



**Courses Focus on Employability/Entrepreneurship/Skill
Development Criteria**

Department : **Anthropology and Tribal Development**

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

Academic Year : **2019-20**

**Courses Focus on Employability/Entrepreneurship/Skill Development
Criteria**

Sr. No.	Course Code	Name of the Course
1.	LS/ANT/C-101P	Practical in Social Anthropology
2.	LS/ANT/C 305L	Tribes, Caste and Peasants: Indian Context
3.	LS/ANT/C 306L	Human Ecology: Biological & Cultural dimensions
4.	LS/ANT/C 306P	Practical in Human Ecology
5.	LS/ANT/C 307P	Practical on Biological Diversity in Human Populations
6.	LS/ANT/C 410L	Research Methods
7.	LS/ANT/C 411L	Practical in Research Methods
8.	LS/ANT/GE 401L	Research Methodology
9.	LS/ANT/GE-401P	Practical Based on GE-4
10.	LS/ANT/C 511L	Human Population Genetics
11.	LS/ANT/C 613L	Applied Biological Anthropology

Dilankantho

विभागाध्यक्ष/H.O.D.

मानव विज्ञान एवं जनजातीय विकास विभाग
Department of Anthropology & T.D.
गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)
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Scheme and Syllabus

Semester	Course Opted	Course Code	Name of the course	Credit	Hour / week
I	Core-1	LS/ANT/C-101L	Introduction to Socio-cultural Anthropology	4	4
	Core -1 Practical	LS/ANT/C-101P	Practical in Social Anthropology	2	4
	Core -2	LS/ANT/C-102L	Introduction to Biological Anthropology	4	4
	Core -2 Practical	LS/ANT/C-102P	Practical in Biological Anthropology	2	4
	Generic Elective -1 (GE- IA) ₁	LS/ANT/GE-101P	Basics of Biological Anthropology	4	4
	Generic Elective - Practical	LS/ANT/GE-101L	Practical based on GE-1	2	4
	Ability Enhancement Compulsory Course (AECC)	LS/ANT/AEE C-101	English Communication / MIL (Hindi Communication)	4	4
	ECA	LS/ANT/ECA -101	ECA-Extracurricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachhta Abhiyan/ vocational Training/ Sports/ others	2	(2)
TOTAL				24	28
II	Core-3	LS/ANT/C-203L	Introduction to Archaeological Anthropology	4	4
	Core -3 Practical	LS/ANT/C-203P	Practical on Archaeological Anthropology	2	4
	Core -4	LS/ANT/C-204L	Fundamentals of Human Origin & Evolution	4	4
	Core -4 Practical	LS/ANT/CP-204P	Practical on Human Origin & Evolution	2	4
	Generic Elective -	LS/ANT/GE-201L	Social Cultural Anthropology: Theoretical	4	4

Courses Focus on Employability/Entrepreneurship/Skill Development Criteria -

I (1.1.3)



	2 ₁ (GE-IB)		Perspective		
	Generic Elective - Practical	LS/ANT/GE-201P	Practical based on GE-2	2	4
	Ability Enhancement Compulsory Course (AECC)	LS/ANT/AEE C-201/ES	Environmental Science	4	4
	ECA	LS/ANT/ECA-201	ECA-Extracurricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachhta Abhiyan/ vocational Training/ Sports/ others	2	(2)
Total				24	28

*Papers are to be taken from any of the following departments.					
For B.Sc.			For BA		
English, Hindi, Economics, Political Science, Journalism and Mass Communication.			Botany, Chemistry, Forensic Science, Zoology, Biotechnology		
SUMMER Internship: 15 days (optional)			Swayam/Swachhta Abhiyan / NSS / Industrial/ others		100
III	Core-5	LS/ANT/C-305L	Tribes, Caste and Peasants: Indian Context	4	4
	Core -5 Practical	LS/ANT/C-305P	Practical in Tribes, Caste and Peasants: Indian Context	2	4
	Core -6	LS/ANT/C-306L	Human Ecology: Biological & Cultural dimensions	4	4
	Core -6 Practical	LS/ANT/C-306P	Practical in Human Ecology	2	4
	Core - 7	LS/ANT/C-307L	Biological Diversity in Human Populations	4	4
	Core - 7 Practical	LS/ANT/C-307P	Practical on Biological Diversity in Human Populations	2	4
	Generic Elective -32 (GEII-A)	LS/ANT/GE-301L	Human Ecology: Biological & Cultural dimensions	4	4



