

# SYLLABUS

## M.A./M.Sc.

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ANTHROPOLOGY

DEPARTMENT OF ANTHROPOLOGY  
HNB GARHWAL UNIVERSITY | SRINAGAR GARHWAL

**H. N. B. GARHWAL UNIVERSITY**  
**(A CENTRAL UNIVERSITY)**  
**ANTHROPOLOGY**  
**POST GRADUATE CURRICULUM**  
**UNDER**  
**(CHOICE BASED CREDIT SYSTEM, 2018-19)**

Sem-ester	Course	Group A+B	Paper Code No.	Title of Paper	Credits	Marks
<b>I</b>	<b>Compulsory</b>		SHSS-ANTH-PG-C-101	Biological Anthropology	3	60+20+20
			SHSS-ANTH-PG-C -102	Social Anthropology	3	60+20+20
			SHSS-ANTH-PG-C -103	Archaeological Anthropology	3	60+20+20
			SHSS-ANTH-PG-C -104	Research Methods in Anthropology	3	60+20+20
			SHSS-ANTH-PG-C -105	Indian Anthropology	3	60+20+20
			SHSS-ANTH-PG-C -106	Practical: Prehistoric Tools & Material Culture	3	60+20+20
<b>II</b>	<b>Compulsory</b>		SHSS-ANTH-PG-C -201	Human Genetics	3	60+20+20
			SHSS-ANTH-PG-C -202	Anthropology of Religion, Politics and Economy	3	60+20+20
			SHSS-ANTH-PG-C -203	Prehistoric Anthropology	3	60+20+20
			SHSS-ANTH-PG-C -204	Paleoanthropology	3	60+20+20
			SHSS-ANTH-PG-C -205	Developmental Anthropology	3	60+20+20
			SHSS-ANTH-PG-C -206	Practical: Anthropometry	3	60+20+20
	<b>Self Study</b>		SHSS-ANTH-PG-S-207	Demographic Anthropology	3	60+20+20

Sem-ester	Course	Group A+B	Paper Code No.	Title of Paper	Credits	Marks
III	Compulsory	A+B	SHSS-ANTH-PG-C-301	Medical Anthropology	3	60+20+20
			SHSS-ANTH-PG-C-302	Applied Anthropology	3	60+20+20
			SHSS-ANTH-PG-C-303	Tribal India	3	60+20+20
			SHSS-ANTH-PG-C 304	Practical: Serology and Dermatoglyphics OR Project Based on Bio-Social Anthropology	3	60+20+20
	Elective/Optional (Opt any Two)	A	SHSS-ANTH-PG-E-305(A)	Human Growth and Development	3	60+20+20
			SHSS-ANTH-PG-E-306(A)	Human Evolution & Variation	3	60+20+20
			SHSS-ANTH-PG-E-307(A)	Human Cytogenetics	3	60+20+20
	Self Study	A	SHSS-ANTH-PG-S-308(A)	Human Resource Management	3	60+20+20
	Elective/Optional (Opt any Two)	B	SHSS-ANTH-PG-E-305(B)	Linguistic Anthropology	3	60+20+20
			SHSS-ANTH-PG-E-306(B)	Communication and Visual Anthropology	3	60+20+20
			SHSS-ANTH-PG-E-307(B)	Ethnology of India	3	60+20+20
	Self Study	B	SHSS-ANTH-PG-S-308(B)	Anthropology in Disaster Management	3	60+20+20

Sem-ester	Course	Group A+B	Paper Code No.	Title of Paper	Credits	Marks
IV	Compulsory	A+B	SHSS-ANTH-PG-C-401	Dissertation	9	60+20+20
	Elective/Optional	A	SHSS-ANTH-PG-E-404(A)	Ecological Anthropology	3	60+20+20
			SHSS-ANTH-PG-E-405(A)	Forensic Anthropology	3	60+20+20
			SHSS-ANTH-PG-E-406(A)	Practical Forensic	3	60+20+20
	Self Study	A	SHSS-ANTH-PG-S-407(A)	Human Population Genetics	3	60+20+20
	Elective/Optional	B	SHSS-ANTH-PG-E-404(B)	Ecological Anthropology	3	60+20+20
			SHSS-ANTH-PG-E-405(B)	Theory of Social Anthropology	3	60+20+20
			SHSS-ANTH-PG-E-406(B)	Practical: Ethnographical Project Report	3	60+20+20
	Self Study	B	SHSS-ANTH-PG-S-407(B)	Biostatistics and Computational Anthropology	3	60+20+20

**M.A / M.Sc I SEMESTER**  
**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-101**  
**Biological Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Biological/Physical Anthropology: Meaning and Scope.
2. Human Place in Animal Kingdom.
3. Difference in the Approaches of Modern and Traditional Biological Anthropology, with Emphasis on Human Evolution.
4. Theories and Principles of Evolution: Lamarckism, Neo-Lamarckism, Darwinism, Neo-Darwinism, Parallelism, Convergence, Orthogenesis, Synthetic Theory of Evolution. Mutation and Neo-Mutation Theory.
5. Principles of Human Genetics, Biological Basis of Life, The Cell, Cell Structure, Chromosome, Mitosis and Meiosis, Sex Chromosomes, D.N.A Structure and Genetics Code, Theory of Gene, Point Mutation.

**Suggested Books:**

1. Roy Indrani Basu: Anthropology: The Study of man.
2. Das B.M.: An Introduction of Physical Anthropology.
3. Craig Stanford, John S. Allen and Susan C. Anton : Biological Anthropology (2nd Edition).
4. John Buettner-Janusch: Origins of Man.
5. Simon E. L.: Primate Evolution: An Introduction to Man's Place in nature.
6. Shukla B.R.K. and Rastogi : Physical Anthropology & Human Genetics .(In Hindi & English)
7. Vadhya N.K. & Pandey : Biological Anthropology.
8. Choubey Ramesh: Physical Anthropology. (In Hindi)
9. Jha Parfulla Rajan, Barnwal D. and Jha R. K. : Anthropology Part – II. (In Hindi)

**Core /Compulsory Course**  
**SHSS-ANTH - PG-C-102**  
**Social Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Social Anthropology: Meaning and Scope. Cultural Relativism, Holism and Cross-Cultural Comparison
2. Concept and Definition: Group, Community, Association, Institution, Society, Status and Role, Social Structure, Social Organization, Tribe, Village, Culture.
3. Marriage: Importance of Marriage as an Institution in Human Society, Problem of Marriage, Culture Variation in Acquiring Spouse in Tribal Societies, Marriage Payment, Bride Price and Dowry, Polyandry and Polygyny in India.
4. Family: Universality of Family, Family-Form and Function, Rules of Residence, Hindu Joint Family and Change, Developmental Cycle of Domestic Groups.
5. Kinship: Structure and Importance, Unilineal Descent and Alliance Theories, Type of Kinship, Kinship Terminology, Kinship Categories and Kinship Usage.

