



AY 2022-23

Hindi Vidya Prachar Samiti's
RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)
(Also known as R. J. College of Arts, Science & Commerce as per UGC Notification)

Affiliated to UNIVERSITY OF MUMBAI II Recognized by UGC under 2f & 12B
NAAC Accredited 'A GRADE' with CGPA 3.50

Knowledge is all Ambrosia

**CERTIFICATE
COURSE IN**


Microsoft

Power BI -

Data

Visualisation

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 Opposite Railway Station, Ghatkopar (W),
Mumbai 400 086, Maharashtra, INDIA.



ABOUT US

Hindi Vidya Prachar Samiti was incepted on the auspicious day of Shri Krishna Janmashtami, 15th August 1938. A brain child of a visionary Late Shri Nandkishore Singh Jairamji, samiti was established with the objectives of catering to the educational needs of the Hindi speaking community. Ramniranjan Jhunjhunwala College came into existence in 1963, enabling a larger section of the society to take advantage of the facilities provided for higher education.

From 1999-2000 the College has added a number of self-financing courses like B.M.S., B.B.I., B.Sc. in Computer Science, Information Technology, Biotechnology, M.Sc. in Computer Science, Biotechnology and Information Technology as well as add on courses, which further hone the special skills of the students.

The college has been reaccredited with 'A' Grade by NAAC in 2014 with a CGPA 3.50 and received the Best College Award (2007-2008) of the University of Mumbai.

The College has been bestowed with IMC "Ramkrishna Bajaj Performance Excellence Trophy", 2010.

The Principal of the college was awarded "Best Teacher" by Government of Maharashtra in 2011.

Government of Maharashtra conferred the college with "JAAGAR JAANIVANCHA" (First in Mumbai Suburban- in 2013 and Second in Mumbai Suburban- in 2014) for safety of girls.

Course Code: **RJCUBAFC03**

Duration: **30** hours

Credits : **02**

LEARNING OUTCOME

Learners will be able to discover the distinct ways of extracting data, creating visualizations, and produce interactive and insightful reports.



COURSE OBJECTIVE

- Gain a competitive edge in creating customized visuals and deliver a reliable analysis of vast amount of data using Power BI.
- Learn how to experiment, fix, prepare and present data quickly and easily.
- Form relationships in your data model and learn data visualization best practices.



COURSE CONTENT

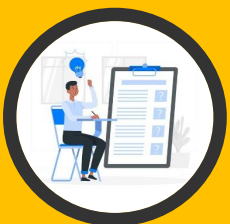
1	<p>Introduction to Power BI</p> <p><u>Introduction to Business Intelligence</u></p> <ul style="list-style-type: none"> • Self-Service Business Intelligence (SSBI) • Introduction to Power BI • Traditional BI vs. Power BI • Power BI vs. Tableau vs. QlikView • Uses of Power BI • The Flow of Work in Power BI • Working with Power BI • Basic Components of Power B • Comparison of Power BI Version • Introduction to Building Blocks of Power BI • Data model and importance of Data Modelling <p><u>Hands-on:</u></p> <ul style="list-style-type: none"> • Installation of Power BI <p><u>Skills You will Learn:</u></p> <ul style="list-style-type: none"> • Concepts of Business Intelligence • Power BI installation
2	<p>Power BI Desktop and Data Transformation</p> <p><u>Topics:</u></p> <ul style="list-style-type: none"> • Data Sources in Power BI Desktop • Loading Data in Power BI Desktop • Views in Power BI Desktop • Query Editor in Power BI • Transform, Clean, Shape, and Model Data • Manage Data Relationship • Editing a Relationship • Cross Filter Direction • Saving Work file • Measures <p><u>Hands-on:</u></p> <ul style="list-style-type: none"> • Data Cleaning using Power BI query editor • Creating Measures • Transform, Clean, Shape, and Model Data for further analysis • Skills You will Learn: <p><u>Data transformation using the query editor</u></p> <ul style="list-style-type: none"> • Shaping data with measures • Managing Data Relationships

COURSE CONTENT

3	<p>Data Analysis Expressions (DAX)</p> <p><u>Topics:</u></p> <ul style="list-style-type: none"> • Introduction to DAX • Importance of DAX • Data Types in DAX • DAX Calculation Types • Steps to Create Calculated Columns • Measures in DAX • DAX Syntax • DAX Functions • DAX Operators • DAX Tables and Filtering <p><u>Hands-on:</u></p> <ul style="list-style-type: none"> • Creating Calculated Columns and Measures • Performing Data Analysis using DAX <p><u>Skills You will Learn:</u></p> <ul style="list-style-type: none"> • Data Analysis using DAX • Creating Calculated Measures and Columns
4	<p>Data Visualization:</p> <p><u>Topics:</u></p> <ul style="list-style-type: none"> • Introduction to Visuals in Power BI • Visualization Charts in Power BI • Matrixes and Tables • Slicers and Map Visualizations • Gauges and Single Number Cards • Modifying Colours in Charts and Visuals • Shapes, Text Boxes, and Images • Custom Visuals • Page Layout and Formatting • Bookmarks and Selection Pane • KPI Visuals • Z-order • Grouping and Binning

Continuous Evaluation with test/assignments at the end of the units

EVALUATION



100 MARKS



PASSING 40

WHO SHOULD DO IT?
Any Student