

**SCHOOL OF STUDIES OF LIFE SCIENCES**  
**GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)**  
**(A CENTRAL UNIVERSITY)**

**CBCS-NEW, SYLLABUS PROPOSED (W.E.F. SESSION 2022-23)**

**B.A./BSc. THREE YEAR (SEMESTER- I)**

**Anthropology and Tribal Development**

S.NO.	COURSE NO.	SUBJECT	PERIOD			EVALUATION SCHEME			CREDITS
			L	T	P	IA	ESE	SUB-TOTAL	
1	AAUATT1/ ASUATT1	Introduction to Socio-cultural Anthropology	3	1	-	30	70	100	4
2	AAUATT2/ ASUATT2	Introduction to Biological Anthropology	3	1	-	30	70	100	4
3	AAUATG1/ ASUATG1	Basics of Biological Anthropology	3	1	-	30	70	100	4
4	AAUATA1/ ASUATA1	Demographic Anthropology	3	1	-	30	70	100	4
5	AAUATS1/ ASUATS1	Statistical package for social science in Bio-social sciences	2	-	-	30	70	100	2
<b>TOTAL</b>			<b>14</b>	<b>4</b>	<b>-</b>	<b>150</b>	<b>350</b>	<b>500</b>	<b>18</b>
<b>Practical</b>									
1	AAUALT1/ ASUALT1	Practical in Social Anthropology	-	-	2	30	70	100	1
2	AAUALT2/ ASUALT2	Practical in Biological Anthropology	-	-	2	30	70	100	1
3	AAUALG1/ ASUALG1	Practical based on GE-1	-	-	2	30	70	100	1
<b>TOTAL</b>			<b>-</b>	<b>-</b>	<b>6</b>	<b>90</b>	<b>210</b>	<b>300</b>	<b>3</b>
<b>GRAND TOTAL</b>			<b>14</b>	<b>5</b>	<b>6</b>	<b>240</b>	<b>560</b>	<b>800</b>	<b>21</b>

**Total Credits: 19**

**Total Contact Hours: 22**

**Total Marks: 700**

**L: LECTURE, T: TUTORIAL, P: PRACTICAL, IA: INTERNAL ASSESSMENT, ESE: END SEMESTER EXAMINATION \*INTERNAL ASSESSMENT - Two Class Test of 15 Marks each will be conducted.**

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**CBCS-NEW, SYLLABUS PROPOSED (W.E.F. SESSION 2022-23)**

**B.A./BSc. THREE YEAR (SEMESTER- II)**

**Anthropology and Tribal Development**

S.NO.	COURSE NO.	SUBJECT	PERIOD			EVALUATION SCHEME			CREDITS
			L	T	P	IA	ESE	SUB-TOTAL	
1	AAUBTT3/ ASUBTT3	Introduction to Archaeological Anthropology	3	1	-	30	70	100	4
2	AAUBTT4/ ASUBTT4	Fundamentals of Human Origin & Evolution	3	1	-	30	70	100	4
3	AAUBTG2/ ASUBTG2	Social Cultural Anthropology: Theoretical Perspective	3	1	-	30	70	100	4
4	AAUBTA2/ ASUBTA2	Environmental Science	3	-	-	30	70	100	2
5	AAUBTS2/ ASUBTS2	Disaster Management							2
<b>TOTAL</b>			12	3	-	120	280	400	16
<b>Parctical</b>									
1	AAUBLT3/ ASUBLT3	Practical on Archaeological Anthropology	-	-	2	30	70	100	1
2	AAUBLT4/ ASUBLT4	Practical on Human Origin & Evolution	-	-	2	30	70	100	1
3	AAUBLG2/ ASUBLG2	Practical based on GE-2	-	-	2	30	70	100	1
<b>TOTAL</b>			-	-	6	90	210	300	3
<b>GRAND TOTAL</b>			12	3	6	240	490	700	19

**Total Credits: 19**

**Total Contact Hours: 22**

**Total Marks: 700**

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**CBCS-NEW, SYLLABUS PROPOSED (W.E.F. SESSION 2022-23)**

**B.A./BSc. THREE YEAR (SEMESTER- III)**

**Anthropology and Tribal Development**

S.NO.	COURSE NO.	SUBJECT	PERIOD			EVALUATION SCHEME			CREDITS
			L	T	P	IA	ESE	SUB-TOTAL	
1	AAUCTT5/ ASUCTT5	Tribes, Caste and Peasants: Indian Context	3	1	-	30	70	100	4
2	AAUCTT6/ ASUCTT6	Human Ecology	3	1	-	30	70	100	4
3	AAUCTT7/ ASUCTT7	Biological Diversity in Human Populations	3	1	-	30	70	100	4
4	AAUCTG3/ ASUCTG3	Human Biological & Cultural dimensions	3	1	-	30	70	100	4
5	AAUCTA3/ ASUCTA3	Museum Anthropology	2	-	-	30	70	100	2
<b>TOTAL</b>			<b>14</b>	<b>4</b>	<b>-</b>	<b>150</b>	<b>350</b>	<b>500</b>	<b>18</b>
<b>Practicals</b>									
1	AAUCLT5/ ASUCLT5	Practical in Tribes, Caste and Peasants: Indian Context	-	-	2	30	70	100	1
2	AAUCLT6/ ASUCLT6	Practical in Human Ecology	-	-	2	30	70	100	1

<b>3</b>	<b>AAUCLT7/ ASUCLT7</b>	<b>Practical in Biological Diversity in Human Populations</b>	-	-	<b>2</b>	<b>30</b>	<b>70</b>	<b>100</b>	<b>1</b>
<b>4</b>	<b>AAUCLG3/ ASUCLG3</b>	<b>Practical based on GE-3</b>	-	-	<b>2</b>	<b>30</b>	<b>70</b>	<b>100</b>	<b>1</b>
<b>TOTAL</b>			-	-	<b>8</b>	<b>120</b>	<b>280</b>	<b>400</b>	<b>4</b>
<b>GRAND TOTAL</b>			<b>14</b>	<b>4</b>	<b>8</b>	<b>270</b>	<b>630</b>	<b>900</b>	<b>22</b>

**Total Credits: 22**

**Total Contact Hours: 26**

**Total Marks: 900**

**L: LECTURE, T: TUTORIAL, P: PRACTICAL, IA: INTERNAL ASSESSMENT,  
ESE: END SEMESTER EXAMINATION \*INTERNAL ASSESSMENT - Two Class  
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**B.A./BSc. THREE YEAR (SEMESTER- IV)**

**Anthropology and Tribal Development**

S.NO.	COURSE NO.	SUBJECT	PERIOD			EVALUATION SCHEME			CREDITS
			L	T	P	IA	ESE	SUB-TOTAL	
1	AAUDTT8/ ASUDTT8	Theories of Culture and Society	3	1	-	30	70	100	4
2	AAUDTT9/ ASUDTT9	Human Growth and Development	3	1	-	30	70	100	4
3	AAUDTT10/ ASUDTT10	Research Methods	3	1	-	30	70	100	4
4	AAUDTG4/ ASUDTG4	Research Methodology	3	1	-	30	70	100	4
5	AAUDTA4/ ASUDTA4	Tourism Anthropology	2	-	-	30	70	100	2
<b>TOTAL</b>			<b>14</b>	<b>4</b>	<b>-</b>	<b>150</b>	<b>350</b>	<b>500</b>	<b>18</b>
<b>Parcticals</b>									
1	AAUDLT8/ ASUDLT8	Practical on Culture and Society	-	-	2	30	70	100	1
2	AAUDLT9/ ASUDLT9	Practical on Human Growth and Development	-	-	2	30	70	100	1
3	AAUDLT10/ ASUDLT10	Practical in Research Methods	-	-	2	30	70	100	1
4	AAUDLG4/ ASUDLG4	Practical Based on GE-4			2	30	70	100	1
<b>TOTAL</b>			<b>-</b>	<b>-</b>	<b>8</b>	<b>120</b>	<b>280</b>	<b>400</b>	<b>4</b>
<b>GRAND TOTAL</b>			<b>14</b>	<b>4</b>	<b>8</b>	<b>270</b>	<b>630</b>	<b>900</b>	<b>22</b>

Total Credits: 22

Total Contact Hours: 26

Total Marks: 900

L: LECTURE, T: TUTORIAL, P: PRACTICAL, IA: INTERNAL ASSESSMENT, ESE: END SEMESTER EXAMINATION \*INTERNAL ASSESSMENT - Two Class Test of 15 Marks each will be conducted.

**SCHOOL OF STUDIES OF LIFE SCIENCES**

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**CBCS-NEW, SYLLABUS PROPOSED (W.E.F. SESSION 2022-23)**

**B.A./BSc. THREE YEAR (SEMESTER- V)**

**Anthropology and Tribal Development**

S.NO.	COURSE NO.	SUBJECT	PERIOD			EVALUATION SCHEME			CREDITS
			L	T	P	IA	ESE	SUB-TOTAL	
1	AAUETT11/ ASUETT11	Human Genetics	3	1	-	30	70	100	4
2	AAUETT12/ ASUETT12	Anthropology in Practice	3	1	-	30	70	100	4
3	AAUETD1/ ASUETD1	To be chosen from available DSE papers*	3	1	-	30	70	100	4
4	AAUETD2/ ASUETD2	To be chosen from available DSE papers*	3	-	-	30	70	100	4
TOTAL			12	3	-	120	280	400	16
<b>Practicals</b>									
1	AAUEL11/ ASUEL11	Practical on Human Genetics	-	-	2	30	70	100	1
2	AAUEL12/ ASUEL12	Practical on Anthropology in Practice	-	-	2	30	70	100	1
3	AAUELD1/ ASUELD1	Practical based on DSE-1	-	-	2	30	70	100	1
4	AAUDLD2/ ASUDLD2	Practical based on DSE-2	-	-	2	30	70	100	1

<b>TOTAL</b>	-	-	8	120	280	400	4
<b>GRAND TOTAL</b>	12	3	8	240	560	800	20

**Total Credits: 20**

**Total Contact Hours: 23**

**Total Marks: 800**

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**B.A./BSc. THREE YEAR (SEMESTER- VI)**

**Anthropology and Tribal Development**

S.NO	COURSE NO.	SUBJECT	PERIOD			EVALUATION SCHEME			CREDIT S
			L	T	P	IA	ESE	SUB-TOTAL	
1	AAUFTT13 / ASUFTT13	Applied Biological Anthropology	3	1	-	30	70	100	4
2	AAUFTT14 / ASUFTT14	Indian Anthropology	3	1	-	30	70	100	4
3	AAUFTD3/ ASUFTD3	To be chosen from available DSE papers*	3	1	-	30	70	100	4
4	AAUFLF1/ ASUFLF1	Will be decided by HOD in consultation with other faculties	3	-	-	30	70	100	6
		<b>TOTAL</b>	12	3	-	120	280	400	18
<b>Practicals</b>									
1	AAUFLT13 / ASUFLT13	Practical on Applied Biological Anthropology	-	-	2	30	70	100	1

		<b>y</b>							
<b>2</b>	<b>AAUFLT14 / ASUFLT14</b>	<b>Practical on Indian Anthropology</b>	-	-	<b>2</b>	<b>30</b>	<b>70</b>	<b>100</b>	<b>1</b>
<b>3</b>	<b>AAUFLD3/ ASUFLD3</b>	<b>Practical based on DSE-3</b>	-	-	<b>2</b>	<b>30</b>	<b>70</b>	<b>100</b>	<b>1</b>
		<b>TOTAL</b>	-	-	<b>8</b>	<b>120</b>	<b>280</b>	<b>400</b>	<b>3</b>
		<b>GRAND TOTAL</b>	<b>12</b>	<b>3</b>	<b>8</b>	<b>240</b>	<b>560</b>	<b>800</b>	<b>18+3 (SI*)</b>

Where; SI\*= Summer Internship

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ESE: END SEMESTER EXAMINATION \*INTERNAL ASSESSMENT - Two Class  
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**B.A./B.Sc THREE YEAR**

**Anthropology and Tribal Development**

**Programme Outcomes: Graduates will be able to:**

PO1: 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;

PO2: 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;

PO3: A skilful group of students with different specialisations of Anthropology and emerging developments in the field of Anthropology will be available in the market.

PO4: 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.

PO5: All the stakeholders including the students will recognise the importance of qualitative as well as quantitative data and approaches/methods in comprehending the human society.

PO6: Students will plan and execute Anthropology-related experiments or field investigations, analyse 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.

PO7: The students will demonstrate relevant generic skills and global competencies such as:

PO8: Students will possess problem solving skills that are required to solve different types of Anthropology-related problems with well-defined solutions, and tackle open-ended problems that may cross disciplinary-area boundaries;

PO9: Students will be competent enough in investigating skills, related to Anthropology-related issues and problems;

PO10: 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;

PO11: Analytical skills of the students will be increased and ability to construct logical arguments using correct technical language related to Anthropology;

PO12: Personal skills ability of the students will be increased to work both independently and in a group.

**Programme Specific Outcomes:**

- 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) Demonstrate varying types of ethnographic data are collected, analyzed, synthesized and interpreted to achieve the goals.
  - (iii) Communicate anthropological knowledge effectively through written, oral and data collection and presentation, varying formats for diverse audiences.
  - (iv) And will appreciate the intellectual, environmental and sustainability issues; and
  - (v) Students will apply research skills- Field-work, Ethnography, comparative methods of Data collection, data analysis and interpretation.

**B.A./B.Sc. I<sup>st</sup> Semester**  
**AAUATT1/ ASUATT1: Introduction to Social - Cultural Anthropology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUATT1/ ASUATT1	3	1	-	4 hours	30	70	100	4

**Objectives of the course**

- ❖ To provide brief concept, meaning and definitions of anthropology and detailed about social-cultural anthropology.
- ❖ To briefly introduce the concept of social institution and render basic knowledge about various social institutions like of family, kinship and marriage etc.
- ❖ To enhance the basic knowledge of the scope of social cultural anthropology and improve the ideas about development and significance of relationship with other disciplines in anthropology.

**Syllabus Contents**

- Unit I:** Social and Cultural Anthropology: meaning, scope and development of social and cultural anthropology; Relationship with other social sciences.
- Unit II:** Basic Concepts in Cultural Anthropology: Concept of culture, characteristics of culture; Attributes of culture: culture trait, culture complex, cultural area; age-area hypothesis.
- Unit III:** Basic Concepts in Social Anthropology: Social group: Primary and secondary Group; Social structure and social organization; Culture and Civilization; social stratification.
- Unit IV:** Social Institutions: Family – Definition, characteristics, typology, functions, changes in the concept; Marriage – Definition, typology of marriage, ways of acquiring mates, bride price and dowry; Kinship: definition; Types of kinship terms: classificatory and descriptive, Kinship Behaviour – Joking and avoidance relationship.
- Unit V:** Economic Organization: Concept and scope, characteristics of primitive and peasant economy; Religion, Magic and Science: Concept and meaning of primitive religion: Animism & Animatism, Manaism, Magic – Types, Sorcery, Witchcraft, Shamanism, Taboo; Political Organization: Types – Band, tribe, chiefdom, state.

**Suggested Readings**

1. Davis, Kingsley. (1949). Human Society. New York: Macmillan Co.
2. Metcalf, Peter. (2005). Anthropology: the Basics. Abingdon [England]: Routledge.
3. Barnard, Alan. (2000). History and Theory in Anthropology. Cambridge, U.K.: Cambridge University Press.

4. Nadel, S. F. (1951). The Foundations of Social Anthropology. Glencoe, III: Free Press.
5. Harris, C. C. 1990. Kinship Concepts in Social Thought. Minneapolis: University of Minnesota Press.
6. Levi-Strauss, Claude. 1969. The elementary structures of kinship. Boston: Beacon Press.
7. Goody, Jack, and Meyer Fortes. 1973. The Character of kinship. Cambridge [Eng.]: University Press.
8. Trautmann, Thomas R. 1981. Dravidian Kinship. Cambridge studies in social anthropology. Cambridge: Cambridge University Press.
9. Radcliffe-Brown, A. R., and Cyril Daryll Forde. 1950. African systems of kinship and marriage. London: Published for the International African Institute by the Oxford University Press.
10. Farber, Bernard. 1966. Kinship and family organization. New York: Wiley.
11. Barnes, J. A. 1971. Three styles in the study of kinship. Berkeley: University of California Press.
12. Karve, Irawati. 1968. Kinship organization in India. London: Asia Publication House.

### Course outcome

- ❖ The course is really very interesting, very simple and easy to create comfortable environment to under graduate students
- ❖ It will boost the basic knowledge of anthropology
- ❖ This paper will also disseminate the knowledge of social- cultural anthropology
- ❖ The under graduate students will be gained more about the fundamental knowledge of various social institutions

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

- ❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. I<sup>st</sup> Semester**  
**AAUATT2/ ASUATT2: Introduction to Biological Anthropology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUATT2/ ASUATT2</b>	3	1	-	4 hours	30	70	100	4

**Course Objectives**

**This course is designed:**

- To introduce the students to the basic concept, meaning, scope and major divisions of Biological Anthropology.
- To explain how human being acts as the central figure of Anthropology .
- This paper is also intended to acquaint the students with some of the significant issues like evolution of man and evidences of evolution.
- To provide the basic concept of human genetics, human growth and human variation.
- To represent the differences between man and other animals and to justify the systematic position of man in animal kingdom.
- To describe the history behind the emergence of the concept of race, basis of classifying world population and how the concept of race changed in course of time?

**Syllabus Contents**

- Unit I:** Meaning and scope of anthropology, branches of anthropology; History and subject matter of physical/biological Anthropology; Relationship of physical/biological anthropology with other disciplines: medical and health sciences, life sciences, earth sciences, and environmental sciences.
- Unit II:** Fundamentals of physical/biological anthropology: a. Human Evolution; b. Human Variation; c. Human Genetics; d. Human Growth and Development
- Unit III:** Theories of organic evolution (Lamarckian, Darwinian, and Synthetic).
- Unit IV:** Position of man in animal kingdom: living primates, distribution, characteristics, phylogeny, classification; comparative anatomy of man and apes; Primate Behaviour.
- Unit V:** Concept of race, genetic basis of race, UNESCO Statement on Race; ethnic group, racial classification of human populations (H.H Risley and B.S Guha's classification)

## Suggested Readings:

1. Craig Stanford, John S. Allen and Susan C. Anton (2008) *Biological Anthropology* (2nd Edition).
2. John Buettner-Janusch (1969) *Origins of Man*. Wiley Eastern Pvt Ltd
3. E. L. Simon (1972) *Primate Evolution: An Introduction to Man's Place in Nature*. New York, MacMillan.
4. Craig Stanford, John S. Allen and Susan C. Anton (2009) *Exploring Biological Anthropology: The Essentials*, Prentice Hall.
5. Michael Park (2007) *Biological Anthropology: An Introductory Reader*, McGraw Hill.
- 7 P. K. Seth & S Seth (1986) *Perspectives in Primate Biology*. New Delhi, Today & Tomorrow Printers.
8. John G. Fleagle (1999) *Primate Adaptation and Evolution*. Elsevier.
- 9 E.A. Hooton (1947) *Up from the Ape*. New York, MacMillan.
- 10 M. F. Ashley Montague (1977) *UNESCO Statement on Race*. New York, Academic Press.
11. G.A.Harrison et al. (1988) *Human Biology*. Oxford, Oxford University Press.

## Course Outcomes

### The students will be able to

- Understand about the subject matter of Biological Anthropology
- Find out the relationship of biological anthropology with other disciplines.
- Use an understanding of biology, genetics, and fossil evidence to examine the process of human biological and cultural evolution over time.
- Describe the basic differences between human and other primates and also to justify the position of man in animal kingdom.
- Understand about the historical and contemporary issues such as race.

## Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. I<sup>st</sup> Semester**  
**AAUATG1/ ASUATG1: Basics of Biological Anthropology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUATG1/ ASUATG1</b>	3	1	-	4 hours	30	70	100	4

### **Course Objectives**

This paper is designed for the students of other departments to provide them basic and key understandings of biological anthropology.

### **This course is designed:**

- To introduce the students to the basic concept, meaning, scope and major divisions of Biological Anthropology.
- To explain how human being acts as the central figure of Anthropology .
- This paper is also intended to acquaint the students with some of the significant issues like evolution of man and evidences of evolution.
- To provide the basic concept of human genetics, human growth and human variation.
- To represent the differences between man and other animals and to justify the systematic position of man in animal kingdom.
- To describe the history behind the emergence of the concept of race, basis of classifying world population and how the concept of race changed in course of time?

### **Syllabus Contents**

**UNIT-I:** Basic Concepts; Scope, Development of Biological Anthropology

**UNIT-II:** Theories of Evolution- Lamarckism, Neo-Lamarckism, Darwinism, Synthetic theories, Mutation and Neo-Mutation theory

**UNIT-III:** Concept of Human Growth and Development, Evolutionary perspective on human growth (Living primate & fossil human ancestors) influencing pattern of growth & narratives method & techniques to study growth & significance

**UNIT-IV:** Bio-cultural factors (Genetic, social and ecological) influencing patterns of growth and variations methods and techniques to study growth & significance

**UNIT-V:** Bio-cultural adaptation and environmental stress-heat, cold and attitude. Homeostatic and thermo regulation, ecological rules and their applicability among their human beings.

## Suggested Reading

1. Craig Stanford, John S. Allen and Susan C. Anton (2008) Biological Anthropology (2nd Edition).
2. John Buettner-Janusch (1969) Origins of Man. Wiley Eastern Pvt Ltd
3. E. L. Simon (1972) Primate Evolution: An Introduction to Man's Place in Nature. New York, MacMillan.
4. Craig Stanford, John S. Allen and Susan C. Anton (2009) Exploring Biological Anthropology: The Essentials, Prentice Hall.
5. Michael Park (2007) Biological Anthropology: An Introductory. Reader, McGraw Hill.
- 7 P. K. Seth & S Seth (1986) Perspectives in Primate Biology. New Delhi, Today & Tomorrow Printers.
8. John G. Fleagle (1999) Primate Adaptation and Evolution. Elsevier.
- 9 E.A. Hooton (1947) Up from the Ape. New York, MacMillan.
- 10 M. F. Ashley Montague (1977) *UNESCO Statement on Race*. New York, Academic Press.
11. G.A.Harrison et al. (1988) Human Biology. Oxford, Oxford University Press.

## Course Outcomes

### The students will be able to

- Understand about the subject matter of Biological Anthropology
- Find out the relationship of biological anthropology with other disciplines.
- Use an understanding of biology, genetics, and fossil evidence to examine the process of human biological and cultural evolution over time.
- Describe the basic differences between human and other primates and also to justify the position of man in animal kingdom.
- Understand about the historical and contemporary issues such as race.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly



**B.A./B.Sc. I<sup>st</sup> Semester**  
**AAUATA1/ ASUATA1: Demographic Anthropology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUATA1/ ASUATA1</b>	3	1	-	4 hours	30	70	100	4

**Course Objectives**

- The students will acquire knowledge about demographic anthropology and its importance in anthropology.
- They will learn about major theories of population.

**Syllabus Contents**

**Unit I:** Demographic Anthropology

1. Introduction, definition and basic concepts
2. Relationship between demography, population studies and anthropology

**Unit II:** Population Theories

1. John Graunt; 2. Thomas R. Malthus; 3. Biological theory of population

**Unit III:** Tools of Demographic Data:

Measures of population composition, distribution and growth

**Unit IV:** Population of India: Sources of demographic data in India

**Unit V:** National policies

**Suggested Readings**

1. Bhende A. and Kaniikar, T. (2006) *Principles of Population Studies*. Himalaya Publishing House. Mumbai (All Units, It covers most topics)
2. Caldwell J.C. (2006). *Demographic Transition Theory*. Springer.
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. (2010) *Population Ecology and Family Planning*. Serials publications. New Delhi.
5. Howell N. (1986) Demographic Anthropology. Ann. Rev. Anthropol. 15: 219-246
6. Kshatriya G.K. (2000). Ecology and health with special reference to Indian tribes. *Human Ecology special volume 9:229-245*.
7. Kshatriya G.K., Rajesh,G. and Kapoor , A.K. (2010) Population Characteristics of Desert Ecology.VDM Verlag Dr. Muller Gmbh and Co., Germany.
8. Misra BD (1982). *An introduction to the study of population*. South Asia publ. ltd. NewDelhi.
9. National Population Policy <http://populationcommission.nic.in/npp.htm>
10. Park K. (2000) *Text book of Preventive and Social Medicine*. Banarsidas Bhanot, Jabalpur.
11. Patra P.K. and Kapoor, A.K. (2009) *Demography And Development Dynamics in a Primitive Tribe of Himalayas*. International Book Distributors, Dehradun
12. Riley N.E. and Mc Carthy, J. (2003) *Demography in the Age of the Postmodern*. Cambridge University press. UK. Pages 1-13 and 32-98

## Course Outcomes

- They will also learn about the measurement of health index
- They will also analyze various sources of data in population studies

## Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. I<sup>st</sup> Semester

### AAUATS1/ ASUATS1: Statistical package for social science in Bio-social sciences

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUATS1/ ASUATS1	2	-	-	2 hours	30	70	100	2

#### Course Objectives

- The course is designed to provide the basic concept of SPSS software.
- To study the types of variables, data presentation & summarization.
- To understand descriptive statistics & solving statistical problems.

