M.Sc. DATA SCIENCE

WHAT IS UNIQUE ABOUT LOYOLA'S M.Sc. DATA SCIENCE

- Expert sessions on industry integrated projects.
- Career Aspiration Program - an awareness program.
- Conference/Seminars with industry experts.
- An Exclusive recruitment drive.
- Enhancing analytical skills / Teamwork abilities / Personality development.
- This is a course with great job potential.
- It aids a student to be placed easily as he/she can get a role as a Data Analyst or Data Scientist with renowned MNCs / IT Companies.

Highlights of the department:

- **Guest Lecturers :** The department regularly organizes guest lecturers by prominent professionals and academicians from industries and reputed educational institutions, to abreast the students with recent advances in the technical world.
- **Orientation Program :** The orientation program is designed to support new students as they begin their journey at Loyola Academy. During the program, we gradually introduce new students to life at the College, from academics and community norms to resources and support services.
- **Campus Recruitment Training (CRT) :** The program focuses on enhancing students' analytical skills, teamwork abilities, and personality development, ensuring they are well-rounded professionals ready to excel in the workplace.

About the Department:

The Department of M.Sc. Data Science was set up at Loyola in 2020 and offers post graduate course of M.Sc. Data Science. Courses are designed in a way that the students are job ready. This curriculum will be annually revised, so it is relevant to the present technology and requirements at any workspace. The syllabus is designed along with university nominee, subject expert, and industrial expert. Industry academician Interaction with the students is arranged to guide, motivate, and give inputs on current trends.

Infrastructure Facilities

- Spacious Campus
- Excellent laboratories that provide the best practical knowledge to the students
- Good infrastructure
- College Hostel
- Medical facilities
- Bank
- Innovation Centre
- Cafeteria
- Stationery

Placements/Higher Education/Soft Skills

- CRT training is provided for students to secure placements in campus interviews.
- Academic Consultants for higher Education.
- Soft skills classes are conducted to improve communication skills.

Library and Information Center

- Delnet
- Inflibnet
- Online Journals
- Books

Best Practices of the Department

- General seminars
- Certifications
- Mini projects

LOYOLA ACADEMY

Some Of The Popular Job Roles:

- Statistician
- Business Intelligence (BI) Analyst
- Data Analyst
- Big Data Engineer
- Database Administrator (DBA)
- Data Architect
- Machine Learning Engineer

Admission Guidelines:

A pass in B.E/B.Tech/BCA/B.Sc. Degree with a minimum aggregate of above 60% Marks along with Mathematics or Statistics or Computer Science as one of the subject.

M.Sc. Data Science

1st Semester

Theory: Communicative Competence | Mathematics for Data Science | Artificial Intelligence | Statistics & Probability | Advanced Databases | Python for Data Science

Practicals: Advanced Databases | Data Visualization | Python for Data Science | Technical Seminar & Report Writing

2nd Semester

Theory: Human Values & Professional Ethics | Multivariate Analysis & Stochastic Process | Regression Analysis & Statistical Inference | Big Data Analytics through Hadoop | Machine Learning | Cloud Computing/ Social Media Analytics/ Data Security & Privacy

Practicals: Big Data Analytics through Hadoop | Machine Learning | Data Analytics | Industrial Practices

3rd Semester

Theory: Time Series & Forecasting Techniques | Big Data Security/ Reinforcement Learning/ Scalable Architectures for ML Applications | Internet of Things | Deep Learning | Natural Language Processing | Soft Skills

Practicals: Internet of Things | Deep Learning | Natural Language Processing | Mini Project

4th Semester

Major Project

Extra-Curricular Activities

Sports | Resonance

Extension Activities

PLANET | Visiting Adopted Villages | Industrial Visits

Student Support

Academic Counseling | Mentoring

Non-CGPA Courses

NPTEL | Certificate Course | CRT | Clubs | Soft Skills | Self-Study

Student centric methods

Internships | Research Papers | Group Discussion/ Seminar/Debate | Peer Learning