### **Suggested Books:**

1. Beals. Ralph and Harry Hoijer: Introduction to Anthropology.
2. Bohannan. Paul: Social Anthropology
3. Firth. Raymond: Element of Social Organization.
4. Mair, L.: Introduction to Social Anthropology.
5. Majumdar D.M., Madan T. N.: An Introduction to Social Anthropology (In Hindi and English)
6. Herskovits M. J.: Cultural Anthropology.
7. Roger Keesing: An Introduction of Cultural Anthropology.
8. Jha P. R., Barnwal D. and Jha R. K.: Anthropology Part – I.
9. Mishra Uma Sankar and Hasnen Nadeem: Social Cultural Anthropology. (In Hindi)
10. Monaghan John and Peter J.: Social and Cultural Anthropology.
11. Evans Pritchard: Social Anthropology.

**Core /Compulsory Course**  
**SHSS-ANTH - PG-C-103**  
**Archaeological Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Introduction to Archaeology:  
Meaning and Scope, Different Types of Archaeology – Classical, Historical, Proto-historic and Pre-historic Archaeology and Ethno-Archaeology.
2. Geological and Archaeological Time Scale:  
Time scale and their Relevance in Interpreting Human Evolution. Geological Framework Tertiary, Quaternary, Pleistocene and Holocene. Ice Ages during Miocene, Pliocene and Pleistocene, Glacial and Interglacial Periods, Causes of Ice Ages. Chronology as a Concept, Fossils and Fossilization, Osseous Material and their Importance, Fossil Bones and Teeth.
3. Dating Method:  
Relative and Absolute Dating. River Terraces, Stratigraphic Dating, Palynology, Radiocarbon Dating, Potassium Argon Dating, Thermo Luminescence, Dendrochronology, Archaeomagnetism, Culture Chronology, The three Age System, Stone/Copper Bronze/Iron Age (Palaeolithic, Mesolithic and Neolithic Period)
4. Tool Typology:  
Stone Tool Typology, Pebble Tools- Chopper, Chopping Tools, Bi-faces-Hand-axe, Cleaver, Scraper, Blade, Microlith, Grinding Stones, Ring Stones.
5. Tool Technology:  
Technique: Percussion, Block on Block, Stone hammer, Cylinder Hammer, Clactonian, Levalloisian, Blade, Grinding and Polishing, Artifacts Typology/Pottery and Other Evidences, Identification and Interpretation of Stone Tools and Fossils.

### **Suggested Books:**

1. Agarwal. D.P.: The Archaeology of India.
2. Agarwal. D.P.: Prehistoric Chronology and Radiocarbon Dating in India.
3. Ghosh. A.: Encyclopaedia of Indian Archaeology.
4. Reddy Rami: Element of Prehistory.
5. Buettner Janusch: Origin of Man.
6. Sankalia. H.D.: Stone Age Tools: Their Techniques, Names, and Probable Function.
7. Majumdar D.N.: Gopal Saran: Pragitihas. (In Hindi)

**Core /Compulsory Course**  
**SHSS-ANTH - PG-C-104**  
**Research Methods in Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Field Work Tradition in all Branches of Anthropology: to Gain Holistic Perspective.
2. Social Research and Social Survey: Logical, Historical and Scientific Methods.
3. Hypothesis: Sources, Characteristics and Importance, Ethnographic Method.
4. Research Design: Exploratory, Descriptive, Diagnostic and Experimental Types of Social Research.
5. Tools of Data Collection: Observation; Interview: Structured, Unstructured and Semi-Structured; Questionnaire; Case Study and Extended Case Methods; Genealogical Method; Sources of Data Collection: Primary and Secondary; Sampling and its Types; Participatory Methodologies: Participatory Learning and Assessment (PLA), Participatory Rapid Assessment (PRA).
6. Personal, Official and Historical Documents and their use in Anthropological Research. Use of Elementary Statistical Techniques – Mean, Median, Mode, Standard deviation. T-Test, Chi-square.

**Suggested Books:**

1. Goode & Hatt. : Method in Social Research.
2. Young P.V.: Scientific Social Surveys and Research.
3. Danda Ajit. : Research Methodology in Anthropology.
4. Ahuja R. : Research Methods.
5. Bartlett F.C: The Study of Society ( Selected Chapter)
6. Bajpai S.R.: Methods of Social Survey and Research.

**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-105**  
**Indian Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Growth and Development of Indian Anthropology: Formulating, Description and Anatomical.
2. Crises and Issues in Indian Anthropology
3. Anthropological Approaches in National Character Studies.
4. Understanding the Diversity of Indian Social Structure - Concept of Varna, Jati, Caste, Ashram and Purusharatha, Gender Hierarchies.
5. Future Directions in Anthropology: Trends in Anthropology: Anthropology of Tourism, Anthropology in Census, Designing and Fashion, Visual Anthropology, Medical Anthropology. Importance of Museums.
6. Tribal Situation in India- Biogenetic Variability, Linguistic and Socio-economic Characteristics, Problems of Tribal Peoples, Land-alienation, Indebtedness, Lack of Educational Facilities,

- Shifting-Cultivation, Migration, Forests and Tribal Unemployment, Tribal Movement, Health and Nutrition,
7. Impact of Culture-Contact, Urbanization and Industrialization on Tribal and Rural Population
  8. Basic Concepts -Great Tradition and Little Tradition, Sacred Complex, Universalization and Parochialization, Sanskritization and Westernization, Dominant Caste, Tribe-caste Continuum, Nature-Man-Spirit Complex, Pseudo tribalism,

**Suggested Books:**

1. Hasnain Nadeem: Indian Anthropology. (In Hindi)
2. Sharma A.N.: Indian Anthropology. (In Hindi)
3. Hasnain Nadeem: Unifying Anthropology.
4. Mukharjee R.N.: Introduction of Social Anthropology. (In Hindi)

**SHSS-ANTH-PG-C-106**  
**Practical: I. Prehistoric Tools & Material Culture**  
**(Practical: Credits–3, Marks-60+20+20)**

**Prehistoric Tools:**

1. Prehistoric Tools: Identification, Scientific Sketching and Description with type and Technology of the following Tools. Chopper/ Chopping Tool, Hand-axe and Cleaver tool, Side Scraper, End Scraper, Borer, Burin, Flakes and Blades, Microliths.
2. Material Culture: Detail will be given by Department.