#### Syllabus Contents

Unit I: Descriptive statistics: Types of variables

Unit II: Measures of Central Tendency,

Unit III: Measures of dispersion

Unit IV: Frequency Distribution: Histogram, Bar graph, Pie Chart, Polygraph

Unit V: Test of Inference

#### Suggested Readings

1. B.L. Agarwal. Basic Statistics. New Age International Publishers. Fourth Edition, 2006.
2. Fox and Alan. Elementary Statistics in Social Research. Gian Publishing House,
3. Sunder Rao, P.S.S. et al. An introduction to Biostatistics & Research Method. New Arrivals-PHI
4. Wackerly Dennis D, Mendelhall III, Wiliam et al. Mathematical Statistics with application Duxbury Press, Pacific Grove.
5. Gaur AS, Gaur SS. Statistical Methods for Practice and Research. A guide to data analysing using SPSS. SAGE Response, New Delhi, India, 2009.
6. Sunder Rao, P.S.S. et al. An introduction to Bio-statistics & Research Method. New Arrivals-PHI.
7. Conover W.J. Practical Nonparametric Statistics. Third Edition. Wiley India (P) Ltd. Ansari Road, Daryaganj, New Delhi. 1999.

#### Course Outcomes

- Understand different variables, summarization & presentation of data.
- Understand textual, tabular & graphical illustration of data.
- Students will be able to use the knowledge in solving statistical problems
- Meaningful research inferences and conclusion can be drawn by students.

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. I<sup>st</sup> Semester**  
**AAUALT1/ ASUALT1: Practical in Social Anthropology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUALT1/ ASUALT1</b>	-	-	2	4 hours	30	70	100	4

**Course Objectives**

- ❖ To provide conceptual understanding of methods and techniques of socio-cultural anthropology to the under graduate students.
- ❖ To enhance the practical knowledge of anthropology and boost theoretical knowledge of method and technique and also introduce various tools and techniques of field work methods in anthropology.

**Syllabus Contents**

Techniques and methods in collection of data in Social Anthropology

1. Introduction to the Anthropology Methods: Why anthropology is important for social research
2. Observation
3. Interview
4. Questionnaire and Schedule
5. Case study & Life history

**Suggested Readings:**

1. Bernard H.R. (1940). Research Methods in Cultural Anthropology. Newbury Park: Sage Publications.
2. Karen O'Reilly. (2012). 'Practical Issues in Interviewing', Ethnographic Methods. Abingdon: Routledge.
3. Goode and Hatt (1952). Methods in Social Research, Mac-Graw Hill
3. O'reilly K. (2012). Ethnographic Methods. Abingdon: Routledge.
4. Royal Anthropological Institute of Great Britain and Ireland (1971). Methods", In Notes and Queries on Anthropology. London: Routledge & Kegan Paul Ltd.

**Course outcome**

- ❖ This paper will create a comfortable and friendly atmosphere to the under graduate students to enhance their knowledge of various tools and techniques of field work method.

- ❖ The under graduate students will be gained the basics of the practical knowledge and they will be grasped detailed about the society and culture for an ethnographic writing.

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

- ❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. I<sup>st</sup> Semester**  
**AAUALT2/ ASUALT2: Practical in Biological Anthropology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUALT2/ ASUALT2	-	-	2	4 hours	30	70	100	4

### **Course Objectives**

- This paper attempts to provide knowledge about the importance of craniometric measurements in the course of evolution & human variation

### **Syllabus Contents**

#### **Somatometry**

1. Maximum head length
2. Physiognomic facial height
3. Maximum head breadth
4. Morphological facial height
5. Minimum frontal breadth
6. Physiognomic upper facial height
7. Maximum bizygomatic breadth
8. Morphological upper facial height
9. Bigonial breadth
10. Head circumference
11. Nasal height
12. Stature
13. Nasal length
14. Sitting height
15. Nasal breadth
16. Body weight

#### **Somatoscopy**

1. Head form
2. Hair form
3. Facial form
4. Eye form
5. Nose form
6. Hair colour
7. Eye colour
8. Skin colour

#### **Suggested Readings**

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

6. Galton F. (1884) Anthropometric Laboratory. London (Also in J. Anthropol. Inst., (Lond.) 1884, 14, 205).

**Course Outcomes**

- The components of the Practical paper will help students to understand how craniometric measurements and derived indices are useful in studying evolutionary changes in modern humans.

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly



## B.A./B.Sc. I<sup>st</sup> Semester

### AAUALG1/ ASUALG1: Practical in Biological Basics of Biological Anthropology

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUALG1/ ASUALG1	-	-	2	4 hours	30	70	100	4

#### Course Objectives

- This paper attempts to provide knowledge about the importance of craniometric measurements in the course of evolution & human variation

#### Syllabus Contents

##### Somatometry

1. Maximum head length
2. Physiognomic facial height
3. Maximum head breadth
4. Morphological facial height
5. Minimum frontal breadth
6. Physiognomic upper facial height
7. Maximum bizygomatic breadth
8. Morphological upper facial height
9. Bigonial breadth
10. Head circumference
11. Nasal height
12. Stature
13. Nasal length
14. Sitting height
15. Nasal breadth
16. Body weight

##### Suggested Readings

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

##### Course Outcomes

- The components of the Practical paper will help students to understand how

craniometric measurements and derived indices are useful in studying evolutionary changes in modern humans.

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. II<sup>nd</sup> Semester**  
**AAUBTT3/ ASUBTT3: Introduction to Archaeological Anthropology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUBTT3/ ASUBTT3</b>	3	1	-	4 hours	30	70	100	4

### **Objectives of the Course**

- ❖ To provide the basic conceptual understanding, meaning and definition of the archaeological anthropology.
- ❖ To provide a basic knowledge about dating method, particularly emphasized to the relative dating methods in archaeology.
- ❖ To provide basic knowledge about the Geological Time Scale, technique of tool manufacturing methods and enhance the knowledge of typology.

### **Syllabus Contents**

#### **Unit I: Introduction**

- Definition and scope of archaeological anthropology.
- Relationship with other disciplines.
- Methods of studying archaeological anthropology

#### **Unit II: Methods of Estimation of Time and Reconstruction of the Past**

- Absolute dating methods (c<sup>14</sup>)
- Relative dating methods (Stratigraphy)
- Methods of climatic reconstruction: paleontology,

#### **Unit III: Geochronology of Pleistocene Epoch**

- Detailed Structure of Geological Time Scale
- Glacial and Interglacial periods
- Pluviation and Inter Pluviation periods

#### **Unit IV: Understanding Culture**

- Technique of tool manufacture
- Classification of lithic tools and typology
- Cultural periods of tool typology

#### **Unit V: Evidence of Prehistoric Culture: Europe and India**

Character, distribution and interpretation of habitat and economy of:

- i Lower palaeolithic;
- ii Middle palaeolithic;
- iii Upper palaeolithic;
- iv Mesolithic culture;

v. Neolithic culture

**Suggested Readings**

1. Allchin and Allchin (1993). *The Rise of Civilization of India and Pakistan*. Cambridge University Press
2. Bhattacharya D.K. (1978). *Emergence of Culture in Europe*, Delhi, B.R. Publication.
3. Bhattacharya D.K. (1979). *Old Stone Age Tools and Techniques*. Calcutta, K.P. Bagchi Company
4. Bhattacharya D.K. (1996). *Palaeolithic Europe*. Netherlands, Humanities Press.
5. Champion et al. (1984). *Prehistoric Europe*. New York, Academic Press.
6. Fagan B.M. (1983). *People of Earth: An Introduction*. Boston, Little, Brown & Company.
7. Phillipson D. W. (2005). *African Archaeology*. Cambridge, Cambridge University Press.
8. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College
9. K.P. Oakley; 1965: Man the tool-maker, Trustees of the British Museum (Natural History), London.

**Course outcome**

- ❖ This subject will be ensured and stimulated the basic understanding of archaeological anthropology and will also make aware about the academic prospective of this subject.
- ❖ The subject will boost the knowledge of the present and past culture of human being and about the civilization.

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

- ❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. II<sup>nd</sup> Semester

### AAUBLT3/ ASUBLT3: Practical in Archaeological Anthropology

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUBLT3/ ASUBLT3	-	-	2	4 hours	30	70	100	4

#### Objectives of the Course

- ❖ To provide the basic knowledge of practical in archaeology and also provide to enhance and spread the knowledge of various tools and typology.
- ❖ To strengthen the knowledge of various tool manufacturing methods and different techniques.
- ❖ To provide fundamental knowledge of various tool types such as core, flake and blade tools.

#### Syllabus Contents

Typo-technological Analysis of Prehistoric Tools: Identification, Interpretation and Drawings of the tool Types

1. Palaeolithic tool types
  - a. Core Tool Type
  - b. Flake Tool Type
2. Neolithic Tool Type

#### **Suggested Readings**

1. Allchin and Allchin (1993). *The Rise of Civilization of India and Pakistan*. Cambridge University Press
2. Bhattacharya D.K. (1978). *Emergence of Culture in Europe*, Delhi, B.R. Publication.
3. Bhattacharya D.K. (1979). *Old Stone Age Tools and Techniques*. Calcutta, K.P. Bagchi Company
4. Bhattacharya D.K. (1996). *Palaeolithic Europe*. Netherlands, Humanities Press.
5. Champion et al. (1984). *Prehistoric Europe*. New York, Academic Press.
6. Fagan B.M. (1983). *People of Earth: An Introduction*. Boston, Little, Brown & Company.
7. Phillipson D. W. (2005). *African Archaeology*. Cambridge, Cambridge University Press.
8. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College

### Course outcome

- ❖ This paper will be provided a general conceptual understanding of archaeology and it will be made understood of various tools and techniques of tool manufacturing hence it will be enabled to identify the different types of tools.
- ❖ This paper is basically designed for the under graduate students, they will be taught various techniques of tool manufacturing and will also make practice to draw different tools

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

- ❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. II<sup>nd</sup> Semester**  
**AAUBTT4/ ASUBTT4: Fundamentals of Human Origin & Evolution**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUBTT4/ ASUBTT4</b>	3	1	-	4 hours	30	70	100	4

**Objective of the Course**

- This course is designed to make the students to understand primate evolution, distribution and phylogenetic relationships of Parapithecus, Ramapithecus, Dryopithecus, Sivapithecus, & Australopithecus.
- To study the appearance of genus Homo & related finds.
- To learn about the origin of Homo sapiens, fossil evidences of Neanderthals and Archaic Homo sapiens.
- To study the origin of anatomical modern humans, their distribution, characteristic features & hominization process.

**Syllabus Contents**

Unit I: Primate evolution; Parapithecus, Ramapithecus, Dryopithecus, Sivapithecus and their distribution, features with their phylogenetic relationships

Unit II: Australopithecines: distribution, features and their phylogenetic relationships. Appearance of genus Homo (Homo habilis) and related finds.

Unit III: The origin of Homo sapiens: Fossil evidences of Neanderthals and Archaic Homo sapiens

Unit IV: Origin of anatomically modern humans (Homo sapiens sapiens): Distribution and features

Unit V: Hominization process, Biology and culture Co-evolution

**Suggested Readings**

- Buettner- Janusch, J. (1966). *Origins of Man: Physical Anthropology*. John Wiley & Sons, Inc., New York, London, Sydney.
- Conroy, G.C. (1997). *Reconstructing Human Origins: A Modern Synthesis*. W. W. Norton & Company, New York, London.
- Howell F.C. (1977). *Horizons of Anthropology*. Eds. S. Tax and L.G. Freeman, Aldine Publishing House, Chicago.

- Nystrom P. and Ashmore P. (2011). The Life of Primates. PHI Learning Private Limited, New Delhi.
- Seth P. K. and Seth S. (1986). the Primates. Northern Book Centre, New Delhi, Allahabad.
- Singh I. P. and Bhasin M.K. (1989). Anthropometry: A Laboratory Manual on Biological Anthropology. Kamla-Raj Enterprises, Chawri Bazar, Delhi.
- Standford C.; Allen J.S. and Anton S.C. (2012). Biological Anthropology: The Natural History of Mankind. PHI Learning Private Limited, New Delhi.
- Swindler D. R. (2009). Introduction to the Primates. Overseas Press India Pvt. Ltd., New Delhi.
- Day, Michael (1986) Guide to Fossil Man. University of Chicago Press.

### Course Outcomes

#### The students will have a

- Comprehensive understanding of primate evolution, their distribution pattern, characteristic features and phylogenetic relationships.
- Basic understanding about the origin of genus Homo, Origin of Homo sapiens, Neanderthals & Archaic Homo sapiens.
- Understanding on the origin of anatomically modern humans, distribution, their characteristic features & hominization process.

#### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly



## B.A./B.Sc. II<sup>nd</sup> Semester

### AAUBLT4/ ASUBLT4: Practical on Human Origin & Evolution

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUBLT4/ ASUBLT4	-	-	2	4 hours	30	70	100	4

#### Course Objectives

- The main objective of this course is to study different sizes and shapes of human skulls.
- To study landmarks on the human skull from which craniometric measurements can be taken and indices can be assessed.

#### Syllabus Contents

Craniometry  
Maximum cranial length  
Maximum cranial breadth  
Maximum bizygomatic breadth  
Maximum frontal breadth  
Minimum frontal breadth  
Nasal height  
Nasal breadth  
Bi-mastoid breadth  
Greatest occipital breadth  
Upper facial height  
Cranial index  
Nasal index

#### Suggested Readings

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

#### Course Outcomes

Students will be able to measure human skulls systematically.

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. II<sup>nd</sup> Semester

### AAUBTG2/ ASUBTG2: Social Cultural Anthropology: Theoretical Perspective

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUBTG2/ ASUBTG2</b>	3	1	-	4 hours	30	70	100	4

#### Course Objectives

- ❖ To provide basic concept of socio-cultural anthropology and explain the scope and different branches of social anthropology.
- ❖ To provide knowledge about the social institutions such as marriage, family, economic system, caste system and varna system in India.
- ❖ To enhance the knowledge about theories of society and culture such as evolutionism, diffusionism, functionalism and structural-functionalism.

#### Syllabus Contents

**Unit-I:** Basic concepts: Scope, Development of Socio-Cultural Anthropology, Branches of Social Anthropology, Relationship with other Social Sciences.

**Unit-II:** Social Institutions- Family, Marriage, Economic system, caste system, Varna system

**Unit-III:** Theories of society and culture; Evolutionism and Diffusionism

**Unit-IV:** Functionalism,

**Unit-V:** Structural-Functionalism

#### Suggested Readings

1. Davis, Kingsley.(1949). Human Society. New York: Macmillan Co.
2. Metcalf, Peter. (2005). Anthropology: the Basics. Abingdon [England]: Routledge.
3. Barnard, Alan. (2000). History and Theory in Anthropology. Cambridge, U.K.: Cambridge University Press.
4. Nadel, S. F. (1951). The Foundations of Social Anthropology. Glencoe, III: Free Press.
5. Harris, C. C. 1990. Kinship Concepts in Social Thought. Minneapolis: University of Minnesota Press.
6. Levi-Strauss, Claude. 1969. The elementary structures of kinship. Boston: Beacon Press.
7. Goody, Jack, and Meyer Fortes. 1973. The Character of kinship. Cambridge [Eng.]: University Press.

8. Trautmann, Thomas R. 1981. Dravidian Kinship. Cambridge studies in social anthropology. Cambridge: Cambridge University Press.
9. Radcliffe-Brown, A. R., and Cyril Daryll Forde. 1950. African systems of kinship and marriage. London: Published for the International African Institute by the Oxford University Press.
10. Farber, Bernard. 1966. Kinship and family organization. New York: Wiley.
11. Barnes, J. A. 1971. Three styles in the study of kinship. Berkeley: University of California Press.
12. Karve, Irawati. 1968. Kinship organization in India. London: Asia Publication House

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. II<sup>nd</sup> Semester

### AAUBLG2/ ASUBLG2: Practical in Social Cultural Anthropology: Theoretical Perspective

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUBLT4/ ASUBLT4	-	-	2	4 hours	30	70	100	2

#### Course Objective

- ❖ This paper will be very help full to increase the knowledge of ethnographic writing in anthropology and will provide platform to enhance various dimension of the filed work methods and techniques of the filed work study.
- ❖ This paper will be strengthening the practical knowledge of field work in anthropology by providing various methods and techniques.

#### Syllabus

- Methods and Techniques of Social Anthropology
- Observation
- Interview
- Questionnaire and schedule
- Hypothesis meaning, type and use
- Data collection and analysis

#### Suggested Readings

1. Davis, Kingsley.(1949). Human Society. New York: Macmillan Co.
2. Metcalf, Peter. (2005). Anthropology: the Basics. Abingdon [England]: Routledge.
3. Barnard, Alan. (2000). History and Theory in Anthropology. Cambridge, U.K.: Cambridge University Press.
4. Nadel, S. F. (1951). The Foundations of Social Anthropology. Glencoe, III: Free Press.
5. Harris, C. C. 1990. Kinship Concepts in Social Thought. Minneapolis: University of Minnesota Press.
6. Levi-Strauss, Claude. 1969. The elementary structures of kinship. Boston: Beacon Press.
7. Goody, Jack, and Meyer Fortes. 1973. The Character of kinship. Cambridge [Eng.]: University Press.
8. Trautmann, Thomas R. 1981. Dravidian Kinship. Cambridge studies in social anthropology. Cambridge: Cambridge University Press.
9. Radcliffe-Brown, A. R., and Cyril Daryll Forde. 1950. African systems of kinship and marriage. London: Published for the International African Institute by the Oxford University Press.
10. Farber, Bernard. 1966. Kinship and family organization. New York: Wiley.

11. Barnes, J. A. 1971. Three styles in the study of kinship. Berkeley: University of California Press.
12. Karve, Irawati. 1968. Kinship organization in India. London: Asia Publication House

### Course outcome

- ❖ This paper will enhance the various socio-cultural norms and values of society and it will improve the knowledge of the scope and branches of Social-Cultural Anthropology in India.
- ❖ This paper will be boosted the knowledge of different social institutions and different theories of society and culture

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

- ❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. III Semester

### AAUCTT5/ ASUCTT5- Tribes, Caste and Peasants: Indian Context

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUCTT5/ ASUCTT5	3	1	-	4 hours	30	70	100	4

#### Course Objectives

To provide the basic knowledge about the anthropological concept of tribes, meaning of tribe, problems of nomenclature and classification of the tribes in India.

- ❖ To teach various constitutional safe guards of the tribes, which is mainly based on fifth and sixth scheduled and the development initiatives taken by the various stake holder and agencies such as PESA, FRA 2006 and Rehabilitation and Resettlement of Act of 2013.
- ❖ To provide the knowledge of various features and characteristics of the tribes, the causes and factors of changing tribes and also explain the concept of caste system in India.
- ❖ To provide the basic knowledge of Indian village system and enhance the concept of peasant, peasant economy and their political organisation.

#### Syllabus

##### Unit I: Anthropological Concept of Tribe

- Problems of nomenclature, definition and classification.
- Classification (Geographical, Linguistic and Racial) of Indian tribes

##### Unit II: Tribes and Wider world.

- Constitutional safeguards for the tribes; Fifth Schedule and Sixth Schedule
- Development Initiatives: PESA 1996, FRA 2006, R & R Act,2013

##### Unit III: Caste in India

- Concept, Definition and features of caste system
- Features and Changes in Caste System
- Caste in Contemporary India: Politics and Caste

##### Unit IV: Anthropological Concept of Village

- The concept of peasantry.

- Approaches to the study of peasants – economic, political and cultural.

### **Unit V: Indian Village**

- Characteristics of Indian village: Importance of study of Indian Village
- Social Organization of Indian Village.

### **Suggested Reading**

1. Gupta D. (1991). Social Stratification. Oxford University Press: Delhi.
2. Madan V. (2002). The Village in India. Oxford University Press: Delhi.
3. Nathan D. (1998). Tribe-Caste Question. Simla: IAS.
4. National Tribal Policy (draft). (2006). Ministry of Tribal Affairs. Government of India.
5. Patnaik S.M. (1996). Displacement, Rehabilitation and Social change. Inter India Publication, Delhi.
6. Shah G. (2002). Social Movement and the State. Delhi: Sage.
7. Shanin T. (1987). Peasants and Peasantry. New York, Blackwell.
8. Vidyarthi L.P. and Rai B.K. (1985) Tribal Culture in India, New Delhi, Concept Publishing Company.
9. Wolf E. (1966). Peasants. NJ, Prentice Hall.
10. Srinivas, M. N (1963) India's Village. Asia Publishing House. Bombay
11. Dube, S.C. (1955) Indian Village. Routledge. London

### **Course outcome**

- ❖ This paper will enhance the knowledge about the concept of tribes 'and caste and peasant system of Indian.
- ❖ This paper will be strengthening the knowledge of various features and characteristics of the tribe and caste in India.

This paper will boost the ideas and knowledge about the current problems and factors of changing the Indian caste system.



**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. III Semester

### AAUCLT5/ ASUCLT5: Practical in Tribes, Caste and Peasants: Indian Context

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUCLT5/ ASUCLT5	-	-	2	4 hours	30	70	100	2

#### Course Objective

- ❖ To provide the basic knowledge of ethnography and the importance of ethnography in anthropology.
- ❖ To enhance the knowledge of ethnographic reading and writing and also to provide technique of data analysis of different facts.
- ❖ To provide the ideas and techniques of studying the books and make practicing for theoretical schema of field work methods.

#### Syllabus

Reading of Ethnography: Students are required to read and analyze any two of the ethnographies (as listed below) and prepare a report based upon it. The report should clearly link up the study with the concept of tribe and peasantry and delineate clearly the concept used in the text.

1. Research questions/objectives of the study and their relevance.
2. Theoretical schema.
3. Methods and techniques used in the study.
4. Key findings and their significance in the context of the objectives of the study.
5. Critical analysis of the finding on the basis of contemporary available resources.

#### Suggested Reading

1. Walker A. (1986). *The Todas*. Delhi : Hindustan Publishing Corporation Verrier
2. Elwin (1992). *The Muria and their Ghotul*. USA: Oxford University Press.
3. Malinowski M. (1922). *Argonauts of the Western Pacific*. London: Routledge and Kegan Paul Ltd.

4. Furer-Haimendorf C.V. (1939). *The Naked Nagas*. London: Methuen and Co.
5. □Evans-Pritchard E.E. (1940). *The Nuer: A Description of the Modes of Livelihood and Political Institutions of a Nilotic People*. Oxford : Clarendon Press.
6. Majumdar D. N. (1950). *Affairs of tribes*. Lucknow: Universal Publishers Ltd.
7. Dube S.C. (1955). *Indian Village*. London: Routledge and Kegan Paul Ltd.
8. Berreman G.D. (1963). *Hindus of the Himalayas*. Berkeley: California University Press.

### Course outcome

This paper will be enhanced the knowledge of ethnography and will also boost the capability to understanding the concept of tribe, caste and peasant. Here, the undergraduate students will learn the existence of different social system in India.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. III Semester**  
**AAUCTT6/ ASUCTT6: Human Ecology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUCTT6/ ASUCTT6</b>	3	1	-	4 hours	30	70	100	4

❖ **Course Objective**

- ❖ To provide the fundamental knowledge about human ecology and it is mainly based on biological and cultural dimension to provides the basic concept and definition of ecology, eco-sensitive, adaptation, acclimation, biotic and abiotic components of the ecology.
- ❖ To provide the basic background of methods of studying human ecology and explain how adaptation occur at various ecological stresses, ecological rules and their applicability to human population.
- ❖ To provide the basic concept of culture and how culture as a tool adaptation process in various modes of human adaptation particularly in pre-state society such as hunting, gathering, pastoralism and shifting cultivation population.

**Syllabus**

**Biological Dimensions**

**Unit I:** Concepts in Ecology: Definition, eco-sensitivity adaptation, acclimation, acclimatization, biotic and abiotic component.

**Unit II:** Methods of studying human ecology. Adaptation to various ecological stresses; Ecological rules and their applicability to human populations.

**Unit III:** Impact of urbanization and industrialization on Man.

**Cultural Dimensions**

**Unit IV:** Culture as a tool of adaptation; Various modes of human adaptation in pre-state societies.

- i. Hunting and food gathering
- ii. Pastoralism
- iii. Shifting cultivation

**Unit V:** Ecological themes of state formation: i. Neolithic revolution, ii. Hydraulic civilization. Agriculture and peasantry; Industrial civilization and growth of urban societies.

### Suggested Reading

1. Human ecology: biocultural adaptation in human communities. (2006) Schutkowski, H. Berlin. Springer Verlag.
2. Human ecology and cognitive style: comparative studies in cultural and physical adaptation. (1976).Berry, J.B. New York: John Wiley.
3. Human ecology. (1964) Stapledon. Faber & Faber.
4. Studies in Human Ecology. (1961) Theodorson, G.A. Row, Peterson & Company Elmsford, New York.
5. Human ecology: (1973) Problems and Solutions. Paul R. Ehrlich, Anne H. Ehrlich and John P. Holdress. W.H. Freeman & Company, San Francisco.
6. Cohen, Yehudi A. 1968. Man in adaptation; the cultural present. Chicago: Aldine Pub. Co.
7. Symposium on Man the Hunter, Richard B. Lee, and Irven DeVore. 1969. Man the hunter. Chicago: Aldine Pub. Co.

