Departments of
PHYSICS, CHEMISTRY, STATISTICS

ABOUT THE DEPARTMENTS

Physics encompasses the study of the universe from the largest galaxies to the smallest subatomic particles. Moreover, it is the basis of many other sciences, including chemistry, oceanography, seismology, and astronomy (and can be applied to biology or medical science). Students are provided with the opportunities to learn techniques that are universal across numerous branches of science such as Information Technology, Medical Sciences, Biosciences, Econometrics, Financial Mathematics and Stock Market Predictions.

The training imparted to the students in **Statistics** helps them master the art of problem solving, developing logical reasoning and computational capabilities which are essential traits in all walks of life. Additionally, the knowledge of mathematical modelling and computational training which the students acquire during the programme makes them highly sought after. There are several advanced courses being taught here which have various real life applications nowadays such as: , Biostatistics, Combinatorics, Probability & Statistics, Linear Algebra, Operations research, Data Science, AI , Numerical Analysis etc. We also provide for our students the access to various advanced software training such as SPSS, MATLAB, MATHEMATICA, C-Programming, R-Programming, Python.

Chemistry is the science of the structure, properties, and reactions of matter. It is both a basic science, fundamental to an understanding of the world we live in, and a practical science with an enormous number and variety of important applications. Knowledge of chemistry is fundamental to an understanding of biology and biochemistry and of certain aspects of geology, astronomy, physics, and engineering.

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COURSES OFFERED

- 3 Years' B.Sc. (Hons.)
- 2 Years' M.Sc.
- 3 years B. Sc. (Honours) in Statistics.
- 2 years M. Sc. in Statistics.
- Ph. D. in Statistics
- Diploma Program: Engineering Chemistry in B. Tech. and Basic and Applied Chemistry in Diploma in engineering program.
- Ph.D Program(Chem)-The research areas focused on :
  Biophysical Chemistry, Materials Chemistry, Computational Chemistry and Nanotechnology, DNA Damaging Studies

FACULTY PROFILE

Dr. Debashis Gangopadhyay
Professor (Physics)

Dr. Mala Mitra
Professor & HoD (Physics)

Dr. Rupali Gangopadhyay,
Associate Professor & HoD (Chemistry)

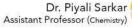Dr. Shrabana Chakrabarti
Assistant Professor (Physics)

Dr. Papiya Majumdar
Assistant Professor (Chemistry)

Dr. Parthasarathi Joardar
Associate Professor (Physics)

Dr. Sudipta Bag
Assistant Professor (Chemistry)

Dr. Arpita Chattopadhyay
Assistant Professor (Physics)

Dr. Piyali Sarkar
Assistant Professor (Chemistry)

Dr. Rajdip Dey
Assistant Professor (Chemistry)

Dr. Souvik Pandey
Assistant Professor (Chemistry)

Dr. Anindita Ghosal
Assistant Professor & HoD (Statistics)

Sancharee Basak
Assistant Professor (Statistics)

Biswajit Basak
Faculty (Statistics)

OUR INFRASTRUCTURE

» The department of Physics has well-equipped laboratories for UG and PG practical courses.

» A new laboratory with advanced research facilities (computational and instrumental) is under development.

» The access of Mathematica, Matlab, R-Software, Code blocks, Maple,

» Latex are now available for the faculties and for access of the students also.

CAREER PROSPECTS

» Department of Physics offers:
The Physics labs have experimental setups on the following courses:
- Classical Mechanics
- General properties of matter
- Waves and Oscillations
- Electricity and Magnetism
- Thermal Physics
- Modern Physics
- Atomic Spectroscopy
- Solid State Physics
- Laser Physics
- Quantum Optics
- There is a separate dust free dark room for the Optics experiments.

» Department of Chemistry offers:
Apart from regular Govt. / Corporate jobs few other career possibilities of a chemistry graduate include:
- Analytical Chemist
- Biomedical / Pharmaceutical / Forensic Chemist
- Chemical Engineering Associate
- Industrial Research Scientist (in Paint, Cement, Fabric)
- Materials / Polymer Technologist

» Department of Statistics offers:
An aspirant can also go for some competitive exams like UPSC, railways, banking, etc. and can easily get into various government departments and institutes like ISRO and DRDO.After completion of this program students will be capable of taking positions with financial institutions like investment banking, securities trading and government regulatory organizations,Careers include financial engineers Financial Analysts and a range of positions requiring advanced understanding of quantitative finance like financial model building.