



INDIAN STATISTICAL INSTITUTE

**POST GRADUATE DIPLOMA IN STATISTICAL
METHODS AND ANALYTICS (PGDSMA)**

**PLACEMENT BROCHURE
2020-2021**

ABOUT ISI

Indian Statistical Institute (ISI) is an Institute of national importance with focus in the direction of education and research, in consonance with the contemporary and future needs of India. It offers formal Under-Graduate, Post-Graduate and Ph.D. Programs in various centres across the country. The Institute is actively involved in continuing Education, Research & Development mainly in Mathematics, Statistics, Economics and Computer Sciences, the disciplines important to both the Industries and the Government.

Apart from main campus at Kolkata. ISI has 4 centres : Delhi, Bangalore, Chennai, North East (NE). PGDSMA programme is offered at both ISI Chennai and NE centres.

ISI CHENNAI CENTRE, CHENNAI

ISI Chennai Centre provides consultancy services in the field of Quality Management to corporates and conducts research in the areas of Artificial Intelligence, Process optimization and Time Series etc. The centre started offering PGDSMA programme from the academic year 2019-20

ISI NE CENTRE, TEZPUR

ISI NE Centre focuses on creating a pool of scientific personnel with strong Statistical background which will help in many areas like Planning, Forecasting and Model Building. The centre has been offering PGDSMA programme from the academic year 2013-14.

OBJECTIVE OF PGDSMA

The programme is intended to provide students with a comprehensive training in basic theory and applications of Statistical Methodology and Analytics, in addition to some exposure to Mathematics and Computational Techniques. The programme promotes diverse learning environment and the students are encouraged to handle the data with appropriate formulation and computing in a semester long project.

The programme is so designed that on successful completion, the students are ready for the corporate roles where applications of Statistics and Data Analytics is required.

Current student capacity of this programme is 45 (15 in ISI Chennai + 30 in ISI NE) and the admission is strictly based on the merit of the candidates judged by their performance in the national level admission test and interview, ensuring an unbiased selection of the candidates.

Students with a Bachelor's Degree in any discipline with Mathematics as a subject or an equivalent qualification are eligible for this programme. 50% of ISI NE seats are reserved for domiciled students of North East India.

HIGHLIGHTS OF PROGRAMME

SEMESTER 1

- Focus is on the basics and conceptual understanding of statistics and mathematics, concomitant to the introduction to R, Python programming
- To sum up, first semester is the pyramid base of this programme.

SEMESTER 2

- Essence of this semester is to apply the statistical concepts aided by rigorous computer techniques.
- Modelling and Analysis of data using various techniques and Machine Learning are the key aspects of this semester.
- **Project in analytics** is an important component to this semester.

COURSE COVERAGE

SEMESTER 1

Statistical Methods & R, Python Programming

Calculus and Linear Algebra

Probability Theory

Numerical Methods and optimization

SEMESTER 2

Computer Intensive Statistical Methods

Data Modelling : Regression and Time Series

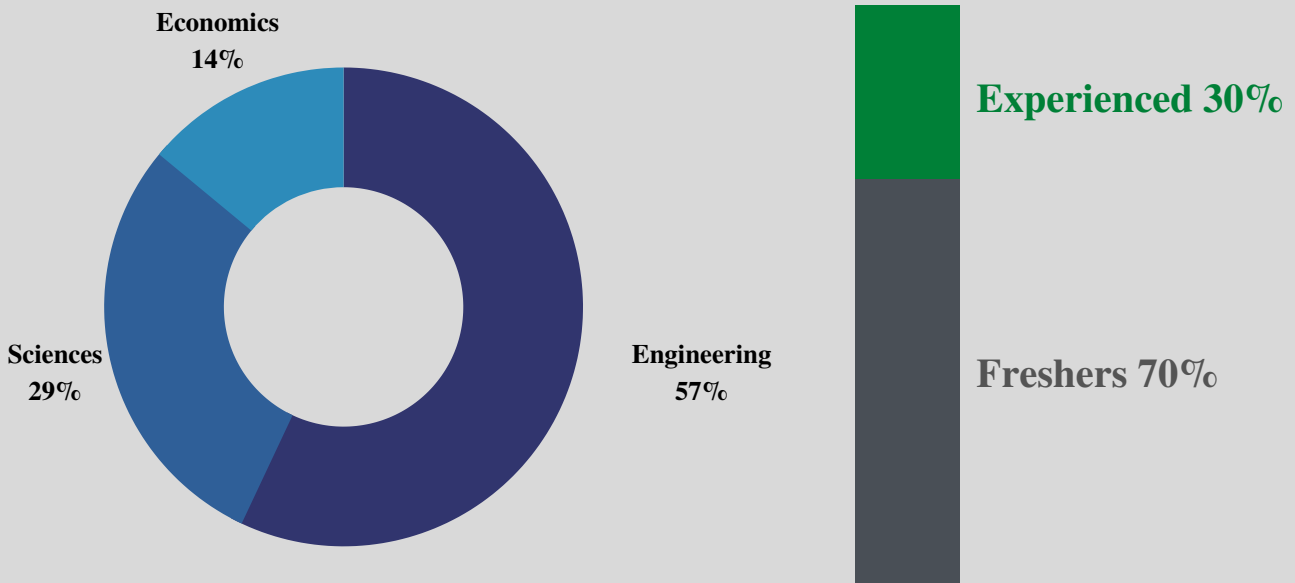
Statistical Machine Learning & Statistical Finance

