

List of Courses Focus on Employability/ Entrepreneurship/Skill Development

Department : Anthropology and Tribal Development

Program Name : B.A./B.Sc

Academic Year :2021-22

List of Courses Focus on Employability/ Entrepreneurship/Skill Development

Sr. No.	Course Code	Name of the Course
1.	AAUETT1/ ASUETT1	Human Genetics
2.	AAUELT1/ ASUELT1	Practical on Human Genetics
3.	AAUETT2/ ASUETT2	Anthropology in Practice
4.	AAUELT2/ ASUELT2	Practical on Anthropology inPractice
5.	AAUETD1/ ASUETD1	To be chosen from available DSE papers*
6.	AAUELD1/ ASUELD1	Practical based on DSE-1
7.	AAUETD2/ ASUETD2	To be chosen from available DSE papers*
8.	AAUDLD2/ ASUDLD2	Practical based on DSE-2
9.	AAUFTT1/ ASUFTT1	Applied Biological Anthropology
10.	AAUFLT1/ ASUFLT1	Practical on Applied BiologicalAnthropology
11.	AAUFTT2/ ASUFTT2	Indian Anthropology
12.	AAUFLT2/ ASUFLT2	Practical on Indian Anthropology
13.	AAUFTD1/ ASUFTD1	To be chosen from available DSE papers*
14.	AAUFLD1/ ASUFLD1	Practical based on DSE-3
15.	AAUFLF1/ ASUFLF1	Will be decided by HOD in consultation with other faculties
16.	DSE-1	Sports Anthropology
17.	DSE-2	Advanced Human Genetics
18.	DSE-3	Anthropology of Religion, Politics and Economy



Minutes of Meetings (MoM) of Board of Studies (BoS)

Academic Year :2021-22

School : School of Studies in Life Sciences

Department : Anthropology and Tribal Development

Date and Time : October 26, 2021- 10:30AM to 4:00 PM

Venue :E-Class Room

Department of Anthropology and Tribal Development

Sub: Minutes of the BoS meeting for BA/B.Sc and MA and M.Sc syllabus.

The BoS approved CBCS based BA/B.Sc and CBCS based MA and M.Sc syllabus are submitted for onward action. The BoS of the department was organised on 26.10.2021 through online mode. The HVC nominee joined online and gave couple of feedback as per the CBCS needs to improve the existing syllabus. Accordingly, the syllabus were revised and approved in the BoS of the department

A.R. (Acad)

nilakanth
26/10/21
Anthropology

Members:

1. Prof Jagannath Das
Prof of Anthropology
Utkal University
Bhubaneswar
Odisha
HVC Nominee
2. Mr. Balam Oraon
Assistant Professor
Dept of Anthropology and tribal Development
GGV, Bilaspur
Member
3. Dr. Nilakantha Panigrashi
Associate Professor
Dept of Anthropology and Tribal Development
GGV, Bilaspur
Member
4. Dr. Nilakantha Panigrashi
Associate Professor
Dept of Anthropology and Tribal Development
GGV, Bilaspur
HoD and Chairman of BoS

online, mail attached

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विभागाध्यक्ष/H.O.D.
मानव विज्ञान एवं जनजाति विकास विभाग
Department of Anthropology & T.D.
गुरु घासीदास विश्वविद्यालय, राँची (छ.ग.)
Guru Ghasidas Vishwavidyalaya, Raipur (C.G.)

Signature & Seal of HoD



Scheme and Syllabus

SUMMER Internship: 15 days (optional)		Swayam/Swac Abhiyan/ NSS / Industrial/ others	2	100	
V	Core-1	AAUETT1/ ASUETT1	Human Genetics	4	4
	Core -1 Practical	AAUELT1/ ASUELT1	Practical on Human Genetics	2	4
	Core -2	AAUETT2/ ASUETT2	Anthropology in Practice	4	4
	Core -2 Practical	AAUELT2/ ASUELT2	Practical on Anthropology inPractice	2	4
	Discipline Specific Elective (DSE- 1)	AAUETD1/ ASUETD1	To be chosen from available DSE papers*	4	4
	DSE-1 - Practical	AAUELD1/ ASUELD1	Practical based on DSE-1	2	4
	Discipline Specific Elective (DSE- 2)	AAUETD2/ ASUETD2	To be chosen from available DSE papers*	4	4
	DSE-2 - Practical	AAUDLD2/ ASUDLD2	Practical based on DSE-2	2	4
			TOTAL	24	32



