

New Alipore College
Department of Mathematics

PROGRAMME SPECIFIC OUTCOMES FOR HONOURS LEVEL TEACHING

The completion of the Mathematics Honours Core Course Programme will enable a student to:

- i) Communicate mathematics effectively by written, computational and graphic means.
- ii) Create mathematical ideas from basic axioms.
- iii) Gauge the hypothesis, theories, techniques and proofs provisionally.
- iv) Utilize mathematics to solve theoretical and applied problems by critical understanding, analysis and synthesis.
- v) Knowledge of computational techniques through computer software programming will help them to build a prospective career.
- vi) Applications of mathematics in other disciplines and in research fields will help them a lot.

PROGRAMME SPECIFIC OUTCOMES FOR GENERAL LEVEL TEACHING

The completion of the Mathematics General Level Programme will enable a student to:

- i) Learning mathematics helps to develop one's critical thinking skills that includes problem solving, logic, patterns and reasoning.
- ii) Knowledge of computational techniques through computer software programming will help them to build a prospective career.
- iii) Applications of mathematics in other disciplines and in daily life will help them a lot to provide valid conclusions of any real life problem(s) or model(s).
- iv) The study will provide complete knowledge of C language and Computer generations, computer anatomy, number systems. Students will be able to develop logics which will help them to create programs, applications in C in their future life.
- v) The computational skills/ techniques that the students will acquire during their study will help them to crack different competitive examinations related to their job.
- vi) They will be able to derive methods for various mathematical operations and tasks such as interpolation, differentiation and integration.