

SHAHEED MAHENDRA KARMA VISHWAVIDYALAYA, BASTAR, JAGDALPUR
SESSION 2021-22

Syllabus of
M.A./M.Sc. ANTHROPOLOGY
2 Year/4 Semester Course – Choice Based Credit System
Under the Faculty of Life Science

For School of Studies in Anthropology and Tribal Studies, University Teaching Department and
Affiliated Colleges of Shaheed Mahendra Karma Vishwavidyalaya, Bastar, Jagdalpur

FIRST SEMESTER

	Paper No.	Title of Papers	Marks		Credit
			External	Internal**	
FIRST SEMESTER	I	Fundamentals of Social/Cultural Anthropology	80	20	4
	II	Fundamentals of Physical/Biological Anthropology	80	20	4
	III	Prehistoric Archaeology & Palaeo-Anthropology	80	20	4
	IV	Research Methods in Anthropology	80	20	4
	LC-I	Practicals in Craniology and Craniometry	80	20	2
	LC-II	Practicals in Osteology & Osteometry	80	20	2
	Total = 600			480	120

SECOND SEMESTER

	Paper No.	Title of Papers	Marks		Credit
			External	Internal**	
SECOND SEMESTER	I	Indian Archaeology	80	20	4
	II	Fundamentals of Human Genetics	80	20	4
	III	Medical Anthropology	80	20	4
	IV	Biostatistics and Computer Applications	80	20	4
	LC-I	Practicals in Archaeology	80	20	2
	LC-II	Compulsory Field Work	80	20	2
	Total = 600			480	120

THIRD SEMESTER

GROUP – A: PHYSICAL ANTHROPOLOGY

	Paper No.	Title of Papers	Marks		Credit
			External	Internal**	
THIRD SEMESTER	I	Applied Anthropology (Group A & B)	80	20	4
	II	Advanced Human Biology	80	20	4
	III	Human Growth & Nutrition	80	20	4
	IV	Molecular Genetics	80	20	4
	LC-I	Practicals in Applied Biological Anthropology	80	20	2
	LC-II	Practicals in Growth, Nutrition, Health and Physiology	80	20	2
	Total = 600			480	120

THIRD SEMESTER

GROUP – B: SOCIAL ANTHROPOLOGY

	Paper No.	Title of Papers	Marks		Credit
			External	Internal**	
THIRD SEMESTER	I	Applied Anthropology (Group A & B)	80	20	4

Registrar


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	II	Theory Methods in Social-Cultural Anthropology	80	20	4
	III	Indian Anthropology & Museology	80	20	4
	IV	Tribal Development	80	20	4
	LC-I	Practicals in Museology and Material Culture	80	20	2
	LC-II	Project Work	80	20	2
	Total = 600		480	120	20
FOURTH SEMESTER					
GROUP – A: PHYSICAL ANTHROPOLOGY					
FOURTH SEMESTER	Paper No.	Title of Papers	Marks		Credit
			External	Internal**	
	I	Medical Genetics	80	20	4
	II	Forensic Anthropology	80	20	4
	III	Dissertation (External)	200		8
	IV	Presentation /Viva-voce	200		4
	Total = 600		560	40	20
FOURTH SEMESTER					
GROUP – B: SOCIAL ANTHROPOLOGY					
FOURTH SEMESTER	Paper No.	Title of Papers	Marks		Credit
			External	Internal**	
	I	Disaster Management, Displacement & Rehabilitation	80	20	4
	II	Development Anthropology	80	20	4
	III	Dissertation (External)	200		8
	IV	Presentation/Viva-voce	200		4
	Total = 600		560	40	20
Grand Total Semester I+II+III+IV = 2400					

IMPORTANT NOTE

- *Each theory paper will have 5 Questions of equal marks. First question (Multiple choice type or short answer type) will be based on all units (complete syllabus) with no internal choice, whereas remaining questions will be unit wise having internal choice within each unit.
- **Each student will be evaluated continuously throughout the semester. There will be class test based on each theory paper. The full marks will be 10 for each paper. There will be seminar of 10 marks.
- ***A student of IV semester will have to submit a community-based project work. The valuation of the project work will be carried out by an external examiner and the faculty members of the department.


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M.A./M.Sc. ANTHROPOLOGY
SEMESTER - I
PAPER - I

FUNDAMENTALS OF SOCIAL/CULTURAL ANTHROPOLOGY

Max. Marks - 80

Min. Marks - 27

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, whereas remaining question will be unit wise with internal choice.