**M.A / M.Sc II SEMESTER**  
**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-201**  
**Human Genetics**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Human Genetics: Definition and Scope.
2. Basic Principal of Heredity: Mendelism, Monohybrid and Dihybrid Cross, Universality of Mendelian Principles in Man, Dominant Inheritance, Recessive Inheritance
3. Non-Mendelian Inheritance: Linkage - Sex-Linkage (Sex-linked, Sex-influenced Inheritance).
4. Structural and Chemical Basis of Genetics: Chromosome, DNA, RNA and Gene.
5. Chromosomal Aberration and Anomalies: Numerical Chromosomal Aberration and Disorders (Turner Syndrome, Klinefelter Syndrome, Patau Syndrome, Edwards Syndrome, Down Syndrome), Structural Chromosomal Aberration and Disorder: Deletion, Duplication, Translocation, Inversion
6. Methods of Genetic Study: Genealogical or Pedigree, Foster Child, Twin Method, Types of Twins and Diagnosis.
7. Applications of Human Genetics: Eugenics, Genetic-counseling, Screening, Engineering.
8. Population Genetics: Hardy-Weinberg Law, Random and Non Random Mating.

9. Human Blood Groups: Antigen-Antibody Reactions and Inheritance of Blood Group, ABO, Rh, Mn and Ss.
10. Cell Structure and Cell Division: Mitosis, Meiosis, Significance and Distinction between Mitosis and Meiosis

**Suggested Books:**

1. Birdsell, J.B: Human Evolution: An Introduction to new physical Anthropology.
2. Bodmer & Sforza: Genetic Structure of Human Population.
3. Hartal Daniel: Human Genetics.
4. Li C.C.: Human Genetics
5. Shukla, B.R.K. and Rastogi, S: Physical Anthropology and Human Genetics.
6. Stern Curt: Principles of Human Genetics
7. Vadhy N.K. & Pandey : Biological Anthropology.
8. Choubey Ramesh: Physical Anthropology. (In Hindi)
9. Jha Parfulla Rajan, Barnwal D. and Jha R. K. : Anthropolgy Part – II. (In Hindi)

**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-202**  
**Anthropology of Religion, Politics and Economy**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Religion: Universal Definition of Religion, Origin of Religion - Animism, Manism, Naturalism, Theories of Religio-Psychological, Sociological and Anthropological, Religion and Science.
2. Functionaries of Primitive Religion: The Shaman, Sorceress and Witches, Priests, Magic, Divination, Totem and Taboo.
3. Political Organization: Definition of Primitive Law, Justice in Primitive Society, Social Sanction, Social Control and Government, Panchayat - Origin, Chiefdoms and Kingdoms, Village Council, State and State Less System.
4. Economic Organization: Meaning, Main Stages of Economic Development, Feature of Primitive Economic Organization, Forms of Exchange, Barter, Gift, Ceremonial Exchange, Kula, Silent Trade, Potlatch, Reciprocity and Redistribution, Trade, Division of Labour, Peasant Economy, Tribal Market.

**Suggested Books:**

1. Beals.Ralph & Harry: Introduction to Anthropology.
2. Beattie. John: Other Cultures
3. Bohannan. Poul: Social Anthropology
4. Dumont Lousis: Homo Hierarchicus
5. Mishra U.S., & Hassnain Nadeem : Unifying Anthropology.



**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-203**  
**Prehistoric Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Paleolithic Cultures: Lower Paleolithic Culture: Oldowan, Madrasian, Acheulean, Soanian, Clactonian
2. Middle Paleolithic Culture: African, Mousterian, Indian
3. Upper Paleolithic Culture: Europe – Aurignacian, Solutrean, Magdalenian Cultures
4. Mesolithic and Neolithic Cultures: Mesolithic Europe – Azilian, Tardenoisian, Maglemosian, Kitchen Midden Culture; Neolithic Asia – Jericho and Jarmo Culture;  
Evidences and Characteristic features of Paleolithic, Mesolithic and Neolithic cultures of India
5. Indus Valley Civilization-Chalcolithic Cultures and Megalithic Cultures: Distribution, Period, Characteristics, Causes of Decline, People and Culture of Indus Valley Civilization, Chalcolithic Culture and the Characters.
6. Megalithic Cultures: Menhir/Dolmen, Cist and Cairn, Human fossils from Indian Subcontinent: Narmada Man and Homo Sapiens Skeletal Changes, and Cultural Features of different Phases with reference to Important Indian Sites.

**Suggested Books:**

1. Agarawal D.P.: The archeology of India.
2. Hussnen Nadeem: General Anthropology.
3. Chaubey Ramesh: Archaeological Anthropology.
4. Bhattacharya D.K.: An outline of Indian Prehistory.
5. Agarawal, D.P.:Prehistoric Chronology and Radiocarbon Dating in India.
6. Ghosh, A.: Encyclopedia of Indian Archaeology.
7. Sali S.A.: Stone Age India.
8. Sankalia H.D.: Stone Age Tools: Their Techniques, Names and probable function.
9. Majumdar D.N. and Saran Gopal: Pragitihās. (In Hindi)

**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-204**  
**Paleoanthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Paleoanthropology: Definition and Scope.
2. Geological Time Scale and Dating of Evidences – Relative and Absolute Dating Methods, Perspectives of Taxonomy and Terminology.
3. Primate: Characteristic of Primates, Primate Classification, Comparative Anatomy of Man and Ape.
4. Primate Evolution: Characteristics and Distribution; Earliest Primates, Paleocene; Eocene – Adapoids, Omomoids; Oligocene – Parapithecids, Propithecids; Miocene – Proconsul, Pierolapithecus, Kenyapithecus, Oreopithecus, Sivapithecus/Ramapithecus, Dryopithecus, Gigantopithecus.
5. Sahelanthropus, Ardipithecus, Australopithecus, Paranthropus.

6. Early Homo species, Characteristics and Distribution.
7. Homo erectus – Distribution and Characteristics of different erectus sub species.
8. Homo sapiens neanderthalensis: Characteristics and Distribution, Classical and Progressive, Cro-magnon, Rhodesian Man.

**Suggested Books:**

1. Boule & Vallios: Fossil man
2. Dobzhansky T.: Mankind Evolving
3. Simons: Primate Evolution- An Introduction to Man's Place in Nature
4. Shukla & Rastogi: Physical Anthropology and Human Genetics: An Introduction (Also available in Hindi)
5. Singh Udai Pratap : Jaivik Manav Vigyan .

