SYLLABUS AND SCHEME OF EXAMINATION

FOR

MA/M.Sc. IN ANTHROPOLOGY



UNDER CHOICED BASED CREDIT SYSTEM (CBCS) (Applicable from the Academic Session 2015-16 onwards)

Approved from the Academic Session 2019-20 onwards

PG DEPARTMENT OF ANTHROPOLOGY

KHALLIKOTE AUTONOMOUS COLLEGE

KHALLIKOTE UNIVERSITY, BRAHMAPUR, GANJAM, ODISHA

${\bf KHALLIKOTE\ UNIVERSITY, BERAHAMPUR}$

M.A./ M. Sc. ANTHROPOLOGY

2015-16 onwards

Total Marks=2000 Total credits=80

Sl No	Semester/ Paper code	Title of the paper	Total Marks TE+IA	No. of Credits
	•	FIRST SEMESTER 20 CREDITS (500 Marks)	<u>l</u>	
1	CC-101	Social Anthropology	80	04
2	CC-102	Cultural Anthropology	80	04
3	CC-103	Biological Anthropology	80	04
4	CC-104	Human Genetics	80	04
5	CC-105-P	Practical(Forensic Techniques,	100	04
		PTC,Darmatoglyphics,BMI,Serology,		
		Techniques of Social Counseling)		
INTI	ERNAL ASSESMI	ENT-101,102,103,104	4x20=80	
		SECOND SEMESTER 20 CREDITS (500 MARKS)		
6	CC-201	Prehistoric Anthropology	80	04
7	CC-202	Protohistoric Anthropology	80	04
8	CC-203	Indian Society and Culture	80	04
9	CC-204	Village Community and Community Development Programme	80	04
10	CC- 205-P	Practical-(Prehistoric Tools & Technology, Museology and Museum	100	04
LU	203-1	Management)	100	04
HOI	I IF ASSICNMEN'	Γ (community related)+viva voice	60+20=80	
11	CC-301	THIRD SEMESTER 20 CREDITS (500 MARKS) Demography and Human Ecology	80	04
12	CC-302	Applied Anthropology	80	04
12	CC-302	Applied Alluliopology	80	04
13	CC-303	Research Methodology	80	04
14	CC-304	Practical	100	04
		(Osteology, Craniometry, Mandibolometry, Somatometry and		
	GG 205P	Somatoscopy	100	0.4
15	CC-305P	Practical (Regional Control of Co	100	04
		(Social Statistics and Computation of Data Analysis)		
	********	Community Study (Project+Vivavoce)		
	INTERN	AL ASSESMENT-301,302,303 4x20)=80	
		FOURTH SEMESTER 20 CREDTS (500 MARKS)		
16	CC-401	Re-thinking in Socio Cultural Anthropology	80	04
		(Thoughts &Theories)		
17	CC-402	Contribution of Indian Cultural Studies (Tribal	80	04
		Rural and Urban studies)		
18	CC-403	Human Nature and Personality Studies	80	04
19	CC-404P	Dissertation, Seminar and Viva Voice(On the basis of Community Study	100	04
-		and Analysis of Data)		- •
20	CC-405	Practical(Demographic Profile & Socio economic study of a Community	100	04
20	CC-403		1	
20	CC-403	& Presentation of data/ PPT & VV)		
20	CC-403	& Presentation of data/ PPT & VV) Home Assignment	60	

MA/ M.Sc IN ANTHROPOLOGY

Semester I Socio-Cultural and Biological Anthropology

CC-102- Social Anthropology

Post Graduate course Structure

Course Subject	<u>Papers</u>		<u>Marks</u>
Core Course	15		1500
Core Elective	4		400
Allied Elective (Inter Disciplinary) 1		100
		Total	2000

Semester wise distribution

Course Subject	<u>Papers</u>		<u>M</u>	<u>arks</u>
1 st Semester	Core Course-	5 papers	5x100	500
2 nd Semester	Core Course-	5 papers	5x100	500
3 rd Semeste	Core Elective	2 papes	200	
	Core	2 papers	200	500
	Allied Elective	1 paper	100	
4 th Semester	Core	3 papers	300	
	Core Elective	2 papes	200	500
				Total 2000

Each 100 marks paper has 4 credits-(one credit 20marksX4) = 80 Theory+20 Internal

In 1^{st} and 3^{rd} Semester there will be (20 Marks) –<u>Internal Assesment Examination</u> and for 2^{nd} & 4^{th} Semester (20 Marks)-<u>Home Assignment</u> for each 100 marks paper.

