For 3 Credits

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
Department of Anthropology
Course Curriculum

PART- A: Introduction				
Program: Bachelor in Science/Arts *(Degree/Honors)*			**Semester -V**	Session: **2024-2025**
1	**Course Code**	**ANSC -05T**		
2	**Course Title**	**FUNDAMENTAL OF HUMAN GENETICS**		
3	**Course Type**	**DSC**		
4	**Pre-requisite (if, any)**	As per program		
5	**Course Learning. Outcomes (CLO)**	*The students will learn about genetics and the principle of human genetics. *They will learn about inheritance and the factors influencing inheritance. *They will also learn about the role of admixture in population structure. *From the practical component they will learn about blood grouping, identifying color blindness and PTC taster. *Apply genetical knowledge for the betterment of society		
6	**Credit Value**	**3 Credits**	***Credit = 15 Hours - learning & Observation***	
7	**Total Marks**	**Max. Marks: 100**	**Min Passing Marks: 40**	

PART -B: Content of the Course

Total No. of Teaching–learning Periods (01 Hr. per period) - 45 Periods (45 Hours)

Unit	Topics (Course contents)	No. of Period
I	Human Genetics: History , aims, scope and its application to human society Cell division: Mitosis and Meiosis Mendalism. Human Chromosome: Normal and Abnormal chromosome Types of inheritance: Autosomal(Dominant and Recessive), Sex linked inheritance.	12
II	Concept of Race: Formation of racial groups, criteria for racial classification. Major races of the world and their broad sub- divisions. Racial element in India.	11
III	Types of twins and their importance in genetic investigation. Inheritance of ABO blood group, P.T.C., Colour blindness. Genetic Coucelling and Eugenics	11
IV	Biological Demography: Definition, meaning and scope. Demographic profiles: Fecundity, Fertility, Mortality and Morbidity	11
Keywords		

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended -

1. Curt Stern. 1968. Principles of Human Genetics. Eurasia Publishing House (Pvt.) Ltd., Ram Nagar, New Delhi-1(India).
2. Bhasin, V. 1994. People, Health and Disease: The Indian Scenario, Kamla- Raj Enterprises, Delhi.
3. 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.
4. Bhamrah and Chaturvedi, A Text Book of Genetics.
5. Harrison et al. Human Biology.
6. Ashley Montagu, Concept of Race.
7. Shukla, B.R.K. &Rastogi, S., Physical Anthropology and human Genetics.
8. Dalela and Verma, T Text Book of Genetics.
9. Brudette, W.J., Methodology in Human Genetics.
10. Yunis, J.J. (Ed.), Biochemical Methods in Red Cell Genetics.
11. Harris, H., Human Biochemical Genetics.

Online Resources–

- e-PG Pathshala, eGyankosh, Shodhganga

Online Resources–

- **e-Resources / e-books and e-learning portals**

PART -D:Assessment and Evaluation

Suggested Continuous Evaluation Methods:

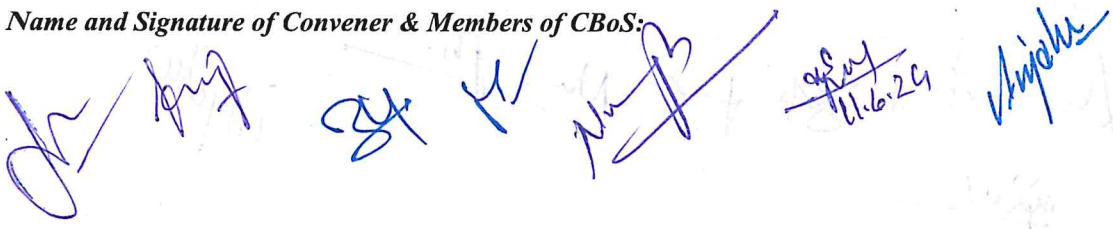
Maximum Marks: **100 Marks**

Continuous Internal Assessment(CIA): **30 Marks**

End Semester Exam (ESE): **70 Marks**

Continuous Internal Assessment(CIA): **(By Course Teacher)**	Internal Test / Quiz-(2): **20 +20** Assignment / Seminar - **10** Total Marks - **30**	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against **30** Marks
End Semester Exam (ESE):	**Two section – A & B** Section A: **Q1**. Objective – **10 x1= 10** Mark; **Q2**. Short answer type- **5x4 =20Marks** Section B: Descriptive answer type qts.,**1out of 2** from each unit-**4x10=40 Marks**	

Name and Signature of Convener & Members of CBoS:



For 1 Credits
Lab. work

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
Department of Anthropology
Course Curriculum

PART- A: Introduction				
Programme: Bachelor in Science/Arts *(Degree/Honors)*		Semester V		Session: **2024-2025**
1	**Course Code**	**ANSC -05P**		
2	**Course Title**	**PRACTICALS IN BIOLOGICAL ANTHROPOLOGY**		
3	**Course Type**	**Practical**		
4	**Pre-requisite** (if, any)	As per program		
5	**Course Learning. Outcomes (CLO)**	*The student will learn about genetics and the principle of human genetics. *They will learn about inheritance ABO, Rh & MN blood groups *They will learn about inheritance and the factors influencing inheritance. *It will provide learning about analysis and interpretation of finger pattern. *From the practical component they will learn about blood grouping, identifying colour blindness and PTC taster.		
6	**Credit Value**	**1 Credits**	***Credit =30 Hours Laboratory or Field learning/Training***	
7	**Total Marks**	**Max. Marks: 50**		**Min Passing Marks: 20**

PART -B: Content of the Course

Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)

Module	Topics (Course contents)	No. of Period
Lab./Field Training/ Experiment Contents of Course	Determination of ABO, Rh & MN blood groups of atleast five subjects. Determination of Colour Blindness & PTC taste sensitivity on atleast five subjects. Analysis and Interpretation of finger ball pattern types, palmar main lines and pattern index for atleast five subjects.	**30**
Keywords		

PART–C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended -

1. Bhasin, V. 1994. People, Health and Disease: The Indian Scenario, Kamla- Raj Enterprises, Delhi.
2. 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
3. Shukla, B.R.K. &Rastogi, S., Physical Anthropology and human Genetics.

PART -D:Assessment and Evaluation

Suggested Continuous Evaluation Methods: **Maximum Marks:** **50 Marks** **Continuous Internal Assessment(CIA):** **15 Marks** **End Semester Exam (ESE):** **35 Marks**			
Continuous Internal Assessment(CIA): **(By Course Teacher)**	Internal Test / Quiz-(2): **10 & 10** Assignment/Seminar +Attendance - **05** Total Marks - **15**	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against **15** Marks	
End Semester Exam (ESE):	**Laboratory / Field Skill Performance: On spot Assessment** **-Performed the Task based on lab. work - 20 Marks** **-Spotting based on tools & technology (written) – 10 Marks** **-Viva-voce (based on principle/technology) - 05 Mark**		**Managed by Course teacher as per lab. status**

Name and Signature of Convener & Members of CBoS: