



DEPARTMENT OF INFORMATION TECHNOLOGY

St. Joseph's College (Autonomous)

Special Heritage Status Awarded by UGC,
Accredited at A++ Grade (4th Cycle) by NAAC
College with Potential for Excellence by UGC
Tiruchirappalli 620002

CERTIFICATE COURSE

DATA ANALYSIS : CONCEPTS AND TECHNIQUES

DR. P. BASTIN THIYAGARAJ

DR. I. CAROL

Assistant Professors
Department of IT
St. Joseph's College(Autonomous)
Trichy-2

Course Coordinators



SQL

- SELECT, WHERE, ORDER BY
- Joins, subqueries & aggregations
- Real-time database analysis



MongoDB

- Documents & collections
- Insert, update & analyze data
- Aggregation pipeline & text search



PowerBI

- Connect Excel/SQL/Mongo DB
- Charts, dashboards & DAX basics
- Create interactive business reports



Python

- Pandas, NumPy, Matplotlib
- Exploratory Data Analysis (EDA)
- Machine Learning concepts

● **45 Hrs With 3 Credits**

● **PG**

Rs. 1300 /-

Course Begins from
07th January 2026

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