

## D-2

### Skill Development Course-

| Course Name                                                                                                             | Student |
|-------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Report on<br/>Value Added Course/ Add-On<br/>Course</b><br><br><b>“Data Visualization in Microsoft<br/>Power BI”</b> | 44      |



Rayat Shikshan Sanstha's  
**Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)**

**Department of BCA**  
**Report on**  
**Value Added Course**  
**DATA VISUALIZATION IN MICROSOFT POWER BI**  
**2024-25**

**Date: 05/03/2025**

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar, (Burli) Department of BCA in collaboration with IQAC organized 30 Days Value Added Course ON **"DATA VISUALIZATION IN MICROSOFT POWER BI"** on 3.02.2025 to 04.03.2025. Huge Response received from BCA student. Total 44 student where registered for this course. The main purpose of this Training is to Students able to understand BI tool and how it works in different scenarios.

The introduction & welcome of this program was done by Mrs. Jadhav S.S. The Inauguration was done with auspicious hand by chief guest I/C Principal Dr. Patil U. V. and HOD. Prof. Borade N. S. and Resource person of this program is Prof. Kadam A.P Program Manager of **"DATA VISUALIZATION IN MICROSOFT POWER BI"**.

Hon. I/C. Dr. Patil U. V gave presidential address and she encourage the students for Training. The Vote of thanks was proposed by the Miss. Kadam A. P. There were 44 participants participated in this workshop.

**Programme Outcomes:**

- Understand basic concepts and terminology of the Power BI service.
- Amount of data using Power BI
- Learn how to experiment, fix, prepare and present data quickly and easily.
- Connecting data source in Power BI - Excel, CSV, live data source such as SQL, webpage etc.

**Beneficiaries: 44 Students**



*Kadam*

**Chairman**  
(Miss.Kadam A.P)

*Satape*

**Coordinator**  
(Miss.Satape A.A.)

*Borade*

**HOD**  
(Mrs. Borade N. S)

*Patangrao*

**Principal**  
(Dr. Patangrao kadam Mahavidyalaya  
Rnagar, (Burli))



Rayat Shikshan Sanstha's  
Dr. Patangrao kadam Mahavidyalaya Ramanandnagar(Burli)

**Department of BCA**  
Value Added Course- 2024-2025  
Data Visualization in Microsoft Power BI

## **Notice**

**Date: 24/01/2025**

The faculty members of department kindly informed that departmental meeting will be held on 25/01/2025 at 11.30AM at departmental staffroom, attendance the same.

### **Chairmen**

### **Agenda:-**

- 1) Discussion about the value added course starting from February
- 2) To discuss about notice to student.
- 3) To take discussion on Intake capacity of course.
- 4) To Prepare 30 Days Timetable.
- 5) Distribution of Syllabus.

### **Member:-**

- Prof. Kadam A.P
- Prof. Satape A.A

Rayat Shikshan Sanstha's  
Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

**Department of BCA**

Value Added Course- 2024-2025

Data Visualization in Microsoft Power BI

### **Notice**

**Date: 27/01/2025**

All the students are hereby informed that the department is going to run value Added course on "Data **Visualization in Microsoft Power BI**" from 3.02.2025 To 04.03.2025... All should be present to take advantage of this course.

  
**Head of Department**

Rayat Shikshan Sanstha's  
Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar(Burli)  
**Department of BCA**

**Value Added Course- 2024-2025**

**Data Visualization in Microsoft Power BI**

**Learning outcome:**

Student will learn following topics with this Power BI Course.

- Find your content in dashboards, reports, and apps.
- View and export data from dashboards and reports.
- View filters that are used in a report.
- Explain the relationship between dashboards and reports, visualizations, and tiles.
- Display action menus for tiles and details for report visualizations.
- Collapse and expand the nav pane and the filters and bookmarks panes.

