human.
- 2.11 Characteristics and position of man in animal kingdom.

Recommended readings:

1. Ashley Montague. *Physical Anthropology and Archaeology*
2. Ashley Montague: *Concept of Race*
3. Backer, P.T. and Weiner (Eds.) *Biology of Human Adaptability*
4. Bodmer and Cavalli Sforza. *Genetics, Evolution and Man*
5. Buettner-Janusch: *Origins of Man*
6. Cox, P. *Demography*
7. Das, B.M. *Outlines of Physical Anthropology*. New Delhi: Kitab Mahal
8. Emery, A.E.H. *Elements of Medical Genetics*
9. Harrison, et.al. *Human Biology*
10. Mange and Mange. *Basic Human Genetics*
11. Marrell: *Evolution and Genetics*
12. S.S. Sarkar: *Aboriginal races of India*
13. Sahlins and Service: *Evolution and Culture*
14. Shukla, B.R.K. and Rastogi, S.: *Physical Anthropology and Human Genetics -An Introduction*
15. Simpson, G.G.: *The meaning of Evolution*
16. Vogel, F. and Motulsky, A.C. *Human Genetics - Problems and Approaches*
17. Weiner and Lourie. *Human Biology - A Guide to Field Methods*
18. Williams, B.J.: *Evolution and Human Origin*
19. M. H. Day. (1965) - *Guide to Fossil Man*
20. J. R. Napier and P. H. Napier (1976) - *Handbook of Living Primates*
21. John Buettner-Janusch - *Origins of Man: Physical Anthropology*
22. E. A. Hooton - *Up from the Ape*
22. E. A. Schultz R. H. Lavenda - *Anthropology (2nd Ed.)*
23. C. R. Ember, M. R. Ember and P. N. Peregrine (2011) - *Anthropology (13th Ed.)*
24. W. Haviland, H. E. L. Prins and D. Walrath (2008) - *Introduction to Anthropology*
25. P.L. Stein and B.M. Rowe (1989) - *Physical Anthropology*

COURSE OUTCOME:

1. The objective of this course is to acquaint students with the theories related to the evolution of humans and their relation with other non-human primates.
2. Through this course, the students will be introduced to different theories and evidence related to the organic evolution.
3. Through this course, the students will also be introduced to the emergence, evolution, and behavior of both the extinct and living human and non-human primates.
4. The students will also come to know the characteristics, similarities, and dissimilarities among the man and other living primates and also position of man in animal kingdom.

3. Course code : **ANT 103**

Course name : **Socio-Cultural Anthropology**

Marks : Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P): 3+1+0=4

- 3.1 Concept of culture. Totalist, mentalist and symbolic concepts of culture. Humanistic and anthropological approaches to culture.
- 3.2 Features of culture. Culture trait, Culture complex and culture area.
- 3.3 Attributes of culture concept: learned and historically derived, plurality, relativity, functional integration, holism, behavioural determinism.
- 3.4 Relationship between society and culture. Concept of acculturation, innovation, culture-contact and culture change.
- 3.5 Concepts of institution, social status and role. Social stratification: caste and class.
- 3.6 Social organization. Family, marriage, kinship. Rules of inheritance and types of descent groups: patrilineal, matrilineal, bilineal, bilateral, parallel, cross descents. Dual divisions
- 3.7 Concept of Religion. Elements of Religion: *Animism*, Ancestor Worship, Sacrifice, Myth and Ritual, Taboo, Totem, *Mana*.
- 3.8 Magic: Concept, types, functions. Relation with Religion. Witchcraft, sorcery, divination, cult, priest, shaman.
- 3.9 Application of Sociocultural Anthropology in human development. Role of social cultural anthropology in Social Impact Assessment (SIA) and in formulating developmental policies related to land, forest and water.

Recommended readings:

1. Barnet, H.G. *Innovation. The Basis of Culture Change*
2. Dalton, George. *Tribal and Peasant Economies: Readings in Economic Anthropology*
3. Evans-Prichard, E.E. *Social Anthropology*
4. Foster, G.M. *Traditional Cultures and Impact of Technological Change*
5. Fox, Robin. *Kinship and Marriage*
6. Harris, Marvin. *Cultural Anthropology*
7. Honigman, J. *Handbook of Social and Cultural Anthropology*
8. Kluckhohn, C. *Mirror for Man*
9. Mair, Lucy. *An Introduction to Social Anthropology*, Oxford University Press
10. Malinowski, B.A. *Scientific Theory of Culture and Other Essays*
11. Radcliffe-Brown, A.R. *Structure and Function in Primitive Society*
12. Rogers, E.M. & Shoe Maker, F.F. *Communication of Innovation*
13. Rogers, E.M. *Diffusion of Innovation*
14. Sahlins & Service. *Evolution and Culture*. The University of Michigan Press, Ann Arbor

Course Outcome:

1. The objective of this course is to acquaint students with the different concepts and features of the culture and attributes of culture concept.
2. Through this course, the students will be introduced to the concepts of social structure, social organization, culture transmission and change, and the relation between the society and the culture.
3. Through this course, the students will also be introduced to the different concepts related to magic and religion.
4. The students will also come to know the application of the socio-culture anthropological knowledge in the human development and in policy making.

4. Course code : **ANT 104**
Course name : **Prehistoric Archaeology and Palaeoanthropology**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P): 3+1+0=4

- 4.1 Prehistoric Archaeology: definition, aim and scope. A brief outline of geological time scale. Eras, epochs and periods.
- 4.2 Quaternary geology and its importance. Pleistocene epoch in the study of human biocultural evolution.

- 4.3 Major environmental episodes of Pleistocene and Holocene. Evidences for reconstruction of palaeoenvironment: geomorphological, sedimentological, pedological, palaeontological and palaeobotanical.
- 4.4 Dating: absolute and relative dating. Dating Methods: stratigraphy, palaeomagnetic, river terraces, dendrochronology, thermoluminescence, pollen analysis, verve analysis, C-14, potassium-argon and Fluorine-Uranium-Nitrogen method.
- 4.5 Tools and artefacts: raw materials and sources. Tool making technology and tool typology.
- 4.6 Distribution and typo-technological features of cultural traditions during Palaeolithic, Mesolithic and Neolithic with special references to Europe and India.
- 4.7 Features of Neolithic revolution: emergence of agriculture and domestication of animals. Different theories of domestication and consequences of domestication.
- 4.8 Protohistoric period and the rise of civilization. Salient features of civilization.
- 4.9 Indus valley civilization: Origin, distribution, features and causes of decline. Megalithic culture.
- 4.10 Ethnoarchaeology: Meaning, scope and usefulness in the reconstruction of cultural evolution. Concepts and aspects of cultural resource and heritage management.

Recommended readings:

1. Agrawal, D.P. *The Archaeology of India*, Curzon Press
2. Allchin, B. and R. Allchin. (1982). *The Rise of Civilization in India and Pakistan*. Cambridge: Cambridge University Press.
3. Bailey, G. and P. Spikins (eds.). (2008). *Mesolithic Europe*. Cambridge-. Cambridge University Press.
4. Banerjee. *Iron Age in India*, MunshiramManoharlal
5. Barmown, Victor. *Physical Anthropology and Archaeology*, The Dorse Press Home Wood,
6. Bhattacharya, D.K. (2006). *An outline of Indian Prehistory*. Delhi: PalakaPrakashan.
7. Binford, L.R. *An Archaeological Perspective*, Seminar press
8. Bordes, F. *Old Stone Age*, Weidenfeld and Nicolson
9. Brothwell, D. & Higgs, E. (Ed), *Science in Archaeology*, Thames & Hudson
10. Budtzer, K.W. *Environment and Archaeology*
11. Burkitt, M. C. (1963). *The Old Stone Age: A study of Palaeolithic Times*. London: Bowes and Bowes. University Press
12. Clark, D.L. *Analytical Archaeology*, Methuen & Co. Ltd
13. Coles, J.M. and E.S. Higgs. (1969). *The Archaeology of Early Man*. London: Faber and Faber.
14. Davidson D.A. and Geoarchaeology Earth Sciences and Past, Duckworth, Shackley M.L.: London
15. Evans J.G. *Environment Archaeology*, Paul Elek
16. Fagan B. M. (2004). *People of the Earth: An Introduction to World Prehistory*. New Jersey: Pearson Education.

17. Hole, H. and R.F. Heizer. (1969). *An Introduction to Prehistoric Archaeology*. New York: Hold, Rinehart and Winston, INC.
18. Jain, K.C. Prehistory and Protohistory.....
19. James, J. Hester, *Introduction to Archaeology*, Holt, Rinehart and Winston
20. Lee, R.B and I. Devore (Eds.). 1977. *Man the Hunter*. Chicago: Aldine Publishing Company.
21. Michel, J.W. *Dating Methods in Archaeology*, Seminar Press
22. Oakley, K.P. 1966. *Frameworks for dating Fossil man*. London: Weidenfeld and Nicolson.
23. Possehl, G. L. 2002. *The Indus Civilization: Contemporary Perspectives*. New Delhi: Vistaar Publication.
24. Renfrew, C. (ed.). 1973. *The Explanation of culture change: Models in prehistory*. London. Duckworth.
25. Renfrew, C. and P. Bahn. 2001. *Archaeology: Theories methods and Practices*, London: Thames and Hudson.
26. Sakalia, H.D. *New Archaeology - Its Scope and Application to India*. Ethnographic and Folk Culture Society
27. Sankalia, H. D. 1977. *Prehistory of India*. Delhi: MunshiramManoharlal Publishers Pvt. Ltd.
28. Sankalia, H.D. *Stone Age Tools, Families and Techniques*. Deccan College: Pune
29. Sankalia, H.D.1974. *Prehistory and Protohistory of India and Pakistan*. Pune: Deccan College.
30. Wheeler R.B.M. *Archaeology from the Earth*, Penguin Books
31. Zeuner, F.E. *Pleistocene Period*, Hutchinson