**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-205**  
**Developmental Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Development: Meaning and Evolution of the Concept, Development Strategies and Policy in India.
2. Poverty and Development, Social Justices and Equality, Poverty Alleviation Programmes, Human Resources Development (HRD).
3. Planning: Concept, Agencies for Development: Government and Non Government, Development Indicator and Impediment.
4. Rural Development: Land Reforms C.D.P.. Panchayati Raj, Tribal Development, Constitutional Provisions for Development of Scheduled Castes and Scheduled Tribes, Administration of Scheduled Areas (fifth scheduled of the constitution), Social-Cultural Factors in Development with Case Studies.
5. Role of N.G.O in Development and Role of Anthropologist in Tribal Development.

**Suggested Books:**

1. Chansarkar B.A. :Models of Planning in India.
2. Cochrane: Development Anthropology.
3. Dey, Nitish: Overcoming Under Development.
4. Prasad Kamta: Planning for Poverty Alleviation.
5. Mathur H. M (ed.) : The Human Dimension of Development.
6. Foster G. M : Traditional Societies and Technological Change.
7. Pandey R. : Sociology of Development
8. Vidyarthi L. P (ed.): Applied Anthropology in India.
9. Singh Tarlok: Planning in India.
10. Dalton George: Economic Anthropology and Development.
11. Upadhya Vijay S. & Pandey Gaya : Development Anthropology. (In Hindi )

**Core /Compulsory Course**  
**SHSS-ANTH - PG-C-206**  
**Practical: Anthropometry**  
**(Practical : Credits–3, Marks-60+20+20)**

**A. Somatometry:**

Maximum Head Length, Maximum Head Breadth, Cephalic Index. Nasal Length. Nasal Breadth, Nasal Index, Morphological Facial Height, Head Circumference, Height Vertex or Stature, Sitting Height, Body Weight, Ponderal Index, Height Acromian, Height Illiocristate, Height Cervical, Height Span, Height-Dactylion, Bigonial Breadth, Total Arm Length, Glabella Inion Length, Nasal Height, Nasal Depth.

**B. Craniometry**

Maximum Cranial Length, Maximum Cranial Breadth, Maximum Frontal Breadth Length of the Foramen Magnum, Total Cranial Height, Morphological Facial Height, Nasal Length, Nasal Breadth, Nasal Index, Cranial Index, Glabella Lambda Length, Frontal Arch, Parietal Arch, Occipital Arch, Glabella-Lnian Length, Nasion-Lnian Length, Basion-Bregma Length., Maximum Occipital Breadth, Bizygomatic Breadth, Bimaxillary Breadth.

**C. Sometoscopy:**

Head form, Hair Form, Facial Form, Eye Form, Nose Form, Lips Form, Ear Form, Body Height, Skin Form & Colour

**Self Study Course**  
**SHSS-ANTH-PG-S-207**  
**Demographic Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Demographic Anthropology: Introduction, Definition and Basic Concepts, Relationship between Demography, Population Studies and Anthropology, Importance of Population Studies in Anthropology.
2. Population Theories: John Graunt, Thomas R. Malthus, Biological Theory of population, Theory of Demographic Transition.
3. Tools of Demographic Data: Measures of Population Composition, Distribution and Growth, Measures of Fertility, Measures of Mortality, Measures of Migration.
4. Population of India: Sources of Demographic Data in India, Growth of Indian Population, Demography of Indian Tribal and Non-tribal Groups, Anthropological Determinants of Population Growth, Impact of Urbanization on the Migration of Tribal Groups.

5. National Policies: National Population Policy, National Health Policy, National Policy on Reproductive Health Care.

**Suggested Books:**

1. Bhende A. and Kaniikar T. : Principles of Population Studies. (All Units, It covers most topics)
2. Caldwell J.C.: Demographic Transition Theory.
3. Census of India (2001-2011), SRS bulletin (2013), NFHS (2006 ), CRS, NSSO ( Can be seen from browsing net)
4. Gautam R.K., Kshatriya, G.K. and Kapoor A.K. :Population Ecology and Family Planning. .
5. Howell N. : Demographic Anthropology.
6. Kshatriya G.K.: Ecology and health with special reference to Indian tribes.
7. Kshatriya G.K., Rajesh,G. and Kapoor , A.K. : Population Characteristics of Desert Ecology.
8. Misra B.D.: An introduction to the study of population.

**M.A / M.Sc III SEME\$TER**  
**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-301**  
**Medical Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Medical Anthropology: Definition, Aim, Scope and Subject Matter of Medical Anthropology. Historical Development of Medical Anthropology. Basic Concepts: Illness, Sickness, Disease.
2. Theoretical Orientations in Medical Anthropology: Classificatory Approach- W.H.R. Rivers, Culture- Trait Approach- Forest Clements. Structure, Functional and Cultural Configurational Approach: E.H. Ackerknecht, Margaret Mead, Benjamin D.Paul, George M. Foster. D. Recent Trends- Alexander Alland, Frederich L. Dunn, Horacio Fabrega.
3. Medical Systems :
  - a) Medical Systems as Cultural Systems: Illness Disease Dichotomy; Illness Etiologies; Illness Classification and Perception: Professional, Folk and Popular Sectors in Medical System.
  - b. Medical System as Social System and Adaptive System.
4. Health Care Delivery System- International Settings- Cause: Therapeutic Interview (Doctor-patient relationship); Public Health, Preventive Measures. Health for All by 2000 A.D.
5. Concept of Health and Health Affecting Factors; Addiction and Health: Therapy and Prevention. Concept of Sick Person, Public Health, and Rights in Health Care.
6. Folk Psychiatry: Culture Change and Mental Illness; Therapeutic Elements in Magico-Religious Healing Techniques; Illness and Social Control.
7. Medical Pluralism: Cosmopolitan, Regional and Local Medical Systems: Therapeutic Management Group; Ambiguities in Medical Revivalism; Community Health Workers Scheme.
8. Traditional Medicines in the Central Himalayas; Specialized, Generalized and Home medicines Sectors. Forms of Traditional Medicines, Natural and Supernatural.