**Program outcome:**

- Understand basic concepts and terminology of the Power BI service.
- Amount of data using Power BI
- Learn how to experiment, fix, prepare and present data quickly and easily.
- Connecting data source in Power BI - Excel, CSV, live data source such as SQL, webpage etc,

**Course outcome**

- Importance of data visualization and different types of data that can be visually represented.
- Determination of the visualization which is most effective to display data for a given data set.
- Introduction to Power BI, Installation of Power BI,
- Introduction to power Pivot and Analysis using power Pivot
- Concept of Power Pivot,
- Introduction to Power Pivot environment
- Advantages of Power Pivot
- Power Query and Power View,
- Data Cleaning in Power BI using Power Query,

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**Department of BCA**

Value Added Course- 2024-2025

Data Visualization in Microsoft Power BI

**Duration-30 hrs.**

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## **Syllabus**

### **Data Visualization in Microsoft Power BI**

#### **Module1- INTRODUCTION TO POWER BI**

- 1.1 Introduction to Power BI
- 1.2 Introduction to Business Intelligence (BI)
- 1.3 Why Power BI
- 1.4 Power BI Components
- 1.5 Introduction of Power BI Desktop
- 1.6 Installation of Power BI Desktop
- 1.7 Process of creating reports in Power BI

#### **Module2 – DATA EXTRACTION AND TRANSFORMATION**

- 2.1 Data Sources in Power BI
- 2.2 Using files(excel ,csv, pdf etc.) as a data source
- 2.3 Working with SQL database and database source
- 2.4 Extracting data from folders and databases

#### **Module3 –CLASSIFICATION AND CLUSTERING**

- 3.1 Classification: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression
- 3.2 Clustering: Clustering methods, Partition methods, Hierarchical methods, Evaluation of clustering models



## Hands on Practical

| Practical No | Details                                                                                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.           | Import the legacy data from different sources such as ( Excel , SqlServer, Oracle etc.)and load in the target system. ( You can download sample database such as Adventureworks, Northwind, foodmart etc.)    |
| 2.           | Perform the Extraction Transformation and Loading (ETL) process to construct the database in the Sqlserver.                                                                                                   |
| 3.           | a.Create the Data staging area for the selected database.<br>b.Create the cube with suitable dimension and fact tables based on ROLAP, MOLAP and HOLAP model.                                                 |
| 4.           | a.Create the ETL map and setup the schedule for execution.<br>b. Execute the MDX queries to extract the data from the datawarehouse.                                                                          |
| 5.           | a. Import the datawarehouse data in Microsoft Excel and create the Pivot table and Pivot Chart.<br>b. Import the cube in Microsoft Excel and create the Pivot table and Pivot Chart to perform data analysis. |
| 6.           | Apply the what – if Analysis for data visualization. Design and Generate necessary reports based on the data warehouse data.                                                                                  |
| 7.           | Perform the data classification using classification algorithm.                                                                                                                                               |
| 8.           | Perform the data clustering using clustering algorithm.                                                                                                                                                       |
| 9.           | Perform the Linear regression on the given data warehouse data.                                                                                                                                               |
| 10.          | Perform the logistic regression on the given data warehouse data.                                                                                                                                             |

  
**Head of Department**



Rayat Shikshan Sanstha's  
Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

## Department of BCA

Value Added Course- 2024-2025

Data Visualization in Microsoft Power BI

### Registration Form

## Power BI Registration Form

## Organized By BCA Department

Thank you for your interest in participating in this workshop. Please complete the registration below so we can reserve your seat.

boraden006@gmail.com [Switch account](#)