Course Outcome:

- 1. The objective of this course is to acquaint students with the basics, subject matters and outlines of the prehistoric archaeology and palaeoanthropology.**
- 2. Through this course, the students will be introduced to the major geological episode during and outline description of the Quaternary period.**
- 3. Through this course, the students will also be introduced to the different dating methods used in archaeological research.**
- 4. The students will come to know the outline description of different tools and artifacts, distribution and features of cultural traditions.**
- 5. The students will come to know the about the features of proto-historic period and the features of civilization.**
- 6. The students will also come to know the basics and subject matters of Ethnoarchaeology.**

5. Course code : **ANT 105**
Course name : **Indian Anthropology**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P): 3+1+0=4

- 5.1 A brief outline of the development of Anthropology in India
- 5.2 Major developmental phases: formative, constructive and analytical periods.
- 5.3 Regional development of Anthropology: USA, UK, Germany, France, Latin America, China, Japan, Nepal and Bangladesh.
- 5.4 Life and works of some pioneering anthropologists of India: S. C. Roy, A.K. Iyer, Panchanan Mitra, Verrier Elwin, B. S. Guha, B. N. Dutta, K. P. Chattopadhyay, S. S. Sarkar, T. C. Das, Irawati Karve, N. K. Bose, and D. N. Majumder.
- 5.5 A brief outline of some notable contributions in Indian Anthropology in the post-independent period: S. R. K. Chopra, M. N. Srinivas, André Beteillé, L. P. Vidyarthi, S.C. Sinha, P.K. Ganguly, K.C. Malhotra and A. Basu.

Recommended readings:

1. Agrawal, D.P. *The Archaeology of India*. Curzon Press, London
2. Allchin, B & Allchin, R. *The Rise of Civilization in India and Pakistan*. Cambridge University Press
3. Dube S.C. *India's Changing Villages*.
4. Haimendorf, C. *Tribes of India, the struggle for survival*.
5. Karve, Irawati. *Hindu Society - an interpretation*
6. Karve, Irawati. *Kinship Organisation in India*
7. Leach, E.R. *Aspects of Caste in South India, Ceylon and North-West Pakistan*
8. Mandelbaum, D. *Society in India*
9. Marriot, M. *Village India: Studies in the Little Community*.
10. Sankalia, H.D. *Pre and Proto History of India and Pakistan*. Deccan College, Pune
11. Singer, M. *When a Great Tradition Modernizes*
12. Singh, K. *People of India: An Introduction*. Anthropological survey of India, Calcutta
13. Singh, K.S. *Tribal Society in India*
14. Srinivas, M.N. *Social Change in Modern India*
15. Vidyarthi, L.P. *Sacred complex of Kashi. A microcosm of Indian Civilization*, Concept Publication, New Delhi.

Course Outcome:

1. The objective of this course is to acquaint students with the different development phase of the Anthropology both in India and other countries in the world.

2. Through this course, the students will be introduced to the life and works of pioneer Indian anthropologists.

3. The students will also come to know some notable contribution by the Indian anthropologists after independence.

6. Course code: **ANT 196**

Course name : **Prehistory and Palaeoanthropology**(Practical)

Marks : Practical –40 + Viva-voce – 10 = 50

Credits (L+T+P): 0+0+4=4

6.1 Description, identification and drawing of hominid fossils.

6.2 Drawing, description and identification of Prehistoric stone tools of different cultural periods.

6.3 Evaluation of Laboratory notebooks.

6.4 Viva-voce.

Recommended readings:

1. Bhattacharya, D.K. (1979). *Old Stone Age Tools: A Manual of Laboratory Techniques of Analysis*. Calcutta: K. P. Bagchi and Company.
2. Binford L.R. *Ancient Man and Modern Myths*, Academic Press
3. Cronwall I.W. *Bones for the Archaeologists*, Phoenix
4. Ghoshmaulik S.K., Rath, Basanti and Mishra, S.K., *Practical Anthropology*, Society for Anthropological and Archaeological Studies, Orissa
5. Inizan, M.L., M. R. Ballinger, H. Roche and J. Tixier. 1999. *Technology and terminology of Knapped Stone*. Nanterre: CREP.
6. Oakley, K.P. (1972). *Man the Tool Maker*. London. Trustees of the British Museum of Natural History.
7. Paddar, S.R. and Bhagat, A. *Hand Book of Osteology*
8. Sankalia, H.D. (1982). *Stone Age Tools: Their techniques, Names and Probable Functions*. Poona: Deccan College.

Course Outcome:

1. The objective of this course is to acquaint students with the practical facet of the syllabus of prehistoric archeology.

2. Through this course, the students will be introduced to the identification characteristics, brief description of the hominid fossils.

3. The students will also come to know the identification characteristics, brief description of the tools of different cultural periods.

Semester II

(Total marks: 300/ Credits: 24)

Core Courses

7. Course code : **ANT 201**
Course name : **Research Methodology**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P): 3+1+0=4

- 7.1 Definition of research and its characteristics. Research Question. Method, techniques, and methodology.
- 7.2 Concept, proposition, hypothesis and theory.
- 7.3 Research design. Definition and steps. Types of research design. Treatment and control groups.
- 7.4 Fieldwork tradition in Anthropology. Pre-Malinowskian, Malinowskian and Post-Malinowskian fieldwork styles and the writing of ethnography.
- 7.5 Participant observation: features, merits and limitations. Emic and etic approaches in Anthropology.
- 7.6 Comparative method in Anthropology. Cross-cultural comparison and Human Relation Area File. Controlled comparison in Sociocultural Anthropology.
- 7.7 Sources of Data. Quantitative, qualitative and mixed research. Combining quantitative and qualitative data in Anthropology.
- 7.8 Ethnography as a method in Anthropology. Importance of field diary in Anthropological fieldwork.
- 7.9 Methods and styles in research writing with special reference to Anthropology.
- 7.10 Ethical guidelines in research on human society

Recommended readings:

1. Danda, Ajit. *Research Methodology in Anthropology*. Inter-India: New Delhi
2. Fernandes&Tandon. *Participatory Research*
3. Fischer, Michael. *Applications in Computing for Social Anthropologists*. Routledge,
4. Goode &Hatt. *Methods in Social Research*
5. H. Russel, Bernard. *Handbook of Methods in Cultural Anthropology*, Altamira Press
6. Haster J., *Introduction to Archaeology*, Holt, Rinehart & Winston
7. Kaplan, Abraham. *The Conduct of Enquiry: Methodology for Behavioral Sciences*.
8. Kassam& Mustafa. *Participatory Research*
9. Mukherjee, Neela. *Participatory Rural Appraisal and Questionnaire Survey*

10. Pelto P.S. & Pelto G.H. *Anthropological Research: the structure of inquiry*, Cambridge
11. Renfrew C. (Ed), *The Explanation of Culture Change: Models in Prehistory*, Duckworth
12. Trigger B.G., *Beyond History the Methods of Prehistory*, Holt, Rinehard & Winston University Press, London
13. Wheeler R.B.M., *Archaeology from the Earth*, Penguin Books
14. Young, Pauline. *Scientific Social Surveys and Research*
15. Madrigal, Lorena. *Statistics for Anthropology*

Course Outcome:

1. The objective of this course is to acquaint students with the brief description and characteristics of the research methodology.
2. Through this course, the students will be introduced to the emergence of fieldwork tradition in anthropology and the writing of ethnography.
3. The students will also come to know the different methods and their brief description used in the Anthropology and the source and types of data used in anthropological study.
4. The student will also come to know the ethical guide-lines of research study in human society.

8. Course code : **ANT 202**
 Course name : **Human Genetics and Human Variation**
 Marks : Theoretical - 40 + Internal Assessment - 10 = 50
 Credits (L+T+P): 3+1+0=4

- 8.1 History and development of Human Genetics; Scope and Branches.
- 8.2 Mendel's Laws of Inheritance and its application. Mendelian Genetics in Man: autosomal and sex-linked inheritance, dominant and recessive inheritance, sex controlled and sex limited inheritance; co-dominance. Polygenic inheritance.
- 8.3 Cell structure, Cell division; linkage and crossing over
- 8.4 Structure and Function of DNA, RNA, Proteins, Concept of Gene, Genetic Code and its Expression: Replication, Transcription and Translation; lethal gene; Solenoid model, nucleosome; Concept of Mutation.
- 8.5 Chromosomes in Man: Structure, Identification; Normal Human Karyotyping and Banding; Chromosomal aberrations: Structural and Numerical
- 8.6 Genetics of disease. Gene-environment interaction.
- 8.7 Methods of studying Inheritance: Twin method, Pedigree, sib pair, foster child method and co-twin methods.

- 8.8 Role of heredity and environment: Stature, Skin color, Intelligence.
- 8.9 Human variation: Morphological trait- Skin colour, Hair; Quantitative trait- Stature, Head shape; Genetic marker- Blood group, Hemoglobin variants. Distribution and causes of Human Variation.
- 8.10 Historical overview of concept of Race, Criteria of Racial Classification, Genetic aspects of race mixture. Racism, UNESCO Statement on Race. Racial classification; racial classification of Indian population.

