PLACEMENT BROCHURE

2024-25

INDIAN STATISTICAL INSTITUTE, KOLKATA

PGDSMA
CHENNAI CENTRE

CONTENTS

ABOUT
INDIAN STATISTICAL INSTITUTE

Founded by Professor P.C. Mahalanobis in Kolkata on 17th December, 1931, the Indian Statistical Institute, designated as an Institute of National Importance, stands as a global pioneer in the advancement of statistical knowledge and research, setting unparalleled standards not only in India but across the world.

Academic programs include Bachelors, Masters, PG Diploma and Research degrees in Mathematics, Statistics, Quantitative Economics, Computer Science, and other allied areas.

The institute has more than 250 faculty members who are involved in novel research work and collaborations and have been honored with awards such as Padmasree, S.S. Bhatnagar Award etc.

Apart from being headquartered in Kolkata, ISI has 4 centres: Delhi, Bangalore, Chennai, and North-East.

PGDSMA PROGRAMME IS OFFERED AT BOTH ISI CHENNAI AND NORTH-EAST CENTRE

ABOUT
CHENNAI CENTRE

ISI Chennai Centre was established in 2008. The Centre offers a PGDSMA program, a part-time certificate course in Statistical Quality Control, and doctoral programs in Statistics, CS, Mathematical Programming, and Statistical Quality Control, contributing to the academic and research landscape in the region. It also provides consultancy services in the field of Quality Management to corporates and conducts research in the areas of Artificial Intelligence, Cryptography, Time Series, Process optimization, Game Theory, Mathematical Logic, Graph Theory, Linear Complementarity Problems, Reliability, Survival Analysis etc. Additionally, PhD scholars work on their research in this Centre.

In addition to the academic council-approved courses, we have industry-oriented training programmes in various topics of six sigma, reliability, process optimization, statistical and engineering process control.

MESSAGE FROM CENTRE HEAD

Dear Recruiters,

It gives me immense pleasure to introduce the talented and dynamic cohort of the Postgraduate Diploma in Statistical Methods and Analytics. This program is designed to provide the students with a robust foundation in statistical methodologies, coupled with practical expertise in analytics tools and techniques.

Our students are trained to meet the present industry demands with proficiency in statistical analysis, programming, machine learning, and data visualization. The program emphasizes practical learning through real-world projects and case studies, equipping students with both solid theoretical knowledge and the skills needed to thrive in the industry.

We are confident that our graduates will add value to your organization with their analytical acumen, problem-solving skills, and dedication to excellence. I invite you to explore the profiles of our students and consider them for opportunities within your esteemed organization.

We look forward to a fruitful association and are committed to support your talent acquisition needs.

Warm regards,
Prof. G. Ravindran
Centre Head
ISI Chennai

MATCHLESS MENTORS

Prof. G Ravindran
Professor, Centre Head
Specialization: Game Theory, Applied areas of O.R., Optimization and Statistical Quality Control

Dr. T Karthick
Specialization: Graph Theory, and Algorithms

Dr. D Sampangiraman
Specialization: Semi Definite Complementarity problems, Pattern recognition in Time series Data

Dr. Amit K Biswas
Specialization: Game Theory, Statistical Data Analysis

Dr. Sudheesh K Kattumannil
Specialization: Reliability Analysis, Mathematical Statistics

Dr. Surajit Pal
Specialization: Multiple Response Optimization

Dr. Ayineedi Venkateswarlu
Specialization: Cryptology and Computer Algebra

PGDSMA
AN OVERVIEW

The Post Graduate Diploma In Statistical Methods and Analytics(PGDSMA) program provides students with a comprehensive understanding of statistical methods and analytics, merging theoretical foundations with practical applications. Students gain hands-on experience in data handling using R and Python, alongside proficiency in advanced statistical software.
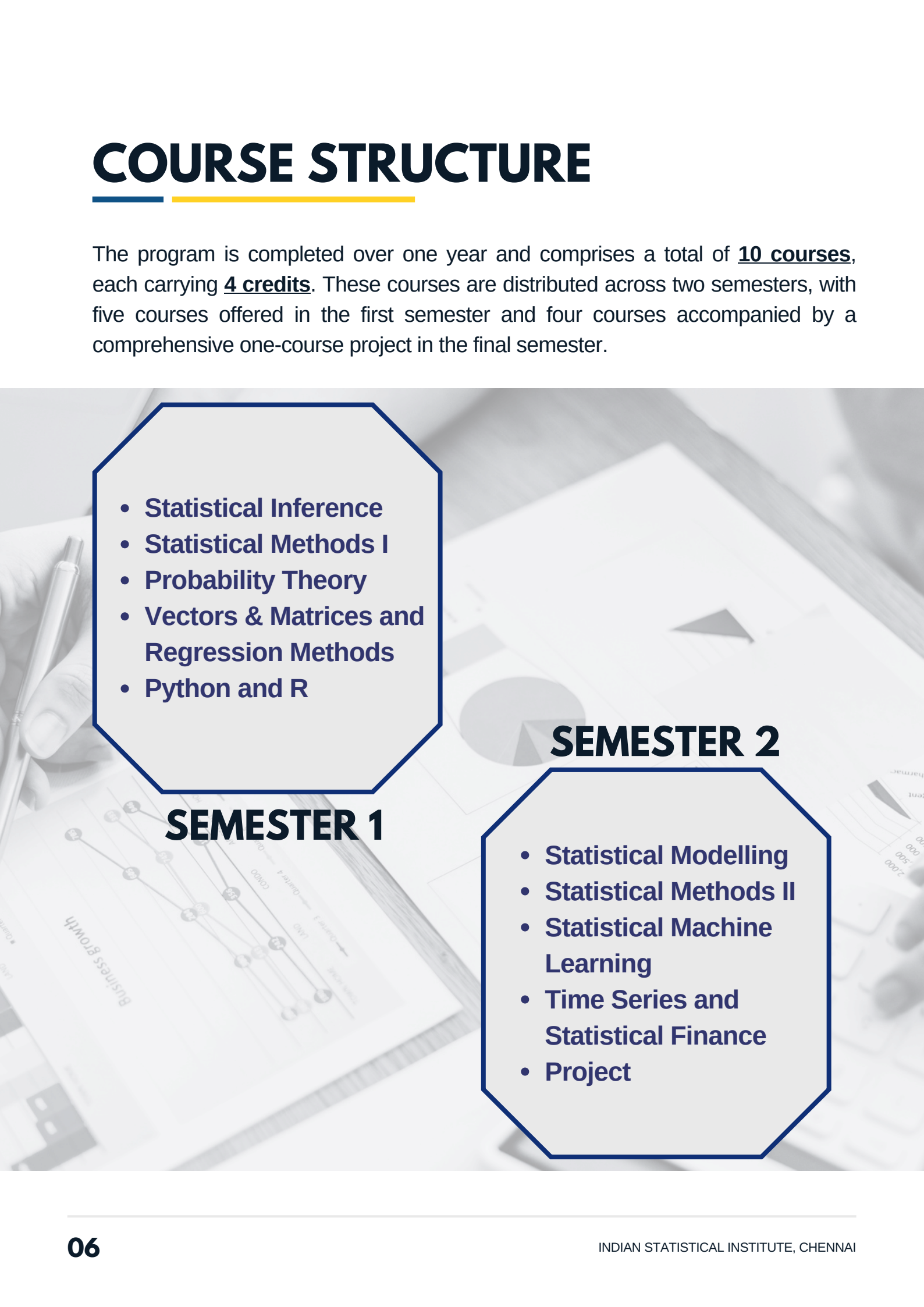
The curriculum strategically prepares the students for careers in industries and government departments requiring expertise in statistics and data analytics. Graduates emerge equipped to contribute to various sectors, including finance, healthcare, marketing, and government policy analysis, through data-driven decision-making. In essence, the program offers a robust blend of theory and practice, empowering students to excel in the dynamic field of data analytics and statistics.

POST GRADUATE DIPLOMA IN STATISTICAL METHODS AND ANALYTICS

COURSE STRUCTURE

The program is completed over one year and comprises a total of **10 courses**, each carrying **4 credits**. These courses are distributed across two semesters, with five courses offered in the first semester and four courses accompanied by a comprehensive one-course project in the final semester.

- **Statistical Inference**
- **Statistical Methods I**
- **Probability Theory**
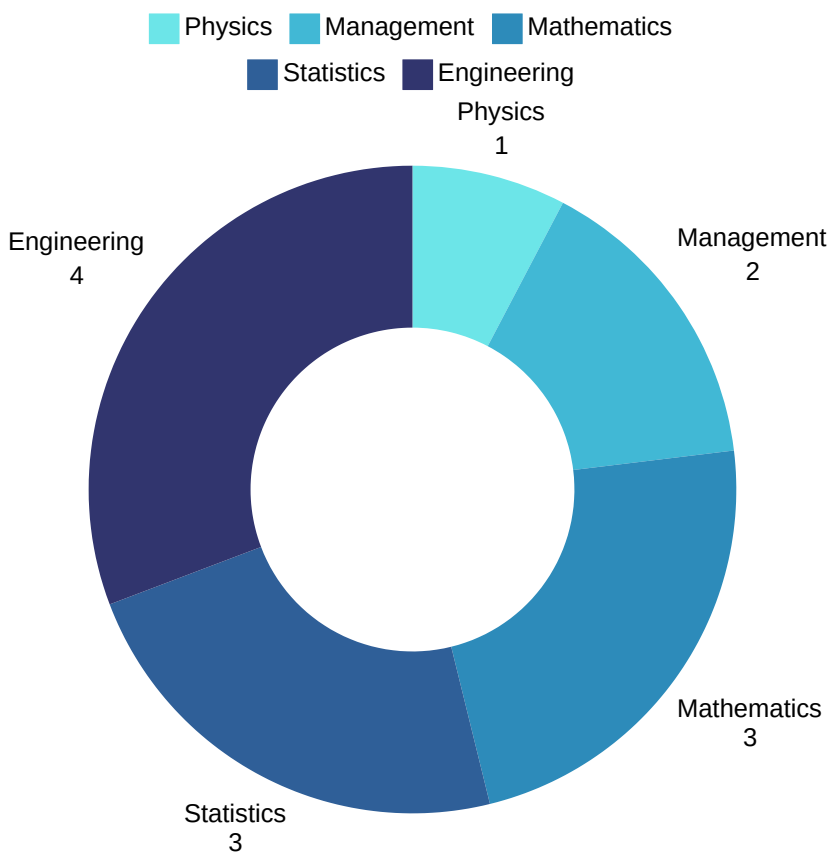- **Vectors & Matrices and Regression Methods**
- **Python and R**

SEMESTER 1

SEMESTER 2

- **Statistical Modelling**
- **Statistical Methods II**
- **Statistical Machine Learning**
- **Time Series and Statistical Finance**
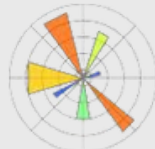- **Project**
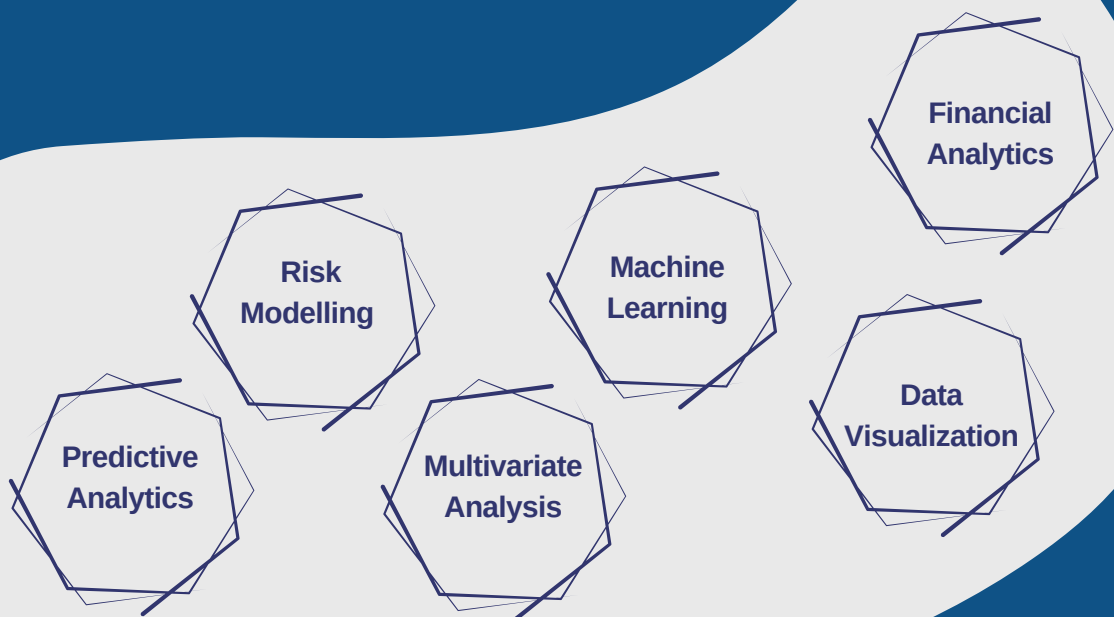
CLASS PROFILE

Previous Educational Backgrounds

■ Physics ■ Management ■ Mathematics
■ Statistics ■ Engineering

Physics
1

Management
2

Mathematics
3

Statistics
3

Engineering
4

Student-Faculty Ratio

2 | 1

Less than 2% of the students who appeared for the entrance exam last year eventually secured admission

WHY HIRE US !

pandas

python™

scikits learn machine learning in Python

Power BI

MySQL®

matplotlib

TensorFlow

R

Typical Areas of Proficiency

Financial Analytics

Risk Modelling

Machine Learning

Predictive Analytics

Multivariate Analysis

Data Visualization

PAST RECRUITERS

Our Institute has seen several distinguished organizations recruit our talented students. These companies, renowned for their excellence, have recognized the potential of our graduates. Some of the prominent recruiters include:

CONTACT US

FACULTY COORDINATORS

Prof. G Ravindran
Chair Person

Mr. Biju Mathew
Convener
+91 9401144440

Dr. D Sampangi Raman
Member
Dr. Ayineedi Venkateswarlu
Member

STUDENT REPRESENTATIVES

Anvesh Kiran Pidatala
anvesh@isichennai.res.in
+91 9676385308
Liyana Mariyam
liyana@isichennai.res.in
+91 8122386168
Pratyush Modi
pratyush@isichennai.res.in
+91 7004839072

🌐 https://www.isichennai.res.in/Placement

in linkedin.com/isi-chennai-placement-committee

✉ placements@isichennai.res.in