MA/M.Sc. IN ANTHROPOLOGY

Semester I	Socio-cultural and Biological Anthropology	500
CC		
101	Social Anthropology	80+20 IA
102	Cultural Anthropology	80+20 IA
103	Biological Anthropology	80+20 IA
104	Human Genetics	80+20 IA
105	Practical –	100
(Forensic Tec	chniques, PTC, Darmatoglyphics, BMI, Serology, Tech	nniques of Social Counseling)

INTERNAL ASSESMENT- 101,102, 103,104

4x20=80

Semester II	Prehistoric Anthropology & Indian Culture 500		
CC			
201	Prehistoric Anthropology	80+20) IA
202	Protohistoric Anthropology	80+20) IA
203	Indian Society and Culture	80+20) IA
204	Village Community and Community Development Progra	amme	80+20 IA
205	Practical -	100	
	(Prehistoric Tools, Museology and Museum Manageme	ent)	

HOME ASSIGNMENT (Community related) + Viva voce 60+20=80

Semester III Applied Anthropology & Demography 500

CC-301	Demography & Human Ecology	80+20 IA
CC-302	Applied Anthropology	80+20 IA
Core Elec	ctive-I	
CC-303	Research methodology	80+20IA (Compulsory)

Allied Elective-I

AE-1(Inter Discipline)

CC-304 Practical

(Osteology, Craniometry, Mandibolometry,

Somatometry and Somatoscopy) 100

CC-305

Core Electve-II Practical -Social Statistics and Computation of Data 80+20 IA

INTERNAL ASSESMENT 301,302,303, 60

STUDENTS CAN CHOOSE ANY ONE GROUPE FROM THE FOLLOWING SPECIALIZATIONS

Group- A Special Paper for ARTS

Semester IV Advance Socio-Cultura	l Anthropology	500
Core-I 401 Re-thinking in Socio Cu	ultural Anthropology (Thoughts	s & Theories) 80
C	Cultural Studies (Tribal, Rural	,
	· · ·	,
	nd Personality Studies	80
Core Electve-II 404 Practical		
Home Assignment -Community S	tudy and Computation of Data	Analysis, 80
Seminar Presentation (Semin	ar paper/ Power Point)+VV	60+20 80
Core-III 405 Practical		
Dissertation, Se	minar and Viva Voice	60+20+20
100		
(On the basis of C	Community Study and Analysis	of Data)

Group- B Special Paper for SCIENCE

Semester IV - Advance Biological Anthropology			500
Core-I	401	Evolution, Human Variation	80
Core-II	402	Human Genetics	80
		Human Growth and Development	80
Core Elect	tive-V 404	Practical	
		Community Study and Lab. Analysis of Data	80
		Home Assignment	
		Presentation (Seminar paper/ Power Point) +VV	60+20= 80
Core-III	405	Dissertation –	100
		(On the basis of Community Study and Lab	Analysis of Data)

