

OBJECTIVES OF THE PROGRAMME

- To emphasise the relevance and usefulness of Mathematics from the point of view of applications
- To equip the learners with core mathematical knowledge and training that is useful in application areas and for higher studies in Mathematics
- To develop a workforce that is equipped with the mathematical skills necessary in the changing industrial and economic scenario of the country
- To develop a work force in the emerging disciplines such as Mathematical Biology, Computational Mathematics etc
- To promote collaborative research with the Industry and other agencies

SALIENT FEATURES

- Worth 64 credits divided over four semesters
- Sound Mathematics background through courses tailored for applications
- Practical sessions for training in implementation of computer algorithms

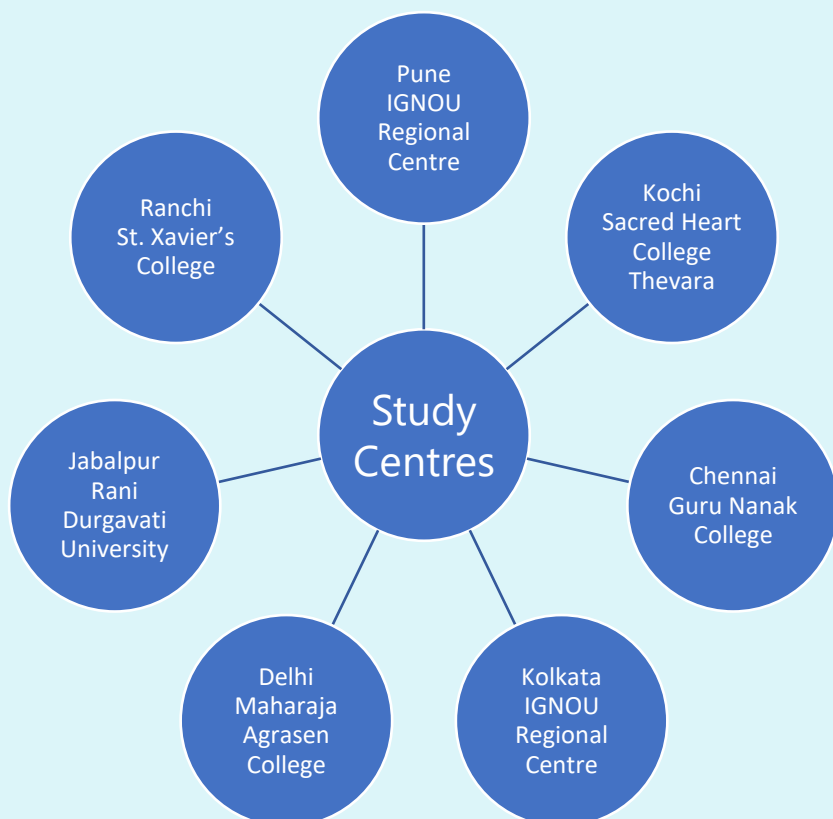
ADMISSION PROCEDURE

- Twice a year in June and July
- Admission is online through the portal <https://ignouadmission.samarth.edu.in/>
- Fee of Rs. 6900/- (subject to change) to be paid while applying online

ELIGIBILITY

- B.Sc/BA Major/Honours degree holders in Mathematics
- B.Sc/BA degree holders who have studied three subjects with **Mathematics as one of the subjects** and with **equal weightage**

Study Centres



Semester 1

1. Programming and Data Structures
2. Linear Algebra
3. Real Analysis
4. Complex Analysis
5. Differential Equations and Numerical Solutions

Semester 2

1. Algebra
2. Functional Analysis
3. Probability and Statistics

Semester 3

1. Mathematical Modelling
2. Graph Theory
3. Design and Analysis of Algorithms
4. Image Processing and Pattern Recognition
5. Computer Graphics

Semester 4

1. Coding Theory
2. Cryptography
3. Soft Computing
4. Project

