



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY
Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.
Accredited by NAAC with "A" Grade
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



REQUISITION LETTER

From,

Head of the Department,
Computer Science and Engineering,
JKK Munirajah College of Technology,
T.N. Palayam.

To,

The Principal,
JKK Munirajah College of Technology,
T.N. Palayam.

Permission
[Signature]

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program- Reg

We have planned to conduct a certificate program for III- and IV-year Computer Science and Engineering students on **"DATA VISUALIZATION WITH POWER BI: ADVANCED DASHBOARD TECHNIQUES"** from **21.08.2023 to 26.08.2023** by Program Coordinator **Mr.S.THIRUNVUKKARASU**, So, I request you to kindly provide a permission to conduct the certificate program.

Thanking You,

Place: T.N. Palayam

Date: 16.08.2023

[Signature]
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Gobi (Tk), Erode (Dt).

Yours Truly,

[Signature]
16/8/23
807 kindly permit



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JKKMCT/CIRCULAR/AUG-23

17/08/2023

CIRCULAR

The Department of Computer Science and Engineering is planning to organize a Certificate Program on "DATA VISUALIZATION WITH POWER BI: ADVANCED DASHBOARD TECHNIQUES" (36 Hours) for the benefit of the students from 21.08.2023 (Monday) to 26.08.2023 (Tuesday). Students those who are willing to attend the Program can enroll their names to their class in-charges respectively on or before 18.08.2023

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Copy To,
All the HODs and Staff Members,
All the Students,
Notice Board, File





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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM SYLLABUS

Name of the Certificate Program : **DATA VISUALIZATION WITH POWER BI: ADVANCED DASHBOARD TECHNIQUES**

Program Code : 23CSEDVPBIADTCP01

Name of the Program Coordinator: Mr.S.THIRUNAVUKKARASU

Academic Year: 2023-2024

Program Contents

Total Hours: 36

Chapter 1: Power BI: Data Transformation, Advanced Modeling, and Time Intelligence


- Navigating Power BI Desktop and Importing Data
- Basic Data Cleaning and Transformation with Power Query
- Establishing Relationships: One-to-Many, Many-to-Many
- Introduction to Calculated Columns, Measures, and Tables
- Data Modelling: Star and Snowflake Schemas, Relationship Management
- Time-Based Calculations: Creating Date Tables and YTD, QTD, MTD Measures

Chapter 2: Advanced Visualizations and Interactivity

- Using advanced charts, custom visuals
- Conditional formatting
- Design dynamic dashboards with slicers and bookmarks
- Implementing slicers and filters for interactivity
- Dynamic titles and KPIs
- Hands-on: Build interactive dashboards with slicers

Chapter 3: Advanced DAX Calculations

- Basic to advanced DAX functions (CALCULATE, FILTER)
- Custom calculated measures and columns
- Using DAX for complex business metrics (e.g., YoY, Sales Growth)
- Hands-on: Create advanced DAX measures for metrics
- Optimizing DAX Performance for Large Datasets
- Debugging and Troubleshooting DAX Formulas


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Chapter 4: Power BI Service and Sharing Dashboards

- Publishing to Power BI Service
- Creating and managing workspaces and apps
- Sharing reports and dashboards
- Collaborating with teams and setting up alerts
- Hands-on: Share a dashboard and set up collaboration features
- Configuring Data Refresh and Scheduled Updates
- Embedding Power BI Reports in External Applications or Websites

Chapter 5: Performance Optimization Techniques

- Reducing model size (Star schema, aggregations)
- DirectQuery vs Import Mode
- Performance tuning with query folding
- Aggregations and incremental refresh
- Hands-on: Optimize and improve report performance
- Using Composite Models for Enhanced Performance
- Monitoring and Analyzing Power BI Performance with Performance Analyzer

Chapter 6: Final Project and Wrap-Up

- Building Interactive Dashboards with Advanced Visuals and DAX
- Optimizing Performance and Enhancing User Experience
- Final Project Presentation: Showcasing Power BI Solutions
- Review of Key Concepts and Next Steps for Advanced Learning
- Integrating Power BI with Other Microsoft Tools (Excel, Azure, etc.)
- Utilizing Power BI Mobile for On-the-Go Access


Prepared by:

Name: **S. THIRUNAVUKKARASO**

Designation: **LEAD ENGINEER**


PROGRAM COORDINATOR


HOD


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM SCHEDULE

Name of the Certificate Program : DATA VISUALIZATION WITH POWER BI:
ADVANCED DASHBOARD TECHNIQUES