**Suggested Books:**

1. Foster G.M & Anderson B.G: Medical Anthropology.
2. Brown Q.G et al: Understanding and Applying Medical Anthropology.
3. Kalla A.K & Joshi P.C: Tribal Health and Medicine.
4. Helman C.: Culture, Health and Illness.
5. Jha Parfulla Rajan, Barnwal D. and Jha R. K.: Anthropology Part – I (In Hindi)

**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-302**  
**Applied Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Applied Anthropology: History, Aims & Scope, Applied and Action Anthropology.
2. Anthropology and Tourism - Sacred Geography.
3. Anthropology and SC/ST Policy; Constitutional Safeguards and Implementation.
4. Anthropology as a Museum Subject: Museums in India and World; Methodology of Collection of Anthropological Objects through Field Work; Documentation Including Visual Documentation and Use of Computers. Storage and Retrieval Procedures, Methods of Handling, Restoration, Conservation and Preservation, Methods of Display and Exhibition, Role of Anthropological Museums in Community life and National Integration.
5. Anthropometry of Sports: Impact of Activity and Exercise on Respiratory Functions; Physical Performance Test.
6. Role of Anthropology in Development: Anthropology and Public Policy, Need Assessment and Community Development, Anthropology of NGO's, Water Management, Environment and Community Health, Social and Economic Sustainability, Cultural Resource Management.
7. Developmental Projects, Tribal Displacements and Rehabilitation Problem.

**Suggested Books:**

1. Barnett H.: Anthropology in Administration.
2. Cochrane Y.: Development Anthropology.
3. Foster G.M.: Traditional Cultures and Impact of Technological Change.
4. Mair L.: Studies in Applied Anthropology.
5. Tax Sol: Action Anthropology.
6. Vidyarthi L.P (ed.): Applied Anthropology in India.

**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-303**  
**Tribal India**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Tribe Definition, Concept of Tribe in Indian Context.
2. Tribal Societies in Changing Perspective: Pre-colonial Period, Colonial Period, Post Independence
3. Geographic and Linguistic Distribution of Tribes in India.
4. Institutional Structure: Kinship, Family and Marriage, Economy, Religion.
5. Social Changes in Tribal Societies: A Historical Perspective, Tribe-cast Interaction, Economic and Political Factors of Change in Tribe, Tribal Uprising.
6. Social Change in Contemporary Period: Political Democracy, Constitutional Safeguards in Modern India, Industrialization and Urbanization.
7. The Problems of Indian Tribes and Tribal Welfare, Constitutional Safeguard & provisions, Tribal Development Plans and Policies, Displacement and Rehabilitation, Tribal Movements.
8. Ethnographic Profiles of Uttarakhand Tribes: Bhotia, Jaunsari, Boxa, Tharu and Raji.

**Suggested Books:**

1. Mukharje, R.Nath : Samajik Manavsashtra ki Ruprekha.
2. Nadeem Husnain : Tribal India (In Hindi and English)
3. Srinivas, M.N: India Social Structure.
4. Upadhaya V.S & Gaya Pandey : Janjatiya Vikas
5. Chauhan V.S: Bharat ki Janjatiyan : Uttarakhand ke Sandarbh Main.

**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-304**  
**Serology and Dermatoglyphics**  
**(Practical : Credits–3, Marks-60+20+20)**

**Serology:**

1. Blood Group
  - I. Blood Typing-Detection of Complete and Incomplete Antibodies with reference to Rh. MNSs. Kell and Lewis Blood Group Systems.
  - II. Detection of Secretion of Antigens in Saliva- ABH and Lewis Antigen Secretion.
2. ABO (Subgroups), MN and Rh Blood Group System.
3. PTC, Colour Blindness

**Dermatoglyphics:** Finger Print, Palmer Print, Planter Print

**OR**  
**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-304**  
**Project Report: Based on Bio-Social Anthropology**  
**(Practical: Credits–3, Marks-60+20+20)**

1. The Students will prepare a Project Report based on Secondary Sources and Primary Data Collected through Fieldwork in a Community.
2. Methods and Techniques of Social Anthropology: The Practical will include the following Techniques and Methods in Collection of Data in Social Anthropology.
  1. Observation
  2. Interview
  3. Questionnaire
  4. Schedule
3. Make a Project Proposal on any Relevant Issue of Bio-Social Anthropology and based on the above material.

**Elective Optional Course: Group-A**  
**SHSS-ANTH-PG-E-305 (A)**  
**Human Growth and Development**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Definition and concept of Growth, Differentiation Maturation and Development.
2. Stages of Growth- Prenatal, Infancy; Childhood; Adolescence; Maturity; Senescence, Gerontology.
3. Factors Affecting Growth- Genetic, Environmental, Hormonal, Socio-economic, and Secular Trends.
4. Importance of Age-recording and Decimal Age in Growth Studies.
5. Segmental Growth and Maturation Direction.
6. Methods of Studying Human Growth and Development- Longitudinal Cross Sectional and Mixed Longitudinal, Growth Curves, Measurements employed in the study of Human Growth and Development. Analysis of Human Physique and Body composition- Sheldon Parnell; Health- Caste Method of Somatotyping.
7. Nutritional Assessment and Nutritional Status. Nutritional Requirement and Recommended Allowances for the entire life span from Infancy to old age (a) Protein (b) Fat (c) Carbohydrates (d) Mineral-cum- Vitamins.

**Suggested Books:**

1. Malina, Robert M; Bouchard, Claude, Bar-Or, Oded. Human Kinetics. Growth, maturation & physical activity.
2. St. Louis, Academic Press: Human growth and development by Cameron Noel.
3. Bogin Barry : Patterns of human growth.
4. Harrison, GA; Tanner, JM; Pilbeam, DR; Baker PT Human biology: An introduction to human evolution, variation, growth & adaptability .
5. Johnson FE, Roche AF, Susanne C. eds.: Proceeding on Human Physical Growth and Maturation .
6. Heyward, VH; Wagner DR.: Applied body Composition Assessment.

**Elective Optional Course: Group-A**  
**SHSS-ANTH-PG-E-306 (A)**  
**Human Evolution and Variation**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Evolutionary Record: Early Evolutionary History, Paleozoic Era, Mesozoic Era, Cenozoic Era.
2. Primate classification and living Primates, Common Primate Trait
3. Primate Evolution: From early Primates to Hominoids; Primate evolution during Paleocene and Eocene; Oligocene Anthropoid; Early, Middle and Late Miocene Apes; Divergence of Hominin from Hominoids
4. Evolution of Bipedal Locomotion; Sahelanthropus, Orrorin, Ardipithecus, Gracile and Robust Australopithecus
5. Genus Homo; Homo habilis, Homo rudolfensis, Homo ergaster, Homo erectus, Homo heidelbergensis; Neanderthalensis, divergence and extinction.
6. Speciation of Homo sapiens from archaic to modern
7. Evolutionary Theory: Modern Theory of Evolution and Recent challenges to Modern Synthesis, Factors that Produce and Redistribute Variation - Mutation, Migration, Genetic Drift, Recombination, Natural Selection Acting on Variation, Evolution at Species Level, Modes of Evolutionary Change, Graduation vs Punctuation, Micro and Macro Evolution, Mutation, Occurrence & Production, Spontaneous, Neutral and Induced Mutation, the Fitness of Population and Genetic Load. Social Consequences of Induced Mutation.

**Suggested Books:**

1. Craig Stanford, John S. Allen and Susan C. Anton : Biological Anthropology (2nd Edition).
2. John Buettner-Janusch: Origins of Man.
3. Simon E. L.: Primate Evolution: An Introduction to Man's Place in nature.
4. Das B. M. : Outline of Physical Anthropology.
5. Shukla B.R.K. and Rastogi : Physical Anthropology & Human Genetics .(In Hindi & English)
6. Vadhya N.K. & Pandey : Biological Anthropology.
7. Choubey Ramesh: Physical Anthropology. (In Hindi)
8. Jha Parfulla Rajan, Barnwal D. and Jha R. K. : Anthropology Part – II. (In Hindi)

**Elective Optional Course: Group-A**  
**SHSS-ANTH-PG-E-307 (A)**  
**Human Cytogenetics**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Chromosomes in Man- Technique of studying Human Chromosomes from Leucocytes, Fibroblasts and Bone Marrow.
2. Techniques of studying Nuclear Sex-sex Chromatin from Buccal Smear, Drum Stick Leucocytes.



3. Normal Human Karyotyping, Identification of Chromosomes. Banding Techniques- Q Banding, C Banding, G Banding, R Banding, T Banding, Silver Staining Standardization of Nomenclature- International System for Cytogenetic Nomenclature (ISCN-1978,1981).
4. Chromosomal Structure
5. Types of chromosomal Aberration:
  - a. Numerical (Turner Syndrome, Klinefelter Syndrome, Triple-X, Tetra-X, Down Syndrome, Patau Syndrome, Edwards Syndrome, Sturge Weber Syndrome).
  - b. Structural- Deletions- Cri-du-chat Syndrome, Deletion of short arm of 18 and Philadelphia Chromosome Duplications.
  - c. Translocations –D/D, D/G, G/G, Acrocentric/non-acrocentric/metacentric/metacentric Ring Chromosome, Isochromosome Inversions -Pericentric, Paracentric, Mosaicism, Anaphase Lag Triploidy & Tetraploidy.
6. Genetic Counseling and Engineering.

**Suggested Books:**

1. Strickberger, M.W. - Genetics.
2. Mckusic, V.A.: Human Genetics.
3. Stern Curt: Principles of Human Genetics.
4. Leuitan & Mantagn: A Text Book of Human Genetics.
5. Horrison et al.: Human Biology.
6. Giblett, E.R.: Genetic Markers in Human Blood.

**Self Study Course Group-A**  
**SHSS-ANTH-PG-S-308 (A)**  
**Human Resource Management**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Human Resources Management: Definition, Objectives, Importance of Human Resources Management.
2. Personnel Management: Definitions, Objectives, Scope and Subject Matter, Function Responsibility and Qualifications.
3. Recruitment, Selection, Placement, Training, Performance Appraisal, Supervision.
4. Group Dynamics and Leadership, Industrial Psychology, Motivation. Morale & Job Satisfactions.
5. Nature of Human Relations, Its Objectives, Scope and Importance, Labor Welfare, Grievance, Social Security, Industrial Unrest and Labor Movement.

**Suggested Books:**

1. Michael. V.P.: Human Resources Management and Human Relations.

2. Mathur, B.L.: Human Resource Management.
3. Chandan, Ashok & Shilpa Kabra : Human Resources Strategy: Architecture for charge.
4. Bhatia, S.K. and Nirmal Singh: Principle and Techniques of Personnel Management.
5. Paul Pigors and Charles A. Myers: Personnel Administration.

**Elective Optional Course: Group-B**  
**SHSS-ANTH-PG-E-305 (B)**  
**Linguistic Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Linguistics Anthropology: Definition, Meaning and Scope. Uniqueness of Human Language. Genetic Basis of Language.
2. Nature of Language: Phonology, Morphology, Syntax, Paralanguage, Gesture, Semantics, Sociolinguistics, Speech act.
3. Structural Analysis in Linguistics and Anthropology (Levi-Strauss).
4. Folk Classification: Ethno semantics, Taxonomic Systems, Componential Analysis.
5. Marginal Languages: Jourgons and Creole Dialects.
6. Linguistics Change: Linguistic and Culture Change, Interlingua Word Taboo.
7. Reconstruction in Linguistics.
8. India as a Linguistic Area. Linguistic Features of Central and Western Pahari.

**Suggested Books:**

1. Chambers, J.K. and P. Trudgill: Dialactology.
2. Hockett, C.F.A. course in modern Linguistics.
3. Edwin Ardner : Social Anthropology and Language
4. J.Gumperz and D.Hymes : Directions in Social Linguistics.
5. R.H Robbins : General Linguistics (Also available in Hindi).
6. Harish Sharma : Bhasha Vigyan ke Ruprekha.

**Elective Optional Course: Group-B**  
**SHSS-ANTH-PG-E-306 (B)**  
**Communication and Visual Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Communication: Definition and Scope, Concept, Theories of Communication.
2. Anthropological Perspective of Communication in Society.
3. Symbolic Forms and Art as a Form of Communication.
4. Communication as Building Blocks for Culture and Personality.
5. Communication through Kinship System. Process of Learning in Society.
6. Mass-media and Mass-communication. SITE Experience, Audio-Visual Documentation, Photography as a Research Methods,

7. Introduction to Visual Anthropology. Visual Culture. Photographic and Digital Media: Still, Interactive and Moving.
8. Theory and Representation. Anthropology and Images: Ethno photography and Ethnographic films and mass media. Theories of representation, modern media and political Advocacy.
9. Ethnographic Photography: Conventions and Methodologies. Paradigms and Debates Ethnographic Films: Theoretical issues concerning ethnographic film, Film for Development,