Recommended readings:

1. Bhamrah and Chaturvedi. *A Text Book of Genetics*
2. Dalela and Verma. *A Text Book of Genetics*
3. Emery, A.E.H. *Elements of Medical Genetics*
4. Harrison et.al. *Human Biology*
5. Mange and Mange. *Basic Human Genetics*
6. Rothwell, N.V. *Human Genetics*
7. *Living Races of Man – C. S. Coon*
8. *Principles of Genetics (6th Ed.) – E. J. Gardner and D. P. Snustad*
9. *Human Genetics -Friedrich Vogel and Arno G. Motulsky*
10. *Aboriginal Races of India – S. S. Sarkar (1954)*
11. *An Introduction to Anthropology – R. L. Beals and H. Hoijer*
12. *Introduction to Physical Anthropology – B. M. Rowe and P. L. Stein (1978)*
13. *Principles of Human Genetics – Curt Stern (1960)*
14. *Guide to Fossil Man- A Handbook of Human Paleontology – M. Day(1971)*

Course Outcome:

- 1. The objective of this course is to acquaint students with the History, development and subject matters of the Human Genetics.**
- 2. Through this course, the students will be introduced to the different methods of study of inheritance and the relation between heredity and environment.**
- 3. The students will also come to know the cause and distribution of human variation.**
- 4. The student will also come to know the overview and the statement on Race, Racial classification of Indian population.**

9. Course code : **ANT 203**
Course name : **Indian Society and Culture**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P): 3+1+0=4

- 9.1 Tribal Society, characteristic features of tribe. Segmentary organization.
- 9.2 Redistribution and reciprocity. Potlach and Kula.
- 9.3 Distribution of tribes in India. Linguistic classification of tribal people in India.
- 9.4 Tribal economy: concept, features and types in India.
- 9.5 Concept of *Varna*, *ashram*, *jati* and caste.
- 9.6 Origin of caste. Theories on Caste – A brief outline. Anthropological contributions of B. R. Ambedkar on the origin of caste. Changing interpretations of caste. Dominant caste. Dalits. Caste and politics.
- 9.7 Tribe-caste continuum. Tribe, caste and nation.
- 9.8 Linguistic classification of India – Grierson and S.K. Chatterjee.
- 9.9 The geographical background of Indian culture. Social organization of India.
- 9.10 Village studies in India and its significance.
- 9.11 Village solidarity. Factionalism.
- 9.12 Social change in India – Anthropological perspectives. little and great traditions, universalization and parochialization, Sanskritization and Islamization, Westernization, Modernization. Urbanization, Industrialization, folk-urban and tribe-caste continuum.
- 9.13 Other concepts - dominant caste, Nature-Man-Spirit complex, and sacred complex.

Recommended readings:

1. An Introduction to Social Anthropology by Dharendra Nath Majumdar and Triloki Nath Madan National Publishing House / Mayoor, 1989.
2. An Introduction to Social Anthropology by Makhan Jha, 2003.
3. Linguistic Survey of India by Grierson 1906.
4. The Little Community, Peasant Society, and Culture by Robert Redfield, 1960.
5. The Remembered Village by M.N. Srinivas, 1978.
6. The Dominant Caste and Other Essays by M.N. Srinivas, 1987.
7. Caste in Modern India by M.N. Srinivas, 1962.
8. Indian: Social Structure by M.N. Srinivas, 1969.

9. Nature-Man-Spirit Complex in Tribal India, LP Vidyrathi, edited by R.S. Mann, 1981.
10. Social Change in Modern India by M.N. Srinivas, 1966.

Course Outcome:

1. The objective of this course is to acquaint students with the geographical background of Indian culture, tribal society, and village study.
2. Through this course, the students will be introduced to the linguistic distribution of Indian tribe, tribal economy and its brief description.
3. The students will also come to know the theories and features of *varna* and caste system in India.
4. The student will also come to know the social change in India and other complex theories related to the society and culture.

10. Course code : **C-ANT 204**
Course name : **Foundations of Anthropology**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P) : 3+1+0=4

- 10.1 Anthropology: definition, objectives, scope and branches. Anthropology as a multidisciplinary subject.
- 10.2 Uniqueness of Anthropology: holism, comparative method and fieldwork.
- 10.3 Relation of Anthropology with different biological and social sciences.
- 10.4 History of development of Anthropology; major phases of development of Anthropology in India.
- 10.5 Origin of man. Man's place in the animal kingdom.
- 10.6 Biological basis of inheritance in man: cell, chromosome, gene, DNA, RNA.
- 10.7 Fieldwork and its importance in Anthropology. Fieldwork methods: observation, interview, case study, genealogy and sampling.
- 10.8 Geographical distribution and subsistence activities of the Indian tribes.
- 10.9 Problems of Indian tribal population: poverty, malnutrition, illiteracy, indebtedness, displacement, and social unrest.

10.10 Caste system in India: definition, features and changes.

Recommended Readings:

1. Anthropology: Study of man by Indrani Basu Roy, 2010.
2. *An Introduction to Anthropology* – R. L. Beals and H. Hoijer
3. *Introduction to Physical Anthropology* – B. M. Rowe and P. L. Stein (1978)
4. *Principles of Human Genetics* – Curt Stern (1960)
5. *An Introduction To Physical Anthropology* - Montagu M.F. Ashley (1960)
6. *Caste in Modern India* - M.N. Srinivas, 1962.
7. *An Introduction to Social Anthropology* by Makhan Jha, 2003.

Course Outcome:

1. The objective of this course is to acquaint students with the basics of the subject Anthropology and the subject matter of the discipline.
2. Through this course, the students will be introduced to the meaning and scope of Anthropology, its major sub-disciplines, uniqueness and the relationship of the subject with allied biological and social sciences and the history and development of the discipline.
3. Through this course, the students will also be introduced to the fieldwork and its importance, methods, types and sources of data and information anthropologists deal with as their subject matter.
4. The students will come to know the geographical distribution, subsistence activities of tribal population in India.
5. The students will also come to know the problems of the tribal population and the caste systems in India.

11. Course code : **ANT 295**
Course name : **Ethnographic Fieldwork** (Practical)
Marks : Evaluation of Field Report: 40 + Viva-voce: 10 = 50
Credits (L+T+P): 0+0+4=4

- 11.1 Fieldwork under the supervision of departmental teacher (s) for at least 10 days in a tribal or non-tribal area preferably in a rural setting.
- 11.2 Village map, census and economic pursuits.
- 11.3 BMI and information on health awareness.
- 11.4 Panchayat, developmental schemes, governance and politics.
- 11.5 Rites of passage, rituals and festivals.

11.6 Analysis and interpretation of data and report writing.

Course Outcome:

- 1. The objective of this course is to acquaint students with the fieldwork situation in real life.**
- 2. The student will come to know the methodological approach used in the anthropological fieldwork in real-life experience.**

12. Course code : **ANT 296**
Course name : **Biological Anthropology - I (Practical)**
Marks : Practical - 40 + Viva-voce - 10 = 50
Credits (L+T+P): 0+0+4=4

- 12.1 Somatometric measurements. Indices: cephalic, nasal and height-weight indices.BMI
- 12.2 Somatoscopy and Somatotype
- 12.3 Osteology
- 12.4 Colour blindness test and PTC
- 12.5 Evaluation of Laboratory notebooks.
- 12.6 Viva-voce.

Recommended readings:

1. Singh I.P. and Bhasin M.K. *Anthropometry*

Course Outcome:

- 1. The objective of this course is to acquaint students with the practical facet and instrumental used in the somatometry, somatoscopy and somatotype.**
- 2. The student will come to know about the different indices and test used in Anthropometry on practical basis.**

2nd Year

Specialization Programmes

Group A- Biological Anthropology, Group B - Socio-cultural Anthropology

Semester III

(Elective Courses; Total marks: 300/ Credits: 24)

Core Courses

13. Course Code : ANT 301A

Course Name: Fossil Primates and Hominization

Marks : Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P) : 3+1+0=4

- 13.1 Trends in Hominid Evolution: Territoriality, Erect posture and Bipedalism, Changes in dentition, Encephalisation,
- 13.2 Major Anatomical changes in human body Changes in Skull, Mandible and Dentition; Vertebral Column, Pelvis, Hands, Legs and feet;
- 13.3 Evolution of other Systems. Evidence from the Brain and Sense Organs. Culture
- 13.4 Molecular evidence: Morris Goodman, Sarich and Wilson, Evolution of chin.
- 13.5 Hominid Precursors and Early Hominids; Brief discussion: *Dryopithecines*, *Ramapithecus* and *Shivapithecus*, *Sahelanthropus tchadensis*, *Orrorintogenensis*, *Ardipithecus ramidus*, *Australopithecus baharelgazali*, *Australopithecus anamensis*, *Australopithecus africanus*, *Australopithecus afarensis*, *Australopithecus robustus*, *Australopithecus boisei*; *Australopithecus sediba*, *Homo habilis*.
- 13.6 *Homo erectus*, *Homo ergaster*, variants of *Homo erectus*; Hominid
- 13.7 *Homo neanderthalensis*: Salient Features; Conservative and progressive type; Phylogenetic position; Causes of extinction
- 13.8 *Homo heidelbergensis*, *Homo floresiensis*, Donisovan man; archaic humans, Narmada man Cro-Magnon; Grimaldi; Chancelade *Homo sapiens idaltu*; Early modern humans
- 13.9 Phylogeny: current knowledge and debates.

Recommended readings:

1. Guide to Fossil Man – M. H. Day
2. An Introduction to Anthropology – R. L. Beals and H. Hoijer

3. Introduction to Physical Anthropology – B. M. Rowe and P. L. Stein (1978)
4. Human Evolution: An Illustrated Introduction – R. Lewin (1985)
5. Environment and Archaeology: an Introduction to Pleistocene Geography – K.W. Butzwr
6. Humankind Emerging- G. C. Conroy (1997)
7. Man the tool Maker- K.P. Oakley (1961)
8. Understanding Evolution of Man: An Introduction to Paleoanthropology – P.K. Seth

Course Outcome:

1. The objective of this course is to acquaint students with the evidence and trends in hominid evolution.
2. The student will come to know about the major anatomical changes in human body.
3. Through this course, the students will be introduced to the brief description and phylogenetic position of the Hominid Precursors and Early Hominids groups.
4. The students will also come to know the current knowledge and debates related to phylogeny.

