ABOUT THE INSTITUTION

Don Bosco Institute of Technology (DBIT) was established in 2001 as a part of Wayanamac Education Trust that envisions providing quality education in Engineering/Technology and Management studies. Presently, DBIT offers Under Graduate (UG) programs in eight domains that include Computer Science and Engineering, Information Science and Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Civil Engineering, Mechanical Engineering, Artificial Intelligence & Machine Learning, Artificial Intelligence & Data Science besides the Post Graduate (PG) program in Management studies titled Master of Business Administration. Ten departments including basic science departments have Research Centres that offer PhD programs. All UG, PG and Research programs (PhD) are affiliated to Visvesvaraya Technological University, Belagavi. All eligible UG programs of DBIT are accredited by NBA and the institution is NAAC accredited. The quality of education at the institution level is governed by IQAC (Internal Quality Assurance Cell) whose process framework percolates to the constituent departments in a graceful manner so as to enable build quality into the system from the grass root level.

ABOUT THE DEPARTMENT

The Department of Artificial Intelligence and Data Science, Don Bosco Institute of Technology, Bengaluru was established in the year 2021-22, with an intake of 60 students. DBIT is permanently affiliated to Visvesvaraya Technological University (VTU), Belagavi, and Karnataka. The department has state-of-art infrastructure in terms of well-equipped laboratories and library for staff and students. It has qualified and experienced teaching faculty. It supports students to understand the fundamentals of AI & DS, apply them in design and development of projects to resolve complex, real time problems. The department has got excellent ambience for research in diversified areas. The department has got a wide technical spectrum through the Centre of Excellence, Innovation lab, industry tie-ups, collaboration and MOUs.

CHIEF PATRON:

B Bylappa - President
P B Manjunath - VicePresident
Raghav Bylappa – Secretary ,WET,Bengaluru

PATRON:

Dr. Nagabhushana B S
Principal,DBIT

CONVENOR:

Dr. Gowramma G S,
Professor & Head, Dept. of AI & DS, DBIT
Ph : 9902003202

CO-ORDINATOR:

Dr. Ranjini P. S . Professor
Prof. Sampath Kumar S, Assistant Professor

ORGANIZING COMMITTEE:

- **Dr. Nagaraja P,** Professor
- **Prof. Keshav Murthy S**, Professor
- **Prof. Subhashini B N,** Assistant Professor
- **Prof. Meghana H M,** Assistant Professor
- **Prof. Mamatha K**, Assistant Professor
- **Prof. Sapna S Basavaraddi,** Assistant Professor

Resource persons:

Mr. Moulieswaran D
QA / Analytics Trainer,
Head of Arivupro Skills

Don Bosco Institute of Technology

**Workshop
on
"INTERACTIVE DASHBOARDS FOR STORYTELLING WITH TABLEAU AND POWER BI"
(As per 5th Sem (BAIL504) &
7th Sem (21AD71))**

Organized by :

**Department
of
Artificial Intelligence and Data Science

on

13.09.2024 to 14.09.2024**

Don Bosco Institute of Technology
NBA & NAAC Accredited Institution
Kumbalagodu, Mysore Road, Bengaluru – 560074
www.dbit.co.in

Venue: AI & DS Computer Lab(B218)

Workshop on "INTERACTIVE DASHBOARDS FOR STORYTELLING WITH TABLEAU AND POWER BI"
13.09.2024 to 14.09.2024

Interactive Dashboards for Storytelling with Tableau and Power BI

About The Programme

Interactive dashboards are powerful tools for data storytelling, enabling users to convey insights through dynamic and engaging visualizations. Tableau and Power BI are two leading platforms in this space. Tableau excels with its advanced visualization options and user-friendly interface, allowing for rich, interactive experiences and detailed storytelling through its "Story" and "Dashboard" features. Power BI, on the other hand, integrates seamlessly with Microsoft products and offers strong data modeling capabilities, using features like "Bookmarks" and "Slicers" to create interactive and narrative-driven reports.

About Workshop

The core objective of the Workshop is to demystify the different topics in Data Visualization, tools used in different applications, opportunities for the benefit of students and faculty. This Workshop covers comprehensive VTU syllabus of as per 5th Sem (BAIL504) & 7th Sem (21AD71) "Interactive Dashboards for Storytelling with Tableau and Power BI " with complete hands-on training from industry experts are invited to handle the sessions. The Workshop is open for all the students and staff members of Engineering and Technology, as Data Visualization is a multidisciplinary domain.

Motivation behind Workshop

As per NEP 2020 and As per 5th Sem (BAIL504) & As per 7th Sem (21AD71), "Interactive Dashboards for Storytelling with Tableau and Power BI" has been introduced for the 5th & 7th semester B.E to cater the needs of current technology. This Workshop has been organized to enhance the knowledge of the Students & faculty.

Objectives of Workshop

The objective of using interactive dashboards in Tableau and Power BI for storytelling is to transform complex data into clear, engaging visual narratives. These tools enable users to create dynamic, interactive visualizations that facilitate deeper data exploration and insights. By leveraging features like filters, drill-downs, and interactive elements, they help to convey compelling stories and drive informed decision-making. Ultimately, they aim to make data more accessible and actionable for diverse audiences.

TOPICS COVERED

Day 1: Power BI Workshop

Session 1: Introduction to Power BI (1 hour)
- Overview of Power BI, Power BI Interface & Data Importing

Session 2: Data Transformation in Power BI (1 hour)
- Data Cleaning and Shaping ,
- Modeling Data,DAX (Data Analysis Expressions)

Session 3: Creating Visualizations in Power BI (2 hours)
- Building Interactive Dashboards,
- Custom Visualizations
- Formatting and Customizing Reports

Session 4: Publishing and Sharing in Power BI (1 hour)
- Publishing Dashboards, Power BI Mobile App

Day 2: Tableau Workshop

Session 1: Introduction to Tableau (1.5 hours)
- Overview of Tableau, Connecting to Data

Session 2: Data Transformation in Tableau (1.5 hours)
- Data Modeling in Tableau,Calculated Fields, Tableau Prep Overview

Session 3: Creating Visualizations in Tableau (2 hours)
- Building Interactive Dashboards, Advanced Visualizations, Storytelling with Data

Session 4: Publishing and Sharing in Tableau (1 hour)
- Sharing Dashboards, Tableau Mobile App
- Workshop Wrap-up (30 mins), Q&A Session Resources for further learning (online courses, certifications)

Workshop Outcomes:

1. Understand the fundamental features of Power BI and Tableau
2. Ability to clean, transform, and model data
3. Create dynamic and interactive dashboards
4. Use basic DAX in Power BI and calculated fields in Tableau
5. Publish and share dashboards effectively

Registration Fee :

The registration fee of **Rs. 100/- (for Students)**
Rs. 300/- (for Faculty)
For registration kindly fill the registration form in the link given below:
https://forms.gle/UWCTDGSQuBbBz4QWA

Communication:

Prof. Sampath Kumar S, Assistant Professor
sampthkumar.s@dbit.co.in, 9743307890

Takeaways:
- Participation Certificate
- Course Handouts

Last Date for Registration: 12/09/2024
Scan for Registration

Technical Support:
Mr. Shanthamurty, System Admin.
Mrs. Chaitra K N, Lab Instructor.