Not shared

\* Indicates required question

Name of the Student \*

Your answer

Class \*

Your answer



Rayat Shikshan Sanstha's  
Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

Department of BCA

Value Added Course- 2024-2025

Data Visualization in Microsoft Power BI

Value Added Course Registration Details

| Form Responses1 |                          |              |         |               |                          |                                       |  |
|-----------------|--------------------------|--------------|---------|---------------|--------------------------|---------------------------------------|--|
| Timestamp       | Name of the Student      | Class        | Roll No | Date of Birth | Email-ID                 | Address                               |  |
| 3/2/2025        | Sawant Shriram Popat     | BCA 2        | 2490    | 11/27/2005    | sawantshriram462@gmail   | Mhaswad                               |  |
| 3/2/2025        | Omkar sanjay mane        | Bca 2        | 2474    | 7/3/2005      | Omkarmane513@gmail       | Takari                                |  |
| 3/2/2025        | Kashish abdulla nadaf    | BCA 2        | 2477    | 4/15/2005     | kashishnadaf15@gmail     | Ramanandnagar                         |  |
| 3/2/2025        | Ramapati Umashankar      | BCA II       | 2493    | 3/12/2025     | ramasingh3012@gmail      | A/p ramanandnagar                     |  |
| 3/2/2025        | Shreyash sandeep khubik  | Bca2         | 2465    | 11/21/2005    | shreyashkhubikar2133     | BURNGWADI                             |  |
| 3/2/2025        | Vishal dhebe             | BCA 2nd year | 2455    | 10/22/2003    | vdhebe862@gmail.com      | At sokasan tal man dist Satara        |  |
| 3/2/2025        | Vidula bhalchandra deshm | BCA -2 yr    | 2453    | 1/28/2004     | viduladeshmukh594@gmail  | A/p amanapur, Tal-Palus, Dist-sangli  |  |
| 3/2/2025        | Anjali arjun patil       | Bca II       | 2480    | 7/20/2005     | Patilanjali525@gmail.com | A/p nagrale                           |  |
| 3/2/2025        | Sanika maruti shivade    | Bca 2        | 2492    | 11/16/2004    | Sanikashivade42@gmail    | Burli                                 |  |
| 3/2/2025        | Nayan Nandkumar Maske    | BCA II       | 2476    | 2/22/2005     | nayanmaske22@gmail       | A/p Nagarale                          |  |
| 3/2/2025        | Komal vikas bhosale      | BCA 2        | 2452    | 8/18/2005     | bhosalekomal601@gmail    | A/p- dudhondi tal- palus dist- sangli |  |
| 3/2/2025        | Purva Sandip Mane        | BCA II       | 2475    | 10/30/2005    | purvamane3010@gmail      | Bhilawadi                             |  |
| 3/2/2025        | Ankita hanmant patil     | BCA II       | 2481    | 8/11/2004     | ankitapatil1182004@gmail | Punadi                                |  |

RayatShikshanSanstha's  
Dr. Patangrao kadam Mahavidyalaya Ramanandnagar(Burli)

Department of BCA

Value Added Course- 2024-2025

Data Visualization in Microsoft Power BI

**Student List**

| Roll No. | Name of the Student          |
|----------|------------------------------|
| 2451     | BHOSALE SAKSHI DINKAR        |
| 2452     | BHOSALE KOMAL VIKAS          |
| 2453     | DESHMUKH VIDULA BHALACHANDRA |
| 2454     | DHEBE MAYURI JANU            |
| 2455     | DHEBE VISHAL JANU            |
| 2456     | GURAV HARSHAD NILESH         |
| 2457     | HARUGADE GOURI SACHIN        |
| 2458     | HARUGADE SANIKA SACHIN       |
| 2459     | INGALE PRANJALI MARUTI       |
| 2460     | JADHAV BHUMIKA VINOD         |
| 2461     | JADHAV MADHURA DINKAR        |
| 2462     | JADHAV NIKHIL ANKUSH         |
| 2463     | JADHAV PRATIK ANANDA         |
| 2464     | JADHAV VAIBHAV SANJAY        |
| 2465     | JAGADALE MAYUR SURESH        |
| 2466     | JAGADALE PRATHAMESH AKSHOK   |
| 2467     | KADAM SUDESH VISHWAS         |
| 2468     | KHUBIKAR SHREEYASH SANDEEP   |
| 2469     | KUMBHAR SANKET DIPAK         |
| 2470     | LAD ADITYA BHAGWAN           |
| 2471     | LONDHE MANJUSHA AMIT         |
| 2472     | MAID KRUSHNA SURESH          |
| 2473     | MAKANDAR INZMAM AKILAHMAD    |