Program Code : 23CSEDVPBIADTCP01

Name of the Program Coordinator : Mr.S.THIRUNAVUKKARASU

Program Period : 21.02.2023 to 26.08.2023

| Date/ Time | 9:30AM to 11:30AM (2 Hours) | | 11.45 AM to 12.45PM (1 Hour) | | 1:30 PM to 4.30 PM (3 Hours) |
|------------|---|--------------|--|--------------|--|
| 21.08.2023 | Navigating Power BI Desktop and Importing Data, Basic Data Cleaning and Transformation with Power Query | BREAK | Establishing Relationships: One-to-Many, Many-to-Many, Introduction to Calculated Columns, Measures, and Tables | LUNCH | Data Modelling: Star and Snowflake Schemas, Relationship Management, Time-Based Calculations: Creating Date Tables and YTD, QTD, MTD Measures |
| 22.08.2023 | Using advanced charts, custom visuals, Conditional formatting | | Design dynamic dashboards with slicers and bookmarks, Implementing slicers and filters for interactivity | | Dynamic titles and KPIs, Hands-on: Build interactive dashboards with slicers |
| 23.08.2023 | Basic to advanced DAX functions (CALCULATE, FILTER), Custom calculated measures and columns | | Using DAX for complex business metrics (e.g., YoY, Sales Growth), Hands-on: Create advanced DAX measures for metrics | | Optimizing DAX Performance for Large Datasets, Debugging and Troubleshooting DAX Formulas |
| 24.08.2023 | Publishing to Power BI Service, Creating and managing workspaces and apps | | Sharing reports and dashboards, collaborating with teams and setting up alerts | | Hands-on: Share a dashboard and set up collaboration features, Configuring Data Refresh and Scheduled Updates, Embedding Power BI Reports in External Applications or Websites |


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| | | | |
|------------|--|--|---|
| 25.08.2023 | Reducing model size (Star schema, aggregations), DirectQuery vs Import Mode | Performance tuning with query folding, Aggregations and incremental refresh | Hands-on: Optimize and improve report performance, Using Composite Models for Enhanced Performance, Monitoring and Analyzing Power BI Performance with Performance Analyzer |
| 26.08.2023 | Building Interactive Dashboards with Advanced Visuals and DAX, Optimizing Performance and Enhancing User Experience | Final Project Presentation: Showcasing Power BI Solutions, Review of Key Concepts and Next Steps for Advanced Learning | Integrating Power BI with Other Microsoft Tools (Excel, Azure, etc.), Utilizing Power BI Mobile for On-the-Go Access |

PROGRAM COORDINATOR

HOD

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RESOURCE PERSON PROFILE

| | |
|---|---|
| Title of the Programme | DATA VISUALIZATION WITH POWER BI: ADVANCED DASHBOARD TECHNIQUES |
| Duration and Timing of the Programme | 36 Hours and 9.30 AM to 4.30 PM |
| Name of the Resource Person | Mr.S.THIRUNAVUKKARASU |
| Photo Image of the Resource Person |  |
| E-mail | Sadaiyappan.thirunavukkarasu@in.bosch.com |
| Mobile No: | 9787200445 |
| Designation | Lead Engineer |
| Official Address | Bosch Global Software Technologies Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore 641035 |
| Educational Qualification | M.Tech, MBA |
| Experience | 13 Year experience |
| Field of Interest | Artificial Intelligence, Data Science |


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2023-2024

WILLING STUDENTS NAMELIST

CERTIFICATE PROGRAM ON DATA VISUALIZATION WITH POWER BI:

ADVANCED DASHBOARD TECHNIQUES

| S.NO | REGISTER NUMBER | NAME | WILLINGNESS | | |
|---------|-----------------|-------------------|-------------|----|-------------------|
| | | | YES | NO | SIGN |
| IV YEAR | | | | | |
| 1 | 731220104001 | ABINAYA G | ✓ | | W. Abinaya |
| 2 | 731220104003 | BALU R | ✓ | | R. Balu |
| 3 | 731220104004 | CHARLES WILLIAM.L | ✓ | | L. Charles |
| 4 | 731220104005 | DEEPAK.S | ✓ | | S. Deepak |
| 5 | 731220104006 | DEEPIKA.S | ✓ | | S. Deepika |
| 6 | 731220104007 | DHARANISELVI. M | ✓ | | M. Dhara |
| 7 | 731220104009 | JAGATHESWARAN.P | ✓ | | P. Jagatheswaran |
| 8 | 731220104010 | KARUNYAA.M | ✓ | | M. Karunya |
| 9 | 731220104011 | KATHIRESAN.K | ✓ | | K. Kathiresan |
| 10 | 731220104012 | KAVIN.M | ✓ | | M. Kavin |
| 11 | 731220104014 | LOGANATHAN.T | ✓ | | T. Loganathan |
| 12 | 731220104019 | NIRMALRAJ.S | ✓ | | S. Nirmalraj |
| 13 | 731220104021 | RAMYA.S | ✓ | | S. Ramya |
| 14 | 731220104022 | ROHITH.R | ✓ | | R. Rohith |
| 15 | 731220104023 | ROSHMA I | ✓ | | I. Roshma |
| 16 | 731220104024 | SIVALINGAM.K | ✓ | | K. Sivalingam |
| 17 | 731220104025 | SUNDARAGANESAN.K | ✓ | | K. Sundaraganesan |
| 18 | 731220104028 | VIGNESH.M | ✓ | | M. Vignesh |