14. **Course Code** : **ANT 301B**
Course Name : **Ecological Anthropology**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P) : 3+1+0=4

- 14.1 Definition, aim and scope - Ecological Anthropology, New Ecological Anthropology and Environmental Anthropology. Different branches of Ecological Anthropology.
- 14.2 Historical background and development of Ecological Anthropology. Environmental determinism and Environmental Possibilism
- 14.3 Cultural Ecology and the contribution of Julian Steward. Critique of Julian Steward.
- 14.4 The concept of ecosystem in Anthropology. The contribution of Clifford Geertz in Ecological Anthropology. Generalized and specialized ecosystems.
- 14.5 Contribution of Fredrik Barth, Andrew P. Vyada and Roy Rappaport in Ecological Anthropology.
- 14.6 Ethnoecology.
- 14.7 Environment and development. Production, distribution and consumption models of development.
- 14.8 Environmentalism and environmental protest movements with special reference to India.

14.9 Human adaptation in different ecological settings, viz., high altitude, desert, circumpolar, tropical, island.

14.10 Anthropological studies on climate change, weather and natural disaster.

Recommended readings:

1. *Ecological Anthropology* – Donald L. Hardesty, 1977
2. *Environmental Anthropology* – Patricia K. Townsend, 2000
3. *Environmental Anthropology Today* - [Helen Kopnina](#), [Eleanor Shoreman-Ouimet](#), 2011
4. *Human Adaptability* – Emilio Moran, 1979
5. *Pigs for the Ancestors: Ritual in the Ecology of a New Guinea People* – Roy Rappaport, 1968
6. *Theory of Culture Change* – Julian Steward, 1955

Course Outcome:

1. The objective of this course is to acquaint students with the basics of the subject Ecological Anthropology, the subject matter, and the historical background and development of the discipline.

2. Through this course, the students will be introduced to the meaning and scope of Ecological Anthropology, the concept of ecosystem in anthropology, and also the brief description of Ethnoecology.

3. Through this course, the students will be introduced to the contributions and concepts proposed by different anthropologists.

4. The students will also come to know about the environmentalism, human adaptation in different ecological settings, and the anthropological studies on climate change, weather and natural disaster.

15 Course code : **ANT 302A**
Course name : **Human Growth and Nutrition**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P): 3+1+0=4

15.1 History of growth studies in Anthropology. Importance of growth studies.

15.2 Basics of Pre-natal and Post-natal Growth. Growth processes and stages of growth. Growth curves and variation in growth curves. Secular trends in growth.

- 15.3 Measurement of growth: Cross-sectional, longitudinal and mixed longitudinal. Problems of collecting data on human growth.
- 15.4 Factors controlling growth: genetical, hormonal and environmental.
- 15.5 Brief outline of the nutrients of the human body. Human variation in food intake and nutritional requirements.
- 15.6 Undernutrition, overnutrition and obesity. Socio-cultural factors affecting nutrition.
- 15.7 Energy requirements of the human body. Basal Metabolic Rate (BMR). Factors affecting the Basal Metabolic Rate.
- 15.8 Problems related to growth and nutrition. Groups at risk: infants, pregnant and lactating mothers, and old age persons.
- 15.9 Nutritional status of India with special reference to West Bengal.
- 15.10 Cultural determination of food. Food habits – Attitude towards food, food taboos, food choices, food preferences.

Recommended readings:

1. *Human Growth and Development* – N. Cameron (2002)
2. *Fetus into Man: Physical Growth from Conception to Maturity, Revised edition* – J. M. Tanner (1990)
3. *Human Growth* – F. Falkner and J. M. Tanner (1986)
4. *Patterns of Human Growth* – Bogin Barry (1999)
5. *Human Biology: An Introduction to Human Evolution, Variation and Growth and Adaptability* – G.A. Harrison, J.M. Tanner, D.R. Pilbeam and P.T. Baker (1988)

Course Outcome:

1. The objective of this course is to acquaint students with the basics and history of the growth study in anthropology and subject matters and the importance of this discipline.
2. Through this course, the students will be introduced to the basics of different stages and secular trends in growth studies.
3. Through this course, the students will be introduced to the different methods and the measurements in growth studies.
4. The students will also come to know about the different nutrients and factors effecting the human growth.
5. The students will be introduced to the different problems and its responsible factors related to the human growth and also about the cultural determinants of food habits.
6. The students will also learn about the nutritional status of India with reference to the West Bengal.

16. Course code : **ANT 302B**
Course name : **Theories in Socio-Cultural Anthropology**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P): 3+1+0=4

- 16.1 The nature of anthropological theories: Positivistic, interpretative, hermeneutic and phenomenological traditions. Nomothetic and ideographic approaches. Objectivity and subjectivity in Anthropology.
- 16.2 Evolutionism: general characteristics. Types of evolutionary theory in Sociocultural Anthropology. Contributions of E.B.Tylor, L.H.Morgan, V.G. Childe, Julian Steward and Leslie White
- 16.3 Diffusionism: British, German and American schools. Criticisms.
- 16.4 Historical particularism and the rise of the concept of culture: Boas, Kroeber, Sapir and Benedict.
- 16.5 Structural-functionalism: Radcliff-Brown, Malinowski, Evans-Pritchard and Nadel. Dynamic approaches: Leach and Gluckman.
- 16.6 Culture personality school: Benedict, Mead and Linton. Basic and modal personality.
- 16.7 Structuralism: Levi-Strauss and Needham.
- 16.8 Postmodernism in Anthropology: Foucault and Bourdieu
- 16.9 Schools – Frankfurt, Manchester, Chicago, Hermeneutic Circle and Critical theory. Philosophical background of anthropological theory.

Recommended readings:

1. Bidney, David. *Theoretical Anthropology*. Colombia University Press, New York
2. Douglas, Marry. *Cultural Bias*.
3. Erickson, Paul. *Anthropological Lives: Biographies of Eminent Anthropologists*. Reliance, New Delhi
4. Evans-Pritchard, E.E. *A History of Anthropological Thought*.
5. Gertz, Clifford. *The Interpretation of Culture*
6. Harris, Marvin. *Rise of Anthropological Theory*. Routledge & Kegan Paul, London
7. Hasting, A. *A Passage to Anthropology*.
8. Ingham, John. *Psychological Anthropology Reconsidered*
9. Levi-Strauss, C. *Structural Anthropology*
10. Malinowski, B.K. *Scientific Theory of Culture and Other Essays*
11. Manganaro, Marc. *Modernist Anthropology: From Fieldwork to Text*
12. Manners, R.A. & David Kaplan (Eds.). *Theory in Anthropology*,
13. Moore, D. *The Future of Anthropological Knowledge*
14. Nadel, S.F. *The Foundations of Social Anthropology*
15. Redfield, R. *Human Nature and the Study of Society*

16. Redfield, Robert. *Peasant Society and Culture*
17. Sahilns& Service. *Evolution and Culture.*
18. Schneider et al. *Symbolic Anthropology: A Reader in the Study of Symbols and Meanings*
19. Steward, Julian H. *Contemporary Change in Traditional Societies*
20. Turner, Roy. *Ethnomethodology*
21. Tyler, Stephen (Ed.), *Cognitive Anthropology.*
22. *Patterns of Culture-* Ruth Benedict, Mentor Book, New York (1934), 1946
23. *Structure and Sentiment-* Rodney Needham, The University of Chicago Press, Chicago, 1962
24. *The Science of Culture-* L.A White, Grove Press Inc., New York, 1949
25. *Suicide-* Emile Durkheim, The Free Press of Glencoe, 1951
26. *Culture and Communication-* Edmund Leach, Cambridge University Press, Cambridge, 1976
27. *The Archaeology of Knowledge-* Michel Foucault, Tavistock Publication, London, 1972
28. *Post Modernity and Its Discontents-* Zygmunt Bauman, Polity Press, Cambridge, 1997
29. *Postmodern Theory-* Steven Best & Douglas Kellner, Palgrave Macmillan, Hampshire, 1991
30. *From Post-industrial to Post-modern Society,* 2nd edition- Krishan Kumar, Blackwell Publishing, Malden, 2005
31. *Sociology and Anthropology and Other Essays-* Gopala Sarana, ISRAA, Calcutta, 1983
32. *Theory in Anthropology-* A Sourcebook (Ed.) Robert A. Manners & David Kaplan, Aldine Atherton, Chicago, 1968
33. *Anthropological Theory-* (Ed.) R.Jon McGee and Richard L. Warms, McGraw Hills, Boston, 2004

Course Outcome:

1. The objective of this course is to acquaint students with the different anthropological theories, approaches and subjectivity and objectivity in Anthropology.
2. Through this course, the students will be introduced to the brief description and contributions of different schools in Anthropology.
3. Through this course, the students will be introduced to the contributions of different scholars and their contribution on different anthropological theories.
4. The students will also come to know about the contribution of philosophical background of anthropological theories.

17. Course code : **ANT 303A**
 Course name : **Demographic Anthropology**
 Marks : Theoretical - 40 + Internal Assessment - 10 = 50
 Credits (L+T+P) : 3+1+0=4

- 17.1 Definition, scope and objectives of demography. Formal demography and population study.
- 17.2 Sources of demographic data. Demographic and non-demographic variables. Stable and stationary populations. Age sex composition.

- 17.3 Demographic processes: fertility, mortality and migration.
- 17.4 Relationship between demography and anthropology. Anthropology of small populations.
- 17.5 Techniques and measurements of demography. Rates and ratios. Sex ratio and child woman ratio, crude and specific birth and death rates. Concept of fecundity, fecundibility and fertility. Total and age specific fertility rates, infant mortality rate, dependency ratio and labour force participation rate.
- 17.6 Malthusian theory of population explosion. Criticism of Malthusian theory.
- 17.7 Demographic Transition theory. Caldwell's wealth flows theory of fertility decline. Sociocultural factors affecting fertility in human populations. Modernization and fertility.