|      |                                |
|------|--------------------------------|
| 2474 | MANE ONKAR SANJAY              |
| 2475 | MANE PURVA SANDIP              |
| 2476 | MASKE NAYAN NANDKUMAR          |
| 2477 | NADAF KASHISH ABDULLA          |
| 2478 | NALAWADE SHIVAM SUNIL          |
| 2479 | NALAWADEPATIL ASHUTOSH JAGDISH |
| 2480 | PATIL ANJALI ARJUN             |
| 2481 | PATIL ANKITA HANMANT           |
| 2482 | PATOLE NAYAN SUNIL             |
| 2483 | PAWAR YASH KIRAN               |
| 2484 | PAWAR AMAR PRAKASH             |
| 2485 | PAWAR PRATIK RAMCHANDRA        |
| 2486 | RAJMANE YASHRAJ SANJAYKUMAR    |
| 2487 | RAKSHE PRATHAMESH SHANKAR      |
| 2488 | SADAMATE SHREYA DILIP          |
| 2489 | SARGAR DIPALI BALASO           |
| 2490 | SAWANT SHRIRAM POPAT           |
| 2491 | SHIKALGAR ANSAR ASLAM          |
| 2492 | SHIVADE SANIKA MARUTI          |
| 2493 | SINGH RAMAPATI UMASHANKAR      |
| 2494 | SOLAPURE AASIF DASTAGIR        |

  
**Head of Department**

Value Added Course- 2024-2025

## Data Visualization in Microsoft Power BI

## Attendance Sheet

Time: 10.00 am to 11.00 am

Month: February

[illegible]



|    |                                |            |            |         |            |            |            |            |            |            |            |            |            |
|----|--------------------------------|------------|------------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 15 | JAGADALE MAYUR SURESH          | N.S.J.     | N.S.J.     | N.S.J.  | N.S.J.     | AB         | AB         | N.S.J.     | N.S.J.     | N.S.J.     | N.S.J.     | AB         | N.S.J.     |
| 16 | JAGADALE PRATHAMESH ANSHOK     | Prathamesh | Prathamesh | AB      | Prathamesh | Prathamesh | Prathamesh | Prathamesh | Prathamesh | Prathamesh | Prathamesh | Prathamesh | Prathamesh |
| 17 | KADAM SUDESH VISHWAS           | Kadam      | Kadam      | Kadam   | Kadam      | Kadam      | Kadam      | Kadam      | Kadam      | Kadam      | Kadam      | Kadam      | Kadam      |
| 18 | KHUBIKAR SHREEYASH SANDEEP     | Sir        | Sir        | Sir     | AB         | Sir        | Sir        | AB         | Sir        | Sir        | Sir        | Sir        | Sir        |
| 19 | KUMBHAR SANKET DIPAK           | Sanket     | Sanket     | Sanket  | AB         | Sanket     | Sanket     | Sanket     | Sanket     | Sanket     | Sanket     | Sanket     | Sanket     |
| 20 | LAD ADITYA BHAGWAN             | Blad       | Blad       | Blad    | Blad       | Blad       | Blad       | Blad       | Blad       | Blad       | Blad       | Blad       | Blad       |
| 21 | LONDHE MANUSHA AMIT            | L.M.A      | L.M.A      | L.M.A   | L.M.A      | L.M.A      | L.M.A      | L.M.A      | L.M.A      | L.M.A      | L.M.A      | L.M.A      | L.M.A      |
| 22 | MAID KRUSHNA SURESH            | Krishna    | Krishna    | Krishna | Krishna    | Krishna    | Krishna    | Krishna    | Krishna    | Krishna    | Krishna    | Krishna    | Krishna    |
| 23 | MAKANDAR INZAMAD AKILAHMAD     | Mk         | Mk         | AB      | AB         | Inzam      | Inzam      | Inzam      | Inzam      | Inzam      | Inzam      | Inzam      | Inzam      |
| 24 | MANE ONKAR SANJAY              | Mane       | Mane       | Mane    | Mane       | Mane       | Mane       | Mane       | Mane       | Mane       | Mane       | Mane       | Mane       |
| 25 | MANE PURVA SANDIP              | Mane       | Mane       | Mane    | Mane       | Mane       | Mane       | Mane       | Mane       | Mane       | Mane       | Mane       | Mane       |
| 26 | MASKE NAYAN NANDKUMAR          | N.M.N      | N.M.N      | N.M.N   | AB         | N.M.N      | N.M.N      | N.M.N      | N.M.N      | N.M.N      | N.M.N      | N.M.N      | N.M.N      |
| 27 | NADAF KASHISH ABDULLA          | Nadaf      | Nadaf      | Nadaf   | Nadaf      | Nadaf      | Nadaf      | Nadaf      | Nadaf      | Nadaf      | Nadaf      | Nadaf      | Nadaf      |
| 28 | NALAWADE SHIVAM SUNIL          | Shivam     | Shivam     | Shivam  | Shivam     | Shivam     | Shivam     | Shivam     | Shivam     | Shivam     | Shivam     | Shivam     | Shivam     |
| 29 | NALAWADEPATIL ASHUTOSH JAGDISH | Patil      | Patil      | Patil   | Patil      | Patil      | Patil      | Patil      | Patil      | Patil      | Patil      | Patil      | Patil      |
| 30 | PATIL ANJALI ARJUN             | Patil      | Patil      | A.Patil | A.Patil    | A.Patil    | A.Patil    | A.Patil    | A.Patil    | A.Patil    | A.Patil    | A.Patil    | A.Patil    |
| 31 | PATIL ANKITA HANMANT           | Patil      | AB         | Patil   | Patil      | Patil      | Patil      | Patil      | Patil      | Patil      | Patil      | Patil      | Patil      |
| 32 | PATOLE NAYAN SUNIL             | Patole     | Patole     | Patole  | Patole     | Patole     | Patole     | Patole     | Patole     | Patole     | Patole     | Patole     | Patole     |
| 33 | PAWAR YASH KIRAN               | Yash       | Yash       | Yash    | Yash       | Yash       | Yash       | Yash       | Yash       | Yash       | Yash       | Yash       | Yash       |
| 34 | PAWAR AMAR PRAKASH             | ABP        | ABP        | AB      | ABP        | ABP        | ABP        | ABP        | ABP        | ABP        | ABP        | ABP        | ABP        |