VI	Core-1	AAUFTT1/ ASUFTT1	Applied Biological Anthropology	4	4
	Core -1 Practical	AAUFLT1/ ASUFLT1	Practical on Applied Biological Anthropology	2	4
	Core -2	AAUFTT2/ ASUFTT2	Indian Anthropology	4	4
	Core -2 Practical	AAUFLT2/ ASUFLT2	Practical on Indian Anthropology	2	4
	Discipline Specific Elective (DSE-1)	AAUFTD1/ ASUFTD1	To be chosen from available DSE papers*	4	4
	DSE-1 - Practical	AAUFLD1/ ASUFLD1	Practical based on DSE-1	2	4
	Field Work or Project work followed by Presentation /Viva-voce etc.	AAUFLF1/ ASUFLF1	Will be decided by HOD in consultation with other faculties	6	8
			TOTAL	24	32
			TOTAL CREDITS	152 + 4 (SI)	



*List of DSE & SEC papers is attached at the end

Discipline Specific Course (DSE) Two each in Semester V and VI. To be chosen from the following.	Skill Enhancement Course (Skill Based) One each in Semester III and IV. To be chosen
DSE-1: Sports Anthropology	SEC - III
DSE-2: Advanced Human Genetics	
DSE-3: Anthropology of Religion, Politics and Economy	



DEPARTMENT OF ANTHROPOLOGY & TRIBAL DEVELOPMENT GURU GHASIDAS
VISHWAVIDYALAYA, BILASPUR Chhattisgarh

OUTCOME OF THE UG HONORS SYLLABUS

- (i) The students will have a fundamental and systematic or coherent understanding of the academic field of Anthropology, its different branches and applications, and its linkages with related disciplinary areas/subjects;
- (ii) The students will have knowledge that creates different types of professionals related to the disciplinary/subject area of Anthropology, including professionals engaged in research and development, teaching and government/public services;
- (iii) A skillful group of students with different specializations of Anthropology and emerging developments in the field of Anthropology will be available in the market.
- Students will demonstrate the ability to use the knowledge of Anthropology in formulating and tackling Anthropology-related problems and identifying and applying appropriate anthropological principles and methodologies to solve a wide range of problems associated with human society.
 - All the stakeholders including the students will recognize the importance of qualitative as well as quantitative data and approaches/methods in comprehending the human society.
 - Students will plan and execute Anthropology-related experiments or field investigations, analyze and interpret data/information collected using appropriate methods, including the use of appropriate software such as programming languages and report accurately the findings of the experiment/field investigations while relating to the conclusions/findings to relevant theories of Anthropology.
 - The students will demonstrate relevant generic skills and global competencies such as:
 - Students will possess problem solving skills that are required to solve different



types of Anthropology-related problems with well-defined solutions, and open-ended problems that may cross disciplinary-area boundaries.

Students will be competent enough in investigating skills, related to Anthropology-related issues and problems;

(i) Students will be equipped with communication skills involving the ability to listen carefully, to read text and research papers analytically and to present complex information in a concise manner to different groups/audiences;

(ii) Analytical skills of the students will be increased and ability to construct logical arguments using correct technical language related to Anthropology;

(vi) Personal skills ability of the students will be increased to work both independently and in a group.

➤ The students will demonstrate professional behavior such as:

(i) being objective, unbiased and truthful in all aspects of work and avoiding unethical behavior such as fabricating, falsifying or misrepresenting data or to committing plagiarism;

(ii) With the ability to identify the potential ethical issues in work-related situations;

(iii) And will appreciate the intellectual, environmental and sustainability issues; and

(iv) In promoting safe learning and working environments



B.A./B.Sc. V Semester

Core-1: Human Genetics

Paper Code: AAUETT1/ ASUETT1

Credit- 4

Unit I	Methods of studying Human Genetics: Cytogenetics, Mendelian Genetics, Twin Genetics, Sib Pair methods, Population Genetics, Molecular Genetics.
Unit II	Cytogenetics: cell cycle, standard karyotyping and banding techniques (G, C and Q),
Unit III	Chromosomal abnormalities, Lyon's hypothesis, importance of telomere and centromere. Linkage and chromosome mapping, genetic imprinting. Epistasis, Pleiotrophin.
Unit IV	Modes of inheritance: Autosomal (dominant, recessive, codominance), sex linked, sex influenced, sex limited, modifying genes, suppressor genes, selfish gene,
Unit V	Multiple allelic inheritance, multifactorial inheritance (stature and skin Colour),