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| | | | | | |
|-----------------|--------------|---------------------|---|----|-------------------|
| 19 | 731220104029 | VINISHA.T | ✓ | | T. Vinisha |
| 20 | 731220104030 | VINITHA.A | ✓ | | A. Vinitha |
| 21 | 731220104031 | VINOTHKUMAR.R | ✓ | | D. Vinothkumar |
| 22 | 731220104301 | BOOPALAN.M | ✓ | | B. Boopalan.M |
| 23 | 731220104302 | DHAMODARAN.G | ✓ | | D. Dharmodaran.G |
| III YEAR | | | | | |
| 24 | 731221104001 | AADHI SURYA K | ✓ | | K. Aadhi |
| 25 | 731221104004 | ARULMURUGAN S | ✓ | | S. Arulmurugan |
| 26 | 731221104005 | BABUSHANKAR S | ✓ | | S. Babushankar |
| 27 | 731221104007 | BAMBAVASAN V | ✓ | | V. Bambavasana |
| 28 | 731221104008 | CHANDRA PRAKASH K | ✓ | | K. Chandraprakash |
| 29 | 731221104009 | DHAKSHINA MOORTHY E | ✓ | | E. Dhakshina |
| 30 | 731221104012 | DURGA K | ✓ | | K. Durga |
| 31 | 731221104013 | GUNASEKARAN P | ✓ | | P. Gunasekaran |
| 32 | 731221104014 | GUNASEKARAN S | ✓ | | S. Gunasekaran |
| 33 | 731221104015 | HARIPRABHA V | ✓ | | V. Hariprabha |
| 34 | 731221104017 | KAMALESH K | | NO | K. Kamalesh |
| 35 | 731221104021 | LALITHA T | ✓ | | T. Lalitha |
| 36 | 731221104022 | MADHAN G | ✓ | | G. Madhan |
| 37 | 731221104025 | MOUSIKA S | ✓ | | S. Mousika |
| 38 | 731221104026 | NANDHINI P | ✓ | | P. Nandhini |
| 39 | 731221104027 | PANDIYARAJ P | ✓ | | P. Pandiyaraj |
| 40 | 731221104028 | PRIYA DHARSHINI S | ✓ | | S. Priya |
| 41 | 731221104029 | RAVI KUMAR P | | ✓ | P. Ravikumar |
| 42 | 731221104031 | RUBIKA G | ✓ | | G. Rubika |

[Handwritten Signature]

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| | | | | | |
|-------------------------|--------------|------------------|---|---|-------------------------|
| 43 | 731221104033 | SHYAMKUMAR S | ✓ | | <i>Suma</i> |
| 44 | 731221104034 | SENTHILVEL S | ✓ | | <i>D. Senthilvel</i> |
| 45 | 731221104035 | SUGANYA K | ✓ | | <i>Suganya</i> |
| 46 | 731221104036 | SURYA S | | ✓ | <i>Surya</i> |
| 47 | 731221104037 | SUSHMINA M | ✓ | | <i>m.sushmina</i> |
| 48 | 731221104038 | VASANTHKUMAR S | ✓ | | <i>Vasanthkumar</i> |
| 49 | 731221104039 | VIGNESH M | ✓ | | <i>Vignesh</i> |
| 50 | 731221104040 | YAMUNA K | ✓ | | <i>Yamuna</i> |
| 51 | 731221104301 | AMUTHAMALAR R | ✓ | | <i>P. Arul</i> |
| 52 | 731221104302 | BHARANI DHARAN.M | ✓ | | <i>B. Sri</i> |
| 53 | 731221104303 | GAYATHRI R | ✓ | | <i>R. Gayathri</i> |
| 54 | 731221104305 | NANDINI M | ✓ | | <i>Nandini</i> |
| 55 | 731221104306 | SNEHA L | ✓ | | <i>Sneha</i> |
| 56 | 731221104307 | SRINIVAS V | ✓ | | <i>Srinivas V</i> |
| 57 | 731221104308 | SUBASHINI P | ✓ | | <i>Subashini</i> |
| 58 | 731221104701 | NIKETHA S | ✓ | | <i>Niketha S</i> |
| M.E-CSE - I YEAR | | | | | |
| 59 | 731223405001 | ADHISESHAN N | ✓ | | <i>N. Adhishan</i> |
| 60 | 731223405003 | MATHIAZHAGAN M | ✓ | | <i>M. Mathiazhagan</i> |
| 61 | 731223405004 | POORNIMA K | ✓ | | <i>P. Poornima</i> |
| 62 | 731223405005 | PRIYADHARSINI T | ✓ | | <i>P. Priyadharsini</i> |
| 63 | 731223405006 | SATHIYAPRIYA M | ✓ | | <i>S. Sathyapriya</i> |
| 64 | 731223405007 | SNEHALAL T V | ✓ | | <i>S. Snehalal T V</i> |

[Signature]
PROGRAM COORDINATOR

[Signature]
HOD

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[Signature]
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2023-2024