UNIT - I

Anthropology and its relationship with other Social Sciences, Life Sciences, Medical Science & Humanities

Social Cultural Anthropology: Meaning, Scope and its main branches

Some basic concepts: Culture, Civilization, Society, Community, Social Institutions and Groups.

UNIT - II

Marriage: Concepts, A universal definition of Marriage, Typology and functions of Marriage.

Family: Concepts and functions, Origin and existing types of family.

Kinship: Kinship system and its importance in Social structure.

Kinship terminology: Classificatory and Descriptive.

UNIT - III

Economic organization: Concepts of Property, Concept of Primitive communism.

Stages of economy: collection, hunting, fishing, and pastoralism.

Cultivation: Shifting cultivation and Settled cultivation.

System of trade exchange: reciprocity, redistribution, barter and markets.

Primitive Law and Political organization: Concept of authority and leadership

UNIT - IV

Religion: Meaning and definition.

Anthropological approaches to the study of religion: Evolutionary, Psychological, Functional and Structural.

Animatism, Totemism and Bongaism.

Magic: Meaning, definition, function and types, Religion, Magic and Science.

Recommended Readings:

1. Barnouw, V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
2. Holmes, L. D. Anthropology: An Introduction, The Ronald Press Company, New York.
3. Sharma and Sharma. 1997. Anthropology, Atlantic Publishers and Distributors, New Delhi.
4. Hunter & Whitten. The Study of Cultural Anthropology, Harper & row Publishers, New York.
5. Moore, A. 1978. Cultural Anthropology, Harper & row Publishers, New York.
6. Kaplan, D. & Manners, R. A. Culture Theory, Prentice Hall of India Private Ltd., New Delhi.
7. Herskovitz, M. J. Cultural Anthropology, Oxford & IBH Publishing Co., New Delhi.
8. Mair, L. 1965. An Introduction to Social Anthropology, Clarendon Press, Oxford.
9. Majumdar, D.N. & Madan, T. 1986. An Introduction to Social Anthropology, National Publishing House, New Delhi.
10. Mishra, U. S. Samajik Sanskritik Manavshastra, Palka Prakashan, Delhi.

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11. Shrivastava, A. R. N. Samajik Manav Vigyan Vivechan (in Hindi), Madhya Pradesh Hindi Granth Academy, Bhopal.
12. Evans-Pritchard, Social Anthropology.
13. Honnigman, J. Handbook of Social and Cultural Anthropology.
14. Fox, Robin. Kinship and Marriage.
15. Sahlins & Service. Evolution and Culture. The University of Michigan Press, Ann Arbor.
16. Barth, F. Ethnic Group Boundaries.
17. Barnet, H.G. Innovation. The Basis of Culture Change.
18. Rogers E.M. & Shoe Maker, F.F. Communication of Innovation.
19. Rogers, E.M. Diffusion of Innovation.
20. Rad-cliffe Brown, A.R. Structure and Function in Primitive Society.
21. Harris, Marvin. Cultural Anthropology.
22. Malinowsky, B.K. Scientific Theory of Culture and Other Essay.
23. Foster, G.M. Tradition, Cultures and Impact of Technological Change.
24. Dalton, George. Tribal and Peasant Economics: Readings in Economic Anthropology.
25. Kluckhohn, C. Mirror for Man.
26. Herskovits, M.J. Man and His Works.



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M.A./M.Sc. ANTHROPOLOGY
SEMESTER - I
PAPER - II

FUNDAMENTALS OF PHYSICAL/BIOLOGICAL ANTHROPOLOGY

Max. Marks - 80

Min. Marks - 27

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, whereas remaining question will be unit wise with internal choice.

UNIT-I

History, Definition, Meaning and Scope of Physical Anthropology.
Relationship of Physical Anthropology with Physical, Biological and Medical Sciences.
History and Development of Physical Anthropology in India.
New Physical Anthropology.

UNIT-II

Theories of Organic Evolution: Lamarckism, Darwinism, Synthetic Theory.
Man's place in Animal Kingdom.
Primate behavior. (With reference to Higher Primates)

UNIT-III

Comparative anatomy of Man and Apes.
Hominid Evolution.
Erect posture and bipedalism.
Evolution of Teeth, Chin, Foot and Pelvis.

UNIT-IV

Biological concept of Race, Race formation, Criteria of Race.
Major races of the world.
Racial elements in Indian population.
Causes of human variation- Morphological, Serological and Genetic.

