

For 4
Credits

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

PART-A: Introduction			
Program: Bachelor in Science (Honors/Honors with Research)		Semester-VIII	Session: 2024-2025
1	Course Code	ANSE - 12T	
2	Course Title	MEDICAL GENETICS	
3	Course Type	DSE	
4	Pre-requisite (if, any)	As per program	
5	Course Learning Outcomes (CLO)	*Understand about the role of genetics in human health and disease. *They will learn about principles and application of Medical Genetics. *They will learn about genetic basis of human health disorders including their clinical manifestations, inheritance patterns and underlying molecular Mechanism. *From the course component they will learn and understand about various disorders affecting the respiratory, cardiovascular and urino-genital systems. *Provides learning about in diagnosis, management and counseling of individuals with this genetic condition.	
6	Credit Value	4 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) – 60 Periods (60 Hours)			
Unit	Topics (Course contents)		No.of Period
I	Medical Genetics: meaning and scope. Application of Genetics in medicine. Causation of genetic diseases/ syndromes/ defects/ disorders. Method in identification of genetic diseases: pedigree method and Twin Method.		15
II	Skin Ichthyosis, Baldness, Epiloia, the Porphyriasis. The Skeleton system- Marfan's Syndrome, Nail Patella Syndrome, Brachydactily, Syndactily, Polydactily, Ankylosing Spondylitis, Rheumatoid arthritis, Spinabifida and anencephaly.		15
III	Osteogenesis imperfect, Muscular dystrophies. Eye- Glaucoma, Cataract, retinoblastoma. Alimentary system: Gastric and Duodenal Ulcers, Peptic Ulcers, Cirrhosis of liver.		15
IV	Respiratory System: Cystic fibrosis. Cardiovascular System- Congenital Heart disease, Coronary heart disease and Hypertension Kidney and Urino-genital tract- Polycystic Kidney disease. Endocrine system: Goiter, Diabetes.		15
Keywords	Medical Genetics, Hypertension, Cystic fibrosis, Porphyriasis, Glaucoma, Marfan's Syndrome		

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PART-C: Learning Resources		
Text Books, Reference Books and Others		
Text Books Recommended -		
Online Resources-		
➤ e-Resources / e-books and e-learning portals		
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 =20 Marks Section B: Descriptive answer type qts., 1out of 2 from each unit- 4x10=40 Marks	

Name and Signature of Convener & Members of CBoS