**CERTIFICATE PROGRAM ON DATA VISUALIZATION WITH
POWER BI: ADVANCED DASHBOARD TECHNIQUES
ENROLLED STUDENTS NAMELIST**

DATE: 21.08.2023 to 26.08.2023

| S.NO | REG. NO | NAME |
|----------------|--------------|-------------------|
| IV YEAR | | |
| 1 | 731220104001 | ABINAYA G |
| 2 | 731220104003 | BALU R |
| 3 | 731220104004 | CHARLES WILLIAM.L |
| 4 | 731220104005 | DEEPAK.S |
| 5 | 731220104006 | DEEPIKA.S |
| 6 | 731220104007 | DHARANISELVI. M |
| 7 | 731220104009 | JAGATHESWARAN.P |
| 8 | 731220104010 | KARUNYAA.M |
| 9 | 731220104011 | KATHIRESAN.K |
| 10 | 731220104012 | KAVIN.M |
| 11 | 731220104014 | LOGANATHAN.T |
| 12 | 731220104019 | NIRMALRAJ.S |
| 13 | 731220104021 | RAMYA.S |
| 14 | 731220104022 | ROHITH.R |
| 15 | 731220104023 | ROSHMA I |
| 16 | 731220104024 | SIVALINGAM.K |
| 17 | 731220104025 | SUNDARAGANESAN.K |
| 18 | 731220104028 | VIGNESH.M |
| 19 | 731220104029 | VINISHA.T |
| 20 | 731220104030 | VINITHA.A |
| 21 | 731220104031 | VINOTHKUMAR.R |
| 22 | 731220104301 | BOOPALAN.M |
| 23 | 731220104302 | DHAMODARAN.G |


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| III YEAR | | |
|----------|--------------|--------------------|
| 24 | 731221104001 | AADHI SURYA K |
| 25 | 731221104004 | ARULMURUGAN S |
| 26 | 731221104005 | BABUSHANKAR S |
| 27 | 731221104007 | BAMBAVASAN V |
| 28 | 731221104008 | CHANDRA PRAKASH K |
| 29 | 731221104009 | DHAKSHINA MOORTHIE |
| 30 | 731221104012 | DURGA K |
| 31 | 731221104013 | GUNASEKARAN P |
| 32 | 731221104014 | GUNASEKARAN S |
| 33 | 731221104015 | HARIPRABHA V |
| 34 | 731221104021 | LALITHA T |
| 35 | 731221104022 | MADHAN G |
| 36 | 731221104025 | MOUSIKA S |
| 37 | 731221104026 | NANDHINI P |
| 38 | 731221104027 | PANDIYARAJ P |
| 39 | 731221104028 | PRIYA DHARSHINI S |
| 40 | 731221104031 | RUBIKA G |
| 41 | 731221104033 | SHYAMKUMAR S |
| 42 | 731221104034 | SENTHILVEL S |
| 43 | 731221104035 | SUGANYA K |
| 44 | 731221104037 | SUSHMINA M |
| 45 | 731221104038 | VASANTHKUMAR S |
| 46 | 731221104039 | VIGNESH M |
| 47 | 731221104040 | YAMUNA K |
| 48 | 731221104301 | AMUTHAMALAR R |
| 49 | 731221104302 | BHARANI DHARAN.M |
| 50 | 731221104303 | GAYATHRI R |
| 51 | 731221104305 | NANDINI M |
| 52 | 731221104306 | SNEHA L |
| 53 | 731221104307 | SRINIVAS V |
| 54 | 731221104308 | SUBASHINI P |
| 55 | 731221104701 | NIKETHA S |


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| M.E CSE – I YEAR | | |
|------------------|--------------|-----------------|
| 56 | 731223405001 | ADHISESHAN N |
| 57 | 731223405003 | MATHIYAZHAGAN M |
| 58 | 731223405004 | POORNIMA K |
| 59 | 731223405005 | PRIYADHARSINI T |
| 60 | 731223405006 | SATHIYAPRIYA M |
| 61 | 731223405007 | SNEHALAL T V |

PROGRAM COORDINATOR

HOD

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

CERTIFICATE PROGRAM ON DATA VISUALIZATION WITH POWER BI:

