



**List of Courses Focus on Employability/ Entrepreneurship/  
Skill Development**

Department : **Anthropology and Tribal Development**

Program Name : **B.A/ B.Sc.**

Academic Year : **2017-18**

**List of Courses Focus on Employability/ Entrepreneurship/  
Skill Development**

Sr. No.	Course Code	Name of the Course
1.	ANT-B301	Basics of Human Genetics
2.	ANT-B302	Applied Anthropology
3.	ANT-B303	Practical in Serology and Human Genetics
4.	ANT-B502	Research Methodology
5.	ANT-B601	Basis of Population Studies



**B.A./B.Sc. III<sup>rd</sup> Semester**

<b>SEMESTER - III</b>					
<b>Code</b>	<b>Subjects</b>	<b>End Semester Exam</b>	<b>Internal Assessment</b>	<b>Total</b>	<b>Credits</b>
ANT-B301	Basics of Human Genetics	30	20	50	2
ANT-B302	Applied Anthropology	30	20	50	2
ANT-B303	Practical in Serology and Human Genetics	30	20	50	2
<b>TOTAL</b>		<b>90</b>	<b>60</b>	<b>150</b>	<b>6</b>

**B.A/B.Sc. V<sup>th</sup> Semester**

<b>SEMESTER - V</b>					
<b>Code</b>	<b>Subjects</b>	<b>End Semester Exam</b>	<b>Internal Assessment</b>	<b>Total</b>	<b>Credits</b>
ANT-B501	Forensic Anthropology And Criminology	30	20	50	4
ANT-B502	Research Methodology	30	20	50	4
ANT-B503	Human Biology and Medical Genetics	30	20	50	4
ANT-B504	Sports and Nutritional Anthropology	30	20	50	4
ANT-B505	Practicals in Forensic Anthropology	30	20	50	2
ANT-B506	Practicals in Nutritional Anthropology	30	20	50	2
<b>TOTAL</b>		<b>180</b>	<b>120</b>	<b>300</b>	<b>20</b>



**B.A./B.Sc. VI<sup>th</sup> Semester**

<b>SEMESTER -VI</b>					
<b>Code</b>	<b>Subjects</b>	<b>End Semester Exam</b>	<b>Internal Assessment</b>	<b>Total</b>	<b>Credits</b>
ANT- B601	Basics of Population Studies	30	20	50	4
ANT- B602	Ethnography of Tribes of Chhattisgarh	30	20	50	4
ANT- B603	Fundamentals of Anthropological Thought	30	20	50	4
ANT- B604	Medical Anthropology	30	20	50	2
ANT- B605	Practical in General Field Work Techniques	30	20	50	2
ANT- B606	Field Work Report	90**	60*	150	4
	<b>TOTAL</b>	<b>300</b>	<b>100</b>	<b>400</b>	<b>20</b>

\*Seminar, Review of Literature and Viva

\*\*Report + Viva-Voce (based on Field Work)



**B.A./B.Sc. III<sup>rd</sup> Semester**

**Course Credit: 2**

**Paper Code: ANT-B301**

**Full Marks: 50**

**Basics of Human Genetics**

**(30+20)**

**Unit I:** Human Genetics: Meaning and Scope; Karyotyping; Structure and function of DNA and RNA.

**Unit II:** Mendel's Law and its application to man; Pattern of inheritance of autosomal, sex-linked traits; Chromosome abnormalities in Man: numerical and structural