### Course outcome

- This paper will enhance the knowledge about the concept of ecology and about human ecology particularly based on biological and cultural dimensions.
- This paper will be strengthening the knowledge of methods and provide the concept of human ecology, types of adaptation, various ecological stresses, ecological rules and their applicability to human populations.
- This paper will also boost the knowledge of various modes of human adaptation process at pre-state society such as hunting and gathering, pastoralist and shifting cultivation communities.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. III Semester

### AAUCLT6/ ASUCLT6: Practical in Human Ecology

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUCLT6/ ASUCLT6	-	-	2	4 hours	30	70	100	2

#### Course Objective

- ❖ To provide the practical based knowledge of ecology, particularly based on biological and cultural dimensions to the under graduate students.
- ❖ To provide the basic knowledge about the procedures of taking measurement of different body shapes of the human being such as measurement of stature, sitting height, nasal breadth, body weight, body mass index, ponder index and nasal index.
- ❖ To provide the basic concept and knowledge of the environment and provide guideline to prepare report writing on contemporary issues of environment.

#### Syllabus

##### Biological Dimensions

###### *Size and Shape Measurements*

1. Stature 5. Total Lower Extremity Length
2. Sitting Height 6. Nasal Breadth
3. Body Weight 7. Nasal Height
4. Total Upper Extremity Length

###### *Size and Shape Indices*

1. Body Mass Index 4. Relative Upper Extremity Length
2. Ponderal Index 5. Relative Total Lower Extremity Length
3. Relative Sitting Height 6. Nasal Index

##### Cultural Dimensions

Make a research design pertaining to any environmental problem and do a project based on it.

#### Suggested Reading

1. Human ecology: biocultural adaptation in human communities. (2006) Schutkowski, H. Berlin. Springer Verlag.
2. Human ecology and cognitive style: comparative studies in cultural and physical adaptation. (1976).Berry, J.B. New York: John Wiley.

3. Human ecology. (1964) Stapledon. Faber & Faber.
4. Studies in Human Ecology. (1961) Theodorson, G.A. Row, Peterson & Company Elmsford, New York.
5. Human ecology: (1973) Problems and Solutions. Paul R. Ehrlich, Anne H. Ehrlich and John P. Holdress. W.H. Freeman & Company, San Francisco.
6. Cohen, Yehudi A. 1968. Man in adaptation; the cultural present. Chicago: Aldine Pub. Co.
7. Redfield, Robert. (1965). Peasant society and culture an anthropological approach to civilization. Chicago [u.a.]: Univ. of Chicago Press.
8. Symposium on Man the Hunter, Richard B. Lee, and Irven DeVore. 1969. Man the hunter. Chicago: Aldine Pub. Co.

### Course outcome

- ❖ This paper will be enhanced the practical based knowledge of ecology, human ecology and will also provide the ideas of biological and cultural dimensions in environment.
- ❖ This paper will be also boosted the knowledge about report writing on problems of ecology and their significance

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

- ❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. III Semester

### AAUCTT7/ ASUCTT7: Biological Diversity in Human Populations

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUCTT7/ ASUCTT7	3	1	-	4 hours	30	70	100	4

#### Course Objectives

The course is intended to understand the fundamental concept of Biological variability, Race, Hardy-Weinberg Law; sources of genetic variation; structuring genetic variation; interpretation of human variation, genetic polymorphism & human adaptability in different geographical settings.

- To understanding the ethnic elements in the Indian populations.
- To study the role of Bio-cultural factors influencing the diseases and nutritional status.
- To learn the sources of demographic data, demographic profile of Indian populations and its growth structure.
- To study the biological consequences of inbreeding, frequency of inbreeding in world populations & methods of counselling.

#### Syllabus

**Unit I:** Concept of Biological Variability; Race; Hardy-Weinberg Law; Sources of Genetic Variation; Structuring Genetic Variation; Interpretation of Human Variation, Genetic Polymorphism; Human Adaptability –Adaptive Mechanisms determining the types of adaptation.

**Unit II:** A critical appraisal of contribution of Risley, Guha and Sarkar towards understanding ethnic elements in the Indian populations.

**Unit III:** Role of Bio-cultural Factors Cultural Biology; Bio-cultural factors influencing the diseases and nutritional status.

**Unit V:** Perspective of Demographic Anthropology; Sources of Demographic Data, Demographic Processes, Demographic profile of Indian populations and its growth structure; Inbreeding and Consanguinity – Biological consequences of inbreeding, frequency of inbreeding in world populations; Methods of counselling.

**Unit V:** Genetic diversity among Indian Population.



### **Suggested readings:**

1. Baker P.T. and J.S. Weiner (ed.) (1996) *The Biology of Human Adaptability*. Oxford & New York, Oxford University Press.
2. Bhende A. and T. Kantikar (2006) *Principles of Population Studies*. Himalayan Publishing House, Mumbai
3. Bogin B. (1999). *Pattern of Human Growth*. 2nd edition CUP.
4. Cameron Noel and Barry Bogin (2012) *Human Growth and development*. Second edition, Academic Press Elsevier.
5. Eckhardt R.B.(1979) *The Study of Human Evolution*. McGrand Hill Book Company, USA.
6. Frisancho R. (1993) *Human Adaptation and Accommodation*. University of Michigan press
7. Harrison G.A., Tanner, J.M., Pilbeam, D.R., Baker, P.T. (1988) *Human Biology*. Oxford University Press.
8. Jurmain Robert Lynn kilgore Wenda Trevathan and Ciochon (2010). *Introduction to Physical Anthropology*. Wadsworth Publishing, USA.
9. Kapoor A.K. and Satwanti Kapoor (ed) (1995). *Biology of Highlanders*. Jammu, Vinod Publisher & Distributor.
10. Kapoor A.K. and Satwanti Kapoor (eds) (2004) *India's Elderly-A Multidisciplinary Dimension*. Mittal Publication, New Delhi.
11. Malhotra K.C. and B. Balakrishnan(1996) *Human Population Genetics in India*
12. Malina Robert M., Claude. Bouchard, Oded. Bar-Or. (2004) Growth, and Physical Activity. *Human Kinetics*.
13. Stanford C., Allen, S.J. and Anton, C.S. (2013): *Biological Anthropology*. 3rd edition, Pearson, USA.

### **Course Outcomes**

- The student will have the fundamental understanding of Biological variability, race & sources of genetic variability.
- Understand ethnic elements in India & genetic diversity among the Indian population. Understand the biological consequences of inbreeding & methods of counselling.

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. III Semester**  
**AAUCLT7/ ASUCLT7: Practical in Biological Diversity in Human Populations**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUCLT7/ ASUCLT7	-	-	2	4 hours	30	70	100	2

**Course Objectives**

- The main objective of this course is to study craniometric measurements on skull & mandible.
- To study landmarks on the skull & mandible from which measurements can be taken.
- To determine the ABO blood group system.
- To analyse and interpretation of finger ball pattern types & finger print classification.
- To understand the collection of demographic data from secondary sources.

**Syllabus**

1. Craniometric Measurements (Skull & Mandible)
2. Determination of A1, A2, B, O; M N; and
3. Rh (Test with five Anti-Rh sera) blood groups of ten subjects.
4. Analysis and interpretation of finger ball pattern types, Finger print classification and development of chance prints and statistical treatment of the data collected (Ten Subjects)
5. Collection of demographic data from secondary sources.

**Suggested readings:**

1. Baker P.T. and J.S. Weiner (ed.) (1996) *The Biology of Human Adaptability*. Oxford & New York, Oxford University Press.
2. Bhende A. and T. Kantikar (2006) *Principles of Population Studies*. Himalayan Publishing House, Mumbai
3. Bogin B. (1999). *Pattern of Human Growth*. 2nd edition CUP.
4. Cameron Noel and Barry Bogin (2012) *Human Growth and development*. Second edition, Academic Press Elsevier.
5. Eckhardt R.B.(1979) *The Study of Human Evolution*. McGrand Hill Book Company, USA.
6. Frisancho R. (1993) *Human Adaptation and Accommodation*. University of Michigan press
7. Harrison G.A., Tanner, J.M., Pilbeam, D.R., Baker, P.T. (1988) *Human Biology*. Oxford University Press.
8. Jurmain Robert Lynn kilgore Wenda Trevathan and Ciochon (2010). *Introduction to Physical Anthropology*. Wadsworth Publishing, USA.
9. Kapoor A.K. and Satwanti Kapoor (ed) (1995). *Biology of Highlanders*. Jammu, Vinod Publisher & Distributor.
10. Kapoor A.K. and Satwanti Kapoor (eds) (2004) *India's Elderly-A Multidisciplinary Dimension*. Mittal Publication, New Delhi.

11. Klepinger L.L. (2006). *Fundamentals of Forensic Anthropology*. John Wiley & Sons., New Jersey.
12. Malhotra K.C. and B. Balakrishnan (1996) *Human Population Genetics in India*
13. Malina Robert M., Claude. Bouchard, Oded. Bar-Or. (2004) Growth, and Physical Activity. *Human Kinetics*.
14. Stanford C., Allen, S.J. and Anton, C.S. (2013): *Biological Anthropology*. 3rd edition, Pearson, USA.

### Course Outcomes

- Systematic measurements of human cranium.
- Analytical understanding of blood group system, finger print classification & interpretation of finger ball types.
- Understand the sources of secondary data.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. III Semester**  
**AAUCTG3/ ASUCTG3: Human Biological & Cultural dimensions**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUBTG2/ ASUBTG2</b>	3	1	-	4 hours	30	70	100	4

**Course Objective**

- To understanding the ethnic variation based on adaptive features of human populations.
- To study the role of Bio-cultural factors influencing the occupation of human from past to present.
- To understand the various Biological and cultural to ecological stresses

**Syllabus**

**Unit-1:** Concept in Ecology, Adaptation, Biotic and Abiotic component

**Unit-2:** Methods of studying Human Ecology

**Unit-3:** Adaptation- Biological and cultural to ecological stresses

**Unit-4:** Culture as a tool of adaptation-Hunting and Food Gathering, Pastoralism,

**Unit-5:** Culture as a tool of adaptation Shifting Cultivation

**Suggested Reading**

1. Human ecology: biocultural adaptation in human communities. (2006) Schutkowski, H. Berlin. Springer Verlag.
2. Human ecology and cognitive style: comparative studies in cultural and physical adaptation. (1976).Berry, J.B. New York: John Wiley.
3. Human ecology. (1964) Stapledon. Faber & Faber.
4. Studies in Human Ecology. (1961) Theodorson, G.A. Row, Peterson & Company Elmsford, New York.
5. Human ecology: (1973) Problems and Solutions. Paul R. Ehrlich, Anne H. Ehrlich and John P. Holdress. W.H. Freeman & Company, San Francisco.
6. Cohen, Yehudi A. 1968. Man in adaptation; the cultural present. Chicago: Aldine Pub. Co.

7. Symposium on Man the Hunter, Richard B. Lee, and Irven DeVore. 1969. Man the hunter. Chicago: Aldine Pub. Co.

**Course Outcomes**

- The student will have the fundamental understanding of adaptation in different socio-economic conditions

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. III Semester**  
**AAUCLG3/ ASUCLG3: Practical in Human Biological & Cultural dimensions**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUCLG3/ ASUCLG3	-	-	2	4 hours	30	70	100	2

**Course Objectives**

- To understanding the ethnic variation based on adaptive features of human populations.
- To study the role of Bio-cultural factors influencing the occupation of human from past to present.
- To understand the various Biological and cultural to ecological stresses

**Syllabus**

**Unit-1:** Biological Dimensions of Adaptation:

**Unit-2:** Size and Shape measurement

**Unit-3:** Size and shape indicators

**Unit-4:** Cultural dimensions of Adaptation:

**Unit-5:** Make and research design to any environmental problem and prepare a project base

**Suggested readings:**

1. Human ecology: biocultural adaptation in human communities. (2006) Schutkowski, H. Berlin. Springer Verlag.
2. Human ecology and cognitive style: comparative studies in cultural and physical adaptation. (1976).Berry, J.B. New York: John Wiley.
3. Human ecology. (1964) Stapledon. Faber & Faber.
4. Studies in Human Ecology. (1961) Theodorson, G.A. Row, Peterson & Company Elmsford, New York.
5. Human ecology: (1973) Problems and Solutions. Paul R. Ehrlich, Anne H. Ehrlich and John P. Holdress. W.H. Freeman & Company, San Francisco.
6. Cohen, Yehudi A. 1968. Man in adaptation; the cultural present. Chicago: Aldine Pub. Co.
7. Symposium on Man the Hunter, Richard B. Lee, and Irven DeVore. 1969. Man the hunter. Chicago: Aldine Pub. Co.

## Course Outcomes

The student will be able to differentiate between Size and shape and cultural dimensions of human adaptation

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly



**B.A./B.Sc. IV Semester**

**AAUDTT8/ ASUDTT8: Theories of Culture and Society**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUDTT8/ ASUDTT8</b>	3	1	-	4 hours	30	70	100	4

**Course Objectives**

- To teach the scientific and humanistic perspective in social anthropology.
- To inform various theoretical approaches to study the evolution and spread of culture.
- To appraise views of social thinkers as well as to study the society.

**Syllabus**

**Unit I:** Evolutionism and Diffusionism, Historical Particularism, Neo- evolutionism, Emergence of fieldwork tradition.

**Unit II:** Durkheim and social integration, Functionalism and Structural-functionalism and British Social Anthropology: Radcliff Brown and Malinowski

**Unit III:** Recent trends in Anthropological Theories: Symbolic Approach, Interpretative Approach

**Unit IV:** Patterns of culture

**Unit V:** Culture & personality

**Suggested readings:**

1. Applebaum H.A. (1987) *Perspectives in Cultural Anthropology*. Albany: State University of New York.
2. Barnard A. (2000). *History and Theory in Anthropology*. Cambridge: Cambridge University.
3. McGee R.J. and Warms R.L. (1996) *Anthropological Theories: An Introductory History*.
4. Moore M. and Sanders T. (2006). *Anthropology in Theory: Issues in Epistemology*, Malden, MA: Blackwell Publishing.

### Course Outcomes

- The students will have
- A clear understanding of the scientific and humanistic perspective in Anthropology.
- Knowledge as theoretical approaches to study society and culture.
- Understanding the philosophies of various thinkers in anthropology.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. IV Semester

### AAUCLT8/ ASUCLT8: Practical on Culture and Society

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUCLT7/ ASUCLT7	-	-	2	4 hours	30	70	100	2

#### Course Objectives

- To teach the scientific and humanistic perspective in social anthropology.
- To inform various theoretical approaches to study the evolution and spread of culture.
- To appraise views of social thinkers as well as to study the society.

#### Syllabus

As a part of the practical following exercises will be undertaken by the students so as to enable them to connect the theories they learn with things of everyday living.

1. To identify a topic relating to contemporary issue and formulate research questions and Clearly identify the theoretical perspectives from which they are derived.
2. Identification of variables of a study.
3. Various types of hypotheses.
4. Formulation of hypothesis.
5. Distinction between hypothesis testing and exploratory research.
6. Identification of universe and unit of study with justifications.
7. Choice of appropriate research technique and method in the context of theoretical framework.
8. Data collection and analysis

#### Suggested readings:

1. Applebaum H.A. (1987) *Perspectives in Cultural Anthropology*. Albany: State University of New York.
2. Barnard A. (2000). *History and Theory in Anthropology*. Cambridge: Cambridge University.
3. McGee R.J. and Warms R.L. (1996) *Anthropological Theories: An Introductory History*.

4. Moore M. and Sanders T. (2006). *Anthropology in Theory: Issues in Epistemology*, Malden, MA: Blackwell Publishing.

### Course Outcomes

- The students will have
- A clear understanding of the scientific and humanistic perspective in Anthropology.
- Knowledge as theoretical approaches to study society and culture.
- Understanding the philosophies of various thinkers in anthropology.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. IV Semester

### AAUDTT9/ ASUDTT9: Human Growth and Development

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUDTT9/ ASUDTT9	3	1	-	4 hours	30	70	100	4

#### Course Objectives

- To provide complete knowledge of growth, differentiation, maturation and development.
- This subject will deal with various biological and socio-economic factors affecting growth.
- To describe the major stages and associated developmental task of human growth and development.
- To acquaint the students about the different methods and techniques to study growth and also the significance of growth studies.
- To understand the concept, levels and underlying models of body composition

#### Syllabus

**Unit I:** Concept of human growth, development and maturation.

**Unit II:** Prenatal (conception till birth) and postnatal (birth till senescence) period of growth, pattern of normal growth curves, variation from normal growth. (canalization, catch-up growth and catch-down growth), ethnic and gender differences in growth curves, secular trend.

**Unit III:** Bio-cultural factors (genetic, social, and ecological factors) influencing patterns of growth and variation,

**Unit IV:** Methods and techniques to study growth, significance/ applicability of growth studies

**Unit V:** Human physique and body composition; Somatotyping and human physique

### **Suggested Readings**

1. Bogin B. (1999) Patterns of human growth. Cambridge University Press.
2. Frisancho R. (1993) Human Adaptation and Accommodation. University of Michigan Press.
3. Cameron N and Bogin B. (2012) Human Growth and Development. Second edition, Academic press Elsevier.
4. Harrison GA and Howard M. (1998). Human Adaptation. Oxford University Press.
5. Harrison GA, Tanner JM, Pibeam DR, Baker PT. (1988). Human Biology. Oxford University Press
6. Jurmain R, Kilgore L, Trevathan W. Essentials of physical anthropology. Wadsworth publishing.
7. Kapoor AK and Kapoor S. (1995) Biology of Highlanders. Vinod Publisher and Distributor.
8. Kathleen K. (2008). Encyclopedia of Obesity. Sage.
9. Malina RM, Bouchard C, Oded B. (2004) Growth, Maturation, and Physical Activity.  
Human Kinetics.
10. McArdle WD, Katch FI, Katch VL. (2001) Exercise Physiology: Energy, Nutrition, and Human Performance.

11. Singh I, Kapoor AK, Kapoor S. (1989). Morpho-Physiological and demographic status of the Western Himalayan population. In Basu and Gupta (eds.). Human Biology of Asian Highland Populations in the global context.

12. Sinha R and Kapoor S. (2009). Obesity: A multidimensional approach to contemporary global issue. Dhanraj Publishers. Delhi.

### Course Outcomes

After studying this paper, the students will learn about

- The concepts and indicators of growth and development
- Types and patterns of growth curves
- Different stages of growth: Prenatal and Postnatal
- Various bio-cultural factors influence the growth
- Analysis of body physique and somatotyping

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. IV Semester

### AAUDLT9/ ASUDLT9: Practical on Human Growth and Development

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUDLT9/ ASUDLT9	-	-	2	4 hours	30	70	100	2

#### Couse Objectives

- To explain the various methods of assessing growth status using somatometry, percentile, z-score, BMI, height for age, weight for age
- Assessment of obesity through various indices
- To provide knowledge about the estimation of body composition with skinfold thickness
- Assessment of nutritional status through dietary pattern and anthropometric indices

#### Syllabus

1. Growth status: Somatometry (stature, body weight, mid upper arm circumference etc), assessment of chronological age, percentile, z-score, height for age, weight for age, BMI for age
2. Obesity assessment: General (BMI, body fat %, Conicity index, body adiposity indices)
3. Estimation of body composition (fat percentage and muscle mass) with skinfold thickness.
4. Nutritional assessment and
5. Anthropometric indices.



## **Suggested Readings**

1. Bogin B. (1999) Patterns of human growth. Cambridge University Press.
2. Frisancho R. (1993) Human Adaptation and Accommodation. University of Michigan Press.
3. Cameron N and Bogin B. (2012) Human Growth and Development. Second edition, Academic press Elsevier.
4. Harrison GA and Howard M. (1998). Human Adaptation. Oxford University Press.
5. Harrison GA, Tanner JM, Pibeam DR, Baker PT. (1988). Human Biology. Oxford University Press
6. Jurmain R, Kilgore L, Trevathan W. Essentials of physical anthropology. Wadsworth publishing.
7. Kapoor AK and Kapoor S. (1995) Biology of Highlanders. Vinod Publisher and Distributor.
8. Kathleen K. (2008). Encyclopedia of Obesity. Sage.
9. Malina RM, Bouchard C, Oded B. (2004) Growth, Maturation, and Physical Activity.  
Human Kinetics.
10. McArdle WD, Katch FI, Katch VL. (2001) Exercise Physiology: Energy, Nutrition, and Human Performance.
11. Singh I, Kapoor AK, Kapoor S. (1989). Morpho-Physiological and demographic status of the Western Himalayan population. In Basu and Gupta (eds.). Human Biology of Asian Highland Populations in the global context.
12. Sinha R and Kapoor S. (2009). Obesity: A multidimensional approach to contemporary  
global issue. Dhanraj Publishers. Delhi.

## Course Outcomes

From this paper, the students will learn about how to assess growth, obesity, body composition and nutritional status.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. IV Semester

### AAUDTT10/ ASUDTT10: Research Methods

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUDTT10/ ASUDTT10	3	1	-	4 hours	30	70	100	4

### Course Objectives

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### Syllabus

#### Unit I: Field work tradition in Anthropology

Ethnographic approach, contribution of Malinowski, Boas and other pioneers; cultural relativism, ethnocentrism, etic and emic perspectives, comparative and historical methods, techniques of rapport establishment, identification of representative categories of informants, maintenance of field diary and logbook

#### Unit II: Research Design

Review of literature, conceptual framework, formulation of research problem, formulation of hypothesis, sampling, tools and techniques of data collection, data analysis and reporting, guiding ideals and critical evaluation of major approaches in research methods, basic tenets of qualitative research and its relationship with quantitative research

#### Unit III: Tools and techniques of data collection

Concept of survey, relationship of survey method with ethnographic method, construction of questionnaire and interview schedule, validation and internal consistency of questionnaire  
Observation - Direct, Indirect, Participant, Non-participant, Controlled  
Interview - Structured and unstructured, Focused Group Discussion, key informant interview  
Case Study and life history; Genealogy-Technique and application.

#### Unit IV

Chapterization, preparing a text for submission and publication, concepts of preface, notes (end and footnotes), glossary, prologue and epilogue, appendix, bibliography (annotated) and references cited, review and index. Similarities and differences between qualitative and quantitative data analysis;

### Suggested readings:

1. Garrard E and Dawson A. What is the role of the research ethics committee? Paternalism, inducements, and harm in research ethics. Journal of Medical Ethics 2005; 31: 419-23.

2. Bernard H.R. Research Methods in Anthropology, Qualitative and Quantitative Approaches. Jaipur: Rawat Publications. 2006.
3. Madrigal L. Statistics for Anthropology. Cambridge: Cambridge University Press. 2012. Zar JH. Biostatistical Analysis. Prentice Hall. 2010.
4. Bernard R. Research Methods in Anthropology: Qualitative and Quantitative Approaches. AltaMira Press. 2011.
5. Emerson RM, Fretz RI and Shaw L. Writing Ethnographic Fieldnotes. Chicago, University of Chicago Press. 1995.
6. Lawrence NW. Social Research Methods, Qualitative and Quantitative Approaches. Boston: Allyn and Bacon. 2000.
7. Patnaik S.M. Culture, Identity and Development: An Account of Team Ethnography among the Bhil of Jhabua. Jaipur: Rawat Publications. 2011.
8. Pelto PJ and Pelto GH. Anthropological Research, The Structure of Inquiry. Cambridge: Cambridge University Press. 1978.

### Course Outcomes

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### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. IV Semester

### AAUDLT10/ ASUDLT10: Practical in Research Methods

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUDLT10/ ASUDLT10	-	-	2	4 hours	30	70	100	2

### Course Objectives

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### Syllabus

1. Construction of Genealogy.
2. Observation: Direct, Indirect, Participant, Non-participant, Controlled
3. Questionnaire and Schedule, Interview- Unstructured, Structured, Key informant interview, Focussed Group Discussion
4. Case study and life history
5. Project report writing- preparation of research problem, study design, data collection techniques, analysis and report writing based on somatometric, dermatoglyphic and serological data or social problem.

### Suggested Reading

- Garrard E and Dawson A. What is the role of the research ethics committee? Paternalism, inducements, and harm in research ethics. Journal of Medical Ethics 2005; 31: 419-23.
- Bernard H.R. Research Methods in Anthropology, Qualitative and Quantitative Approaches. Jaipur: Rawat Publications. 2006.
- Madrigal L. Statistics for Anthropology. Cambridge: Cambridge University Press. 2012.
- Zar JH. Biostatistical Analysis. Prentice Hall. 2010.
- Michael A. The Professional Stranger. Emerald Publishing. 1996.
- Bernard R. Research Methods in Anthropology: Qualitative and Quantitative Approaches. AltaMira Press. 2011.
- Emerson RM, Fretz RI and Shaw L. Writing Ethnographic Fieldnotes. Chicago, University of Chicago Press. 1995.
- Lawrence NW. Social Research Methods, Qualitative and Quantitative Approaches.

Boston: Allyn and Bacon. 2000.

□ O'reilly K. Ethnographic Methods. London and New York: Routledge. 2005.

□ Patnaik S.M. Culture, Identity and Development: An Account of Team Ethnography among the Bhil of Jhabua. Jaipur: Rawat Publications. 2011.

□ Pelto PJ and Pelto GH. Anthropological Research, The Structure of Inquiry. Cambridge: Cambridge University Press. 1978.

□ Sarantakos S. Social Research. London: Macmillan Press. 1998.

### Course Outcomes

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### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. IV Semester**

**AAUDTG4/ ASUDTG4: Basic of Research Methodology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUDTG4/ ASUDTG4</b>	3	1	-	4 hours	30	70	100	4

**Course Objectives**

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**Syllabus**

**Unit-1:** Meaning, Concept and Research- Research Design, Review of Literature, Formulation of Research problem, Qualitative and Quantitative research.

**Unit-2:** Tools and Techniques of data collection

**Unit-3:** Ethical issues in Research/ Ethical importance of cosset privacy and confidentiality in the research

**Unit-4:** Analysis and writing up structure, Research article data analysis

**Unit-5:** Bio Statistics: Variable, Descriptive statistics, use of qualitative and quantitative, Test of inference, Pedigree Analysis

**Suggested Reading**

1. Garrard E and Dawson A. What is the role of the research ethics committee? Paternalism, inducements, and harm in research ethics. Journal of Medical Ethics 2005; 31: 419-23.
2. Bernard H.R. Research Methods in Anthropology, Qualitative and Quantitative Approaches. Jaipur: Rawat Publications. 2006.
3. Madrigal L. Statistics for Anthropology. Cambridge: Cambridge University Press. 2012. Zar JH. Biostatistical Analysis. Prentice Hall. 2010.
4. Bernard R. Research Methods in Anthropology: Qualitative and Quantitative Approaches. AltaMira Press. 2011.
5. Emerson RM, Fretz RI and Shaw L. Writing Ethnographic Fieldnotes. Chicago, University of Chicago Press. 1995.
6. Lawrence NW. Social Research Methods, Qualitative and Quantitative Approaches. Boston: Allyn and Bacon. 2000.
7. Patnaik S.M. Culture, Identity and Development: An Account of Team Ethnography among the Bhil of Jhabua. Jaipur: Rawat Publications. 2011.
8. Pelto PJ and Pelto GH. Anthropological Research, The Structure of Inquiry. Cambridge: Cambridge University Press. 1978.

## Course Outcomes

### Students will be able to:

- Prepare schedule and questionnaire -interview, key informant interview, case study
- Project Report Writing: Preparation of Research Problem. Research design, Data collection and analysis, Report writing

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly



## B.A./B.Sc. V Semester

### AAUETT11/ ASUETT11: Human Genetics

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUETT11/ ASUETT11	3	1	-	4 hours	30	70	100	4

#### Course Objective

1. To develop basic concept and methods of human genetics.
2. To study cytogenetic and banding techniques.
3. To develop the concept and chromosomal abnormalities, chromosome mapping, genetic imprinting, Epistasis, pleiotrophy.
4. To help students to know various Modes of inheritance.
5. To know about multiple allelic inheritance, multifactorial inheritance (stature and skin Colour).

#### Syllabus

- 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, Pleiotrophy.
- Unit IV Modes of inheritance: Mendels Law, 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 4<sup>th</sup> ed.
2. Cavalli-Sforza, L.L. and Bodmer, W.F (1971). The Genetics of Human Population. San Francisco: Freeman
3. Cooper D N and Kehrer-Sawatzki H. (2008). Handbook of Human Molecular Evolution. John Wiley & 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
6. Jobling, M.A. Hurlst M. and Tyler-Smith C. (2004). *Human Evolutionary Genetics: Origins, Peoples & Disease*. G S. NY.
7. Lewis R. (2009). *Human Genetics: Concepts and Applications* 9<sup>th</sup> Edition. The McGraw–Hill Companies, Inc.
8. Patch C. (2005). *Applied Genetics in Healthcare*. Taylor & Francis Group
9. Relethford J.H. (2012). *Human Population Genetics*. Wiley-Blackwell, USA
10. Snustad. D.P. and Simmons M.J. (2006). *Principles of Genetics*, Fourth Edition, John Wiley & Sons USA, Hoboken N J
11. Strachan T, Read A.P. (2004). *Human Molecular Genetics*. Garland Science/Taylor & Francis Group.
12. Vogel F. and Motulsky A.G. (1996). *Human Genetics*. Springer, 3<sup>rd</sup> revised edition.

**Course Outcome:**

Students will try to learn:

1. This course provides information to Methods of studying Human Genetics.
2. Student can understand Chromosomal abnormalities, modes of inheritance.
3. Able to understand multiple allelic inheritances, multifactorial inheritance (stature and skin Colour).

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

Weightage: 1-Sightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. V Semester**  
**AAUELT11/ ASUELT11: Practical on Human Genetics**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUELT11/ ASUELT11</b>	-	-	2	4 hours	30	70	100	2

**Course Objectives**

1. To learn different blood grouping types.
2. To perform Color Blindness test.
3. To Learn Glucose-6-phosphatedehydrogenasedeficiency(G6PD) and
4. To Learn PTC tasting ability

**Syllabus**

- Unit I: Blood group typing-A1, A2, B, O, MN and Rh(D) blood groups
- Unit II: Color Blindness
- Unit III: Glucose-6-phosphate dehydrogenase deficiency (G6PD)
- Unit IV: PTC tasting ability
- Unit V: Biochemical markers-DNA isolation and polymerase chain reaction(PCR)

**Suggested Readings**

1. Brooker R.J.(2012).Genetics:analysis&principles.TheMcGraw-HillCompanies,Inc4thed.
2. Cavalli-Sforza,L.L.andBodmer,W.F(1971).TheGeneticsofHumanPopulation.SanFrancisco:Free man
3. Cooper D N and Kehrer- Sawatzki H. (2008). Handbook of Human Molecular Evolution. John Wiley & Sons, volume-2.
4. Crawford M H (2007).*Anthropological Genetics Theory, Methods and Applications*. Cambridge University Press
5. CummingsM.R.(2011).HumanHeredity:PrinciplesandIssues.NinthEdition.Brooks/Cole,CengageLearning
6. Jobling, M. A. Hurlst M. and Tyler-Smith C. (2004). *Human Evolutionary Genetics: Origins, Peoples & Disease*. GS. NY
7. LewisR.(2009).*HumanGenetics:ConceptsandApplications*9thEdition.TheMcGraw-HillCompanies,Inc.
8. Patch C.(2005). *Applied Genetics in Healthcare*. Taylor & Francis Group
9. Relethford J.H.(2012).*Human Population Genetics*. Wiley-Blackwell, USA
10. Snustad. D.P. and Simmons M.J. (2006). *Principles of Genetics*, Fourth Edition, John Wiley & Sons USA, Hoboken N J
11. Strachan T, Read A.P. (2004). *Human Molecular Genetics*. Garland Science/Taylor &Francis Group.
12. VogelF.andMotulskyA.G.(1996).*HumanGenetics*.Springer,3rdrevisededition.

**Course Outcomes:**

After completion of this course the students will able to demonstrate:

1. This course provides information to different types of Blood Group system.
2. Student can demonstrate different types of Color blindness and learn about Glucose-6-phosphate dehydrogenase deficiency (G6PD) and PTC tasting ability
3. Able to understand the Biochemical markers-DNA isolation and polymerase chain reaction (PCR).

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

Weightage: 1-Sightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. V Semester

### AAUETT12/ ASUETT12: Anthropology in Practice

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUETT12/ ASUETT12	3	1	-	4 hours	30	70	100	4

#### Course Objectives:

Objective of the course is to make Students will able:

1. To summarize and analyze the concepts of Applied Anthropology and Action Anthropology
2. To introduce the Development Anthropology and Public Policy.
3. To develop the understanding of Tourism and Visual Anthropology
4. To develop basic idea of Human Rights Constitutional Provisions.
5. To utilise the appropriate tools for Forensic Anthropology in judicial settings

#### Syllabus

Unit I: Academic Anthropology 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,

Unit III: Future Dynamics in Anthropology Trends in Anthropology: Anthropology of Tourism and Visual Anthropology

Unit IV: Constitutional Perspective and Human Rights Constitutional Provisions, Human Rights: International and India, Interrelationships of rights and duties: National and State Human Rights Commission.

Unit V: Biosocial anthropology in practice Bio-social elements of human development; Forensic Anthropology in judicial settings; and Population Dynamics.

#### Suggested Readings

1. Arya A and Kapoor A K. (2012). Gender and Health Management in Afro-Indian Global Vision Publishing House, New Delhi.
2. Kertzer DI and FrickeT. (1997). Anthropological Demography. University of Chicago Press.
3. Basu, A. and P.Aaby (1998). The Methods and the Uses of Anthropological Demography.329pp. Oxford, Clarend on 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: Clarend on Press. Pp 246-268.
5. Census of India (2001, 2011) and National Family Health Survey (2006, 2010).
6. Ervic, Alexander M., (2000). Applied Anthropology: Tools and Perspectives for Contemporary Practise, Boston, MA: Allyn and Bacon.
7. Erwin A. (2004). Applied Anthropology Tools and Practice, Allynand Bacon.

8. Gupta S and Kapoor AK.(2009). Human Rights among Indian Populations: Knowledge, Awareness and Practice. Gyan Publishing House, New Delhi.
9. Willen SS.(2012). Anthropology and Human Rights: Theoretical Reconsiderations and Phenomenological Explorations. Journal of Human Rights.11:150–159.
10. Goodale M.(2009).Human Rights:AnAnthropologicalReader.WileyBlackwell.
11. Gupta S and Kapoor AK. (2007). Human Rights, Development andTribe.In: Genes, Environment and Health–Anthropological Prespectives. K.Sharma, R.K.Pathak,S. Mehra and TalwarI(eds.). Serials Publications, New Delhi.
- 12.Margaret AG.(2003). Applied Anthropology:ACareer-OrientedApproach,Boston, MA: AllynandBacon.
13. Halbar B G and Khan CGH.(1991).Relevance of Anthropology–The Indian Scenario. Rawat Publications, Jaipur.
14. Kapoor AK (1998). Role of NGO's in Human Development: A Domain of Anthropology. JInd Anthropol Soc;33:283-300.
15. Kapoor AK and Singh D.(1997).Rural Development through NGO's. Rawat publications, Jaipur.
16. Klepinger L L(2006).FundamentalsofForensicAnthropology.Wiley-LissPublications
17. Kumar RK and Kapoor AK.(2009).Management of a Primitive Tribe: Role of Development Dynamics.Academic Excellence, Delhi.
18. Mehrotra N and Patnaik SM. (2008). Culture versus Coercion: The Other Side of NirmalGramYojna,EconomicandPoliticalweekly.pp25-27.
19. Mishra RC (2005). Human Rights in a Developing Society, Mittal Publications, Delhi.
- 20.Noaln RW. (2002). Anthropology in Practice: Building a Career outside the Academy. PublishingLynneReinner.
21. Patnaik SM (1996). Displacement, Rehabilitation & Social Change. Inter IndiabPublications,New Delhi.
22. PatnaikSM(2007).AnthropologyofTourism:InsightsfromNagaland.TheEasternAnthropologist.60(3&4):455-470
23. SrivastavOS(1996).Demographic andPopulationStudies.VikasPublishingHouse,India
24. VidyarthiLPandBNSahay(2001).AppliedAnthropology and Development inIndia, National Publishing House, NewDelhi.
25. VidyarthiLP.(1990).AppliedAnthropologyinIndia–Principles,ProblemsandCaseStudies.Kitab Mahal, U.P.
26. VidyarthiV(1981).TribalDevelopmentanditsAdministration.ConceptPublishingCompany,NewDelhi.

### **Course Outcome:**

Students will be able to:

1. Apply the anthropological knowledge to resolve day to day life problems of humans in different ecological setup.
2. Student can apply their knowledge in different projects and NGOs
3. Able to understand Constitutional provisions and Human Rights and apply that
4. They will be able to explore them in tourism and visual anthropology.
5. They will apply bio-social elements of human development.

Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. V Semester**  
**AAUELT12/ ASUELT12: Practical on Anthropology in Practice**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUELT12/ ASUELT12	-	-	2	4 hours	30	70	100	2

**Course Objectives:**

**Objective of the course is to make Students will able:**

1. Students will learn to develop rapport establishment practically in nearby village.
2. Students will learn how to prepare report based on primary data
3. To develop the understanding how to prepare project proposal
4. To develop basic idea of demographic study proposal
5. Students will learn how to prepare report based on secondary data

**Syllabus**

- 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. 329pp. 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. pp246-268.
5. Census of India (2001, 2011) and National Family Health Survey (2006, 2010).
6. Ervic, Alexander M., (2000). Applied Anthropology: Tools and Perspectives for Contemporary Pr



actise, Boston, MA: Allyn and Bacon.

7. Erwin A. (2004). Applied Anthropology Tools and Practice, Allyn and Bacon.

8. Gupta S and Kapoor AK. (2009). Human Rights among Indian Populations: Knowledge, Awareness and Practice. Gyan Publishing House, New Delhi.

9. Willen SS. (2012). Anthropology and Human Rights: Theoretical Reconsiderations and Phenomenological Explorations. Journal of Human Rights. 11:150–159.

10. Goodale M. (2009). Human Rights: An Anthropological Reader. Wiley Blackwell.

11. Gupta S and Kapoor AK. (2007). Human Rights, Development and Tribe. In : Genes, Environment and Health—Anthropological Perspectives. K. Sharma, R. K. Pathak, S. Mehra and Talwar I (eds.). Serials Publications, New Delhi.

12. Margaret A G. (2003). Applied Anthropology: A Career-Oriented Approach, Boston, MA: Allyn and Bacon.

13. Halbar B G and Khan C G H. (1991). Relevance of Anthropology—The Indian Scenario. Rawat Publications, Jaipur.

14. Kapoor AK (1998). Role of NGO's in Human Development: A Domain of Anthropology. J Ind Anthropol Soc; 33:283-300.

15. Kapoor AK and Singh D. (1997). Rural Development through NGO's. Rawat Publications, Jaipur.

16. Klepinger LL (2006). Fundamentals of Forensic Anthropology. Wiley-Liss Publications

17. Kumar R K and Kapoor AK. (2009). Management of a Primitive Tribe: Role of Development Dynamics. Academic Excellence, Delhi.

18. Mehrotra N and Patnaik SM. (2008). Culture versus Coercion: The Other Side of Nirmal Gram Yojna, Economic and Political weekly. pp25-27.

19. Mishra RC (2005). Human Rights in a Developing Society, Mittal Publications, Delhi. 20. Noaln RW. (2002). Anthropology in Practice: Building a Career outside the Academy. Publishing Lynne Reinner.

21. Patnaik SM (1996). Displacement, Rehabilitation & Social Change. Inter India Publications, New Delhi.

22. Patnaik SM (2007). Anthropology of Tourism: Insights from Nagaland. The Eastern Anthropologist. 60(3&4):455-470

23. Srivastav OS (1996). Demographic and Population Studies. Vikas Publishing House, India

24. Vidyarthi LP and BN Sahay (2001). Applied Anthropology and Development in India, National Publishing House, New Delhi.

25. Vidyarthi LP. (1990). Applied Anthropology in India—Principles, Problems and Case Studies. Kitab Mahal, U.P.

26. Vidyarthi V (1981). Tribal Development and its Administration. Concept Publishing Company, New Delhi.

### Course Outcomes

1. Students will be able to project proposal and report.
2. They will be able to analyse primary and secondary data.

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. V Semester

### AAUETD1/ ASUETD1: Biological Diversity in Human Populations

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
<b>AAUETD1/ ASUETD1</b>	3	1	-	4 hours	30	70	100	4

### Course Objectives

### Syllabus

### Suggested readings:

### Course Outcomes

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. V Semester**  
**AAUELD1/ ASUELD1: Practical in**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUELD1/ ASUELD1	-	-	2	4 hours	30	70	100	2

**Course Objectives**

**Syllabus**

**Suggested readings:**

**Course Outcomes**

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. V Semester**

**AAUETD2/ ASUETD2: Biological Diversity in Human Populations**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUETD2/ ASUETD2	3	1	-	4 hours	30	70	100	4

**Course Objectives**

**Syllabus**

**Suggested readings:**

**Course Outcomes**

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. V Semester**  
**AAUELD2/ ASUELD2: Practical in**

<b>Sub Code</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Duration</b>	<b>IA</b>	<b>ESE</b>	<b>Total</b>	<b>Credits</b>
<b>AAUELD2/ ASUELD2</b>	-	-	2	4 hours	30	70	100	2

**Course Objectives**

**Syllabus**

**Suggested readings:**

**Course Outcomes**

**Course Outcomes and their mapping with Programme Outcomes:**

<b>CO</b>	<b>PO</b>												<b>PSO</b>		
	<b>PO 1</b>	<b>P O2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO 9</b>	<b>PO 10</b>	<b>PO 11</b>	<b>PO 12</b>	<b>PS O1</b>	<b>PS O2</b>	<b>PS O3</b>
<b>CO1</b>	3	2	2	1	1							3	3	3	3
<b>CO2</b>	3	2	3	2	1							3	3	3	3
<b>CO3</b>	3	3	3	3	2							3	3	3	2
<b>CO4</b>	3	3	3	3	3							3	3	3	2
<b>CO5</b>	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. VI Semester

### AAUFTT13/ ASUFTT13: Applied Biological Anthropology

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUFTT13/ ASUFTT13	3	1	-	4 hours	30	70	100	4

#### Course Objectives

- The course deals with the study of medical anthropology, health & nutrition and its bio-cultural aspects.
- To know about the traditional and modern health care system specifically the marginalized health care as well as tribal health and use of ethno medicinal practices in different region.
- Moreover it focuses on food, diet and nutrition, mother and child health and nutrition policy of India

#### Syllabus

UNIT-1: Medical Anthropology: Meaning and Scope, Theories of Medical Anthropology: Socio-Cultural perspective, Bio-cultural perspective, Critical Medical Anthropology.

UNIT-2: 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-3: Human nutrition: food, diet, nutrition, and metabolism (definitions only); the basic nutrients micro-, and macronutrients—their sources and utility;

UNIT-4: Nutritional Anthropology: concept and definition. Nutrition policy in India, Child health and nutrition programmes in India.

UNIT-5: Malnutrition: over-and under-nutrition, malnutrition—their evaluation and general consequences. Nutritional adaptation in man

#### 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).**
7. Foster,G.M. and B.G. Anderson (1978) **Medical Anthropology. New York: John Wileyand Sons**
8. Good Bryon.(1994). **Medicine, Rationality and Experience. Cambridge, England:Cambridge University Press**
9. McElroy,A. and P.K.Townsend (1979) **Medical Anthropology in Ecological Prespective.Boulder, CO: Westview Press**
10. Singer,M. and H.A.Baer (1995) **Critical Medical Anthropology. Amityville, NY:Baywood Press**
11. Joshi, P.C. and A.Mahajan (1990) **Studies in Medical Anthropology (eds.). New Delhi:Reliance Publishing House**

### Course Outcome

- The course helps the students to know about the health status of a person as well as community. And to know about the modern health care system as well as traditional medicine as ethno medicine how the community has knowledge to survive themselves.
- It also helps to know about the diverse of food and the nutritional status of a community.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly



**B.A./B.Sc. VI Semester**  
**AAUFLT13/ ASUFLT13: Practical on Applied Biological Anthropology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUFLT13/ ASUFLT13	-	-	2	4 hours	30	70	100	2

**Course Objectives**

- To get practical knowledge of applied biology students do body measurements by the use of anthropometry and skin other instruments.
- To know about the nutritional status the measurements are taken and estimate the BMI of a person as well as the health status of a community.

**Syllabus**

- 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).

## Course Outcome

Students get benefited after getting knowledge of body mass index, skin fold measurements. They calculate the proper nutritional status through BMI.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. VI Semester

### AAUFTT14/ ASUFTT14: Indian Anthropology

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUFTT14/ ASUFTT14	3	1	-	4 hours	30	70	100	4

#### Course Objectives

- ❖ To provide the knowledge of origin, history and development of Anthropology in India and enhance the knowledge of different approaches of studying the Indian society and culture.
- ❖ To provide comprehensive knowledge about village system in India and explain the different social organizations, boost the basic knowledge of market, agriculture, economic system of rural villages and discuss how urbanization and industrialization impact to the rural society.
- ❖ To boost the concept of little tradition, great tradition, Universalization, Parochialization, Westernization, Sanskritization and problems of the exploitation and deprivation of tribal population.
- ❖ To provide the concept of society, culture, civilization and discussed Indological, Anthropological and historical approaches to improve knowledge about process of socio-cultural change.
- ❖ To provide the basic background about traditional social structure, life style in Vedic age, caste system, varna system, caste mobility and caste and tribe.
- ❖ To provide the brief introduction about rise of anthropology in India and knowledge about tribe, caste continuum and tribal identity issues.

#### Syllabus

##### 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.
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.
6. Karve I. (1961). *Hindu Society: An Interpretation*. Poona : Deccan College
7. Guha BS. (1931). The racial attributes of people of India. In: *Census of India, 1931, vol I, Part III (BPO, Simla)*
8. Trautmann TR (2011). *India: Brief history of Civilization*. Oxford University Press : Delhi
9. Vidyarthi LP and Rai BK. (1976). *The tribal culture of India*. Concept Publishing Co, Delhi.
10. Haddon AC. (1929). *Races of man*. Cambridge University, London.
11. Kapoor A.K. (1992). *Genetic Diversity among Himalayan Human Populations*. M/S Vinod Publishers, Jammu
12. Majumdar DN. (1901). *Races and Culture of India*. Asia Publishing House, Bombay
13. Dube SC. (1992). *Indian Society*. National Book Trust, India : New Delhi.
14. Dumont L. (1980). *Homo Hierachicus*. University of Chicagon Press.
15. Guha B.S. (1931). The racial attributes of people of India. In : *Census of India, 1931, vol I, Part III (BPO, Simla)*

16. Malhotra K.C. (1978). Morphological Composition of people of India. J. Human Evolution.

### Course Outcomes

- This paper will strengthen the subject matter and will enhance the basic knowledge about the Indian anthropology to the undergraduate students.
- ❖ The paper will be given the knowledge of society and culture and will be rendered the knowledge of various social and cultural norms and values of the society.
- ❖ It will provide knowledge to make theoretical understanding to undergraduate students regarding origin, history and development of the Indian Anthropology.
- ❖ This paper will be increased the basic knowledge of social institutions and importance of culture.
- ❖ The students will be understood the concept of social problems, like exploitation and deprivation.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

- ❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. VI Semester**  
**AAUFLT14/ ASUFLT14: Practical on Indian Anthropology**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUFLT14/ ASUFLT14	-	-	2	4 hours	30	70	100	2

**Course Objectives**

- ❖ To provide the concept of ethnography and render the knowledge about ethnography writings based on tribes.
- ❖ To provide the knowledge about various cultural traits and variables.
- ❖ To conveying the basic level of knowledge and fostering conceptual frame work of review of literature.

**Syllabus**

This paper will be ensured the knowledge of caste, religion and tribes of rural population.

1. Identify various traits/variables which can be used in racial classification and comment on its relevance.
2. Review a book/edited volume on Indian social structure such as caste, religion, tribe or rural population and give its salient features.
3. Explore the biological diversity of any population group considering a minimum of five genetic traits.
4. Highlight the contributions of any two contemporary Indian anthropologists.

**Suggested readings:**

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
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### Course Outcomes

- ❖ This paper will be enabled to understanding various traits and variables of the society.
- ❖ This paper will be increased the knowledge about how to explore the biological diversity.

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	P O2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

- ❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

**B.A./B.Sc. VI Semester**

**AAUFTD3/ ASUFTD3: ??????????????????????**

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUFTD3/ ASUFTD3	3	1	-	4 hours	30	70	100	4

**Course Objectives**

**Syllabus**

**Suggested readings:**

**Course Outcomes**

**Course Outcomes and their mapping with Programme Outcomes:**

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly



**B.A./B.Sc. VI Semester**  
**AAUFLD3/ ASUFLD3: ????????????????**

<b>Sub Code</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Duration</b>	<b>IA</b>	<b>ESE</b>	<b>Total</b>	<b>Credits</b>
<b>AAUFLD3/ ASUFLD3</b>	-	-	2	4 hours	30	70	100	2

**Course Objectives**

**Syllabus**

**Suggested readings:**

**Course Outcomes**

**Course Outcomes and their mapping with Programme Outcomes:**

<b>CO</b>	<b>PO</b>												<b>PSO</b>		
	<b>PO 1</b>	<b>P O2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO 9</b>	<b>PO 10</b>	<b>PO 11</b>	<b>PO 12</b>	<b>PS O1</b>	<b>PS O2</b>	<b>PS O3</b>
<b>CO1</b>	3	2	2	1	1							3	3	3	3
<b>CO2</b>	3	2	3	2	1							3	3	3	3
<b>CO3</b>	3	3	3	3	2							3	3	3	2
<b>CO4</b>	3	3	3	3	3							3	3	3	2
<b>CO5</b>	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Sightly; 2-Moderately; 3-Strongly

## B.A./B.Sc. VI Semester

### AAUFLF1/ ASUFLF1: Field work

Sub Code	L	T	P	Duration	IA	ESE	Total	Credits
AAUFLF1/ ASUFLF1	3	1	-	4 hours	30	70	100	4

### Course Objectives

### Syllabus

### Suggested readings:

### Course Outcomes

### Course Outcomes and their mapping with Programme Outcomes:

CO	PO												PSO		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	2	2	1	1							3	3	3	3
CO2	3	2	3	2	1							3	3	3	3
CO3	3	3	3	3	2							3	3	3	2
CO4	3	3	3	3	3							3	3	3	2
CO5	3	3	3	3	3							3	3	3	2

❖ Weightage: 1-Slightly; 2-Moderately; 3-Strongly