ADVANCED DASHBOARD TECHNIQUES

ATTENDANCE SHEET

| S. N O | REGISTER NO | NAME | ATTENDANCE OF THE PARTICIPANTS | | | | | | | | | | | |
|--------------|----------------|-------------------|--------------------------------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| | | | 21/8/2023 | | 22/8/2023 | | 23/8/2023 | | 24/8/2023 | | 25/8/2023 | | 26/8/2023 | |
| | | | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN |
| IV YEAR | | | | | | | | | | | | | | |
| 1 | 731220104001 | ABINAYA G | / | / | / | / | / | / | / | / | / | / | / | / |
| 2 | 731220104003 | BALU R | / | / | / | / | / | / | / | / | / | / | / | / |
| 3 | 731220104004 | CHARLES WILLIAM.L | / | / | / | / | / | / | / | / | / | / | / | / |
| 4 | 731220104005 | DEEPAK.S | / | / | / | / | / | / | / | / | / | / | / | / |
| 5 | 731220104006 | DEEPIKA.S | / | / | / | / | / | / | / | / | / | / | / | / |
| 6 | 731220104007 | DHARANISELVI. M | / | / | / | / | / | / | / | / | / | / | / | / |
| 7 | 731220104009 | JAGATHESWARAN.P | / | / | / | / | / | / | / | / | / | / | / | / |
| 8 | 731220104010 | KARUNYAA.M | / | / | / | / | / | / | / | / | / | / | / | / |
| 9 | 731220104011 | KATHIRESAN.K | / | / | / | / | / | / | / | / | / | / | / | / |
| 10 | 731220104012 | KAVIN.M | / | / | / | / | / | / | / | / | / | / | / | / |
| 11 | 731220104014 | LOGANATHAN.T | / | / | / | / | a | a | / | / | / | / | / | / |
| 12 | 731220104019 | NIRMALRAJS | / | / | / | / | / | / | / | / | / | / | / | / |
| 13 | 731220104021 | RAMYA.S | / | / | / | / | / | / | / | / | / | / | / | / |
| 14 | 731220104022 | ROHITH.R | / | / | / | / | / | / | / | / | / | / | / | / |
| 15 | 731220104023 | ROSHMA I | / | / | / | / | / | / | / | / | / | / | / | / |

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|----|--------------|------------------|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 731220104024 | SIVALINGAM.K | / | / | / | / | / | / | / | / | / | / | / |
| 17 | 731220104025 | SUNDARAGANESAN.K | / | / | / | / | / | / | / | / | / | / | / |
| 18 | 731220104028 | VIGNESH.M | / | / | / | / | / | / | / | / | / | / | / |
| 19 | 731220104029 | VINISHA.T | / | / | / | / | / | / | / | / | / | / | / |
| 20 | 731220104030 | VINITHA.A | / | / | / | / | / | / | / | / | / | / | / |
| 21 | 731220104031 | VINOTHKUMAR.R | / | / | / | / | / | / | / | / | / | / | / |
| 22 | 731220104301 | BOOPALAN.M | / | / | / | / | / | / | / | a | a | / | / |
| 23 | 731220104302 | DHAMODARAN.G | / | / | / | / | / | / | / | / | / | / | / |

III YEAR

| | | | | | | | | | | | | | |
|----|--------------|--------------------|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 731221104001 | AADHI SURYA K | / | / | / | / | / | / | / | / | / | / | / |
| 25 | 731221104004 | ARULMURUGAN S | / | / | / | / | / | / | / | / | / | / | / |
| 26 | 731221104005 | BABUSHANKAR S | / | / | / | / | / | / | / | / | / | / | / |
| 27 | 731221104007 | BAMBAVASAN V | / | / | / | / | / | / | / | / | / | / | / |
| 28 | 731221104008 | CHANDRA PRAKASH K | / | / | / | / | / | / | / | / | / | / | / |
| 29 | 731221104009 | DHAKSHINA MOORTHIE | / | / | / | / | / | / | / | / | / | / | / |
| 30 | 731221104012 | DURGA K | / | / | / | / | / | / | / | / | / | / | / |
| 31 | 731221104013 | GUNASEKARAN P | / | / | / | / | / | / | / | / | / | / | / |
| 32 | 731221104014 | GUNASEKARAN S | / | / | / | / | / | / | / | / | / | / | / |
| 33 | 731221104015 | HARIPRABHA V | / | / | / | / | / | / | / | / | / | / | / |
| 34 | 731221104021 | LALITHA T | / | / | / | / | / | / | / | / | / | / | / |
| 35 | 731221104022 | MADHAN G | / | / | / | / | / | / | / | a | a | / | / |
| 36 | 731221104025 | MOUSIKA S | / | / | / | / | / | / | / | / | / | / | / |
| 37 | 731221104026 | NANDHINI P | / | / | / | / | / | / | / | / | / | / | / |

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| | | | | | | | | | | | | | |
|----|--------------|-------------------|---|---|---|---|---|---|---|---|---|---|---|
| 38 | 731221104027 | PANDIYARAJ P | / | / | / | / | / | / | / | / | / | / | / |
| 39 | 731221104028 | PRIYA DHARSHINI S | / | / | / | / | / | / | / | / | / | / | / |
| 40 | 731221104031 | RUBIKA G | / | / | / | / | / | / | / | / | / | / | / |
| 41 | 731221104033 | SHYAMKUMAR S | / | / | / | / | a | a | / | / | / | / | / |
| 41 | 731221104034 | SENTHILVEL S | / | / | / | / | / | / | / | / | / | / | / |
| 43 | 731221104035 | SUGANYA K | / | / | / | / | / | / | / | / | / | / | / |
| 44 | 731221104037 | SUSHMINA M | / | / | / | / | / | / | / | / | / | / | / |
| 45 | 731221104038 | VASANTHKUMAR S | / | / | / | / | / | / | / | / | / | / | / |
| 46 | 731221104039 | VIGNESH M | / | / | / | / | / | / | / | / | / | / | / |
| 47 | 731221104040 | YAMUNA K | / | / | / | / | / | / | / | / | / | / | / |
| 48 | 731221104301 | AMUTHAMALAR R | / | / | / | / | / | / | / | / | / | / | / |
| 49 | 731221104302 | BHARANI DHARAN.M | / | / | a | a | / | / | / | / | / | / | / |
| 50 | 731221104303 | GAYATHRI R | / | / | / | / | / | / | / | / | / | / | / |
| 51 | 731221104305 | NANDINI M | / | / | / | / | / | / | / | / | / | / | / |
| 52 | 731221104306 | SNEHA L | / | / | / | / | / | / | / | / | / | / | / |
| 53 | 731221104307 | SRINIVAS V | / | / | / | / | / | / | / | / | / | / | / |
| 54 | 731221104308 | SUBASHINI P | / | / | / | / | / | / | / | / | / | / | / |
| 55 | 731221104701 | NIKETHA S | / | / | / | / | / | / | / | / | / | / | / |