Suggested Readings

1. Brooker R.J. (2012). Genetics: analysis & principles. The McGraw-Hill Companies, Inc 4th ed.
2. Cavalli-Sforza, L.L. and Bodmer, W.F (1971). The Genetics of Human Population. SanFrancisco: Freeman
3. Cooper DN and Kehrer-Sawatzki H. (2008). Handbook of Human Molecular Evolution. JohnWiley & Sons, volume-2.
4. Crawford MH (2007). *Anthropological Genetics Theory, Methods and Applications*. Cambridge University Press



B.A./B.Sc. V Semester

Core-1: Practical on Human Genetics

Paper Code: AAUET1/ ASUET1

Credit- 2

Practical Credit- 2

Unit I: Bloodgroup typing-A1,A2,B,O,MN and Rh(D)blood groups

Unit II: Colorblindness

Unit III: Glucose-6-phosphatedehydrogenasedeficiency(G6PD)

Unit IV: PTCtastingability

Unit V: Biochemicalmarkers- DNAisolationand polymerasechainreaction(PCR)

Suggested Readings

1. Brooker R.J. (2012). Genetics: analysis & principles. The McGraw-Hill Companies, Inc 4th ed.
2. Cavalli-Sforza, L.L. and Bodmer, W.F (1971). The Genetics of Human Population. SanFrancisco: Freeman
3. Cooper DN and Kehrer-Sawatzki H. (2008). Handbook of Human Molecular Evolution. JohnWiley & Sons, volume-2.
4. Crawford MH (2007). *Anthropological Genetics Theory, Methods and Applications*. Cambridge University Press
5. Cummings M.R. (2011). Human Heredity: Principles and Issues. Ninth Edition. Brooks/Cole,Cengage Learning



B.A./B.Sc. V Semester

Core-2: Anthropology in Practice

Paper Code: AAUETT2/ ASUETT2

Credit- 4

Unit I: Academic Anthropology

Academics and Practitioners: Differences, Structure, Activities, Controversies and Issues: Applied Anthropology, Action Anthropology and Development Anthropology.

Unit II: Role of Anthropology in Development

Anthropology and Public Policy, Need Assessment and Community Development, Anthropology of NGO's, Organizational Anthropology, Environment and Community Health, Social and economic sustainability, Cultural resource management

Unit III: Future Dynamics in Anthropology

Trends in Anthropology: Anthropology of Tourism, Anthropology In Census Designing And Fashion, Visual Anthropology

Unit IV: Constitutional Perspective and Human Rights

Constitutional Provisions, Evaluation, Planning and Development of Indian Populations; Human Rights, Interrelationships of rights and duties: Harmony and Conflict, Protection and enforcement of human rights and duties, National and State Human Rights Commission and other grievance redressal mechanism, Human rights of special category and marginal groups.

Unit V: Biosocial anthropology in practice

Bio-social elements of human development at national and international level, application of conceptual framework of Forensic Anthropology in judicial settings both criminal and civil, Population Dynamics and relationship between population growth and various aspects of culture such as means of subsistence, kinship, social contact

Suggested Readings

1. Arya A and Kapoor AK. (2012). Gender and Health Management in Afro-Indian GlobalVision Publishing House, New Delhi.
2. Kertzer DI and Fricke T. (1997). Anthropological Demography. University of Chicago Press.
3. Basu, A. and P. Aaby (1998). The Methods and the Uses of Anthropological Demography. 329 pp. Oxford, Clarendon Press



B.A./B.Sc. V Semester

Core-2: Practical in Anthropology in Practice

Paper Code: AAUOLT2/ ASUOLT2

Credit- 2

Practical Credit- 2

Unit I: The students will visit a Village/NGO/Urban slum/Corporate office and its adjoining areas and write principal observations on the same.

Unit II: Writing a project on constitutional provisions or evaluation of any development project/report.

Unit III: Write a project on Religious Tourism / Tribal Tourism / Health Tourism / Fashion / Human Rights / Ecotourism.

Unit IV: Write a project on the demographic profile from secondary data.

Unit V: Collect secondary data on any bio-social problem/ census data/NFHS data and give the analysis

Suggested Readings

1. Arya A and Kapoor AK. (2012). Gender and Health Management in Afro-Indian Global Vision Publishing House, New Delhi.
2. Kertzer DI and Fricke T. (1997). Anthropological Demography. University of Chicago Press.
3. Basu, A. and P. Aaby (1998). The Methods and the Uses of Anthropological Demography. 329 pp. Oxford, Clarendon Press
4. Carter A. (1998). Cultural Models and Demographic Behavior. In The Methods and the Uses of Anthropological Demography edited by Basu A and Aaby P. Oxford: Clarendon Press. pp 246-268.



B.A./B.Sc. VI Semester

Core-1: Applied Biological Anthropology

Paper Code: AAUFTT1/ ASUFTT1

Credit- 4

- UNIT-I** Medical Anthropology: Meaning and Scope, Theories of Medical Anthropology: Socio-Cultural perspective, Bio-cultural perspective, Critical Medical Anthropology.
- UNIT-II** Concept and Interpretation of Health, Illness and Disease: Socio-cultural and Bio-medical perspectives, Medical Pluralism and Syncretism, Ethno-medicine, Medical systems in India, Tribal health and ethno medicine.
- UNIT-III** Human nutrition: food, diet, nutrition, and metabolism (definitions only); the basic nutrients—micro-, and macronutrients—their sources and utility;
- UNIT-IV** Nutritional Anthropology: concept and definition. Nutrition policy in India, Child health and nutrition programmes in India.
- UNIT-V** Malnutrition: over- and under-nutrition, malnutrition—their evaluation and general consequences. Nutritional adaptation in man



B.A./B.Sc. VI Semester

Core-1: Practical in Applied Biological Anthropology

Paper Code: AAUFLT1/ ASUFLT1

Credit- 2

Unit I: Techniques of taking basic Somatometric Measurements: Height, Weight, Waist circumference, Hip circumference;

Unit II: Estimation of Body Mass Index (BMI), Waist Hip Ratio (WHR), Waist Height Ratio (WHTR) and classification of obesity.

Unit III: Skinfold Measurement: Bicep, Tricep, Sub-scapular and Supra-iliac skinfold.

Unit IV: Estimation of Adult Body Composition: Percent Body Fat (PBF), Body Mass Abdominal Index (BMAI), Body Adiposity Index (BAI);

Unit V: Subcutaneous Fat; Visceral Fat; Skeletal Muscle Percentage

Suggested Readings

1. Singh I. P. & Bhasin M. K. (1989) A Laboratory Manual on Biological Anthropology. Kamla-Raj Enterprises, Delhi.
2. Mukherjee, D., Mukherjee, D., & Bharati, P. (2009) Laboratory Manual for Biological Anthropology. Asian Book Private Limited, New Delhi.
3. Das B.M. and Deka R. Physical Anthropology Practical. Kitab Mahal, Allahabad, U.P.
4. Ulijaszek S.J., and Mascie-Taylor C.G.N. Anthropometry: the individual and the population.
5. Das, B. M. Outlines of Physical Anthropology. New Delhi.
6. Galton F. (1884) Anthropometric Laboratory. London (Also in J. Anthropol. Inst., (Lond.) 1884, 14, 205).



B.A./B.Sc. VI Semester

Core-2: Indian Anthropology

Paper Code: AAUFTT2/ ASUFTT2

Credit- 4

Unit I:

- Origin, history and development of Anthropology in India, Approaches to study Indian society and culture.
- Racial and linguistic elements in Indian population
- Understanding the diversity of Indian social structure - concept of Varna, Jati, Caste, Ashram or purusharatha, Gender hierarchies - their economic and cultural impact,

Unit II:

- Contribution of contemporary biological, social and archaeological anthropologists in India.

Unit III:

- Aspects of Indian Village –social organisation, agriculture and impact of market economy on villages
- Impact of culture-contact, urbanization and industrialization on tribal and rural population;
- Developmental projects- tribal displacements and rehabilitation problem

Unit IV:

- Basic concepts -Great tradition and little tradition, sacred complex, Universalization and parochialization, Sanskritization and Westernization, Dominant caste, Tribe-caste continuum, Nature-Man-Spirit complex, Pseudotribalism,

Unit V:

- Problems of exploitation and deprivation of scheduled caste/ tribe and Other Backward Classes.
- Constitutional safeguards for the Scheduled caste and scheduled tribes.

Suggested Reading

1. Nicholas D. (2001). Castes of Mind: Colonialism and the Making of Modern India. Princeton University Press.



B.A./B.Sc. VI Semester

Core-2: Practical in Indian Anthropology

Paper Code: AAUFLT2/ ASUFLT2

Credit- 2

- Unit I: Identify various traits/variables which can be used in racial classification and comment on its relevance.
- Unit II: Review a book/edited volume on Indian social structure such as caste,
- Unit III: Religion, tribe or rural population and give its salient features.
- Unit IV: Explore the biological diversity of any population group considering a minimum of five genetic traits
- Unit V: Highlight the contributions of any two contemporary Indian anthropologists.

