



# VISVA-BHARATI

## DEPARTMENT OF ANTHROPOLOGY

### Ph.D. COURSEWORK IN ANTHROPOLOGY

2021

**Total no. of Semester: 01, Total no. of Papers: 03, Total Marks: 300, Total Credits: 24**

#### **Paper I: Research Methodology**

*Full Marks=100 (8 credit)*

*Written=80*

*Continual Assessment=20*

**UNIT I:** Research Ethics- Theory and Principles, Framework for ethical analysis, Ethics in anthropological research.

#### **Recommended Readings**

1. Addie S, Hackmann M, Choi K, Wizemann T, Beachy SH. An Examination of Emerging Bioethical Issues in Biomedical Research. 2020. National Academic Press.
2. Hedgecoe A. Trust in the Systems: Research Ethics Committees and the Regulation of Biomedical Research. 2020. Manchester University Press.
3. Zaner RM. A Critical Examination of Ethics in Health Care and Biomedical Research: Voices and Visions. 2015. Springer.
4. Lahman MKE. Ethics in Social Science Research: Becoming Culturally Responsive. 2017. SAGE Publications Inc.
5. Bos J, Hoeneveld F, Steenbergen N. Research Ethics for the Students of Social Sciences. 2020. Springer.

**UNIT II:** Qualitative Approach-Definition, objectives and types of Research. Criteria of good research. Formulation of research problem, research designs.

#### **Recommended Readings**

1. Bernard HR. Research Methods in Anthropology. 2008. Rawat Publications
2. Young PV. Scientific social surveys and research. 2010. PHI Learning Pvt. Ltd.
3. Puri S, Castillo DA. Theorizing Fieldwork in the Humanities: Methods, Reflections and Approaches to the Global South. 2017. Palgrave MacMillan.
4. Lapante J, Gandsman A, Scobie W. Search after Method: Sensing, Moving and Imagining in Anthropological Fieldwork. 2020. Barghahn Books.
5. Robben ACGM, Sluka JA. Ethnographic Fieldwork: An Anthropological Reader. 2011. Wiley-Blackwell.

**UNIT III:** Quantitative Approach-Heritability, GWAS, GCTA, Different methods of study – Cross-sectional, Longitudinal, Mixed longitudinal, Linked longitudinal, Observational (Descriptive, Ecological, Case-control,

Cohort), Experimental (Randomized controlled trials, field trials, community trials), Biostatistics and its application, Central tendency, Measures of dispersion, Probability, Parametric and nonparametric test, Correlation, Regression, ANOVA, ANCOVA, MANOVA, ROC, Factor analysis, Metanalysis, Secular trend analysis, Time series analysis.

### **Recommended Readings**

1. Caballero A. Quantitative Genetics. 2020. Cambridge University Press.
2. Tsunoda T, Tanaka T, Nakamura Y. Genome Wide Association Studies. 2019. Springer.
3. Dennis DJ. SPSS Data Analysis for Univariate, Bivariate and Multivariate Statistics. 2018. Wiley.
4. Schmid CH, Stijnen T, White I. Handbook of Meta-Analysis. 2020. Chapman and Hall / CRC.
5. Zou KH, Liu A, Bandos AI, Ohno-Machado L, Statistical Evaluation of Diagnostic Performance: Topics in ROC Analysis. 2016. Chapman and Hall/CRC.

**UNIT IV:** Indexing and citation, h-Index, i<sup>10</sup>-Index, Citation score, Application of available software (s) in analysis of data

## **Paper II: Recent Advances in Anthropology**

*Full Marks=100 (8 credit)*

*Written=80*

*Continual Assessment=20*

**UNIT I:** Molecular Anthropology and Biomedical Research-Application of Biological Anthropology in the service of Mankind; Medical genetics: Meaning and scope; Application of Genetics in Medicine; Genetic Epidemiology with special reference to non-communicable diseases, Chromosome, DNA & RNA, Central dogma, Genetic polymorphism, SNP, HGP, HAPMAP; Techniques in molecular biology (concept and application)–Electrophoresis, PCR, RT PCR, DNA Finger printing, ELISA, Spectrophotometry, Chromatography, Genome sequencing, Protein sequencing, Nucleotide sequencing, Amino acid sequencing, Microarray, Basic concept and application-Genomics, Disease informatics, Genetic counselling; disease association, Haemoglobinopathies, HLA system and Immunogenetics, Metabolomics, Proteomics, Nutrigenomics, Public Health Genomics.

### **Recommended Readings:**

1. Allison LA. Fundamental Molecular Biology. 2021. Wiley-Blackwell.
2. Sameer AS, Banday MZ, Nissar S. Genetic Polymorphism and Cancer Susceptibility. 2021. Springer.
3. Hoffmann A, Clokie S. Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology. 2018. Cambridge University Press.
4. Ebomoyi EW. Public Health Genomics and International Wealth Creation. 2015. Idea Group USA.
5. Han X. Lipidomics: Comprehensive Mass Spectrometry of Lipids. 2016. Wiley.

**UNIT II:** Epidemiology and Public Health-Epidemiology – Theory and concept, Emerging fields of epidemiology – Nutritional, Environmental, Occupational, Descriptive, Clinical, Analytical, Experimental and Public health epidemiology, Epidemiological transition through time and space, Epidemiological functions with respect of NCDs – CVD, Diabetes, Cancer, COPD etc.

### **Recommended Readings**

1. Elmore JG, Wild D, Nelson HD. *Jekel's Epidemiology, Biostatistics, Preventive Medicine and Public Health*. 2020. Elsevier.
2. Aschengrau A, Seage GR. *Essentials of Epidemiology in Public Health*. 2018. Jones and Bartlett Publishers.
3. Prafrey PS, Bartlett BJ. *Clinical Epidemiology: Practice and Methods*. 2021. Humana.
4. Evangelou E. *Genetic Epidemiology: Methods and Protocols*. 2019. Humana.
5. Kim D. *New Horizons in Modelling and Simulation for Social Epidemiology and Public Health*. 2021. Wiley.

**UNIT III** History of Anthropological Thoughts: An Overview; Evolutionism: A critical Assessment of Classical Evolutionism and Neo-Evolutionism, Recent trends in Evolutionary Thoughts; Diffusionism: A critique on Diffusionistic Thoughts; Historical Particularism: F Boas; Functionalism and Structure-Functionalism: A Critical Review; f. Post Modernism and deconstruction theories in Anthropology; g. Recent trends in Psychological Anthropology; Culture Relativism

**UNIT IV** Concept of Development; Culture and Development; An overview of Plan Development in India; Problems of Tribal Development in India; Tribal Development programme in India –An overview; Development of Particularly Vulnerable Tribal Groups; Anthropological approaches to Development, Tribes and Forest dwellers Planning: Micro and Macro approaches.

#### **Recommended Readings:**

1. Barbara M. *Cultural Anthropology*. 2012. Pearson
2. Kotlak C. *Cultural Anthropology*. 2012. McGraw-Hill Education.
3. Upadhaya VS, Pandey G. *Social-cultural Anthropology*. 2017. Concept publishing company.
4. Felix. M. *Keesing Cultural Anthropology: The Science of Custom*. 1962. Rinehart.
5. Rao CNS. *Sociology: Principles of Sociology with an Introduction to sociological thought*. 2019. Vikas Publishing House Pvt. Ltd.

#### **Paper III: Literature Review**

*Full Marks=100 (8 credit)*

*Written=80*

*Continual Assessment=20*

Meaning of Thesis- Some basic dimensions and formality of submission- components of thesis and their importance.

Presentation and writing of synopsis

Writing the introduction-conducting review of literature- developing theoretical orientation and framing conceptual model-organizing research methodology chapter- drawing the summary and conclusion- writing implications and framing empirical model-citing the references and appendices.