Recommended readings:

1. *The Methods and Uses of Anthropological Demography* – A. M. Basu and P. Aaby (1998)

Course Outcome:

1. The objective of this course is to acquaint students with the brief description, scope and the subject matters of Demographic Anthropology.
2. Through this course, the students will be introduced to the source of data, techniques and measurement used in demographic research.
3. Through this course, the students will be introduced to different concepts and theories of demography.
4. The students will also come to know about the relation between the demography and anthropology.

18. Course code : **ANT 303B**
 Course name : **Anthropology of Religion and Ethnicity**
 Marks : Theoretical - 40 + Internal Assessment - 10 = 50
 Credits (L+T+P) : 3+1+0=4

- 18.1 Anthropological Approaches to religion: intellectual, psychological, functional, interpretative.
- 18.2 Contribution to anthropological study of ritual and religion: Durkheim, Tylor, Frazer, VanGennep, Malinowski, Evans-Pritchard, Geertz, Turner, Douglas, Surajit Sinha, Ralph Nicholas.

- 18.3 Sacred-profane dichotomy, Sacred-Complex, Nature-Man-Spirit Complex. Religion in Contemporary society. Ritual and politics.
- 18.4 Ethnicity: Definition and Features. Concept of Ethnic Group. Theoretical Approaches to Ethnicity. Concept of Identity and Ethnic Identity, Symbolic Construction of Community, Idea of Imagined Community.
- 18.5 Process of ethnic identity formation, Methodology for determination of ethnic identity, ethnic boundary and its maintenance, Ethnicity and Nationality. Ethnicity and Race. Ethnicity and Tribe. Ethnic minority.
- 18.6 Ethnic movements – History of ethnicity based movements in India and other parts of the world. Features of ethnic movements – Regional Characters. Governance, development and ethnic movement. Ethnic Conflicts.
- 18.7 Diaspora and diaspora identity.

Recommended readings:

1. *The Elementary Forms of the Religious Life* - Emile Durkheim, 1915, 1961
2. *Witchcraft, Oracles and Magic Among the Azande* – E.E. Evans-Pritchard, 1976
3. *Theories of Primitive Religion* - E.E. Evans-Pritchard, 1965
4. *Fruits of Worship* – Ralph Nicholas, 2003
5. *Research Methodology in Anthropology* – Ajit K. Danda, 1992
6. *Totem and Taboo*- Sigmund Freud, 1938, 1950
7. *Magic, science, Religion and Other Essays* –Bronislaw Malinowski, 1948
8. *Religion: An Anthropological View*- A.F.C. Wallace, 1966
9. *Nature -Man –Spirit Complex in Tribal India*- R.S. Mann
10. Barth, Fredrick. *Ethnic Group Boundaries*
11. Baret, F. *Ethnic Group and Boundries*. George Allen and Unwin, London
12. Erikson, T.H. *Ethnicity and Nationalism*. Pluto Press, London
13. Paul, Brass. *Ethnicity and Nationalism*.

Course Outcome:

- 1. The objective of this course is to acquaint students with the anthropological approaches on the religion study.**
- 2. Through this course, the students will be introduced to the contribution of different scholars on religion study.**
- 3. Through this course, the students will be introduced to the theories and concepts related to the religious beliefs.**
- 4. The students will also come to know about the brief description, concepts and theories related to the ethnicity study.**
- 5. The students will also come to know about the historical base and features of ethnicity movements.**

19. Course code : C-ANT 304
Course name : **Biocultural Anthropology**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P): 3+1+0 = 4

- 19.1 Cell division: mitosis and meiosis
- 19.2 Chromosomal basis of determination of sex in human.
- 19.3 Inheritance of biological traits: patterns and examples.
- 19.4 Variation and its significance in evolution.
- 19.5 Anthropological concept of culture.
- 19.6 Features of culture and society.
- 19.7 Social organization: concept and features. Institutions: family, marriage and kinship.
- 19.8 Types of political organization.
- 19.9 Economic organization. Economic life of the Indian tribes.

Recommended Readings:

- 1. Bhamrah and Chaturvedi. *A Text Book of Genetics*
- 2. Dalela and Verma. *A Text Book of Genetics*
- 3. Emery, A.E.H. *Elements of Medical Genetics*
- 4. Harrison et.al. *Human Biology*
- 5. Mange and Mange. *Basic Human Genetics*
- 6. Rothwell, N.V. *Human Genetics*
- 7. *Living Races of Man* – C. S. Coon
- 8. *Principles of Genetics (6th Ed.)* – E. J. Gardner and D. P. Snustad
- 9. *Human Genetics* -Friedrich Vogel and Arno G. Motulsky
- 10. *Anthropology: Study of man* - IndraniBasu Roy, 2010.
- 11. *An Introduction to Anthropology* – R. L. Beals and H. Hoijer
- 12. *An Introduction to Social Anthropology* - MakhanJha, 2003

Course Outcome:

1. The objective of this course is to acquaint students with the both social and biological aspects of anthropology.

2. Through this course, the students will be introduced to the cell division, chromosomal basis, and variation and its significance in evolution.

3. Through this course, the students will be introduced to the anthropological concepts and the features of culture.

4. The students will also come to know about the brief description of social, political, and economical organization in the society.

20. Course code : **ANT 305A**

Course name : **Biocultural Aspects of Health and Disease**

Marks : Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P): 3+1+0 = 4

20.1 Basic concepts of health, disease and illness.

20.2 Anthropological approaches to the study of health and disease.

20.3 Medical Anthropology and its meaning and scope. Development of Medical Anthropology.

20.4 The biological and cultural factors affecting health and disease.

20.5 Population variation and its relation to health and disease.

20.6 Diseases associated with specific sociocultural and environmental contexts: Kuru, osteomalacia, sickle-cell anaemia.

20.7 Epidemiology: Meaning, scope and methods. Epidemiology of common communicable diseases: Malaria, Tuberculosis, Leprosy, Diabetes, Cardiovascular disease and Sexually Transmitted Diseases (STDs), HIV/AIDS.

20.8 Reproductive health and mental health; infertility and assisted pregnancy

20.9 Health promotion and health care delivery programmes. Family welfare programmes. Child health and nutrition programmes. Reproductive health awareness.

20.10 Problems of the aged population: Tools of research for aging: MNA, ADL, IADL, Depression scale

Suggested Readings:

1. Bhat, P.N.M. 1995. *Maternal Mortality in India; Estimate from Regression Model' Studies in Family Planning*, Vol. 16(4).
2. Emery, A.E.H. *Elements of Medical Genetics*

3. Grigg, D.B. 1982. *Modern population growth in historical perspective*, Geography 67, pp.97-108.
4. Henriette Engelhardt, Hans-Peter Kohler, and Alexia Furnkranz-Prskawetz. 2009. *Causal Analysis in Population Studies: Concepts, Methods, Applications* (The Springer Series on Demographic Methods and Population Analysis). Springer Publication.
5. Husain, M. 2003, *Human Geography*, Rawat publications. Nice printing press, New Delhi.
6. IIPS (International Institute for Population Sciences). 1995. *National Family Health Survey* (MCH and Family Planning), India 1992-93. Bombay.
7. Park. K . 2000. *Preventive and Social Medicine*. BanarsidasBhanot Publishers, Jabalpur.
8. Vlasoff, Michael. 1979. *Labour demand and economic utility of children: A case study of rural India*. Population Studies 33:415-28.
9. World Health Organisation. 1999. *The World Health Report 1999: Making a Difference*. WHO, Geneva, Switzerland, WHO.
10. *Human Biology: An Evolutionary and Biocultural Perspective* (2nd Ed.) – S. Stinson, B. Bogin and D.H. O'Rourke.
11. *Human Biology* – G. A. Harrison, J. M. Tanner, D. R. Pilbeam and P. T. Baker
12. *Evolution of Health and Disease* (2nd Ed.) – S. C. Stearns and J. C. Koella (2010)
13. *Basic Epidemiology* (2nd Ed.) – R. Bonita, R. Beaglehole and T Kjellstr m (2006)
14. *Exploring Medical Anthropology* (3rd Ed.) – D. Joralemon (2010)
15. *Aging, Nutrition and Health* (1st Ed.) – P. M. Mehta and K. B. Chauhan (2016)

Course Outcome:

1. The objective of this course is to acquaint students with the bio-cultural aspect and anthropological approaches of studying health, disease, and illness.
2. Through this course, the students will be introduced to the brief description of Epidemiology and its subject matters.
3. Through this course, the students will be introduced to the different health related programmes.
4. The students will also come to know about the health issue of the old aged population in the society.

21. Course code : **ANT 305B**

Course name : **Development Anthropology**

Marks: Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P): 3+1+0 = 4

- 21.1 Development: Meaning and evolution of the concept. Indices and measurements of development. Anthropological concept of development.
- 21.2 Applied, Action and Development Anthropology. Contribution of Anthropology to development studies.

- 21.3 Rural development with special reference to India and West Bengal in particular. Special programmes on rural development in India. Poverty alleviation schemes in India and West Bengal.
- 21.4 Participatory approach to development. Participatory Rural Appraisal (PRA) and Rapid Rural Appraisal (RRA). Limitations of PRA and RRA.
- 21.5 Land reforms and Panchayati Raj. Assessment of land reforms and Panchayati Raj with special reference to West Bengal.
- 21.6 The concept of development-caused displacement. Impoverishment risks under development-caused displacement. Anthropological contributions with special reference to the study of the displacement of tribals.
- 21.7 Displacement scenario in India and rehabilitation. Land acquisition Act in India and its limitations. The new land Acquisition Law of India: its positive aspects and limitations.
- 21.8 Policy studies in Anthropology: Forest policy, land policy and water management policy.
- 21.9 Common Property Resources (CPR) and the management of CPR with special reference to India.