Suggested Reading

1. Nicholas D. (2001). Castes of Mind: Colonialism and the Making of Modern India. Princeton University Press.
2. Bernard CS. (2000). India: The Social Anthropology of Civilization. Delhi: Oxford University Press.
3. Bhasin MK, Watter H and Danker-Hopfe H. (1994). People of India – An Investigation of Biological variability in Ecological, Ethno-economic and Linguistic Groups. Kamla Raj Enterprises, Delhi
4. Lopez DS. (1995). Religions of India in Practice. Princeton University Press
5. Gupta D. Social Stratification. Delhi: Oxford University Press.



ELECTIVE COURSES

Credits: Any four papers = Theory +Practical = (4+2)*4 = 24

DSE-1: Sports Anthropology

Unit I: Anthropology of sports- Physical fitness, component of physical fitness

Unit II: Physical conditioning, training-techniques and physiological effects, environmental effects on physical performance:

Unit III: Effect of heat stress, cold stress and high altitude on physiological response and performance.

Unit IV: Body composition and Athletes, sports selection and monitoring

Unit V: Human biological variability, health and nutrition; doping and performance; cultural constructions and physiologic implications of food across time, space and society;

Practical in Sports Anthropology

Unit I: Assessment of daily nutrient intake

Unit II: Evaluate nutritional status and physical performance

Unit III: Evaluate nutritional status and physical performance

Unit IV: Evaluate physical performance

Unit V: Demonstrate cultural perspective for preference of specific food of a population

Suggested Readings

1. Stinson S. (1992). Nutritional Adaptation. Annual Review of Anthropology 21:143-170.



DSE-2: Advanced Human Genetics

Unit I:

Structure, Function and Inheritance of the human genome- gene, DNA structure and replication, DNA repair and recombination, gene expression, coding and non-coding region

Unit II:

Expression of genetic information: from Transcription to Translation – the relationship between genes and protein, transcriptions; transcription and RNA processing, encoding genetic information, decoding the codons: the role of transfer RNAs

Unit III:

Genomic Variation: Genomic Polymorphisms (SNPs, VNTR, CNVs, etc); haplotypes and haplogroups; genotype-phenotype correlations, epigenetic

Unit IV: Methods of Genetic Study in Human: Pedigree analysis and expressivity; Chromosomal Basis of Genetic Disorders (Karyotypes and identification of chromosome variation; Nucleic Acid Hybridization Assays, cytogenetic mapping), Genetic mapping (Microsatellite and other DNA polymorphisms), LOD score; sequencing strategies (PCR based Sanger sequencing to Exome sequencing), concept of non-mendelian inheritance and complex diseases

Unit V: Genomic Diversity & Human Evolution

Peopling of the Indian Subcontinent: Evidence from mtDNA and Y-chromosome; evolutionary genetics; Molecular evolution; DNA sequence variation and human origins

Practical in Advanced Human Genetics

Unit I: Blood Collection, transportation and storage in field

Unit II: DNA Extraction from whole blood

Unit III: DNA Quantification, Aliquoting and sample preparation

Unit IV: PCR and electrophoresis

Unit V: Gel Documentation

Suggested Readings:

1. Strachan T and Read AP. (2004). Human Molecular Genetics. Garland Science
2. Brown TA. (2007). Genomes. Garland Science.



DSE-3: Anthropology of Religion, Politics and Economy

Unit I: Anthropological approaches to understand religion- magic, animism, animatism, totemism, naturism; witchcraft and sorcery; Religious specialists: shaman, priests, mystics; Overview of Anthropological Theories of Religion.

Unit II: Economic institutions: principles of production, distribution, and consumption in simple and complex societies; critical examination of relationship between economy and society.

Unit III: Various forms of exchange: barter, trade and market; Forms of currencies; reciprocities: generalized, balanced and negative.

Unit IV: Political institutions: concepts of power and authority; types of authority; state and stateless societies; law and justice in simple and complex societies; the meaning and sources of identity in complex contemporary societies.

Unit V: Interrelationship between religion, politics and economy; caste in Indian Politics.

Practical in Anthropology of Religion, Politics and Economy

Unit I: Case study of any of the social institute (religion, economic, political) with respect to culture perspective

Unit II: preparing a review report on Anthropology of religion

Suggested Readings:

1. Durkheim E. (1986). The elementary forms of the religious life, a study in religious sociology. New York:Macmillan.
2. Benedict A. (2006). Imagined Communities: Reflections on the Origin and Spread of Nationalism. Verso
3. Gledhill J. (2000). Power and Its Disguises: Anthropological Perspectives on Politics. 2nd ed. London: Pluto Press.