



# B.Sc GENETICS

## COURSE STRUCTURE

Offered as B.Sc GCZ & GCM along with Chemistry Zoology and Microbiology

SEM 1&2

- ✓ TRANSMISSION GENETICS & CYTOGENETICS
- ✓ BIOCHEMISTRY & MICROBIAL GENETICS

SEM 3&4

- ✓ MOLECULAR GENETICS & GENETIC ENGINEERING
- ✓ BIostatISTICS & POPULATION GENETICS

SEM 5&6

- ✓ MOLECULAR TECHNOLOGIES & BIOINFORMATICS ,  
CELLULAR & MOLECULAR IMMUNOLOGY
- ✓ HUMAN GENETICS & REGENERATIVE MEDICINE, PLANT  
GENETICS & BIOTECHNOLOGY  
PROJECT / INTERNSHIP

DSEC

- ✓ CLINICAL CYTOGENETICS, PCR DIAGNOSTICS-IMPARTING  
PRACTICAL SKILLS WITH AN INTERNSHIP TO BE  
ELIGIBLE FOR DIAGNOSTIC ASSISTANT IN DIAGNOSTICS  
AND HOSPITALS.

COLLABORATIONS

- ✓ APPOLO HOSPITALS, VASAVI HOSPITALS, INNOBIOME  
TECHNOLOGIES, GMERF, INSTITUTE OF GENETICS &  
HOSPITAL FOR GENETIC DISEASES

DEPARTMENT OF GENETICS  
ST ANNS COLLEGE FOR WOMEN  
MEHDIPATNAM

# CAREERS AND JOB PROSPECTS IN GENETICS

## MSc

(GENETICS , HUMAN GENETICS ,  
MOLECULAR BIOLOGY ,  
EMBRYOLOGY , DEVELOPMENTAL  
BIOLOGY , STEM CELL TECHNOLOGY  
, REGENRATIVE MEDICINE) - INDIA &  
ABROAD



## JOBS IN FUTURE

**PHYSICIAN ASSISTANT** (Helping doctors in molecular diagnostics & PCR),  
**DIALYSIS EXPERT** ( Trained technician for dialysis), **RESEARCH SCIENTIST**  
(Genome analysis , Proteome analysis, Clinical trails, Primer designing , Oligo  
synthesis, Drug design & discovery , Genetic Epidemiology ) , **CLINICAL  
GENETICIST & GENETIC COUNSELOR** (Prenatal diagnosis for syndromes &  
Genetic syndromes, Analysis of pedigrees for risk estimation of diseases) ,  
**FORENSIC EXPERT** ( DNA Fingerprinting for crime detection ) , **TEACHER** ( Trained  
for school teaching ) **ASST.PROFESSOR** ( for colleges with NET & JRF eligibility)

## RECRUITING ORGANIZATIONS

CCMB , CDFD , INNOBIOME  
TECHNOLOGIES , CORPORATE  
HOSPITALS , R&D , UNIVERSITIES.