Course Outcome:

1. The objective of this course is to acquaint students with the basics of Development Anthropology and its subject matters.
2. Through this course, the students will be introduced to the brief description and contribution of knowledge of Applied, Action, and Development anthropology.
3. Through this course, the students will be introduced to the brief description of different methods and development programmes used in development anthropology.
4. The students will also come to know about the use of anthropological knowledge in solving different development problems, and in policy making.

22. Course code : **ANT 396A**
 Course name : **Biological Anthropology - II (Practical)**
 Marks : 50
 Credits (L+T+P): 0+0+4 = 4

Group A: Osteometry, Craniometry, Dermatoglyphics and Genetic Markers **25 Marks**

- 22.1 Osteometric measurements and indices of human long bones: Femur, Tibia, Fibula, Humerous, Radius, and Ulna.
- 22.2 Craniometry – Human Skull

- 22.3 Dermatoglyphics: Fingers and palms; TFRC and AFRC; Landmarks identification
- 22.4 Identification of genetic markers
- 22.5 Evaluation of Laboratory notebook

Group B: Nutrition and Physiological Anthropology

25 Marks

- 22.6 Assessment of nutritional status and body composition
- 22.7 Measurement of Physical Fitness Index (PFI) by Harvard's step test
- 22.8 Measurement of VO2 Max by step test method
- 22.9 Measurement of body surface area by Dubois and Dubois formula.
- 22.10 Measurement of systolic and diastolic blood pressures.
- 22.11 Evaluation of Laboratory notebook.

Course Outcome:

- 1. The objective of this course is to acquaint students with the practical facet and instrumental used in the Osteometry, Craniometry, Dermatoglyphics, Genetic Markers, Nutrition and Physiological Anthropology.**
- 2. The student will come to know about the different indices and test used in Nutrition and Physiological Anthropology on practical basis.**

23. Course code : **ANT 396B**
 Course name : **Problem-based empirical work** (Practical)
 Marks : 50
 Credits (L+T+P): 0+0+4 = 4

- 23.1 Each student will select a particular topic on any of the social problems.
- 23.2 Each student will have to conduct a fieldwork of at least 10 (ten) days duration under the supervision of departmental teacher(s) allotted to them.
- 23.3 After completion of the fieldwork, each student will have to prepare a report on his/her study of at least 5000 (five thousand) words and submit the same to the department for examination after duly forwarded by the concerned supervisor(s).

Course Outcome:

- 1. The objective of this course is to acquaint students with the fieldwork situation in real life.**
- 2. The student will come to know the methodological approach used in the anthropological fieldwork in real-life experience.**

Semester IV

(4 Core Elective Courses and 2 Core Courses; Marks: 300/ Credits: 24)

Core Elective Courses

24. Course code : **ANT 401A**

Course name : **Human Population Genetics**

Marks : Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P): 3+1+0=4

- 24.1 Definition and scope of population genetics, its relevance in Anthropology.
- 24.2 Concept of gene frequency and gene pool. Population structure and genetic structure; Mendelian population as the ultimate endogamous unit of population genetic study
- 24.3 Mating system: Random mating/pan mixing; selective mating/ preferential mating; mate choice/ sex selection; assortative mating.
- 24.4 Genetic structure of human populations. Principles of genetic equilibrium; Hardy-Weinberg law. Calculation of gene frequencies.
- 24.5 Causes for changes in gene frequencies: mutation, hybridization, genetic drift and selection.
- 24.6 Genetic polymorphism – Balanced and transient polymorphism with reference to sickle cell gene. Measurement of genetic similarity between populations; SNP, RFLP, Insertion/Deletion, VNTR
- 24.7 Biological consequences of mating systems: Consanguinity; inbreeding and outbreeding. Inbreeding coefficient (F-ratios); inbreeding: heterozygosis; homozygosis; genetic load.
- 24.8 Reproductive isolates and models of isolation; models for studying gene flow: island model, the stepping stone model, diffusion model, and isolation by distance model.
- 24.9 Role of social divisions and hierarchy in genetic isolation
- 24.10 Partial selection and complete elimination against recessive homozygote; Partial selection and complete elimination against dominant homozygotes; Selection favouring heterozygotes.

Suggested Readings:

1. Ashley Montagu. *Concept of Race*
2. Bhamrah and Chaturvedi. *A Text Book of Genetics*
3. Bodmer and Cavalli Sforza. *Genetics, Evolution and Man*
4. Brudette, W.J. *Methodology in Human Genetics*
5. Curt Stern. *Principles of Human Genetics*
6. Dalela and Verma. *A Text Book of Genetics*

7. Grigg, D.B. 1982. *Modern population growth in historical perspective*, Geography 67, pp.97-108.
8. Harris, H. *Human Biochemical Genetics*
9. Harrison et.al. *Human Biology*
10. Harrison, G.A. and Boyce, J. *The Structure of Human Population*
11. King and Stansfield. *A Dictionary of Genetics*
12. Mange and Mange. *Basic Human Genetics*
13. Rothwell, N.V. *Human Genetics*
14. Shukla, B.R.K. and Rastogi, S. *Physical Anthropology and Human Genetics*
15. Weiss, K.M. and Ballonoff, P.A. *Demographic Genetics*
16. Winchester. *Genetics*
17. Wright, S. *Evolution, Genetics and Population.*
18. Yunis, J.J. (Ed) *Biochemical Methods in Red Cell Genetics*
19. *The Genetics of Human Populations* – L. L. Cavalli-Sforza and W. F. Bodmer (1971)
20. *The Stepping Stone Model* - by M. Kimura and G. H. Weiss (1964)
21. *Principles of Genetics (6th Ed.)* – E. J. Gardner and D. P. Snustad
22. *An Introduction to Population Genetics Theory* – J. F. Crow and M. Kimura (1970)
23. *Human Heredity: Principles and Issues* – M.R. Cummings (1997)
24. *Human Genetics: Concepts and Applications* – Richi Lewis (2003)
25. *The Human Species: An Introduction to Biological Anthropology* – J.H. Relethford

Course Outcome:

1. The objective of this course is to acquaint students with the basics of Human Population Genetics, its relevance and subject matters.
2. Through this course, the students will be introduced to the different concepts and theories related human population genetics.
3. Through this course, the students will be introduced to the types and biological consequences of mating system.
4. The students will also come to know about the genetic polymorphism, genetic structure of human population, and the cause of change in genetic structure of human population.
5. The students will also come to know about the concepts of the concepts of reproductive isolation, models of isolation, and partial selection.

25. Course code : **ANT 401B**

Course name : **Economic and Political Anthropology**

Marks : Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P): 3+1+0=4

- 25.1 Theoretical approaches to the study of economic organization in Anthropology: formalist, substantivist, Marxist approach and neo-Marxist approach; cultural materialism, political economy.
- 25.2 Mode of production: technology; division of labour on the basis of age, sex, and specialization
- 25.3 Mode of distribution: Barter, reciprocity, redistribution; potlatch and *kula*, gift exchange.
- 25.4 Features of Indian tribal economy; classification of Indian tribes on the basis of economic activities; tribal markets, changes in tribal economy
- 25.5 Theoretical approaches in Political Anthropology: Evolutionary, Ecological, Marxist, and Symbolic.
- 25.6 Political organization: band, tribe, chiefdom, state.
- 25.7 Types of leadership: clan, tribe, chief, kingdom; crime and punishment in primitive society.
- 25.8 Forms of Government: monarchy, oligarchy, theocracy, democracy, authoritarianism, totalitarianism.
- 25.9 Types and forms of political institutions: social control and sanction, traditional council, customary law, judicial system; panchayat: traditional and statutory.

Suggested Readings:

1. Appadurai, A. (ed) (1986) *The Social Life of Things*, Cambridge University Press, Cambridge, UK
2. Durkheim, E. (1933) *The Division of Labour in Society*, Macmillan, New York.
3. Firth, R. (ed) (1970) *Themes in Economic Anthropology*, Tavistock Publications, London.
4. Gudeman S. (1986) *Economics as Culture*, Routledge and Kegan Paul, London.
5. Herskovits, M. (1960) *Economic Anthropology*, Knopf, New York.
6. Malinowski, M. 1961 [1922] *Argonauts of Western Pacific*, Dutton & Co., New York.
7. Narotzky, S. (1997) *New Directions in Economic Anthropology*, Pluto Press, London.

Course Outcome:

1. The objective of this course is to acquaint students with the basics of Economic and Political Anthropology, its relevance and its subject matters.

2. Through this course, the students will be introduced to the theoretical approaches of both Economical Anthropology and Political Anthropology.

3. Through this course, the students will be introduced to the mode of production and distribution, and also features and distribution of tribes based on economy.

4. The students will also come to know about the political organization, types of leadership, forms of governments, types and forms of political organization.

26. Course code : **ANT 402A**

Course name : **Human Evolution and Adaptation**

Marks : Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P): 3+1+0=4

26.1 Genetics and Human Evolution; Evolutionary development; Selection and Human evolution,

26.2 Evolutionary aspects of Human Chromosomes, Bottleneck effect in Human Evolution.

26.3 Modern human origin: Out of Africa and Multiregional theory.

26.4 Measuring relatedness: Phylogeny, Molecular clock, Reconstructing Human evolution from Proteins;

26.5 Application of molecular anthropology to study human evolution.

26.6 Selection: heterozygous, intra-uterine, fitness, differential fertility, selection, relaxation.

26.7 Molecular and Morphological patterns of present population, Genetic marker and language.

26.7 Palaeodemography: Estimating Population size, mortality and fertility; Human population before and after agriculture.

26.8 Traces of evolution from *mtDNA* and y-chromosome.

26.9 Physical environment: the potential stressors, the nutritional stress, infections, diseases, modernization and human biological responses. Acclimatization and adaptation; Type of adaptation; Physiologic, Genetic and Cultural adaptation in respect of Thermal Environment, high altitude.

Suggested Readings:

1. *Human Adaptation* – G. A. Harrison and H. Morphy (1998)
2. *The Stepping Stone Model* - by M. Kimura and G. H. Weiss (1964)
3. *Human Adaptation: The Biosocial Background* – Y. A. Cohen (1974)
4. *Biological Anthropology: A Synthetic Approach to Human Evolution* – N.T. Boaz and A.J. Almquist (1997)

5. *Introduction to Physical Anthropology*- R. Jurmain with H. Nelson, L. Kilgore and W. Trevathan (1999)
6. *Anthropology: Appreciating Human Diversity* – C.P. Kottak (2011)
7. *Understanding Physical Anthropology and Archaeology*- W. Tumbaugh, R. Jurmain, H. Nelson and L. Kilgore (1996)

Course Outcome:

1. The objective of this course is to acquaint students with the basics of human evolution and adaptation, its relevance and its subject matters.
2. Through this course, the students will be introduced to the evolutionary aspect of human chromosome, theories and concepts related to the human origin and distribution.
3. Through this course, the students will be introduced to the application knowledge of molecular anthropology to study human evolution.
4. The students will also come to know about the palaeodemography and adaptation in different environment.

27. Course code : **ANT 402B**
 Course name : **Anthropology of Complex Society**
 Marks : Theoretical - 40 + Internal Assessment - 10 = 50
 Credits (L+T+P): 3+1+0=4

- 27.1 Definitions of complex societies and civilization and their importance in Anthropology
- 27.2 Themes in the study of complex societies: great tradition and little tradition, universalization and parochialization, sanskritization, Brahminization, modernization and globalization; folk-urban continuum and tribe-caste continuum
- 27.3 Network analysis: concepts of Barnes, Wolfe, Mayer, and Boissevain
- 27.4 Kroeber's 'Cultural-Historical' model in the study of civilization.
- 27.5 Kinship, friendship, and patron-client relation in the study of complex society.
- 27.6 The contributions of N.K. Bose, Milton Singer, Bernard Cohn, Mckim Marriott, Surajit Sinha, B. N. Saraswati and L.P. Vidyarthi in the study of Indian civilization. Social organization of Indian civilization.
- 27.7 Study of cities in Anthropology: Orthogenetic and heterogenetic cities in India. Cultural role of cities in India, study of N. K. Bose on Calcutta.

27.8 Urbanization and social change in India. Emergence of Urban Anthropology.

Suggested Readings:

1. Agrawal, B.C. (Ed). *Anthropological Approaches to the Study of Civilizations*
2. Baxton, M. (Ed). *Social Anthropology of Complex Societies*
3. Bose, N.K. 1961. *The Structure of Hindu Society*. Delhi Orient Longman .
4. Cherry, Gordon (Ed.). *Urban Planning Problems*
5. Cohn S. Bernard: 2000. *India: The Social Anthropology of Civilization*. Delhi: Oxford University Press.
6. Cohn, B.S. *India: Social Anthropology of a Civilization*
7. Creetz. C., (Ed). *Urban Research Methods*. D. Van Nostrand Co. Inc and Affiliated Press
8. Dirks Nicholas. 2001. *Castes of Mind: Colonialism and the Making of Modern India*. Princeton University Press.
9. Donald S. Lopez, (ed.). 1995. *Religions of India in Practice*. Princeton University Press
10. Fox, R. *Urban Anthropology*. Prentice Hall Inc: New Jersey
11. Glodberg, T.D. *Multiculturalism: A Critical Reader*. Blackwell: Oxford
12. Gupta, Dipankar (ed): *Social Stratification*. Delhi: Oxford University Press.
13. Hack, Gibbs (Ed.). *Urban Research Methods*
14. Jain, R.K. *Text and Context: The Social Anthropology of Tradition*
15. Karve, Irawati 1961. *Hindu Society : An Interpretation* . Poona : Deccan College
16. Mandelbaum, D.G., 1970. *Society in India : Changes and Continuities*. Bombay : Popular Prakashan.
17. Marriot, M., (Ed). *Village India - Studies in Little Community*
18. Redfield, Robert. *Human nature and the study of Society*
19. Redfield, Robert. *Peasant Society and Culture*
20. Singer, M (Ed). *Traditional India: Structure and Change*
21. Singer, M (Ed). *When a Great Tradition modernizes*.
22. Srinivas M.N. 2002. *Collected Essays: M.N Srinivas*. Delhi:Oxford University Press.
23. Srivastava V. K. 1997, *Religious Renunciation of a Pastoral people*. Delhi: Oxford University Press

Course Outcome:

1. The objective of this course is to acquaint students with the theories, concepts and themes of studying complex society.
2. Through this course, the students will be introduced to the contributions of scholars on studying on Indian civilization.

3. Through this course, the students will be introduced to the brief discussion of social change in India and also emergence of the Urban Anthropology.

28. Course code : **ANT 403A**
Course name : **Medical Genetics**
Marks : Theoretical - 40 + Internal Assessment - 10 = 50
Credits (L+T+P): 3+1+0=4

- 28.1 Genetic variation and Polymorphism- G6PD, Phosphoglucomutase, Adenylate Kinase, Adenosine deaminase and Lactate dehydrogenase; Haptoglobins, Transferrins, Immunoglobulins.
- 28.2 Haemoglobin: Normal-HbA, HbF, HbA2, Abnormal- HbS, HbC, HbD, HbE, Thalassemia, HbS and Malaria.
- 28.3 Inborn Error of metabolism, Biochemical pathways and heredity of Phenylketonuria, Alkaptonuria, Galactosemia, Albinism
- 28.4 Techniques for biochemical analysis- Electrophoresis, Immunoelectrophoresis; HLA-subtypes, inheritance, polymorphism, HLA and Disease.
- 28.5 Dermatoglyphics: Finger print pattern- qualitative and quantitative variables; Palm-dermatoglyphics- configurational areas, transversality, main line formula and index, inheritance.
- 28.6 Techniques for studying chromosomal structure, autoradiography, banding, fluorescence; Chromosomal aberrations: Numerical- Turner's, Klinefelter's, Down's, Patau's, Edward's syndrome, Triploidy, Tetraploidy; Structural- Cri-du-chat, Philadelphia chromosome.
- 28.7 Calculation of allele frequencies of haplotype; Genetics of quantitative and measurable characters.
- 28.9 Methods of studying genetic relationship and diversity: Distance measures- morphometric distance, genetic distance; Display methods- cluster analysis, dendrogram and cladogram, principal component analysis.
- 28.10 Difficulties in Subjecting Man for Genetic Investigations

Suggested Readings:

1. Emery, A.E.H. *Elements of Medical Genetics*

Course Outcome:

- 1. The objective of this course is to acquaint students with the theories, concepts and themes of studying medical genetics.**
- 2. Through this course, the students will be introduced to the genetic variation and polymorphism, hereditary abnormalities and theoretical knowledge of techniques for biochemical analysis.**

3. Through this course, the students will be introduced to the brief discussion of Dermatoglyphics and its subject matters.

4. Through this course, the students will be introduced to the methods and techniques of studying chromosomal structure and abnormalities, and genetic relationship and diversity.

5. The students will also come to know about the discussion on the difficulties in subjecting man for genetic investigations.

29. Course code : **ANT 403B**

Course name : **Medical Anthropology**

Marks : Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P): 3+1+0=4

- 29.1 Medical Anthropology – Definition, scope and History of Development of the sub-discipline. Theoretical approaches in medical anthropology. Critical Medical Anthropology. Applied Medical Anthropology.
- 29.2 Concept of Health, Disease and Illness in cross-cultural perspectives and their social –cultural dimension. Culture Specific Diseases/Illness. Mental Health – anthropological approach. Reproductive and Child Health.
- 29.3 Ethno-medicine: Meaning and practices. Ethno-medicine practitioners and healers. Magico-religious aspect of health and healing. Epidemiology of selected diseases (HIV-AIDS, Leprosy, Cholera, Cancer).
- 29.4 Medical Anthropology in India- history and major concern. Tribal Pharmacopeia. Cultural factors of health in rural India. Medical Pluralism and Medical Systems – Ayurveda, Unani, Siddha, Naturopathy, Homeopathy, Allopathy etc. Yoga – Anthropological perspective.
- 29.5 Contemporary issues in Medical Anthropology – Bio-politics, Pharmaceutical Anthropology, Global Traffic in Human Organ, organ trade and transplantation, Health Narratives, Care and Nursing, Public Health Policy, Globalization and Health.

Suggested Readings:

- 2. *Health, Culture and Community*- (Ed.) B.D. Paul and W.B. Miller, Russel Sage Foundation, New York,1955
- 3. *Medical Anthropology* – (Ed.) F.X.Grollig and H.B. Haley, Mouton Publishers, The Hague, 1976
- 4. *Studies in Medical Anthropology* - PC Joshi and A. Mahajan. Reliance Publishers.New Delhi, 1991.
- 5. *Tribal Health and Medicines*– A.K.Kalla and PC Joshi. Concept Publishing Company. 2003.
- 6. *Handbook of Medical Anthropology*- S. Morsy. Greenwood Press. 1996.
- 7. *Understanding and Applying Medical Anthropology*- PJ Brown, RJ Barrett, MB Padilla. Mayfield Publishing Company. 1998.
- 8. *Medical Pluralism in Contemporary India* – (Ed.) Sujatha and L Abraham, Orient Blackswan, New Delhi, 2012
- 9. *A Reader in Medical Anthropology* – B.J.Good, M.M.J Fisher, S.S.Willen, Wiley-Blackwell, London, 2010

10. *Health, Illness and Medicine Ethnographic Readings* – A. Mishra, Orient Blackswan, New Delhi, 2010
11. *Tribal Ethno-medicine and Health Care Practices* – K.V.Reddy, B.R.Publishing, New Delhi,2011
12. *The Birth of the Clinic : An Archaeology of Medical Perception* – M. Foucault, Routledge, New York,1963
13. Culture, Psychiatry and Cultural Competence - Arabinda Narayan Chowdhury (http://cdn.intechopen.com/pdfs/25511/InTech_Culture_psychiatry_and_cultural_competence.pdf)

Course Outcome:

1. The objective of this course is to acquaint students with the theories, concepts and themes of Medical Anthropology and its subject matters.
2. Through this course, the students will be introduced to the brief discussion of Ethno-medicine and its subject matters.
3. Through this course, the students will be introduced to the historical background and the development of Medical Anthropology in India.
4. The students will also come to know about the brief discussion on contemporary issues in Medical Anthropology.