M.E CSE – 1 YEAR

| | | | | | | | | | | | | | |
|----|--------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|
| 56 | 731223405001 | ADHISESHAN N | / | / | / | / | / | / | / | / | / | / | / |
| 57 | 731223405003 | MATHIYAZHAGAN M | / | / | / | / | / | / | / | / | / | / | / |
| 58 | 731223405004 | POORNIMA K | / | / | / | / | / | / | / | / | / | / | / |
| 59 | 731223405005 | PRIYADHARSINI T | / | / | / | / | / | / | / | / | / | / | / |

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| | | | | | | | | | | | | | | |
|--------------------------------------|--------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 60 | 731223405006 | SATHIYAPRIYA M | / | / | / | / | / | / | / | / | / | / | / | / |
| 61 | 731223405007 | SNEHALAL T V | / | / | / | / | / | / | / | / | / | / | / | / |
| TOTAL NO OF STUDENTS PRESENT | | | 61 | 61 | 60 | 60 | 59 | 59 | 61 | 61 | 59 | 59 | 61 | 61 |
| TOTAL NO OF STUDENTS ABSENT | | | NIL | NIL | 01 | 01 | 02 | 02 | NIL | NIL | 02 | 02 | NIL | NIL |
| SIGNATURE OF THE PROGRAM COORDINATOR | | | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| SIGNATURE OF THE HOD | | | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |

[Signature]
PROGRAM COORDINATOR

[Signature]
HOD

[Signature]
PRINCIPAL

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2023-2024

DATA VISUALIZATION WITH POWER BI: ADVANCED
DASHBOARD TECHNIQUES

ASSESSMENT

ANSWER ALL QUESTIONS (30*1=30 MARKS)

- 1. What is the primary purpose of Power BI?**
 - a) Data storage
 - b) Data analysis and visualization
 - c) Data cleaning
 - d) Data manipulation
- 2. Which Power BI component allows you to create interactive reports and dashboards?**
 - a) Power BI Desktop
 - b) Power BI Service
 - c) Power BI Gateway
 - d) Power BI Mobile
- 3. What is the role of Power BI Gateway?**
 - a) To publish reports to the Power BI Service
 - b) To connect on-premises data sources with the cloud
 - c) To clean and transform data
 - d) To display data on mobile devices
- 4. Which of the following is NOT a data source supported by Power BI?**
 - a) SQL Server
 - b) Excel
 - c) Google Sheets
 - d) Salesforce
- 5. What is Power Query used for in Power BI?**
 - a) Data visualization
 - b) Data transformation and loading
 - c) Data modeling
 - d) Creating dashboards

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6. **What is a "Measure" in Power BI?**
 - a) A static data values
 - b) A predefined field that cannot be modified
 - c) A calculation used to summarize data
 - d) A filter applied to data
7. **Which DAX function is used to calculate the running total in Power BI?**
 - a) SUM
 - b) CUMULATIVE
 - c) DATESYTD
 - d) RANKX
8. **What is the purpose of Power BI's "What-If" analysis?**
 - a) To predict future trends
 - b) To create visualizations for large datasets
 - c) To compare different scenarios based on input parameters
 - d) To filter the data dynamically
9. **What is a "Bookmark" in Power BI?**
 - a) A saved visualization
 - b) A method to navigate to specific pages within a report
 - c) A quick filter applied to data
 - d) A way to store raw data for reference
10. **Which feature in Power BI allows users to create dynamic reports with different views or settings?**
 - a) Conditional formatting
 - b) Bookmarks
 - c) Drillthrough
 - d) Query parameters
11. **What is a "Treemap" in Power BI used for?**
 - a) Displaying hierarchical data as nested rectangles
 - b) Showing trends over time
 - c) Comparing proportions of data


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- d) Displaying maps with geographical data
12. Which of the following visualizations would be most appropriate for displaying the relationship between two numerical variables?
- a) Scatter plot
 - b) Column chart
 - c) Line chart
 - d) Donut chart
13. What is the purpose of "Conditional Formatting" in Power BI?
- a) To apply color rules based on the data values
 - b) To highlight rows with missing data
 - c) To format numbers as currency
 - d) To change the font size
14. What is a "KPI" visual in Power BI?
- a) Key Performance Indicator, used to display the status of a metric
 - b) Key Pivot Indicator, used to summarize data
 - c) Known Parameter Indicator, used for filtering data
 - d) Key Progress Indicator, used for tracking project completion
15. What is "Drillthrough" in Power BI?
- a) A feature to zoom into specific data points for detailed analysis
 - b) A method to filter data by date range
 - c) A way to navigate to a different report page based on a selected value
 - d) A process to calculate running totals
16. Which of the following is a benefit of using "Slicers" in Power BI dashboards?
- a) To perform complex data calculations
 - b) To provide a way to filter data interactively
 - c) To change the underlying data model
 - d) To format charts dynamically
17. Which type of visualization would you use to represent geographic data in Power BI?
- a) Map
 - b) Pie chart
 - c) TreeMap


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- d) Bar chart
18. Which Power BI feature allows you to create a dynamic drill-down experience from one visualization to another?
- a) Drillthrough
 - b) Bookmarks
 - c) Hierarchy
 - d) Conditional formatting
19. What type of visual should you use to compare categories with multiple measures?
- a) Stacked column chart
 - b) Pie chart
 - c) Line chart
 - d) Card
20. What is the purpose of a "Line and Clustered Column Chart" in Power BI?
- a) To display both line and column charts in a single visual for comparison
 - b) To show the trend of data over time
 - c) To compare multiple categories against a single measure
 - d) To display geographic data on a map
21. What is a "Calculated Column" in Power BI?
- a) A column created from an existing column using DAX
 - b) A custom column used for slicers
 - c) A column created by importing external data
 - d) A column used for visual formatting
22. What is the "ALL" function in DAX used for?
- a) To return all values in a column, ignoring filters
 - b) To remove all columns in a table
 - c) To create a total sum of all values
 - d) To ignore date filters in a report
23. Which DAX function would you use to find the average value of a column?
- a) AVERAGE
 - b) SUM
 - c) COUNT


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- d) MIN
24. **What is a "Many-to-Many" relationship in Power BI?**
- a) A relationship between two tables where each row in one table can relate to multiple rows in the other table
 - b) A relationship where one table has unique values and the other table contains many duplicate values
 - c) A relationship where one table can have only one corresponding row in the other table
 - d) A relationship used exclusively for date-based models
25. **What is "Power BI Service" used for?**
- a) Data transformation
 - b) Data visualization and report creation
 - c) Cloud-based sharing and collaboration of Power BI reports
 - d) Connecting local data sources to Power BI
26. **Which feature allows you to apply complex data transformations in Power BI before loading data into the model?**
- a) Power Query Editor
 - b) Data View
 - c) DAX editor
 - d) Report View
27. **What is a "One-to-Many" relationship in Power BI?**
- a) A relationship where each row in the first table corresponds to multiple rows in the second table
 - b) A relationship where each row in the first table corresponds to one row in the second table
 - c) A relationship used for data analysis only
 - d) A relationship where each row in the second table corresponds to multiple rows in the first table
28. **Which feature in Power BI allows you to schedule data refreshes for your reports?**
- a) Power Query Editor
 - b) Power BI Service
 - c) Power BI Desktop
 - d) DAX queries
29. **What is the purpose of a "Data Model" in Power BI?**
- a) To define the structure and relationships of data tables


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- b) To define report page layouts
 - c) To create visualizations
 - d) To connect to external data sources
30. What type of visualization would be best to use when comparing parts to a whole?
- a) Pie chart
 - b) Line chart
 - c) Bar chart
 - d) Scatter plot

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2023-2024

**CERTIFICATE PROGRAM ON "DATA VISUALIZATION WITH
POWER BI: ADVANCED DASHBOARD TECHNIQUES"**

STUDENTS MARKLIST

DATE: 21.08.2023 to 26.08.2023

| S.NO | REG. NO | NAME | MARKS |
|----------------|--------------|-------------------|-------|
| IV YEAR | | | |
| 1 | 731220104001 | ABINAYA G | 87 |
| 2 | 731220104003 | BALU R | 96 |
| 3 | 731220104004 | CHARLES WILLIAM.L | 78 |
| 4 | 731220104005 | DEEPAK.S | 85 |
| 5 | 731220104006 | DEEPIKA.S | 89 |
| 6 | 731220104007 | DHARANISELVI. M | 76 |
| 7 | 731220104009 | JAGATHESWARAN.P | 89 |
| 8 | 731220104010 | KARUNYAA.M | 91 |
| 9 | 731220104011 | KATHIRESAN.K | 80 |
| 10 | 731220104012 | KAVIN.M | 78 |
| 11 | 731220104014 | LOGANATHAN.T | 75 |
| 12 | 731220104019 | NIRMALRAJ.S | 95 |
| 13 | 731220104021 | RAMYA.S | 92 |
| 14 | 731220104022 | ROHITH.R | 90 |
| 15 | 731220104023 | ROSHMA I | 93 |
| 16 | 731220104024 | SIVALINGAM.K | 84 |
| 17 | 731220104025 | SUNDARAGANESAN.K | 86 |
| 18 | 731220104028 | VIGNESH.M | 82 |
| 19 | 731220104029 | VINISHA.T | 95 |
| 20 | 731220104030 | VINITHA.A | 96 |
| 21 | 731220104031 | VINOTHKUMAR.R | 97 |
| 22 | 731220104301 | BOOPALAN.M | |

