



**NAME OF THE COURSE**

**DATA ANALYTICS & VISUALISATION**

**COURSE CODE**

CPCC04

**OFFERED BY**

Department of  
Computer Science,  
Christ College Irinjalakuda

**COURSE COORDINATOR**

VANDHANA T V

**PARTNERSHIP WITH**

Strategist, Kochi



**DEPARTMENT OF COMPUTER SCIENCE  
CERTIFICATE COURSE DETAILS**

**COURSE DETAILS**

ELIGIBILITY : PLUS TWO

TOTAL HOURS : 30 hours

DURATION : 2 months

COURSE FEE : 3000/-

**ABOUT COLLEGE**

Christ College (Autonomous), Irinjalakuda established in the year 1956 by CMI fathers has always been a place where young generations are moulded towards a bright future. College has excellent infrastructure, with state of the art laboratories, seminar rooms and lecture halls. The campus is Wi-Fi enabled. Presently College is home for 4500+ students, 200 teaching staff and 45 supporting staff. The strength of the College lies in its hardworking and tech savvy teachers who are eager to involve in all matters of students. The lush green campus with gardens and open gym is moving towards the next phase on education both offline and online.

**WHAT IS THE COURSE?**

Course code CPCC04 Data Analytics & Visualisation provide tools and techniques to learn corporate practices & reinforcing decision-making skill. These programs will help to improve the practical knowledge of the aspirant and help to analyze data, create models, and generate insights. It will further train you in extending your skills to industry strength analytics using the Microsoft Excel, Power BI, Tableau and Foundation of R and Python. Training is hands-on, with participants working along with instructors, learning within the context of real world, practical examples.

## SCOPE OF THE COURSE

Course code **CPCC04Data Analytics & Visualisation** provide tools and techniques to learn corporate practices & reinforcing decision-making skill. These programs will help to improve the practical knowledge of the aspirant and help to analyze data, create models, and generate insights. It will further train you in extending your skills to industry strength analytics using the Microsoft Excel, Power BI, Tableau and Foundation of R and Python. Training is hands-on, with participants working along with instructors, learning within the context of real world, practical examples. The scope of data analytics In India includes companies in policing, banking, healthcare, fraud detection, e-commerce, energy, telecommunications, and risk management.

Data Analysts are the most sought after skilled professionals in the current world, not only in the Information Technology industry but also in Finance, Insurance, Banking, Marketing & Sales, Consumer Goods, Electronics, and Heavy Industries.

## LEARNING OUTCOMES

- Students will have effective business intelligence and business analytics.
- Students will demonstrate proficiency with statistical analysis of data through Microsoft Excel.
- Students will execute statistical analyses with professional software.
- The course is designed to connect students to real-world applications.
- Students will emerge from the program as an experienced professional, having overcome the challenges of solving actual organizational issues with real-time data-sets on multiple occasions.

## COURSE OUTLINE

1. Data Analysis using Excel
2. Data visualisation using Power BI and Tableau
3. Integration with R and Python

## COURSE MODULES

Data Analysis using Excel : Data Connection ,Data Cleaning ,Data Integration , Advanced formulas ,Data Retrieval and Consolidation ,Model Building ,Automation ,Data Analytics

### MODULE 2

Data visualisation: Introduction to Power BI, Introduction Tableau, Data Preparation, Data Cleaning, Managing Metadata, Data Blending, Model Building, Dashboards, Art of story telling stories, Application of R and Python in data Science

### MODULE 3

Integration with R and Python : Introduction to R and Python, Data Analysis Using R and Python, Data Visualisation using R and Python



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