30. Course code: **ANT 404A**

Course name : **Applied Biological Anthropology**

Marks : Theoretical - 40 + Internal Assessment - 10 = 50

Credits (L+T+P): 3+1+0=4

- 30.1 Applied Human Genetics: Genetic screening- Occupational screening, Genetic counseling, genetic engineering;
- 30.2 Nutritional Anthropology: Nutritional and diet survey methods. Evaluation of Body Composition.
- 30.3 Determination of nutritional status: anthropometric, clinical signs, socioeconomic assessment of nutritional levels. Diet survey. Concept of standard and/or reference values of growth and nutritional status. .
- 30.4 Anthropometry: In determination of growth and nutritional status; Predicting disease or abnormalities. Anthropometric indicators; Malnutrition, CED and Obesity. Malnutrition: Anorexia nervosa, Adiposity, Kwashiorkor, Marasmus.
- 30.5 Intervention programmes for the improvement of nutritional levels in India: Assessment and evaluation.
- 30.6 Forensic Anthropology: definition, aims and scope; Personal identification- use of Osteometry, serology and dermatoglyphics; estimation of age and sex; Medico legal aspects; paternity identification, DNA fingerprinting;

- 30.7 Application of Dermatoglyphics: personal identification, relationship with diseases/ disorders;
- 30.8 Definition and concept of Palaeopathology.
- 30.9 Anthropology of Sports: concept of physiological anthropology, Relationship of different types of sports efficiency and different body proportions, Kinanthropometry.
- 30.10 Gender issues- biological and cultural

Suggested Readings:

1. *Finger Prints, Palms and Soles: An Introduction to Dermatoglyphics* – H. Cummins and C. Midlo (1976)
2. *Anthropology, Sport and Culture* - R. R. Sands (2008)
3. *Human Growth and Development* – N. Cameron (2002)
4. *Fetus into Man: Physical Growth from Conception to Maturity, Revised edition* – J. M. Tanner (1990)
5. *Human Growth* – F. Falkner and J. M. Tanner (1986)
6. *Patterns of Human Growth* – Bogin Barry (1999)
7. *Human Biology: An Introduction to Human Evolution, Variation and Growth and Adaptability* – G.A. Harrison, J.M. Tanner, D.R. Pilbeam and P.T. Baker (1988)
8. *Forensic Anthropology: The Growing Science of Talking Bones* – P. Thomas (2003)

Course Outcome:

1. The objective of this course is to introduce the students with applied aspects of Biological Anthropology knowledge.
2. Through this course, the students will be introduced to the application of anthropological knowledge in the fields such as applied human genetics, human nutrition and its determinant factors, measuring human growth and nutrition, forensic science, dermatoglyphics, palaeopathology, sports, and gender issues.
3. The course will also help the students, with specialization in Biological Anthropology, to find their areas of research in the above mentioned arenas and beyond.

31. Course code : **ANT 404B**
 Course name : **Emerging Areas in Socio-Cultural Anthropology**
 Marks : Theoretical - 40 + Internal Assessment - 10 = 50
 Credits (L+T+P): 3+1+0=4

- 31.1 Media Anthropology- Meaning, Scope, and Development. Concepts and Methods. Media, Communication, Mass Media.
- 31.2 Anthropology of Performance – Performance, Folk Culture, Popular Culture.

- 31.3 Legal Anthropology – Anthropology of Human Rights, Advocacy Anthropology. Public Policy, Governance
- 31.4 Business Anthropology – Meaning and Scope, Historical Development, Corporate Social Responsibility, Anthropology in corporate culture study, Anthropology and advertisement and design.
- 31.5 Anthropology of Women – Gender Issues in anthropological perspectives
- 31.6 Public and Practicing Anthropology
- 31.7 Visual Anthropology – Photography and films, visual culture.
- 31.8 Cyber Anthropology. Anthropology and Cyber Culture, Digital Culture, ICT, E-governance.
- 31.9 Social Gerontology – biological and cultural dimensions

Suggested Readings:

1. *Media Anthropology* – (Ed) E.W. Rothenbuhler and M. Coman, Sage, California, 2005.
2. *Ethnographic Research for Media Studies*- David Machin, Arnold, London, 2002
3. *The Oxford India Companion to Sociology and Social Anthropology*- Ed. Veena Das, Oxford University Press, New Delhi, 2003
4. *Anthropology of Performance* – Frank Korom (Ed.),2013
5. *Legal Anthropology: An Introduction* – J.M.Donovan, 2009
6. *Visual Anthropology – Essential Methods and Theory* – F.E. Guindi,2004
7. *Business Anthropology* – A. T. Jordan, 2015
8. *The Internet: An ethnographic approach* - Miller, D., Slater, D., 2000.
9. *Public Anthropology: Engaging Social Issues in the Modern World* – E.J.Hedican,2016

Course Outcome:

1. The objective of this course is to introduce the students with the new arenas those are recently emerging in the subject area of Social-cultural Anthropology.
2. Through this course, the students will be introduced to the new subfields such as Media Anthropology, Anthropology of Performance, Legal Anthropology, Business Anthropology, Anthropology of Women, Public and Practicing Anthropology, Visual Anthropology, Cyber Anthropology, and Social Gerontology.
3. The students will learn about the applicability of anthropological knowledge and opportunities of researches in the fields of media, folk art and culture, legal issues, business, gender issues, development, visual culture, digital culture, and issues of elderly persons.

Core Courses

32. Course code : **ANT 495**
Course name : **Literature Review and Project proposal** (Practical)
Marks : Practical - 40 + Viva-voce - 10 = 50
Credits (L+T+P): 0+0+4=4

32.1 Each student with specialization in Biological Anthropology or Socio-Cultural Anthropology will have to select a specific problem/community in consultation with her/his supervisor(s) and to make a comprehensive literature review on the area of study. He/she have to prepare a project proposal and to make a Power Point Presentation.

Suggested Readings:

1. Pelto P.S. & Pelto. *Anthropological Research*, Cambridge University Press, London
2. Goode & Hatt. *Methods in Social Research*
3. Young, Pauline. *Scientific Social Surveys and Research*
4. Bernard, H. Russel. *Hand book of Methods in Cultural*

(Some more will be recommended by concerned supervisor based on the topic of research)

Course Outcome:

1. The objective of this course is to acquaint the students how to write research proposals before entering into major degree programmes such as Ph.D.
2. Through this course, the students will learn how to review the existing literature on the particular topic they are going to research on.
3. Through this, the students will mainly learn to anticipate their research programmes before they actually begin to do it.
4. The students will learn how to set aims and objectives of their study, the methodology they are going to follow, and how to rationalize their individual researches.

33. Course code : **ANT 496**
Course name : **Dissertation Field Report & Viva-voce** (Practical)
Marks : Evaluation of Dissertation Field Report – 40 + Viva-voce – 10 = 50 (Practical)
Credits (L+T+P): 0+0+4=4

33.1 Each student with specialization in Biological Anthropology or Socio-Cultural Anthropology will have to select a specific problem/community in consultation with her/his supervisor(s) and conduct fieldwork for about at least one month duration for the collection of data. A report based on data collected in the field (may be supplemented

with archival data) would have to be prepared by the student and submitted to the HOD duly forwarded by the concerned supervisor(s) for evaluation and viva-voce.

Suggested Readings:

1. Clifford, James and George E. Marcus (1986) *Writing Culture: The Poetics and Politics of Ethnography*, University of California Press, Berkeley.
2. Maanen, John Van. (1988) *Tales of the Field: On Writing Ethnography*. The University of Chicago Press, Chicago.
3. Murdock, G. P. (1961) *Outline of Cultural Materials (HRAF Manuals)*, New Haven.
4. Pelto P. J. and Pelto G.H. (1978) *Anthropological Research*, Cambridge University Press, London
5. Royal Anthropological Institute of Great Britain and Ireland (1951) *Notes and Queries on Anthropology*, Routledge and Kegan Paul Ltd., London
6. Wiener, J.S. and J. A. Lourie (Eds.) (1969) *Human Biology: A Guide to Field Methods*, International Biological Programme by Davis, Philadelphia.
7. Young, Pauline V. (1949) *Scientific Social Surveys and Research*, Prentice- Hall, New York.

(Some more will be recommended by concerned supervisor based on the topic of research)

Course Outcome:

1. The objective of this course is to teach students how to conduct individual research before entering into larger research degrees such as M.Phil. and Ph.D. or when they have to handle individual research projects.
2. Through this course, the students will learn to conduct fieldwork on their own especially in remote rural settings or among tribals and Particularly Vulnerable Tribal Groups (PVTGs).
3. The students will also learn how to prepare field report and how to write dissertation/s to obtain a degree.
4. Through this course, the students will also learn how to face viva-voce examinations or interviews for the subject they are specialized in.