Clinical Trials & Acturial Sciences

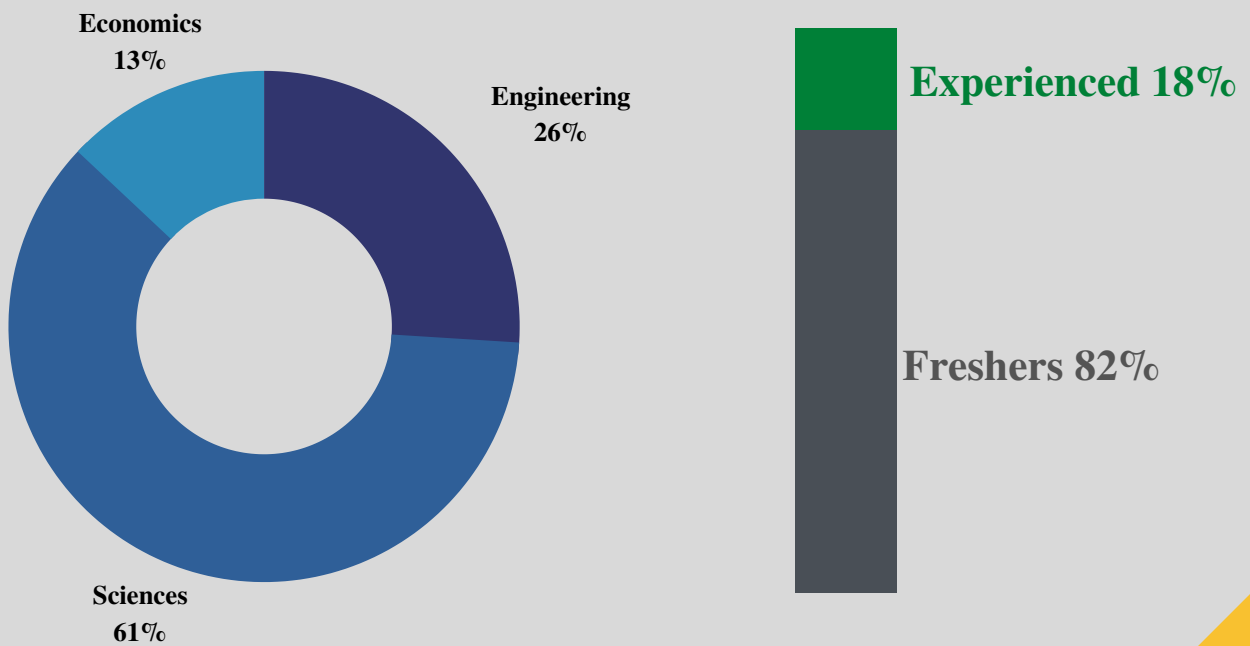
CURRENT BATCH PROFILE

Students come from different academic backgrounds with varied work experience and are united by the passion for Statistics and Analytics.

ISI CHENNAI



ISI NE



PLACEMENT COMMITTEE (2020-21)

ISI CHENNAI

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PLACEMENT PROCESS

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