Recommended Readings:

1. Comas, J. 1960. Manual of Physical Anthropology, Springfield, Charles C. Thomas.
2. Sarkar, R. M. 1976. Fundamentals of Physical Anthropology. Blackie (India).
3. Das, B. M. 1985. Outlines of Physical Anthropology, Kitab Mahal, New Delhi.
4. Shrivastav, A. R. N. 1994. Sharirik Manav Vigyan (in Hindi), Gyandeepr Prakashan, Allahabad.
5. Barnouw, V. 1979. Anthropology: A General Introduction, The Dorsey Press, Illinois.
6. Hooton, E. A. Up from the Ape, The Macmillan Co., New York.
7. Lasker, G.B. and Tyzzer, R.N. Physical Anthropology, Holt Rinechart & Winston, New York.
8. Shukla, B.R.K. and Rastogi, S. Physical Anthropology and Human Genetics: An Introduction, Palka Prakashan, Delhi.
9. Buettner-Janusch, J. Origins of Man, Wiley Eastern Pvt. Ltd. New Delhi.
10. Montagu, M.F.A. The Concept of Race, The Free Press, New York.
11. Montagu, M.F.A. An Introduction to Physical Anthropology, Charles C Thomas, Springfield Illinois.

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12. Harrison, G.A., Weiner, J.S., Tanner, J.M. and Barnicot, N.A. Human Biology: An Introduction to Human Evolution, Variation And Growth, Clarendon Press, Oxford.
13. Ashley, Montague. Concept of Race.
14. Backer, P.T. & Weiner (eds.). Biology of Human Adaptability.
15. M. Ember and Ember. Anthropology.
16. Harrison, G.A. and Boyce, J. The Structure of Human Population.
17. Sarkar S.S. Aboriginal races of India.
18. Sahlins and Service. Evolution and Culture.
19. Simpson, G.G. The Meaning of Evolution.
20. Williams B.J. Evolution and Human Origin



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**M.A./M.Sc. ANTHROPOLOGY
SEMESTER - I
PAPER – III**

PREHISTORIC ARCHAEOLOGY AND PALAEO-ANTHROPOLOGY

Max. Marks - 80

Min. Marks - 27

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, whereas remaining question will be unit wise with internal choice.

UNIT – I

Introduction: Definition, Subject matter, Branches, Aims and Applications.

Framework of Archaeological Cultures.

Relationship with Other Branches of Anthropology, Earth Sciences, Physical sciences, Life Sciences and Social Sciences.

UNIT – II

Geological Time Scale.

Pleistocene Epoch: Glacial-interglacial; Pluvial-Inter-Pluvial Climatic Cycles, Impact on Cultural Development.

Climatic Markers: Moraines, Terraces, Sea-level Changes, loess, Soil, Dune & Fossils.

Tool Technology: Flaking (Primary & Secondary), Grinding and Polishing Techniques used during Stone Age.

Dating Techniques:

(a) Relative Dating: Stratigraphy, River Terraces, Raised Sea-Beaches, Typo-technology, Fluorine Dating, Pollen Dating.

(b) Absolute dating: Radio-active Carbon, Potassium-Argon, Uranium- Thorium, Dendrochronology, Thermoluminescence, Fission-Track & Obsidian Hydration.

UNIT – III

Lower Palaeolithic of Europe: Distribution, Chronology, Stratigraphy, Assemblage, Abbevillian, Acheulian, Associated Human Fossils .

Middle Palaeolithic of Europe: Distribution, Chronology, Stratigraphy, Assemblage, Traditions, Associated Human Fossils .

Upper Palaeolithic of Europe: Perigordian, Auregnasian, Solutrean, Magdalenian; Prehistoric Art (Home Art and Cave Art).

Mesolithic Culture of Europe: Azilean, Tardenoisean, Austerian, Maglemasean, Kitchen Midden, Campegnian.

UNIT – IV

Australopithecus Species: Discoveries, Distribution, Chronology, Salient features, Phylogeny.

Homo erectus: Discoveries, Distribution, Chronology, Salient features, Phylogeny.

Homo sapiens neanderthalensis: Discoveries, Distribution, Chronology, Salient features, Phylogeny.

Homo sapiens sapiens (Cro-Magnon, Chancelade, Grimaldi): Discoveries, Distribution, Chronology, Salient features, Phylogeny.