	Generic Elective - Practical	LS/ANT/GE-301L	Practical based on GE-3	2	4
	Skill Enhancement Course (SEC - 1)	LS/ANT/SEC-301	To be chosen from available SEC papers [^]	4	2 (4)
Total				28	34
IV	Core-8	LS/ANT/C-408L	Theories of Culture and Society	4	4
	Core -8 Practical	LS/ANT/C-408L	Practical on Culture and Society	2	4
	Core -9	LS/ANT/C-409L	Human Growth and Development	4	4
	Core -9 Practical	LS/ANT/C-409L	Practical on Human Growth and Development	2	4
	Core - 10	LS/ANT/C-410L	Research Methods	4	4
	Core -10 Practical	LS/ANT/C-411L	Practical in Research Methods	2	4
	Generic Elective -42 (GEII-B)	LS/ANT/GE-401L	Research Methodology	4	4
	Generic Elective - Practical	LS/ANT/GE-401P	Practical Based on GE-4	4	4
	Skill Enhancement Course (SEC -2)	LS/ANT/SEC-402	To be chosen from available SEC papers [^]	4*	2 (4)
TOTAL				28	34
SUMMER Internship: 15 days (optional)		Swayam/SwachhtaAbhiyan/ NSS / Industrial/ others		2	100
	Core-11	LS/ANT/C-511L	Human Population Genetics	4	4
	Core -11 Practical	LS/ANT/C-511P	Practical on Human Population Genetics	2	4
	Core -12	LS/ANT/C-512L	Anthropology in Practice	4	4
	Core -12	LS/ANT/C-	Practical on Anthropology	2	4

Courses Focus on Employability/Entrepreneurship/Skill Development Criteria -

I (1.1.3)



V	Practical	512P	in Practice		
	Discipline Specific Elective (DSE-1)	LS/ANT/DSE-501A (L)	To be chosen from available DSE papers*	4	4
	DSE-1 - Practical	LS/ANT/DSE-501A (P)	Practical based on DSE-1	2	4
	Discipline Specific Elective (DSE-2)	LS/ANT/DSE-502B (L)	To be chosen from available DSE papers*	4	4
	DSE-2 - Practical	LS/ANT/DSE-502B (P)	Practical based on DSE-2	2	4
TOTAL		24		32	
VI	Core-13	LS/ANT/C-613L	Applied Biological Anthropology	4	4
	Core -13 Practical	LS/ANT/C-613P	Practical on Applied Biological Anthropology	2	4
	Core -14	LS/ANT/C-614L	Indian Anthropology	4	4
	Core -14 Practical	LS/ANT/C-614P	Practical on Indian Anthropology	2	4
	Discipline Specific Elective (DSE-3)	LS/ANT/DSE-603A (L)	To be chosen from available DSE papers*	4	4
	DSE-3 - Practical	LS/ANT/DSE-603A (P)	Practical based on DSE-3	2	4
	Discipline Specific Elective (DSE-4) + DSE-4 – Practical Or Dissertation/ Project work followed by seminar	LS/ANT/PD		4+2=6 Or 5 +1=6	8
TOTAL				24	32
TOTAL CREDITS				152 + 4 (SI)	

*List of DSE papers is attached at the end



DEPARTMENT OF ANTHROPOLOGY & TRIBAL DEVELOPMENT GURU GHASIDAS

VISHWAVIDYALAYA, BILASPUR Chhattisgarh

OUTCOME OF THE UG HONORS SYLLABUS

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



- The students will demonstrate relevant generic skills and global competencies such as:
- Students will possess problem solving skills that are required to solve different
- types of Anthropology-related problems with well-defined solutions, and open-ended problems that may cross disciplinary-area boundaries.



B.A./B.Sc. Ist Semester

Core-1 Practical in Social - Cultural Anthropology

Paper Code:-LS/ANT/C-101P

2 Credits

Methods and Techniques of Social Anthropology: The practical will include the following techniques and methods in collection of data in Social Anthropology.

1. Observation
2. Interview
3. Questionnaire and Schedule
4. Case study
5. 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. 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.



B.A./B.Sc. IIIrd Semester

Tribes, Caste and Peasants: Indian Context

Paper Code: LS/ANT/C-305L Credit- 4

Unit I: Anthropological Concept of Tribe

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

Unit II: Tribes and Wider world.

- The history of tribal administration; Pre –Independence and Post Independence approach
- Constitutional safeguards; Fifth Schedule and Sixth Schedule
- Development Initiatives: PESA 1996, FRA 2006, R & R Act, 2013

Unit III: Caste in India

- Concept and Definition
- Features and Changes in Caste System
- Caste in Contemporary Indian: 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: social organization; economy and changes.

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: IIAS.
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



B.A./B.Sc. IIISemester

Core-6

Human Ecology: Biological & Cultural dimensions

Paper Code: LS/ANT/C-306LCredit- 4

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.

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B.A./B.Sc. IIISemester

Core-6 Practical in Human Ecology

Paper Code: LS/ANT/C-306PCredit-2

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.



B.A./B.Sc. IIISemester

Core-7 Practical on Biological Diversity in Human Populations

Paper Code: LS/ANT/C-307P

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



B.A./B.Sc. IV Semester

Core-10: Research Methods

Paper Code: LS/ANT/C-410L

Credit- 4

Unit I: 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 II: 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 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

Identify, define, and analyze ethical issues in the context of human subject research.
Issues of academic fraud and plagiarism, conflicts of interest, authorship and publication
Analysis and Writing Up

Unit V

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 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.

Emerson RM, Fretz RI and Shaw L. Writing Ethnographic Fieldnotes. Chicago, University of Chicago Press. 1995



Practical in Research Methods

Paper Code: LS/ANT/C-410PCredit- 2

Practical Credit- 2

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, and Free listing, pile sorting
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.



B.A./B.Sc. VSemester

Human Population Genetics

Paper Code: LS/ANT/C-511L

Credit- 4

Unit I. Essentials of Genetics

Landmarks in the history of genetics, principles in human genetics, Mendelian inheritance (single factor and multifactorial inheritance, polygenic inheritance), Non- Mendelian inheritance (multiple allelism, Co-dominance; sex linked, epistasis; penetrance and expressivity; Cytoplasmic inheritance).

Unit II. Ecological Genetics and Polymorphism

Phenotypic & genotypic polymorphisms, transient polymorphism, balanced polymorphisms,

Unit III: Hardy-Weinberg principle

Genotypic and allelic frequencies, assumptions of Hardy-Weinberg equilibrium, its applications and exceptions

Unit IV: Mechanism for dynamics in Gene Frequency

Mutation, selection (pattern and mechanism), Genetic drift (bottle neck and founder effect), Gene flow/migration, inbreeding (inbreeding co-efficient and its genetic consequences)

Unit V: Population structure and admixture in human populations

Random & non-random mating (positive and negative assortative mating), heritability, linkage disequilibrium, genetic markers utility of genetic markers in forensic, population and disease association studies, Epistasis.

Suggested Readings

1. Brooker R.J. (2012). Genetics: analysis & principles. The McGraw-Hill Companies, Inc 4th ed.
2. Cavalli-Sforza, L.L. and Bodmer, W.F (1971). The Genetics of Human Population. San Francisco: Freeman
3. Cooper DN and Kehrler-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. Hurler M. and Tyler-Smith C. (2004). *Human Evolutionary Genetics: Origins, Peoples & Disease*. GS. NY
7. Lewis R. (2009). *Human Genetics: Concepts and Applications* 9th 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 NJ



B.A./B.Sc. VI Semester

Applied Biological Anthropology

Paper Code: LS/ANT/C-613L

Credit- 4

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

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

UNIT-4

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

UNIT-5

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

Suggested Readings:

1. Bass W.M. (1971). Human Osteology: A Laboratory and Field manual of the Human Skeleton. Columbia: Special Publications Missouri Archaeological Society.
2. Black S. and Ferguson E. (2011). *Forensic Anthropology 2000 to 2010*. CRC Press, London.
3. Byers, S. N. (2008). *Forensic Anthropology*. Boston: Pearson Education LTD.
4. Gunn A. (2009) *Essential Forensic Biology* (2nd ed). Chichester: Wiley-Blackwell
5. Modi, R. B. J. P. (2013). *A Textbook of Medical Jurisprudence and Toxicology*. Elsevier.