|    |                               |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
|----|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 35 | PAWAR PRATIK<br>RAMCHANDRA    | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 36 | RAJMANE YASHRAJ<br>SANAYKUMAR | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 37 | RAKSHI PRATHAMESH<br>SHANKAR  | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 38 | SADAMATE SHREYA DILIP         | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 39 | SARGAR DIPALI BALASO          | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 40 | SAWANT SHRIRAM POPAT          | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 41 | SHIKALGAR ANSAR ASLAM         | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 42 | SHIVADE SANIKA MARUTI         | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 43 | SINGH RAMAPATI<br>UMASHANKAR  | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 44 | SOLAPURE AASIF DASTAGIR       | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |

Agarwal

Head of Dept.  
Department of BCA  
Dr. Patergao Kadam Mahavidyalaya,  
Rajmangalpur (Bulvi)



## Value Added Course Data Visualization on in Microsoft Power BI Test

All Questions are compulsory

Total Marks: 40

\*indicates required questions

Email \*:-----

1. What is Power BI used for? \* 2 point
  - a) Gaming
  - b) Data Visualization
  - c) Photo Editing
  - d) Video Streaming
  
2. What does BI stand for in Power BI? \* 2 point
  - a) Basic Information
  - b) Business Intelligence
  - c) Binary Input
  - d) Big Integration
  
3. Which of the following is a component of Power BI? \* 2 point
  - a) PowerPoint
  - b) Power BI Desktop
  - c) Excel
  - d) Word
  
4. What is the main use of Power BI Desktop? \* 2 point
  - a) Creating reports and dashboards
  - b) Sending emails
  - c) Writing code
  - d) Making presentations
  
5. What is the first step before creating a report in Power BI? \* 2 point
  - a) Installing PowerPoint

<https://docs.google.com/forms/d/e/1FAIpQLSctyERbagsRHTp4fEBzB2w2iOTNeYEFikBC-kssYYHTwQafwQ/viewform?usp=header>