ANTHROPOLOGY Semester – I

500 Marks

Theory (Each Class 1 hour) 100 marks (Mid Sem 20+End Sem 80) Lectures:60

THEORY Time- 3hrs

CC-101	Social Anthropology	(Credit-4)20X4=80
Unit I -	Scope of Social Anthropology, History & De different periods, Branches & Relationship of Social Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods, Branches & Relationship of Social Anthropology, History & De different periods & Relationship of Social Anthropology, History & De different periods & De different periods & Relationship of Social Anthropology & De different periods &	1 2,
Unit II-	Concept of Society, Social Institutions & Associate Social Status & Role, Social Stratifications	tions
Unit III-	Marriage and Family- Features, Types & Functi India, Concept of Kinship, Kin types, Kinship usa	· · · · · · · · · · · · · · · · · · ·
Unit IV-	Primitive Religion –Origin, concepts & theories, & Totemism, Magic: Types & Functions; M Difference between Magic, Science and Religion	
CC-102	Cultural Anthropology	(Credit-4)20X4=80
Unit I -	Concept of Culture, Characteristics of culture, Sca tool of adoption.	ope of cultural anthropology, Culture as
Unit II-	Culture & Society, Unity and Diversity in Indian	a Society, Universal aspects of Culture
Unit III-	Culture and Civilization, Study on Culture trait, Culture pattern, Culture change.	Culture complex, Culture Area and

CC-103 Biological Anthropology (Credit-4)20X4=80

educational, Recreational) Culture & Personality.

Unit IV-

Aspects of Culture (economic, social, political, religious, Social System,

CC-104	Human Genetics	(Credit-4)20X4=80
Unit IV-	Human growth: Stages of growth, Growth curve Methodology of growth studies	s, Factors effecting growth,
Unit III-	Concept of Evolution: Lamarkism, Darwanism, Neocauses of Evolution: isolation, selection and speciation	, ,
Unit II-	Man's place in animal kingdom, Physical Chara anatomical changes in human in evolutionary mechanism. Erect posture & b	
Unit I -	Meaning and scope of Biological Anthropo Anthropology and relationship of Physical Anthromedical sciences.	

Unit I — Concepts of Genetics, Branches of Genetics, Scope of Human Genetics, Development of Genetics Unit II — Study of Chromosome, Karyotypes, Structure and function of DNA & RNA. Chromosomal aberration Unit III — Mode of inheritance of autosomal traits: dominant inheritance, recessive inheritance, lethal & sub-lethal genes, sex linked inheritance. Unit IV- — Application of Human genetics: Genetic Engineering, Gene Therapy, Genetic counseling

Paper- V PRACTICAL Lectures 40 (20 Practical Classes) 100 Marks Time- 6hrs

(Forensic Techniques,: BMI, PTC, Darmatoglyphics,, Serology, Techniques of Social Counseling)
Forensic Techniques:

1. PTC taste threshold

15

Marks

Candidates shall be familiar with procedure techniques and analysis of the date collected on 10 persons.

2. Dermatoglyphics: 15 Marks Candidates shall be familiar with techniques of printing the palm and sole of the subject and analyzing data.

Digital Dermatoglyphics: Frequencies of different digital patterns, indices.

Palmar Dermatoglyphics: Main line formulae Mainline index Hypothernar, Thenar I, II, III, IV interdigital spaces.

3. Serology: 15 Marks

Candidates shall be familiar with techniques of classifying ABO blood group and Rh factor of the subject of subjects.

4. Calculation and tabulation of BMI of an adult person

15 Marks

PROJECT Techniques of Social Counseling:

20 Marks

Issues relating to burning Life-style diseses: Obesity, Hipertension, Diabetic conditions of man

5. Practical Records

10 Marks

6. Viva Voce

10 Marks

INTERNAL 20X4= 80 Time- 2hrs

Socio-Cultural Anthropology

Books for References:

- 1. Beals and Hoijer Introduction to Anthropology
- 2. Hoebel, E.A. Man in the Primitive world
- 3. Majumdar and Madan Introduction to Social Anthropology
- 4. Majumdar, D.N. Races and culture of India.
- 5. Jennings J.D. and E.A. Hoebel Readings in Anthropology
- 6. Beattle, JM Other cultures
- 1. Bohannan P Social Anthropology
- 2. Linton, R. The Study of Man
- 3. Lourie, R.H. Social Organisation
- 4. Murdock, G.P. Social Structure
- 5. Rodcliffe Brown, A.R. Structure and Primitive Society
- 6. Forc, Robin, I. Kinship and Marriage
- 7. Goode, J Family
- 8. Mair, Lucy An Introduction to social Anthropology
- 9. Sarkar, R.M.- An Introduction to Physical Anthropology

Physical and Human Genetics

Books for References:

- 1. J. Comas Manual of physical Anthropology
- 2. Joseph Birdsell Human Evolution : An Introduction to physical Anthropology
- 3. J.Janusch (Ed) Evolution and Genetic Behaviour and Biology of primates vol -1
- 4. Buettner Janush Origin of Man
- 5. Stern. C Principles of Human Genetics

- 6. Jurmain R., kilgore L., Trevthan W., Ciochon R.L. (2012) Introduction to Physical Anthropology, wordsworth Publ, USA
- 7. Buras G.N. Science of Genetics: As Introduction to Heredity
- 8. Gutes, R.R. Human Genetics vol I & II
- 9. Grow and Kinura An Introduction to population Genetics Theory
- 10. Clellrgg, E.J. An Introduction to Biology
- 11. Periasamy, K. An Introduction of Cytology, Genetics of Evolution.

Semester - II

COURSE TITEL Prehistoric Anthropology & Indian Culture 500 marks

Theory (Each Class 1 hour) 100 marks (Mid Sem 20+End Sem 80) Lectures:60 THEORY

Time- 3hrs

CC-201 Prehistoric Anthropology (Credit-4)20X4=80

- Unit I- Definition & division of prehistory. Methods of study of prehistory, Relationship to other branches of Anthropology-earth sciences, physical sciences, life sciences & social sciences.
- Unit II A brief outline on the origin of earth & emergence of life & geological time scale. Study of environment vegetation, fauna, flora, soil & geomorphology.
- Unit III Quaternary chronology, Ice Age, Different types of geoclimatic events, Man and culture
- Unit-IV Dating methods: absolute & relative dating Astronomical dating, dendrochronology, thermo-luminescence dating, pollen dating, varve analysis potassium argon method, Fluorine dating & C-14 dating.

CC-202 Proto-historic Anthropology (Credit-4)20X4=80

- Unit I Proto-historic period with special reference to Indus valley civilization, Distinction between Indus Valley civilization and Vedic Civilization
- Unit II- Cultural chronology Paleolithic, Mesolithic & Neolithic cultures of India
- Unit III Megalithic Cultures & Monuments of India, Primitive Art, Crafts, Sculptures, Menhirs, Folk Art, Folk Craft and Primitive Material Cultural sites of India
- Unit IV Documentary Process of pre-historic Culture: Exploration and Excavation Procedure, Preservation of Artifacts.
- CC-203 Indian Society & Culture (Credit-4)20X4=80

- Unit I Introduction to Indian Society and Indian Culture, Unity and Diversity, India's Population Distribution: Rural Urban and Tribal. Racial and linguistic affinity in Indian population,
- Unit II India's Vedic Tradition and emergence of Indian Civilization, Indian Social System
 Varna & Caste
- Unit III Process of Indian Cultural Traditions: Scared Complex, Great Tradition and Little Tradition. Parochialization, Sanskritization, Westernization, Modernization, Urbanization & Industrialization,
- Unit IV Symbolism in Indian Culture, Believe Pattern, Values and social behavioral changes

CC-204 Village Community & Community Development Programme (Credit-4)20X4=80

- Unit I- Meaning of community, Types of community organization, Evolution of village community, Structure and function of Indian villages.
- Unit II- Concept of village, Type of village, Characteristics of Indian villages.
- Unit III- Unity & diversity in village India, Anthropological studies of Indian villages. Contemporary village life and Changes in village community life
- Unit IV- Meaning of urban community Features of urban community, Impact of urbanization on village community. Village development programmes: Educational, Economic, and Health Issues

CC-205 Time- 6hrs

PRACTICAL- Lectures 40 (20 Practical Classes) 100 Marks

- 1. Typo-technological Analysis of Prehistoric tools: Manufacturing of Tools & Techniques of different lithic periods, The candidates shall draw to scale and describe technological implements of different economic stages. They shall also be familiar with identification, labeling and drawing of prehistoric tools sketches and technological implements.

 20+20=40 Marks
- Museology and Museum Management: Structure and dimensions of Museum.
 The procedure of management of different museums. 20 Marks
- 3. The candidates shall preserve the organic and inorganic materials (wood, bamboo, leather, feather, fiber, books and manuscripts, iron, brass and copper) and shall be familiar, with procedure of a management and classification of specimens in anthropological museum.

 20 Marks
- 4. Practical record and Viva-Voce 20 Marks

Home assignment (Project)

80Marks

A Topic to be assign to the students based on the academic course related subject and They are to present a report in the seminar for review and Viva selected by the concern teachers of the Department .

Assignment on Academic review
 Presentation
 Viva voce
 40marks
 20marks
 20marks

Books for References:

CC-301

- 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) Paleolithic Europe. Netherlands, Humanistics Press
- 5. Fagan Bm (1983). People of Earth: An Introduction. Boston, Little, Brown & Company
- 6. Sankalia H.D. (1964). Stone Age Tools Poona Decan College

Semester – III

COURSE TITEL Applied Anthropology & Demography 500 marks

Theory (Each Class 1 hour) 100 marks (Mid Sem 20+End Sem 80) Lectures:60 THEORY Time- 3hrs

Demography & Human Ecology

Unit I – The Scope and methods of population study, Basic concepts of Demography factors effecting Fertility: Biological, Social. Causes of mortality and differentials in mortality.

(Credit-4)20X4=80 Marks

- Unit II- Population growth in India: Population growth rate and distributional Type Composition, sex, marital, status, occupational & rural urban composition.
- Unit III- Concept and scope of human ecology. Ecology and adoptive behavior of primate and man. adoption to various ecological condition (Heat, cold. Altitude, Nutrition) in Bio-cultural Evolution.
- Unit IV- Social life of Primate, Ecological factors in Human population as a factor of bio-cultural evolution.

CC-302 Core Elective- I Applied Anthropology (Credit-4)20X4=80 Marks

Unit I-	Nature and scope of Applied Anthropology action anthropology, Tribal problems: Land
	Alienation, indebtedness, shifting cultivation.
Unit II-	Meaning of Forensic anthropology, Ergonomics. Role of Anthropology in Tribal
	Development
Unit III-	Genetic Counselling, Medical Anthropology, Gene Therapy
Unit IV-	Constitutional safeguard for scheduled caste & Scheduled Tribes and other
	backward classes in India Plans & programme for tribal development.

CC-303 Allied Elective-I Research methodology (Credit-4)20X4=80 Marks (Compulsory)

Unit I - Meaning of Social Research, Types of Research, Objectives of Research.
Unit II- Research design: Meaning of Research design, different Research designs
Unit III- Need for Sampling, Important Sampling Distribution, Sample Size,
Types of Sampling

Unit IV- Methods of Data collection; Schedules, Questionnaires, Observation, Interview, PRA & RRA methods

CC-304 PRACTICAL

(Credit-4) 100 Marks

(Osteometry, Craniometry, Mandibulometry, Somato-metry, Somato-scopy)

1.	Osteometry	20marks
2.	Craniometry	20Marks
3.	Mandibolometry	10marks
4.	, Somatometry	20marks
5.	Somatoscopy)	10 marks
6.	Record	10 marks
7.	Viva	10marks

CC-305P THEORY Social Statistics and Computation of Data Analysis 50 Marks Core Elective-II

Unit – 1	Measurements of Central Tendency:	
	Arithmetic Mean: Different type of calculation Median, Mode	-12
Unit - II	`Measurement of Dispersion	
	Standard Deviation, co-efficient of variation	-12
Unit - III	Test of significance Chi – square test and 't' test	-12
Unit - IV	Summarization of Data : qualitative and quantitative	-14

Practical (COMMUNITY STUDY)

50Marks

Students should prepare a short Report on the studes of burnig problems and issues relating to Rural and Tribal community life under guidance of a faculty and submit 40 Marks VIVA-VOCE 10 Marks

INTERNAL ASSESMENT- 301,302,303

20x3 =

60 Marks

Books for References:

R.R.Das- Statistics

P.V. Young Scientific Social Survey & Research

- D.H. Elihance- Elementary Statistics

Seltiz, Jahoda, Deursch Cook-Research Methodology

Moser C A- Survey Methods in Social Investigation

Gluckman, C. Levi Strauss

Junker, B- Field Work

Merton R.K.- Social Theory and Social Structure

SEMESTER -IV SPECIAL PAPER FROM ANY ONE OF THE STREEMS- Group-A/Group-B

Special Paper Group - A

IV Semester - Advance Socio-Cultural Anthropology 500 Marks

Theory (Each Class 1 hour) 100 marks (Mid Sem 20+End Sem 80) Lectures:60 THEORY Time- 3hrs

CC- 401 Rethinking in Socio-Cultural Anthropology (Credit-4)20X4=80 Marks Unit I - Evolutionism: Spencer, Morgan, Tylor, Neo-evolutionism- Leslie White, Julian Steward, V.Gorden Childe Unit II - Diffusionism: American, British and German Diffusionist Unit III - Structuralism, Functionism and Structure-Functionism- C.Levistruss, B.K. Malinowski, A.R.Redcliffe Brown Unit IV - Rethinking in Social Anthropology - Raymond Firth, E.R Leach, S.F Nadel, Max

CC-402 Contributions of Indian Culture Studies (Credit-4)20X4=80 Marks

- Unit I Indian Socio-Cultural life retrospective and prospective. Dimensions of Indian Culture & diversities
- Unit II Indian Rural Studies
 Redfield, L.P Vidyarthi, M.N Srinivas, Mckim Marriot, S.C Dube, S.CRoy
- Unit III Indian Tribal Studies
 Milton Singer, Mories E. Opler, S.C Roy, D.N Majumdar
- Unit IV Indian Urban Studies
 Emerging Urban Trends and Urbanization, Urban Dynamics, Urban Societies and
 Culture, Changing life style & problem

Core Elective-403 Human Nature & Personality Studies (Credit-4)20X4=80 Marks CE-03

- Unit I Psychological determinants of human nature & Personality: Basic Personality and Modal personality
- Unit II Psychodynamics on the study of Culture & Society, Patterns of Culture, Configuration of Culture and cultural relativism
- Unit III National Character, Cultural Interpretation and Social Change: Contribution in National Character Studies, Nature of Cultural Interpretation in India, Nature & Features of Social Change, Globalization
- Unit IV Symbolism of Culture: Cultural Values, Beliefs, Morals and Etics & Emics, Language & Culture, Socio-linguistics, Human Behavioral Changes & Identification.

CC-404P Practical DISSERTATION (Credit-4)100 Marks Students should prepare a Dissertation on a community life (Tribal/Rural), conducting a Field Work for 30 Days under supervision of a faculty member. The topics and guidance of the supervisor should be approved by the Head of the department. The student has to submit a synopsis followed by a presentation before the departmental research committee before final

presentation of dissertation for examination.

Dissertation 60 Marks
Presentation 20 Marks
Via-Voce 20 Marks

CC-405P PROJECT

Core Elective-IV-

Lectures 40 (20 Practical Classes)

100 Marks Time- 6hrs

(Demographic Profile & Socio economic study of a Community & Presentation of data- PPT & VV)

Community Study and Computation of Data Analysis,

(Demographic profile of a community) 60 Marks Presentation (Seminar paper/ Power Point) +VV (20+20) 40 Marks