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|-----------------|--------------|---------------------|-----------|
| 23 | 731220104302 | DHAMODARAN.G | 72 |
| III YEAR | | | |
| 24 | 731221104001 | AADHI SURYA K | 95 |
| 25 | 731221104004 | ARULMURUGAN S | 92 |
| 26 | 731221104005 | BABUSHANKAR S | 95 |
| 27 | 731221104007 | BAMBAVASAN V | 94 |
| 28 | 731221104008 | CHANDRA PRAKASH K | 96 |
| 29 | 731221104009 | DHAKSHINA MOORTHY E | 75 |
| 30 | 731221104012 | DURGA K | 88 |
| 31 | 731221104013 | GUNASEKARAN P | 83 |
| 32 | 731221104014 | GUNASEKARAN S | 82 |
| 33 | 731221104015 | HARIPRABHA V | 85 |
| 34 | 731221104021 | LALITHA T | 82 |
| 35 | 731221104022 | MADHAN G | 86 |
| 36 | 731221104025 | MOUSIKA S | 95 |
| 37 | 731221104026 | NANDHINI P | 48 |
| 38 | 731221104027 | PANDIYARAJ P | 79 |
| 39 | 731221104028 | PRIYA DHARSHINI S | 86 |
| 40 | 731221104031 | RUBIKA G | 95 |
| 41 | 731221104033 | SHYAMKUMAR S | 65 |
| 42 | 731221104034 | SENTHILVEL S | 82 |
| 43 | 731221104035 | SUGANYA K | 97 |
| 44 | 731221104037 | SUSHMINA M | 84 |
| 45 | 731221104038 | VASANTHKUMAR S | 80 |
| 46 | 731221104039 | VIGNESH M | 95 |
| 47 | 731221104040 | YAMUNA K | 91 |
| 48 | 731221104301 | AMUTHAMALAR R | 87 |
| 49 | 731221104302 | BHARANI DHARAN.M | 68 |
| 50 | 731221104303 | GAYATHRI R | 45 |
| 51 | 731221104305 | NANDINI M | 93 |
| 52 | 731221104306 | SNEHA L | 95 |
| 53 | 731221104307 | SRINIVAS V | |

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| 54 | 731221104308 | SUBASHINI P | 86 |
| 55 | 731221104701 | NIKETHA S | 96 |
| M.E CSE – I YEAR | | | |
| 56 | 731223405001 | ADHISESHAN N | 92 |
| 57 | 731223405003 | MATHIYAZHAGAN M | 95 |
| 58 | 731223405004 | POORNIMA K | 96 |
| 59 | 731223405005 | PRIYADHARSINI T | 91 |
| 60 | 731223405006 | SATHIYAPRIYA M | 89 |
| 61 | 731223405007 | SNEHALAL T V | 90 |

Note: The students those who have secured above 50 Marks and above are consider eligible for program completion.


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023-2024

SUMMARY/ OUTCOME REPORT

Name of the Certificate Program : DATA VISUALIZATION WITH POWER BI: ADVANCED
DASHBOARD TECHNIQUES

Program Code : 23CSEDVPBIADTCP01

Name of the Program Coordinator : Mr.S.THIRUNAVUKKARASU

Duration : 36 Hours

Number of Students Enrolled : 61

Number of Students Completed : 58

I hereby affirm that the entire Program contents in the Certificate Program "Data Visualization with Power Bi: Advanced Dashboard Techniques" listed in the Syllabus have been actually learned by the students as the part of the prescribed co-curricular activities through Certificate Program.

I confirmed that the Certificate Program title as Data Visualization with Power Bi: Advanced Dashboard Techniques Work Bench was done by me in the beginning of this semester and Program delivery with attendance of the students were recorded.

I confirmed that all registered students for this Certificate Program were actively attended and learned well throughout the duration of this Program. And all students were successfully completed and eligible to receive the participation certificate.

OUTCOME: Students shall be able to gain the knowledge in

- **Advanced Visualization & Reporting:** Learn to create interactive dashboards with maps, scatter plots, KPIs, and features like bookmarks, drill-through, and slicers.
- **Data Modelling & DAX Expertise:** Build data relationships and use DAX for calculations like measures, calculated columns, and time-based analysis.
- **Data Transformation with Power Query:** Learn to clean and prepare data using Power Query for accurate reporting.
- **Collaboration, Performance, & Security:** Understand how to share reports, improve performance, and apply security like Row-Level Security (RLS) to protect data.

Name : Mr.S.THIRUNAVUKKARASU

Designation: Lead Engineer

PROGRAM COORDINATOR

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