- b) Connecting to a data source
  - c) Writing a program
  - d) Sending an email
6. Power BI is developed by which company? \* 2 point
- a) Google
  - b) Microsoft
  - c) Amazon
  - d) Apple
7. Which file formats can Power BI use as a data source? \* 2 point
- a) Excel
  - b) CSV
  - c) PDF
  - d) All of the above
8. What is the role of Power Query in Power BI? \* 2 point
- a) To clean and transform data
  - b) To send emails
  - c) To design web pages
  - d) To play music
9. Which database is commonly used with Power BI? \* 2 point
- a) SQL Server
  - b) Photoshop
  - c) Notepad
  - d) Paint
10. How can you extract data from multiple files in a folder? \* 2 point
- a) By manually copying data
  - b) By using the "Combine & Transform" option
  - c) By writing a long code

<https://docs.google.com/forms/d/e/1FAIpQLSctyERbagsRHTp4fEBzB2w2iOTNeYEFikBC-kssYYHTwQafwQ/viewform?usp=header>

d) By renaming all files

11. What does ETL stand for? \*

2 point

- a) Extract, Transform, Load
- b) Edit, Transfer, Log
- c) Encrypt, Transfer, Load
- d) Execute, Transfer, Log

12. Which of the following is a method to extract data in Power BI? \*

2 point

- a) Import
- b) Direct Query
- c) Live Connection
- d) All of the above

13. What is classification in data analysis? \*

2 point

- a) Grouping similar data into categories
- b) Randomly arranging data
- c) Hiding data
- d) Deleting unwanted data

14. Which algorithm is used for classification? \*

2 point

- a) K-Means
- b) Logistic Regression
- c) Hierarchical Clustering
- d) None of the above

15. What is the purpose of classification? \*

2 point

- a) To predict categories for new data
- b) To remove unwanted files
- c) To convert data into pictures
- d) To increase file size

<https://docs.google.com/forms/d/e/1FAIpQLSctyERbagsRHTp4fEBzB2w2iOTNeYEFikBC-kssYYHTwQafwQ/viewform?usp=header>



16. Which of the following is used for classification? \*

2 point

- a) Decision Trees
- b) K-Means
- c) Hierarchical Clustering
- d) Silhouette Score

17. Which of the following is a clustering method? \*

2 point

- a) K-Means
- b) Decision Trees
- c) Linear Regression
- d) Logistic Regression

18. What is the main goal of clustering? \*

2 point

- a) To find hidden patterns in data
- b) To sort files alphabetically
- c) To delete duplicate data
- d) To encrypt files

19. Which clustering method does not require the number of clusters to be specified in advance? \*

2 point

- a) Hierarchical Clustering
- b) K-Means
- c) Logistic Regression
- d) Decision Trees

20. In K-Means clustering, what is a centroid? \*

2 point

- a) The centre of a cluster
- b) The smallest value in a dataset
- c) The total number of data points
- d) A random number

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**Google Forms**

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Rayat Shikshan Sanstha's  
Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

**Department of BCA**

**Value Added Course- 2024-2025**

**Data Visualization in Microsoft Power BI**

**Result**

| <b>Sr. No</b> | <b>Name of Student</b>      | <b>Result</b> |
|---------------|-----------------------------|---------------|
| 1.            | Jadhav Bhumika Vinod        | 40/40         |
| 2.            | Bhosale Komal Vikas         | 36/40         |
| 3.            | Singh Ramapati Umashankar   | 36/40         |
| 4.            | Shivade Sanika Maruti       | 38/40         |
| 5.            | Patole Nayan Sunil          | 34/40         |
| 6.            | Gurav Harshad Nilesh        | 34/40         |
| 7.            | Patil Anjali                | 36/40         |
| 8.            | Harugade Sanika Sachin      | 30/40         |
| 9.            | Ingale Pranjali Maruti      | 38/40         |
| 10.           | Nalawade Shivam Sunil       | 38/40         |
| 11.           | Jadhav Madhura Dinkar       | 38/40         |
| 12.           | Mane Purva Sandip           | 38/40         |
| 13.           | Nadaf Kashish Abdulla       | 26/40         |
| 14.           | Jadhav Vaibhav Sanjay       | 30/40         |
| 15.           | Rajmane Yashraj Sanjaykumar | 32/40         |
| 16.           | Sadamate Shreya Dilip       | 38/40         |
| 17.           | Kadam Sudesh Vishwas        | 26/40         |
| 18.           | Mane Onkar Sanjay           | 32/40         |
| 19.           | Kumbhar Sanket Dipak        | 30/40         |
| 20.           | Pawar Amar Prakash          | 30/40         |
| 21.           | Londhe Manjusha Amit        | 32/40         |