**Unit III:** Genetic traits: ABO blood group system, Rh System, Sickle Cell Anaemia.

**Unit IV:** Genetic Polymorphism: Balanced and Transient

**Unit V:** Application of Human Genetics: Medico-legal application, Pre-natal diagnosis & Genetic Counselling

### Suggested Readings

1. Weiss, K. M. 1993. Genetic variation and human disease: Principles and evolutionary approaches. Cambridge University Press, Cambridge.
2. Ember C. R., Ember M., Peregrine P. N (2007). Anthropology (Twelfth Edition). Dorling Kindersley (India) Pvt. Ltd. Pearson.
3. Indrani Basu Roy (2012). Anthropology: The Study of Man. S. Chand & Company Ltd., Ram Nagar, New Delhi.
4. Das B.M. (2008) An outline of Physical Anthropology. Kitab Mahal, New Delhi
5. Jurmain, R.; H. Nelson, L. Kilgore and W. Trevathan. (2011) Essentials of Physical Anthropology, Eight Edition. Wordsworth Cengage Learning, USA.
6. Shukla B.R.K. & Rastogi, S. (1990) Physical Anthropology & Human Genetics: An Introduction. Plaka Prakashan. Delhi.
7. Harris H. Human Biochemical Genetics. Cambridge University Press. 2010.
8. Reddy VR. Current Trends in Human Genetics and Physical Anthropology. Dr (Mrs) V. Indira, Vidyanagar, Tirupati, Andhra Pradesh, India. 2012.
9. Jobling, MA Hurler, M and Tyler-Smith, C. Human Evolutionary Genetics, Origins, Peoples and Disease. Garland Science, New York, 2004.
10. Strachan, T and Read, AP. Human Molecular Genetics. Garland Publishing Inc, New York, 2003.
11. Mange EJ and Mange AP. Basic Human Genetics. Sinauer Associates Inc.
12. Crawford, M. (Ed). Anthropological Genetics. Cambridge University Press. 2006.
13. Vogel, F and Motulsky, G. 1998. Human genetics: Problems & Approaches. Springer-Verlag Berlin. 2010.
14. Kothari Mehta Roychoudary. Essentials of Human Genetics. University Press, India.



**B.A./B.Sc. III<sup>rd</sup> Semester**

**Course Credit: 2**

**Paper Code: ANT-B302**

**Full Marks: 50**

**Applied Anthropology**

**(30+20)**

- Unit I:** Meaning and scope of Applied Anthropology: Applied Anthropology versus Action Anthropology and Development Anthropology.
- Unit II:** Major problems of tribes in India: Indebtedness, Land Alienation, Drinking, Health & Nutrition.
- Unit III:** Tribal Development Agencies: Tribal development planning and administration in India, Role of Social Worker, Voluntary organization and Christian Missionaries in Tribal Development.
- Unit IV:** Applied Physical Anthropology: Meaning and Scope, Application of Physical Anthropology in Sports & Industry, Medicine and Occupational Health;
- Unit V:** Globalization: Meaning and concept; Impact of Globalization on tribal communities.

### Suggested Readings

1. Hariland Prins, Walrath and De Bride "Introduction to Anthropology"
2. L.P. Vidyarthi. Applied Anthropology in India: Principles Problems and Case Studies.
3. Aaron Podolefsky and Peter J Brown. (1989) Applying Anthropology. An Introductory Reader. Mayfield Publishing Company, California.
4. Johnnetta B Cole. (1982) Anthropology for the Eighties. Introductory Readings. Collier Macmillan Publishers, London.
5. Whitten P., Hunter D.E.K. (1990) Anthropology Contemporary Perspectives. (Sixth Edition).
6. Aaron Podolefsky and Peter J Brown (1997) Applying Cultural Anthropology: An Introductory Reader (Third Edition). Mayfield Publishing Company, California.



**B.A./B.Sc. III<sup>rd</sup> Semester**

**Course Credit: 2**

**Paper Code: ANT-B303**

**Full Marks: 50**

**Practical in Serology and Human Genetics**

**(30+20)**

**Unit I:** Identification of Blood Group System in Human Beings: ABO and Rh Blood group system.

**Unit II:** Identification of sickle cell test status of the given subjects.

**Unit III:** Estimation of Haemoglobin content of given subject using Sahlis method.

**Unit IV:** Method of Identification of colour-blindness status of the given subjects.

**Unit V:** Method of Identification of taster or non-taster status of the given subjects using PTC taste sensitivity test

### Practical Record

### Viva Voce

Note: The students are to perform the serological and bio-chemical tests on at least three subjects and record the results. They are to be familiar with details of each experiment such as aim of the experiment, apparatus required, chemicals needed, procedure, precaution and results of the experiment.

