



GURU NANAK INSTITUTE OF PHARMACEUTICAL SCIENCE AND TECHNOLOGY

157/F, Nilgunj Road, Panihati, Sodepore, Kolkata – 700114

PROGRAM OUTCOME FOR M.SC GENETICS

- Understand genetic methodology and how quantification of heritable traits in families and populations provides insight into cellular and molecular mechanisms.
- Possess knowledge required to design, execute, and analyze the results of genetic experimentation in animal and plant model systems.
- Recognize the experimental rationale of genetic studies as they are described in peer-reviewed research articles and grant proposals to federal and other funding agencies.
- Evaluate conclusions that are based on genetic data.
- Perform mathematical, statistical, and computational basis of genetic analyses that use genome-scale data sets in systems biology settings.
- Understand the role of genetic technologies in industries related to biotechnology, pharmaceuticals, energy, and other fields.
- Develop communication skills required in the discipline including oral presentations of research data, published research articles, grant proposals, and poster presentations at conferences.
- Develop teamwork and leadership skills including group analysis of data, working together in the research laboratory, joint compositions of written reports, substantive participation in research group meetings, etc.