**Suggested Books:**

1. Chambers, J.K. and P. Trudgill: Dialectology.
2. Hockett, C.F.A. course in modern Linguistics.
3. Marcus Banks and Howard Morphy, 1998, Rethinking Visual Anthropology.
4. Henley P. (2010). The Adventure of the Real. Jean Rouch and the Craft of ethnographic Cinema. Chicago University Press .
5. Ruby, Jay. 1996. "Visual Anthropology." In Encyclopedia of Cultural Anthropology, David. Levinson and Melvin Ember, editors. New York: Henry Holt and Company, vol. 4:
6. Schneider A. and Wright C. (2010) Between Art and Anthropology: Contemporary Ethnographic Practice. Berg Publishers [Practical]

**Elective Optional Course: Group-B**  
**SHSS-ANTH-PG-E-307 (B)**  
**Ethnology of India**  
**(Theory: Credits-3, Marks-60+20+20)**

1. Ethnology: Definition, Ethnic Affinity of the Prehistoric Indian Population as Evident from the Skeletal Remains.
2. Ethnic Affinity of the Present Indian Population-Pattern of Classification- Risley, Guha, Hootan, Huddan classification, its Merits and Limitation.
3. Race and Races of World: Scientific Meaning of Race, Characteristics of Race, Origin of Race, Racism, Races vs Ethnic Group.
4. Linguistic Distribution vis-a-vis the Ethnic Group of Indian Population.
5. Ethnic Composition of Himalayan Population.

**Recommended Readings:**

1. Sarkar, R.M : Fundamentals of Physical Anthropology
2. Ghosh and Ghosh: Introduction to Physical Anthropology.
3. Das, B.M.: Outline of Physical Anthropology.
4. Mukherjee, R.N.: Introduction of Social Anthropology (in Hindi).
5. Sharma A.N. Indian Anthropology (In Hindi)

**Self Study Course: Group-B**  
**SHSS-ANTH-PG-S-308 (B)**  
**Anthropology in Disaster Management**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Concept, Definitions and Nature of Disasters. Causes and Types of Disasters: Famines, Floods, Earthquakes, Epidemics', Wars Industrial. Disasters, Nuclear Disasters.
2. Anthropological approaches to study disasters - archaeological/historical, political ecology, socio-cultural behavioral, gendered perspective.
3. The Effects and Aftermath of Disasters, Victims and Supervisions.
4. The Welfare State and Disasters: The Role of the State in Preventing, Apprehending and Management Disasters.
5. Management of Disaster- Historical perspective, International and national agreements and protocols.
6. Health, Education, Social and Economic impacts of Disaster.

**Suggested Books:**

1. Das Veena and Nandy Ashis: Violence, Victimhood and the Language of Silence, Contributions to Indian Sociology.
2. Sharma Dharendra: India's Nuclear Estate.
3. Haksar P.N. et. al.,: A Statement of Scientific Temper.
4. Nandy Ashish : Science, Authoritarianism and Culture.
5. Bidwai Praful: Atomic Power on the Run.
6. Sharama Dharendra (ed.): The Indian Atom: Power and Proliferation.
7. Sharama Dharendra: India's Nuclear Estate.
8. Nandy Ashis: The Bomb: The Illustrated Weekly of India.
9. Bajaj Jatinder K.: The Bhopal Tragedy: The Responsibility of the Scientific Community.
10. Sahasrabudhey Sunil: Bhopal: Science Must Share the Blame.

**M.A / M.Sc IV SEMESTER**  
**Core /Compulsory Course**  
**SHSS-ANTH-PG-C-401**  
**Dissertation**  
**(Practical: Credits–9, Marks-60+20+20)**

The Fieldwork is to be conducted for one month at a place outside the territory of university campus under the supervision of one or two faculty members and staff of the Department. After analysis of collected data and observations a report in the form of dissertation will be submitted to the Department. Seminar with a viva-voce examination will be conducted on the whole work. The student will have to stay in the field for the whole duration of one month in the supervision of the faculty member, only then the candidate will be eligible for presentation of the dissertation.

**Elective Optional Course: Group-A**  
**SHSS-ANTH-PG-E-404 (A)**  
**Ecological Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Ecological Anthropology: Aims and scope.
2. History of Ecological Anthropology: Contributions of Julian Steward, Dyrrel Ford, Leslie White, Vayda and Rappaport, Richard Lee and Irven De Vore.
3. Environment and Habitat: Evolution of Dwelling Forms; Major Types of Settlement Patterns in India; House Types and Construction Techniques.
4. Ecology and Subsistence Strategies: Hunting-gathering; Horticulturist; Pastoral; Shifting Cultivation: Agro-pastoralism.
5. The Symbolic Relationship: Man, Nature and Spirit (Maler); Man, Nature and Animal.
6. Himalayan Ecology: Issues and Trends; Himalaya State of Natural Environment Himalaya-Cultural Mosaic; Himalayan Eco-system Man-Nature Interaction; Threats-Demographic; Technological and Human Activities.

**Suggested Books:**

1. Descola Philippe, Gisli Palsson.: Nature and society: anthropological perspectives.
2. Cohen Yehudi A.: Man in adaptation: the cultural present.
3. Guha Ramachandra. : The unquiet woods: ecological change and peasant resistance in the Himalaya.
4. Guha Ramachandra.: Social ecology. Oxford in India readings in Sociology and Social Anthropology.

**Elective Optional Course: Group-A**  
**SHSS-ANTH-PG-E-405 (A)**  
**Forensic Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Definition and Scope of Forensic Anthropology.
2. Study of Skeletal Material, Human and Animal Remains, Study of Burned Bones and Long Fragments; Judgment of Time and Cause of Death.
3. Attribution of Sex, Estimation of Age and Reconstruction of Stature from the Skeletal Remains and their Medico Legal Implication.
4. Establishment of Partial and Complete Identity of Skeletal Material and Dead Bodies.
5. Personal Identification of Living Persons- Identification through Fingerprints, Somatometric and Somatoscopic Observations, Serological Traits, Occupational Marks, Scars and Deformities, Handwriting and Mannerism etc.
6. Comparative Evolution of Human and Animal Hair.
7. Identification of Blood Stains and Determination of its Species- Identification of Seminal Stain and other Physiological Fluids like Urine, Saliva, Vomit, etc.
8. Detection of Narcotics and their effect on Human Body.