### Suggested Readings

1. Bhasin MK and Chahal. (1996) A Laboratory Manual for Human Blood Analysis. Kamla Raj Enterprises. Gali Bari Paharwali, Chawri Bazar, Delhi.
2. Harris H. (2010) Human Biolochemical Genetics. Cambridge University Press.
3. Strachan, T and Read, AP. (2003) Human Molecular Genetics. Garland Publishing Inc, New York.
4. Templeton AR. (2006) Population Genetics and Microevolutionary Theory. John Wiley & Sons, Inc., Hoboken, New Jersey.
5. Relethford JH. (2012) Human Population Genetics. A John Wiley & Sons, Inc., Publication.
6. Gaur A.S. and Gaur S. S. (2009) Statistical Methods for Practice and Research. SAGE Response, New Delhi.
7. Wilson K. and Walker J. Principles and Techniques of Biochemistry and Molecular Biology (7<sup>th</sup> Edition). Cambridge University Press.
8. Bhasin M.K., Nath S., Sehgal. (2007) Human Blood Analysis. Kamla Raj Enterprises, Delhi, India.
9. Singh I.P. and Bhasin M.K. (2006) A Manual of Biological Anthropology. Kamla-Raj Enterprises, Delhi, India.





**B.A./B.Sc. V<sup>th</sup> Semester**

**Course Credit: 4**

**Paper Code: ANT-B502**

**Full Marks: 50**

**Research Methodology**

**(30+20)**

- Unit I:** Introduction to Research Methodology: Meaning, objectives and types of research; Methodological Approaches in Anthropology: Holistic, Synchronic and Diachronic, Emic and Etic.
- Unit II:** Research Design: Meaning, Types: Exploratory, Descriptive, Experimental and Evaluative studies
- Unit III:** Different types of sampling Design; Census and Sample Survey.
- Unit IV:** Types of Data – Primary and Secondary data, Qualitative and Quantitative data; Techniques of Data Collection – Questionnaire - Interview Schedule; Methods of Study: Case Study, Observation, Genealogy, Life History.
- Unit V:** Interpretation of Data and Report Writing: Structure of a Research Report; Research article; References; Analysis of qualitative and Quantitative data.

### Suggested Readings

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



**B.A./B.Sc. VI<sup>th</sup> Semester**

**Course Credit: 4**

**Paper Code: ANT-B601**

**Full Marks: 50**

**Basics of Population Studies**

**(30+20)**

- Unit I:** Population Studies: Nature and Scope, Major Theories on Population Studies.
- Unit II:** Sources of Population Data: Census, Vital Registration System: Sample Survey, NFHS.
- Unit III:** World Population; India Population; Causes for rapid population growth, Demographic Transition, Decadal Population Growth in India, Population problems in India.
- Unit IV:** Population Structure and its Characteristics: Age-Sex structure, Sex-Ratio, Marital Status, Literacy, Religion, and Occupation.
- Unit V:** Fertility: Basic measures and differentials; Mortality: Measures and differentials; Migration, India's Population Policy

### Suggested Readings

1. Srinivastava, O. S. Demography.
2. Visaria, Pravin. Differentials and Determinants of Fertility.
3. Spiegelman, M. Introduction to Demography.
4. Cox P. R. (2008) Demography (Fifth Edition). Cambridge University Press.
5. Bhende A. A., Kanitkar T. (2010) Principles of Population Studies. Himalaya Publishing House, Pvt. Ltd.
6. Mathur R. N. Population analysis and Studies.
7. Barclay G. W. Techniques of Population Analysis.
8. Bouge Donald, J. W. Principles of Demography.
9. Bhende A. T., Kanitkar. Principles of Population Studies.
10. Raj Hans. Fundamentals of Demography.
11. Hauser P. and Duncan D. The Study of Population.
12. Sinha, V. C. and Zacharia E. Elements of Demography.
13. Park D. Preventive and Social Medicine.