HOME ASSIGNMENT

60 Marks

SEMESTER -IV SPECIAL PAPER FROM ANY ONE OF THE STREEMS- Group-A/Group-B

Special Paper Group – B

IV Semester - Advance Biological Anthropology 500 Marks
Theory (Each Class 1 hour) 100 marks (Mid Sem 20+End Sem 80) Lectures:60
THEORY Time- 3hrs

Core-I

CC-401 Human Origen, Evolution and Human Variation(Credit-4)20X4=80 Marks

Unit I - The concept of Evolution and Human Variation. Stages of Human Evolution in Different Geological

time Evolution of Homosapiens

- Unit II Forces of evolution and Adoption of man to various ecological factors (Attitude, Nutrition, Temperature) Forces of evolution, variation and its components, Factors and causes of variation
- Unit III Methods of studying human heredity, Pedigree study, twin study, biometry, genetic variation among Indian Population. A critical appraisal of contribution of Risley, Guha, Ricksett and Sarkar.Racial division.
- Unit IV Mendelian | principle of Human variation, application of Mendelian inheritance on human

population, Neo-Darwinism, Modern synthetic theory.

Core-II

CC-402 Human Genetics

(Credit-4)20X4=80

Marks

Unit I - Human Cell, Study on Chromosome: Detail Structure and function of DNA and RNA, DNA

replication

Unit II - Chromosomal aberration, Linkage and crossing over, Sex Linked and sex limited inheritance, Lethal

and Sub lethal alleles Medico legal application of Genetics, Genetic counseling...

- Unit III Autosomal inheritance: Dominant and recessive inheritance. Genetic mapping. Gene Therapy
- Unit IV The Genetics of Behavior, Genes Constitute to most behavioral traits. Eating disorders, sleeping disorders, intelligences, drug addiction, and mood disorder, Schizophrenia, chronic diseases, malnutrition.

Core Elective-III

CC-403 HumanGrowth and Development

(Credit-4)20X4=80 Marks

- Unit I Human growth and development, Human growth: Stages of growth, Basic Principals of Development, Factors affecting growth.
- Unit II Development of individual: Pre natal, Post natal, adolescent and ageing. Normal growth curve, abnormal growth.
- Unit III Inheritance of abnormal traits, brachyductly, syndacity, haemophilia, thalassemia, malnutrition Human physique and somatotype
- Unit IV Methodology for growth studies. Bio-cultural factors (genetic, social and ecological factors) influencing pattern of growth and variation.

CC-404 PRACTICAL

Dissertation

(Credit-4)100 Marks

(On the basis of Community Study and Lab Analysis of Data)

Students should prepare a Dissertation on a community life (Tribal/Rural), conducting a Field Work for 30 Days under supervision of a faculty member. The topics and guidance of the supervisor should be approved by the Head of the department. The student has to submit a synopsis followed by a presentation before the departmental research committee before final presentation of dissertation for examination.

HOME ASSIGNMENT

80 Marks

Dissertation	60 Marks
Presentation	20 Marks
Via-Voce	20 Marks

CC-405P PROJECT

Core Elective-IV-

Lectures 40 (20 Practical Classes)

100 Marks Time- 6hrs

(Demographic Profile & Socio economic study of a Community & Presentation of data- PPT & VV)

Community Study and Computation of Data Analysis,

(Demographic profile of a community) 60 Marks Presentation (Seminar paper/ Power Point) +VV (20+20) 40 Marks

HOME ASSIGNMENT

60 Marks

Books for Reference

- 1. Buras G.N Science of Genetics: An Introduction to Heredity
- 2. Gates, R.R Human Genetics Vol I & II
- 3. Grow and Kinura An Introduction to Population Genetics Theory
- 4. Stern.C Principles of Human Genetics
- 5. Shull and Neel J.V Human Heredity
- 6. Harrison G.A Banninet Weiner, J.S Turner Human Biology
- 7. Periasamy.K- An Introduction of Cytology, Genetics and Evolution
- 8. Clellrgg, E.J An Introduction to Biology.
- 9. J.Janusch (Ed) Evolutionary and Genetic Behavior and Biology of Primates.