## **Suggested Books**

1. Sarkar R.M.: Fundamentals of Physical Anthropology.
2. Ghosh and Ghosh: Introduction to Physical Anthropology.
3. Das B.M.: Outline of Physical Anthropology.
4. Nath Surendra: Forensic Anthropology.
5. Jha & Jha: Anthropology Part II.(In Hindi & English)
6. Nath Surendra. : Identification of Finger Prints.
7. Linda L. Klepinger : Fundamentals of Forensic Anthropology.
8. Steven N. Byers.: Introduction to Forensic Anthropology. (3rd Edition)

**Elective Optional Course: Group-A**  
**SHSS-ANTH-PG-E-406 (A)**  
**Practical Forensic**  
**(Practical : Credits–3, Marks-60+20+20)**

1. Study of Human Long Bones and Relevant Measurement for Estimation of Stature. Estimate of Age from Skull and Determination of Sex from Skull and Pelvic Measurement.
2. Measurement and Observation on Living Person.
3. Recording and Classification of Fingerprint, Development of Chance Print by Various Methods.
4. Hair Examination from various Body Sites and Comparative Analysis.
5. Identification of Seminal, Urine and Saliva Stains.

**Self Study Course: Group-A**  
**SHSS-ANTH-PG-S-407 (A)**  
**Human Population Genetics**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Definition, Aim and Scope of Population Genetics and its role in Anthropology. Mendelian Principles of Inheritance and their relevance to Human Population. The Mendelian Population, Gene Pool.
2. Mutations in Man- Determining the Human Mutation Rate, Selection, Fitness, Balance Hardy-Weinberg Law and its Applications in Human Populations Genetics.
3. Population Distance - Genetic Distance, Morphological Distance and Population Heterogeneity.
4. Genetic Polymorphism- Concept, Balanced and Transient Stages Models Explaining Maintenance of Genetic Polymorphism.
5. Heterozygans Selection, Intra Uterine Selection, Fitness as a Function of Gene Frequency.
6. Genetic isolates- Formation and Disintegration, Genetic Consequences of Isolation Formation with special reference to Genetic Drift.
7. Genetic and Variability of (I) Skin Pigmentation (normal & induced) (II) Dermal Ridge Patterns (III) Serological Traits (ABO, MN, Rh & Secreter Factors).

**Suggested Books:**

1. Caualli-Sforza, L.L. and- The genetic of Human Population Crow.
2. Kimura M. - An Introduction to Population Genetic.
3. Stern Curt: Principles of Human Genetics.
4. Vogel F. & Matulsky A.G.: Human Genetics, Population & Approaches.
5. Singh U.P: Genetical Anthropology.
6. Shukla B.R.K and Rastogi : Human Genetics and Racial Variation.

**Elective Optional Course: Group-B**  
**SHSS-ANTH-PG-E-404 (B)**  
**Ecological Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Ecological Anthropology: Aims and scope.
2. History of Ecological Anthropology: Contributions of Julian Steward, Dyrrel Ford, Leslie White, Vayda and Rappaport, Richard Lee and Irven De Vore.
3. Environment and Habitat: Evolution of Dwelling Forms; Major types of Settlement Patterns in India; House types and Construction Techniques.
4. Ecology and Subsistence Strategies: Hunting-gathering, Horticulturist, Pastoral, Shifting Cultivation, Agro-pastoralism.
5. The Symbolic Relationship: Man, Nature and Spirit (Maler), Man, Nature and Animal.
6. Himalayan Ecology: Issues and Trends; Himalaya State of Natural Environment Himalaya-Cultural Mosaic, Himalayan Eco-system Man-nature Interaction, Threats-Demographic, Technological and Human Activities.

**Suggested Books:**

1. Descola Philippe, Gisli Palsson.: Nature and society: anthropological perspectives.
2. Cohen Yehudi A.: Man in adaptation: the cultural present.
3. Guha Ramachandra. : The unquiet woods: ecological change and peasant resistance in the Himalaya.
4. Guha Ramachandra.: Social ecology. Oxford in India readings in Sociology and Social Anthropology.

**Elective Optional Course: Group-B**  
**SHSS-ANTH-PG-E-405 (B)**  
**Theory of Social Anthropology**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Evolution Theory: Bachofen. McLennan, Morgon, Frazer, and Taylor.
2. Diffusionism: British, German and American Diffusionism. Diffusionism (including the concepts like Culture Age, Culture Area, Diffusion, Acculturation),
3. Functionalism and Structural-Functionalism: Malinowaski and Radcliffe Brown.
4. Structuralism: Structural Analysis of Symbols, Myth and Totemism (Claude Levi- Strauss and E.R. Leach)

5. Symbolism: Nadal and Firth.
6. Culture and Personality Approach.
7. New Ethnography and Semantic analysis

**Suggested Books:**

1. Clifford Geertz: The Interpretation of Cultures: Selected Essays.
2. Harris Marvin: Rise of Anthropological Theory.
3. Applebaum H.A.: Perspectives in Cultural Anthropology.
4. Barnard A.: History and Theory in Anthropology.
5. McGee R.J. and Warms R.L.: Anthropological Theories: An Introductory History.
6. Moore M. and Sanders T.: Anthropology in Theory: Issues in Epistemology.
7. Jha Makhan : An Introduction to Anthropological Thought.(In Hindi)
8. Misrh Uma.S. Anthropological Thought.(In Hindi)
9. Pandey Gaya : History of Anthropological Thought. (In Hindi)

**Elective Optional Course: Group-B**  
**SHSS-ANTH-PG-E-406 (B)**  
**Ethnographical Project Report**  
**(Practical : Credits–3, Marks-60+20+20)**

1. The Student shall be required to make Empirical Investigation on a SC/ST, Other's Backward Class and Backward Areas & Villages. The Field work should be minimum 15 days of outside from Campus/ College.
2. Project Report based on Bio-Social Anthropological Study.
3. The Report should be prepared by Research Techniques and Methods.
4. They shall submit a typed Project Report under the Supervision of a Teacher.

**Self Study Course: Group-B**  
**SHSS-ANTH-PG-S-407 (B)**  
**Biostatistics and Computational Anthropology (Interdisciplinary)**  
**(Theory: Credits–3, Marks-60+20+20)**

1. Introduction to Basic Components of Computers.
2. Concepts of Hardware.
3. Concept and Application of Software - Introduction to MS-Office ( MS-Word, MS-Excel, MS-Power Point.
4. Basic knowledge of Software's applied in Anthropological Data like Demography and Genetic Data.
5. Various types of representation of Population Data (Tabular, Graphical).
6. Basic concepts like Hypothesis, Probability, Variance, and Test of Significance.

**Suggested Books:**

1. Pearson Jerrold : Biostatistical Analysis 4th Edition.
2. Crawford : Anthropological Genetics: Theory, Methods and Applications
3. Benjamin M. Neale Eds: Statistical Genetics: Gene Mapping Through Linkage and Association
4. Pagano M.& Gauvreau K.: Principles of Biostatistics,