Recommended Readings:

1. Agrawal, D.P. & M.G. Yadava. 1995. Dating the human past.

2. Bhattacharya, D.K. 1977. Palaeolithic Europe.

3. Bordes, F. 1968. The Old Stone age. Weidenfeld and Nicolson.
4. Burkitt, M.C. 1969. Old Stone Age: Study of Palaeolithic Times.
5. Campbell, B. C. 1979. Humankind emerging, II edition.
6. Clark, W. E. L. 1964. The Fossil Evidence for Human Evolution, The University of Chicago Press, Chicago.
7. Coles, J. M. & E. S. Higgs. The Archaeology of early man. Faber and Faber.
8. Grazioli, P. Paleolithic Art.
9. Howell, W. Mankind in the making.
10. Johanson, D & E. Maitland. 1981. Lucy- The beginnings of humankind.
11. Knudson, S.J. 1978. Culture in retrospect: An introduction to Archaeology.
12. Oakley, K.P. 1972. Man the tool maker
13. Roe, Derek 1970. Prehistory: An introduction.
14. Sankalia, H.D. 1964. Stone age tools: their techniques, names and probable functions, Pune, Deccan College.
15. Sankalia, H.D. 1974. Prehistory and Protohistory of Early India and Pakistan.
16. Allchin and Allchin, 1982. The rise of civilization in India and Pakistan, Select Book Service Syndicate, New Delhi.
17. Zeuner, F.E. Pleistocene Period.
18. Agrawal, D.P. The Archaeology of India, Curzon Press.
19. Ashley, Montague. Physical Anthropology and Archaeology.
20. Barmown, Victor. Physical Anthropology and Archaeology, Illinois, The Dorse Press Home Wood.
21. Banerjee. Iron Age in India. Munshiram Manoharlal.
22. Brothwell D. & Higgs E. (ed.). Science in Archaeology. Thames and Hudson.
23. Budtzer, K.W. Environment and Archaeology.
24. Clark, D.L. Analytical Archaeology. Methuen and Co. Ltd.
25. Das, B.M. Outlines of Physical Anthropology. Kitab Mahal.
26. James, J. Hester, Introduction to Archaeology. Holt, Rinehart and Winston.
27. Michel, J.W., Dating Method in Archaeology. Seminar Press.
28. Sakalia, H.D., New Archaeology – Its Scope and Application to India, Ethnographic and Folk Culture Society.
29. Zeuner, F.E. Pleistocene Period. Hutchinson.



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M.A./M.Sc. ANTHROPOLOGY
SEMESTER - I
PAPER - IV
RESEARCH METHODS IN ANTHROPOLOGY

Max. Marks - 80

Min. Marks - 27

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, whereas remaining question will be unit wise with internal choice.

UNIT - I

Field work tradition in Anthropology: covering all branches of Anthropology to gain holistic perspective.

Social research and Social survey.

Hypothesis: Sources, characteristics, importance and types of hypothesis.

Methods: Logical, Historical and Scientific methods

Ethnographic method.

UNIT - II

Research design: Aims, objectives and types.

Techniques of data collection- Primary data collection: Observation, Questionnaire, Interview, Schedule, Case study, Audio-visual recording, Genealogy.

Secondary Data collection: Census, National Sample Survey, Models and Paradigms.

Data collection: Choice of Suitable Technique.

UNIT - III

Data: Definition and characteristics.

Types of Data: Geographical, Chronological, Qualitative and Quantitative, Nominal, Ordinal, Ratio and Interval.

Sources of Data: Primary and Secondary sources.

Tabulation: General, Special purpose & Machine tabulation.

Analysis and Interpretation of data.

Preparation of report,

Graphic and Diagrammatic presentation of data.

UNIT - IV

Scope, utility and importance of statistics in Anthropology.

Sampling: Random and Non-random sampling

Measures of Central Tendency- Mean, Mode and Median.

Recommended Readings:

1. Goode & Hatt. Methods in Social Research.
2. Young, P. V. Scientific Social Surveys and Research.
3. Danda, Ajit. Research Methodology in Anthropology, Inter- India, New Delhi.
4. Gupta, S. P. Statistics Methods.
5. Elhance, D. N. Practical Problems in Statistics, Kitab Mahal, Allahabad.
6. Levin, J. Elementary Statistics in Social Research.
7. Sarin, S.S. and Balchandani, M.K. Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
8. Fernandes & Tondon, Participatory Research.
9. Fisher, Michael. Application in Computing for Social Anthropologists, London, Routledge.

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10. H. Russel. Bernard, Handbook of Methods in Cultural Anthropology. Altamira Press.
11. Kaplan, Abraham. The Conduct of Enquiry: Methodology for Behavioural Sciences.
12. Kassam & Mustafa, Participatory Research.
13. Madrigal, Lorena. Statistics for Anthropology.
14. Mukherjee, Neela. Participatory Rural Appraisal and Questionnaire Survey.
15. Pelto P.S. & Pelto G.H. Anthropological Research: the structure of inquiry. London, Cambridge University Press.
16. Renfrew, C. (ed.). The Explanation of Culture Change: Models in Prehistory. Duckworth.
17. Sankalia, H.D. Stone Age Tools, Families and Techniques. Pune, Deccan College.
18. Trigger, B.G. Beyond History the Methods of Prehistory. Holt, Rinehard and Winston.
19. Young, Pauline. Scientific Social Survey and Research.