|     |                                |       |
|-----|--------------------------------|-------|
| 22. | Maske Nayan Nandkumar          | 28/40 |
| 23. | Makandar Inzmam Akilahmad      | 30/40 |
| 24. | Khubikar Shreeyash Sandeep     | 28/40 |
| 25. | Jadhav Nikhil Ankush           | 30/40 |
| 26. | Maid Krushna Suresh            | 34/40 |
| 27. | Jadhav Pratik Ananda           | 30/40 |
| 28. | Bhosale Sakshi Dinkar          | 36/40 |
| 29. | Sargar Dipali Balaso           | 34/40 |
| 30. | Arjun Harugade Gouri Sachin    | 32/40 |
| 31. | Patil Ankita Hanmant           | 30/40 |
| 32. | Dhebe Vishal Janu              | 30/40 |
| 33. | Pawar Yash Kiran               | 38/40 |
| 34. | Lad Aditya Bhagwan             | 30/40 |
| 35. | Pawar Pratik Ramchandra        | 30/40 |
| 36. | Jagadale Mayur Suresh          | 30/40 |
| 37. | Rakshe Prathamesh Shankar      | 32/40 |
| 38. | Jagadale Prathamesh Akshok     | 28/40 |
| 39. | Nalawadepatil Ashutosh Jagdish | 26/40 |
| 40. | Sawant Shriram Popat           | 30/40 |
| 41. | Shikalgar Ansar Aslam          | 26/40 |
| 42. | Dhebe Mayuri Janu              | 30/40 |
| 43. | Deshmukh Vidula Bhalachandra   | 28/40 |
| 44. | Solapure Aasif Dastagir        | 26/40 |



Rayat Shikshan Sanstha's  
Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar(Burli)

Department of BCA

Value Added Course- 2024-2025

Data Visualization in Microsoft Power BI

**Time Table**

| Date       | Name of Faculty    | Time               |
|------------|--------------------|--------------------|
| 03/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 04/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 05/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 06/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 07/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 08/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 10/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 11/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 12/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 13/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 14/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 15/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 17/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 18/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 20/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 21/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 22/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 24/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 25/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |

|            |                    |                    |
|------------|--------------------|--------------------|
| 27/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 28/02/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 01/03/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 03/03/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |
| 04/03/2025 | Ms. Arpita P.Kadam | 10.00AM To 11.00AM |

**Prof. Satape A.A**  
(Chairman)

Kadam  
**Prof. Kadam A.P**  
(Co-coordinator)

Borade N.S.  
**Prof. Borade N.S**  
(Head of Department)

Rayat Shikshan Sanstha's  
Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

Department of BCA

## Value Added Course 2024-2025

**“Value Added Course-Data Visualization in Microsoft Power BI”**

### CERTIFICATE

This is to certify that Shri. / Smt. Bhumika Vinod Jadhav of Dr. Patangrao Kadam

Mahavidyalaya Ramanandnagar (Burli) Participated Three Month's Value Added Course “Microsoft Power BI”

Organized by Department of BCA, From 3.02.2025 To 04.03.2025.

Kadam  
(Mrs. Kadam A. P.)  
Chairman

Prof. Borade  
(Prof. Borade N.S.)  
Head of Dept.

Patangrao  
Principal  
(Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli))