

M.Sc. in Cytogenetics and Genetic Counseling

M.Sc. in Cytogenetics and Genetic Counselling is a two-year postgraduate program that focuses on the study of human genetics, chromosomes, hereditary disorders, and genetic counselling. The program prepares students to identify, analyze, and interpret genetic abnormalities while providing professional guidance and counselling to individuals and families affected by inherited conditions. It combines advanced laboratory techniques with patient-centered communication to support accurate diagnosis, disease prevention, and personalized healthcare.

The curriculum covers human genetics, molecular biology, cytogenetics, molecular diagnostics, genomics, prenatal and postnatal diagnosis, cancer genetics, reproductive genetics, bioinformatics, genetic counselling, research methodology, and healthcare ethics. Students receive hands-on training in advanced genetic laboratories, molecular diagnostic centers, hospitals, and research institutions through clinical postings, internships, and research projects.

KEY HIGHLIGHTS

Duration: 2 Years (4 Semesters)

Eligibility:

B.Sc. Chemistry, B.Sc. Life Sciences, B.Sc. Botany, B.Sc. Zoology, B.Sc. Microbiology, B.Sc. Biotechnology, B.Sc. Biochemistry, B.Sc. Marine Biology, B.Sc. Health Sciences, B.Sc. Nursing / Allied Health Sciences, B.Pharm / Pharmaceutical Sciences, B.E. / B.Tech Agriculture / Biotechnology / Bio Medical / Food Technology

Mode: Full-Time

Practical Exposure:

Advanced laboratory training, genetic testing, chromosome analysis, molecular diagnostics, clinical internships, and research projects.

Core Areas:

Cytogenetics, Human Genetics, Molecular Genetics, Genomics, Prenatal Diagnosis, Cancer Genetics, Genetic Counselling, Bioinformatics, Clinical Genetics, and Research Methodology.



CAREER OPPORTUNITIES

- Cytogenetic Technologist
- Genetic Counsellor
- Clinical Genetics Associate
- Molecular Diagnostics Specialist
- Clinical Laboratory Scientist
- Genomics Analyst
- Prenatal Screening Specialist
- Cancer Genetics Associate
- Research Scientist
- Clinical Research Associate
- Bioinformatics Analyst
- Academician or Lecturer



ADMISSIONS
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