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M.A./M.Sc. ANTHROPOLOGY
SEMESTER - I
LAB COURSE - I

PRACTICALS IN CRANIOLOGY AND CRANIOMETRY

Max. Marks - 80
Min. Marks - 27

Description of Human Skull and its importance in biological anthropology.
Craniology and Forensic science.

Following Craniometric measurements are to be taken on atleast 2 skulls.

Measurements

Maximum cranial length
Glabella-inion length
Nasion-inion length
Glabella-lambda length
Length of foramen magnum
Maximum Cranial breadth
Minimum frontal breadth
Maximum frontal breadth
Bi-auricular breadth
Greatest occipital breadth
Bi- mastoid breadth
Minimum breadth of skull
Breadth of foramen magnum
Basion bregma height
Auriculo bregmatic height
Calvarial height
Occipital chord
Outer bi-orbital breadth
Inner bi-orbital breadth
Bi-orbital breadth
Bizygomatic breadth
Bimaxillary breadth
Morphological facial height
Upper facial height
Inter orbital breadth
Orbital breadth, Orbital height
Nasal breadth
Nasal height
Length of nasal bone
Maxillo-alveolar length
Maxillo alveolar breadth
Palatal length
Palatal breadth
Palatal height
Bi-condylar breadth
Bigonial breadth
Symphysial height
Height of ramus.

Angles

Total profile angle
Nasal profile angle
Profile angle of nasal roof


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Metopic angle, inclination angle of foramen magnum
Calvarial base angle
Bregma angle of Schwalbe
Mandibular angle.

Index

Cranial index
Facial index
Nasal index

Measurement on Craniograph

(At least on 2 skulls)

Calvarial height
Lambda calvarial height
Frontal perpendicular
Parietal perpendicular
Occipital perpendicular.

Recommended Readings:

- 1) Singh, S.P. Kinanthropometry
- 2) Ashley Montagu, M.F.A. Hand Book of Anthropometry. Charles. C. Thomas. Illinois.
- 3) Singh, I.P. Bhasin, M.K. Anthropometry. Bharti Bhawan, New Delhi.
- 4) Weiner, J.S. & Lourie. J.A. Human Biology: A Guide to Field Methods. I.B.P. Hand Book No. 9 Blackwell Scientific Publication, Oxford.
- 5) Mitra, M. 1990. Prayogik Manav Vigyan- Bhag -2. Madhya Pradesh Hindi Granth Academy (in Hindi).
- 6) Mitra, M. & Chaube, R. 2004. Prayogik Manav Vigyan (Sharirik) Bhag -2. Madhya Pradesh Hindi Granth Academy (in Hindi).



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SESSION 2021-22**

**M.A./M.Sc. ANTHROPOLOGY
SEMESTER - I
LAB COURSE - II**

PRACTICALS IN PRACTICALS IN OSTEOLOGY AND OSTEOMETRY

Max. Marks - 80

Min. Marks - 27

Description of Human skeletal bones and its importance in biological anthropology, Osteology and forensic science.

Following **Osteometric** measurements are to be taken on bones.

CLAVICLE

Measurements

Maximum length

Vertical diameter in the middle

Sagittal diameter in middle

Girth in the middle

Breadths of curvature of shaft

Angles

Inner and outer

Indices

Caliber index

Cross section index

SCAPULA

Measurements

Anatomical breadth

Anatomical length

Length of Cranial border

Length of axillary border

Projective length of spine

Anatomical breadth of supra-spinous fossa

Anatomical breadth of infraspinous fossa

Length of Glenoid fossa

Breadth of glenoid fossa

Projective breadth of supraspinous fossa

Projective breadth of infraspinous fossa

Angles

Supraspinous angle

Infraspinous angle

Breadth-Length angle

Axillo-Spinal angle

Vertebral border angle

Indices

Scapular index

Supra spinal index

Infra spinal index

Marginal index

Length breadth index of glenoid fossa

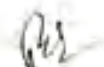
HUMERUS

Measurements

Maximum length

Breadth of proximal epiphysis

Breadth of distal epiphysis



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Least girth of shaft
Maximum transverse diameter of head
Maximum Vertical diameter of Head
Maximum Diameter in middle
Girth in middle of shaft
Minimum diameter in middle

Angles

Torsion angle
Capito-diaphysial angle
Condylo-diaphysial angle

Indices

Caliber index
Cross-section index of shaft
Cross-section index of head

RADIUS

Measurements

Maximum length
Physiological length
Least girth of shaft
Transverse diameter of shaft
Sagittal diameter of shaft

Angles

Collo-diaphysial angle
Torsion angle

Indices

Caliber index
Cross section index of shaft
Curvature index

ULNA

Measurements

Maximum length
Physiological length
Least girth of shaft
Breadth of olecranon
Height of olecranon

Angles

Olecranon- coronoid angle
Joint axis angle

Indices

Caliber index
Cross-section index of shaft
Curvature index

FEMUR

Measurements

Maximum length
Trochanteric length
Sagittal diameter of middle of shaft
Physiological length
Transverse diameter of middle shaft
Girth of middle of shaft

Angles

Torsion angle,
Collo-diaphysial angle



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Condylo diaphysial angle

Recommended Readings:

- 1) Singh, S.P. Kinanthropometry
- 2) Ashley Montagu, M.F.A. Hand Book of Anthropometry. Charles. C. Thomas. Illinois.
- 3) Singh, I.P. Bhasin, M.K. Anthropometry. Bharti Bhawan. New Delhi.
- 4) Weiner, J.S. & Lourie. J.A. Human Biology: A Guide to Field Methods. I.B.P. Hand Book No. 9 Blackwell Scientific Publication, Oxford.
- 5) Mitra, M. 1990. Prayogik Manav Vigyan- Bhag -2. Madhya Pradesh Hindi Granth Academy (in Hindi).
- 6) Mitra, M. & Chaube, R. 2004. Prayogik Manav Vigyan (Sharirik) Bhag -2. Madhya Pradesh Hindi Granth Academy (in Hindi).



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SESSION 2021-22**

**M.A./M.Sc. ANTHROPOLOGY
SEMESTER - II
PAPER - I
INDIAN ARCHAEOLOGY**

**Max. Marks - 80
Min. Marks - 27**

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, whereas remaining question will be unit wise with internal choice.

UNIT-I

Historical development of Prehistoric Archeology,
Framework of Archaeological Cultures
Terminology Issues
Exploitation and Excavation Techniques.

UNIT-II

Lower Paleolithic cultures of India: Distribution, Stratigraphy, Chronology, Tool Kit, Soanian & Madrasian Traditions, Development & Associated fossils.
Middle Paleolithic Cultures of India: Distribution, Stratigraphy, Chronology, Tool Kit, Development & Associated fossils.
Upper Paleolithic Cultures of India: Distribution, Chronology, Assemblage, Art (Rock Art & Cave Art), Development

UNIT-III

Mesolithic Cultures of India: Discoveries, Chronology, Tool kit, Stratigraphy, Development, Lifeways, Burial Practices, Associated Flora and Fauna.
Neolithic Cultures of India: Neolithic Revolution, Discoveries, Chronology, Assemblage, Emergence of Human settlements, Regional Variations.

UNIT-IV

Chalcolithic Cultures of India: Distribution, Chronology, Assemblage, Traditions, Lifeways
Indus Civilization: Discoveries, Distribution, Chronology, Town-planning, Religion, Trade, Origin & Decay Theories.
Megalithic Culture of India: Distribution, Chronology, Assemblage, Types, Living Megalithic Traditions.

Recommended Readings:

1. Agrawal, D.P. The Archeology of India.
2. Allchin and Allchin, 1982. The Rise of Civilization in India and Pakistan, Select Book Service Syndicate, New Delhi.
3. Bhattacharya, D.K. 1987. Pre-historic Archaeology: A comparative study of human succession.
4. Bhattacharya, D.K. 1994. Outline of Indian Prehistory.
5. Pandey, J. N. 2000. Puratatva Vimarsh (in Hindi)
6. Misra, V. N. & M. S. Mate 1995. Indian Prehistory: 1964.
7. Choubey, R. Puratatvik Manavvignyan (in Hindi)
8. Sankalia, H. D. 1974. Pre and Protohistory of India and Pakistan.
9. Varma, R.K. & N. Varma, 2001. Puratatva Anushilan
10. Wheeler, R.F.M. 1959. Early India & Pakistan.


PRINCIPAL

Govt. Dattatraya Bahin Maharaj Vastu Sangrahalaya
JAGDALPUR

MA./M.Sc. ANTHROPOLOGY
SEMESTER - II
PAPER - II
FUNDAMENTALS OF HUMAN GENETICS

Max. Marks - 80
Min. Marks - 27

Important Note:

Each theory will have five questions of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, whereas remaining question will be unit wise with internal choice.

UNIT-I

History, Definition and Scope of Human Genetics.
Branches of Human Genetics.
Concept of Gene.
Elementary principles of Genetics.
Structure and function of DNA, RNA and Proteins.
Genetic code.

UNIT-II

Cell Division- Mitosis and Meiosis.
Mendelism. Application of Mendel's theory in man.
Methods of studying human heredity: Pedigree method, Twin method, Linkage Studies.

UNIT-III

Multiple alleles and blood groups
Inheritance of ABO, MN and Rh blood groups.
Compatible and Incompatible mating.
Concept of gene frequencies.

UNIT-IV

Autosomal Dominant and Recessive inheritance.
Sex-linked, Sex-limited and Sex-influenced inheritance.
Polygenic inheritance.

Recommended Readings:

1. Curt Stern. 1968. Principles of Human Genetics. Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1 (India).
2. Winchester, A. M. 1967. Genetics, Oxford & IBH Publishing Co.
3. Bhasin, V. 1994. People, Health and Disease: The Indian Scenario, Kamla- Raj Enterprises, Delhi.
4. Bhasin, M., K., Walter, H. and Danker-Hopfe, H. 1992. The Distribution of Genetical, Morphological and behavioural Traits among the Peoples of Indian Region, Kamla- Raj Enterprises, Delhi.
5. Bhamrah and Chaturvedi, A Text Book of Genetics.
6. Mange and Mange, Basic Human Genetics.
7. Rothwell, N.V., Human Genetics.
8. Harrison et al. Human Biology.
9. Ashley Montagu, Concept of Race.
10. Shukla, B.R.K. & Rastogi, S., Physical Anthropology and human Genetics.
11. Dalela and Verma, T Text Book of Genetics.

PRINCIPAL

**SHAHEED MAHENDRA KARMA VISHWAVIDYALAYA, BASTAR, JAGDALPUR
SESSION 2021-22**

12. Bodmer & Cavalli Sforza, Genetics, Evolution and Man,
13. King and Stansfield, A Dictionary of Genetics.
14. Brudette, W.J., Methodology in Human Genetics.
15. Yunis, J.J. (Ed.), Biochemical Methods in Red Cell Genetics.
16. Harris, H., Human Biochemical Genetics.



PRINCIPAL
Govt. Danteshwari Mahila Mahavidhyalaya
JAGDALPUR

M.A./M.Sc. ANTHROPOLOGY
SEMESTER - II
PAPER - III
MEDICAL ANTHROPOLOGY

Max. Marks - 80

Min. Marks - 27

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, whereas remaining question will be unit wise with internal choice.

UNIT - I

1. Meaning and scope, changing concepts of health and disease, of culture and lifestyle in relation to health and disease
2. Ethno medicine, magico-religious practices, indigenous medical systems and medical practitioner ethno botany
3. Medical system of Ayurved, Unani and Naturopathy.

UNIT- II

1. Epidemiology basic principles: epidemiology of common communicable and non-communicable diseases, Malaria, T.B., Leprosy, STD, Diabetes, Cancer and Cardiovascular diseases, mental health, National disease control programmes)

UNIT -III

1. Medical statistics measurement of morbidity and mortality rates incidence and other statistics.
2. Health promotion and health programmes, nutrition, RCH, family welfare, health education ageing (Peoples perspectives to be focused)
3. Health and environmental water pollution, air pollution, noise pollution.

UNIT -IV

1. National health policy, historical review, Health care delivery in india rural and urban, Response of the people.
2. Voluntary efforts in community health and development. Some case studies of community participation.
3. Role of Anthropology in Tribal Health.

Recommended Readings:

1. Medical Anthropology: Foster, George
2. Handbook of Medical Anthropology: Freeman, H.E. et al
3. Culture, Disease and Healing: Landy, D.
4. Culture, Health and Illness: Helman Cecil, Wright Bristol, 1985
5. Folk illness and Ethnomedicine: Banerjee B.G. and R. Jalota
6. Applied Anthropology in Medicine: Coudil, W.
7. Social Anthropology and Medicine: Loudon, J.B.
8. Doctors and Society: Madan T.N.
9. Forensic Anthropology: Steward T.D.
10. Crime and Detection: Symans, J.
11. Methods in Forensic Anthropology: Nicoles
12. Forensic Science and laboratory: Turner
13. Practical Finger printing: Bridges
14. Finger, Palm and Sole Prints: Chatterjee



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15. Methods in Forensic Science: Lundquist, F. and A.S. Curry
16. Modern Trends in Forensic Medicine: Ment
17. Anthropology Part-I: Jha and Baranwal
18. Harold Cummins and Charles Midlo. 1961. Finger Prints, Palms and Soles: An Introduction to Dermatoglyphics, Dover Publications, New York.
19. Medicine, Magic and Religion, Rivers, W.H.R.
20. The Cultural Frontiers of Health, Hasan, K.
21. Traditional Medicine and Health Care Coverage (WHO), Bannermann et al.
22. Folk and Modern Medicine, Kakar, D.N.
23. Asian Medical System, Leslie, C. (Ed.).
24. People's Health in People's Hand, Anti, A.H. & Bhatia
25. Women's Autonomy, Education and Reproductive Health, Jajeebhoy, S.
26. Ministry of Health and Family Welfare, National Health Policy
27. W.H.O., World Health Reports.
28. National Institute of Health & Family Welfare, Maternal and Child Welfare
29. Health, Culture and Community, Paul, B.D.
30. Cultural Patterns and Technological Change, Mead, M.
31. Culture, Health and Disease, Read, M.



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JAGDALPUR

M.A./M.Sc. ANTHROPOLOGY
SEMESTER - II
PAPER - IV
BIOSTATISTICS AND COMPUTER APPLICATION

Max. Marks - 80
Min. Marks - 27

Important Note:

Each theory will have **five questions** of equal marks. First question [Multiple choice type of short answer type] will be based on all units [complete syllabus] with no internal choice, whereas remaining question will be unit wise with internal choice.

UNIT-I

Measures of Dispersion: Range, Variance, Standard Deviation, Standard Errors, Skewness and Kurtosis.

Correlation: Simple correlation, Grouped and ungrouped data, Karl Pearson's Coefficient of Correlation.

UNIT-II

Test of Significance: Non- parametric Tests: Chi-square Test, Goodness of fit.

Parametric Test: t-test, Z-test. Regression analysis.

UNIT-III

Population Study: Vital Statistics, Fertility and Fertility rates,

Mortality and Mortality rates, Infant Mortality and Infant Mortality rates.

Morbidity and Morbidity rates and Migration and Migration rates.

UNIT-IV

Introduction to Computer: History, Types of Computers, Computer hardware and software.

Windows: Features MS Office: Word, Excel, Power Point, Internet

Recommended Readings:

1. Gupta, S.P., Statistical Methods.
2. Sarin, S.S. and Balchandani, M.K., Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
3. Summar, M., Computers: Concepts and Uses.
4. Wardlaw, A.C., Practical Statisticals for experimental biologists.
5. Zar, J.H., Biostatistical Analysis.
6. Elhance, D. N., Practical Problems in Statistics, Kitab Mahal, Allahabad.
7. Sarin, S.S. and Balchandani, M.K., Fundamentals of Statistics. Ratan Prakashan Mandir, Agra.
8. Fernandes & Tondon, Participatory Research.
9. Fisher, Michael., Application in Computing for Social Anthropologists, London, Routledge.
10. H. Russel. Bernard, Handbook of Methods in Cultural Anthropology, Altamira Press.
11. Kaplan, Abraham, The Conduct of Enquiry: Methodology for Behavioural Sciences.
12. Madrigal, Lorena, Statistics for Anthropology.
13. Pradhan, Ashok, Janjatiya Janankiki


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Govt. Danteshwari Mahila Mahavidyalaya
JAGDALPUR

M.A./M.Sc. ANTHROPOLOGY
SEMESTER - II
LAB COURSE - I
PRACTICALS IN ARCHAEOLOGY

Max. Marks - 80
Min. Marks - 27

- 1) Tools: Typology, Functions & Technology.
- 2) Sketching and description of representative Prehistoric tools:
 - (a) Stone tools
 - (b) Bone tools
 - (c) Pottery
- 3) Site Types: Kill sites, Habitation sites, Industry sites, Quarry sites, Burial sites.
- 4) Visit to Museum, Excavation Site.
- 5) Conservation & Preservation of Antiquities.

Recommended Readings:

1. Mitra, Mitashree & Ramesh Choubey. Prayogik Manavvignyan (in Hindi).
2. Oakley, K.P. 1972. Man the Tool Maker.
3. Reddy, Rami. Tool techniques in Prehistory.
4. Sankalia, H. D. 1964. Stone age tools: Their techniques, names & probable functions.


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Registrar
Shaheed Mahendra Karma Vishwavidyalaya, Bastar
Jagdalpur, Dist.-Bastar, Chhattisgarh