



PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road, Surampalem, E.G.Dt., A.P. - 533 437

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade)

(Recognized by UGC Under Sections 2(f) and 12 (B) of UGC act, 1956)

Ph: 08852 - 252233, 34 Website: www.pragati.ac.in

DEPARTMENT OF INFORMATION TECHNOLOGY & CSE-CYBER SECURITY

Date: 18-03-2025

CIRCULAR

It is hereby informed to the II B.Tech II Semester students of IT & CSE-CS that a workshop will be conducted in the college as per the below schedule.

Name of the course: **Power BI Masterclass: Building Interactive Dashboards & Reports**

Name of the Trainer: Mr. Vineesh T, Certified power BI Associate.

Start Date: 21-03-2025

End Date: 22-03-2025

Time: 9.00 AM to 3.30 PM

Venue: IT Computer Lab


HoD-CS

Circulation among II IT & CSE-CS Students

Copy to Dept. Notice File


HoD-IT

Yes

18/3/25

Power BI Masterclass: Building Interactive Dashboards & Reports

Day 1: Introduction & Fundamentals

9:00 AM – 10:00 AM | Registration & Inauguration Ceremony

- Welcome Address
- Introduction to Workshop & Objectives

10:00 AM – 12:00 PM | Introduction to Power BI

- Overview of Power BI as a business intelligence tool
- Components of Power BI
 - Power BI Desktop (Report Building)
 - Power BI Service (Cloud Sharing)
 - Power Query (Data Cleaning & Transformation)
- DAX (Calculations & Measures)
- Use Cases
 - Business reporting
 - Sales analytics
 - Operational dashboards

12:00 PM – 1:00 PM | Lunch Break

1:00 PM – 3:30 PM | Setting Up Power BI & Data Transformation

- Download & Install Power BI Desktop
- Power BI Interface Overview
 - Fields Pane – Data visualization
 - Visualizations Pane – Charts & graphs

- **Share reports via Workspaces & Apps**
- **Power BI Best Practices**
 - Optimizing performance using relationships & query folding
 - Designing user-friendly dashboards
 - Ensuring data security with Row-Level Security (RLS)
- **Demo: Publish and share a report**

3:00 PM – 3:30 PM | Valedictory Ceremony

- **Summary & Key Takeaways**
- **End-to-End Power BI Project**
 - Connecting data → Cleaning & transforming → Creating a report → Publishing & sharing
- **Certificate Distribution & Vote of Thanks**

**** Pre-requisites**

- **Core-i5 PCs with Active internet**
- **Student details for Certificates**

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Committed to excellence in every endeavour, we craft our legacy with passion and precision. Each step forward is a testament to our unwavering dedication, shaping a future defined by our commitment to greatness.

Take a deep dive into a world where creativity meets cutting-edge technology, shaping software solutions that captivate and inspire.

Embark on a journey of innovation and excellence with our team of young, dynamic engineers at the helm! We're pioneers in the tech industry, driven by passion, creativity, and a relentless pursuit of perfection. With fresh perspectives and cutting-edge expertise, we're revolutionising the way technology shapes our world.

Contact Us

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DEPARTMENT OF CYBER SECURITY

S.No.	Roll No.	Student Name	21-03-2025		22-03-2025	
			FN	AN	FN	AN
1	23A31A4601	ANIPEDDI BHUVANESWARI	<i>AN</i>	<i>AN</i>	<i>AN</i>	<i>AN</i>
2	23A31A4602	ARANGI SOWMYA	<i>A Sowmya</i>	<i>A Sowmya</i>	<i>A Sowmya</i>	<i>A Sowmya</i>
3	23A31A4603	BUDI NIKHITHA CHANDRA KALA	B. NIKITHA	B. NIKITHA	B. NIKITHA	B. NIKITHA
4	23A31A4604	CHALLARI HARIKA	<i>Ch. Harika</i>	<i>Ch. Harika</i>	<i>Ch. Harika</i>	<i>Ch. Harika</i>
5	23A31A4605	GUNDRU ROHINI GAYATHRI	<i>G.R. Gayathri</i>	<i>G.R. Gayathri</i>	<i>G.R. Gayathri</i>	<i>G.R. Gayathri</i>
6	23A31A4606	KARROTHU GEETHIKA	<i>K. Geethika</i>	<i>K. Geethika</i>	<i>K. Geethika</i>	<i>K. Geethika</i>
7	23A31A4607	MAGAPU SRI MOULIKA	<i>M. modika</i>	<i>M. modika</i>	<i>M. modika</i>	<i>M. modika</i>
8	23A31A4608	MATTA PUSHPA PRAVALLIKA	<i>M. pravalika</i>	<i>M. pravalika</i>	<i>M. pravalika</i>	<i>M. pravalika</i>
9	23A31A4609	MEDISETTY LAKSHMI SUPRIYA	<i>M.L. Supriya</i>	<i>M.L. Supriya</i>	<i>M.L. Supriya</i>	<i>M.L. Supriya</i>
10	23A31A4610	MUMMIDI JYOTHI SRI	<i>M. Jyothisi</i>	<i>M. Jyothisi</i>	<i>M. Jyothisi</i>	<i>M. Jyothisi</i>
11	23A31A4611	NANDIVADA KRISHNA SANTHOSHI	<i>N. Krishna. Sathoshi</i>	<i>N. Krishna. Sathoshi</i>	<i>N. Krishna. Sathoshi</i>	<i>N. Krishna. Sathoshi</i>
12	23A31A4612	PADALA SOWMYA HARSHITHA	<i>P. Sowmya Harshitha</i>	<i>P. Sowmya Harshitha</i>	<i>P. Sowmya Harshitha</i>	<i>P. Sowmya Harshitha</i>
13	23A31A4613	PASUPULETI VARDHINI				
14	23A31A4614	PENKE RAMYA SRI	<i>P. Ramyasi</i>	<i>P. Ramyasi</i>	<i>P. Ramyasi</i>	<i>P. Ramyasi</i>
15	23A31A4615	PILLI BHARGAVI	<i>P. Bhargavi</i>	<i>P. Bhargavi</i>	<i>P. Bhargavi</i>	<i>P. Bhargavi</i>
16	23A31A4616	POTNURI KEERTHI MEGHANA	<i>P. Keerthi</i>	<i>P. Keerthi</i>	<i>P. Keerthi</i>	<i>P. Keerthi</i>
17	23A31A4617	RAYUDU ASWITHA LAKSHMI	<i>R. Aswitha</i>	<i>R. Aswitha</i>	<i>R. Aswitha</i>	<i>R. Aswitha</i>
18	23A31A4618	SAMBATTULA SNEHASRI	<i>S. Snehasri</i>	<i>S. Snehasri</i>	<i>S. Snehasri</i>	<i>S. Snehasri</i>
19	23A31A4619	TEKUMUDI PAVANI SATYA DURGA DEVI	<i>T. Pavani</i>	<i>T. Pavani</i>	<i>T. Pavani</i>	<i>T. Pavani</i>
20	23A31A4620	THORLAPATI ASHMITHA SHEETHAL	<i>T. Ashmita</i>	<i>T. Ashmita</i>	<i>T. Ashmita</i>	<i>T. Ashmita</i>
21	23A31A4621	THUMMALAPALLI SHERLY	<i>T. Sherly</i>	<i>T. Sherly</i>	<i>T. Sherly</i>	<i>T. Sherly</i>
22	23A31A4622	VANDRANGI SUJANA	<i>Sujana</i>	<i>Sujana</i>	<i>Sujana</i>	<i>Sujana</i>
23	23A31A4623	YERRAPOTHU VYSHNAVI	<i>Y. Vyshnavi</i>	<i>Y. Vyshnavi</i>	<i>Y. Vyshnavi</i>	<i>Y. Vyshnavi</i>
24	23A31A4624	ACHUTHA VENKATA SATYANARAYANA	<i>A.V. Satyanarayana</i>	<i>A.V. Satyanarayana</i>	<i>A.V. Satyanarayana</i>	<i>A.V. Satyanarayana</i>
25	23A31A4625	ADABALA RAGHU RAM			<i>A. Raghuram</i>	<i>A. Raghuram</i>
26	23A31A4626	AMALAKANTI DEEPAK KUMAR				
27	23A31A4627	ANUKULI SATISH	<i>A. Satish</i>	<i>A. Satish</i>	<i>A. Satish</i>	<i>A. Satish</i>
28	23A31A4628	BARLA VENKATA SIVA SAI	<i>B. S.P.</i>	<i>B. S.P.</i>	<i>B. S.P.</i>	<i>B. S.P.</i>
29	23A31A4629	BARLA Y S V SANTHOSH TARAKESWARUDU	<i>B.Y.S.V. Santosh</i>	<i>B.Y.S.V. Santosh</i>		
30	23A31A4630	BASWA VEERA VENKATA CHAITANYA	<i>B.V.V. Chaitanya</i>	<i>B.V.V. Chaitanya</i>	<i>B.V.V. Chaitanya</i>	<i>B.V.V. Chaitanya</i>
31	23A31A4631	BHUPATHIRAJU SATYA MANIKANTA VARMA	<i>Bh. Mani</i>	<i>Bh. Mani</i>		
32	23A31A4632	BINIPE PRABHU SURYA	<i>B. Prabhu Surya</i>	<i>B. Prabhu Surya</i>	<i>B. Prabhu Surya</i>	<i>B. Prabhu Surya</i>
33	23A31A4633	BODDU ASHOK KUMAR	<i>B. Ashok Kumar</i>	<i>B. Ashok Kumar</i>	<i>B. Ashok Kumar</i>	<i>B. Ashok Kumar</i>
34	23A31A4634	BONI NIKHIL	<i>B. Nikhil</i>	<i>B. Nikhil</i>		
35	23A31A4635	CHIRRA BHAKTA VIJAY DANIEL	<i>C. B. Vijay Daniel</i>	<i>C. B. Vijay Daniel</i>	<i>C. B. Vijay Daniel</i>	<i>C. B. Vijay Daniel</i>
36	23A31A4636	DANTULURI SRI RAMA PRANEETHVARMA	<i>D. Praneeth</i>	<i>D. Praneeth</i>		
37	23A31A4637	DEGALA GOPICHAND	<i>D. Gopichand</i>	<i>D. Gopichand</i>		



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38	23A31A4638	INAKOLLU VENKATA NAVEEN KUMAR	I.V.Naveen Kumar	I.V.Naveen Kumar	I.V.Naveen Kumar	I.V.Naveen Kumar
39	23A31A4639	KATTA SAI SWARUP	K.Sai Swarup	K.Sai Swarup	K.Sai Swarup	K.Sai Swarup
40	23A31A4640	LANKA HARSHA SUSHANTH SYAMKUMAR	L.H.S.Syam Kumar	L.H.S.Syam Kumar	L.H.S.Syam Kumar	L.H.S.Syam Kumar
41	23A31A4641	MANDRU AKASH KUMAR	M.Akash Kumar	M.Akash Kumar	M.Akash Kumar	M.Akash Kumar
42	23A31A4642	MEENAVALI SRI CHARAN	M.Sri Charan	M.Sri Charan	M.Sri Charan	M.Sri Charan
43	23A31A4643	MOPIDEVI VENKATA NARASIMHA SWAMY	M.Venkata Narasimha Swamy	M.Venkata Narasimha Swamy	M.Venkata Narasimha Swamy	M.Venkata Narasimha Swamy
44	23A31A4644	MOSALI MANOJ KUMAR	M.Manoj Kumar	M.Manoj Kumar	M.Manoj Kumar	M.Manoj Kumar
45	23A31A4645	SASUPALLI TARUN	S.Tarun	S.Tarun	S.Tarun	S.Tarun
46	23A31A4646	SATTIMSETTI KALYANA V N VEERA MANIKANTA	S.Kalyan	S.Kalyan	S.Kalyan	S.Kalyan
47	23A31A4647	SUNKARI CHAITANYA KUMAR	S.Chaitanya Kumar	S.Chaitanya Kumar	S.Chaitanya Kumar	S.Chaitanya Kumar
48	23A31A4648	TAMTAM HARSHAVARDHAN	T.Harshavardhan	T.Harshavardhan	T.Harshavardhan	T.Harshavardhan
49	23A31A4649	THANDRA VENKATA NAGA KOTESWARA RAO	T.Venkata Naga Koteswara Rao	T.Venkata Naga Koteswara Rao	T.Venkata Naga Koteswara Rao	T.Venkata Naga Koteswara Rao
50	23A31A4650	THOLETI SIVA DATTA SAI	T.Siva Datta Sai	T.Siva Datta Sai	T.Siva Datta Sai	T.Siva Datta Sai
51	23A31A4651	YANDAMURI VINAY KRISHNA	Vinay	Vinay	Vinay	Vinay
52	24A35A4601	ADAPA SAI LAKSHMI VYSHNAVI	A.Vyshnavi	A.Vyshnavi	A.Vyshnavi	A.Vyshnavi
53	24A35A4602	APPALABHAKTHULA LAKSHMI NAGA MOUNICA	A.L.N.Mounica	A.L.N.Mounica	A.L.N.Mounica	A.L.N.Mounica
54	24A35A4603	BATHULA VEERALAKSHMI	B.Veeralakshmi	B.Veeralakshmi	B.Veeralakshmi	B.Veeralakshmi
55	24A35A4604	KANNI JANAKI	K.Janaki	K.Janaki	K.Janaki	K.Janaki
56	24A35A4605	NAKKA DEVI	N.Devi	N.Devi	N.Devi	N.Devi
57	24A35A4606	PAMU SIRISHA	P.Sirisha	P.Sirisha	P.Sirisha	P.Sirisha
58	24A35A4607	SAPPA RENUKA DEVI	S.Renuka Devi	S.Renuka Devi	S.Renuka Devi	S.Renuka Devi
59	24A35A4608	YARRABATHULA NAGA MOUNIKA	Y.N.Mounika	Y.N.Mounika	Y.N.Mounika	Y.N.Mounika
60	24A35A4609	AMUJURI DURGA PRASAD	A.DP	A.DP	A.DP	A.DP
61	24A35A4610	CHILUKOTI SRINIVASA HARSHA VARDHAN	C.Srinivasa Harsha Vardhan	C.Srinivasa Harsha Vardhan	C.Srinivasa Harsha Vardhan	C.Srinivasa Harsha Vardhan
62	24A35A4611	GUBBA VENKATA ABHINASH	G.V.Abhinash	G.V.Abhinash	G.V.Abhinash	G.V.Abhinash
63	24A35A4612	GURAJANA V V SATYA SAI SURYA MADHAV	G.Madhav	G.Madhav	G.Madhav	G.Madhav
64	24A35A4613	MUNGARA VINOD BABU				
65	24A35A4614	NAATHIPAM VEERA VENKATA RAMANA	N.V.V.Ramana	N.V.V.Ramana	N.V.V.Ramana	N.V.V.Ramana
66	24A35A4615	OLETI SATHIRAJU	O.Sathiraju	O.Sathiraju	O.Sathiraju	O.Sathiraju
67	24A35A4616	PENKE MADHU	P.Madhu	P.Madhu	P.Madhu	P.Madhu
68	24A35A4617	RONGALA LEELA VISHNU VARDHAN	R.L.Vishnu Vardhan	R.L.Vishnu Vardhan	R.L.Vishnu Vardhan	R.L.Vishnu Vardhan
69	24A35A4618	VALLU SUBHAKAR	V.Subhakar	V.Subhakar	V.Subhakar	V.Subhakar
70	24A35A4619	YAMALA ATCHUTHA REDDY	Y.Atchutha	Y.Atchutha	Y.Atchutha	Y.Atchutha
71	24A35A4620	SHAIK MOHAMMAD WASIM				



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S.No.	Roll No.	Student Name	21-03-2025		22-03-2025	
			FN	AN	FN	AN
1	23A31A1201	ANJURI NAVYA	A. Navya	A. Navya	A. Navya	A. Navya
2	23A31A1202	BANDARU SAI DEVI PALLAVI	B. Pallavi	B. Pallavi	B. Pallavi	B. Pallavi
3	23A31A1203	BEERA VENNELA	B. Vennela	B. Vennela	B. Vennela	B. Vennela
4	23A31A1204	DASARI KIRANMAYI SAI LAKSHMI	D. Kiranmai	D. Kiranmai	D. Kiranmai	D. Kiranmai
5	23A31A1205	DASIREDDY PUJITHA ANJANEE TEJA	D. Pujitha	D. Pujitha	D. Pujitha	D. Pujitha
6	23A31A1206	DAGGUMILLI SRI VENKATA LAKSHMI	D. Lakshmi	D. Lakshmi	D. Lakshmi	D. Lakshmi
7	23A31A1207	GANGARAJU HARI CHANDANA	G. Hari Chandana	G. Chandana	G. Chandana	G. Chandana
8	23A31A1208	GIRADA URMILA	G. Urmila	G. Urmila	G. Urmila	G. Urmila
9	23A31A1209	GUNDARAPU REVATHI	Revathi	Revathi	Revathi	Revathi
10	23A31A1210	GURUNETTI ARSHAYA	G. Arshaya	G. Arshaya	G. Arshaya	G. Arshaya
11	23A31A1211	GURANI NAVYA DEEPTHI	G. Navya	G. Navya	G. Navya	G. Navya
12	23A31A1212	GUTHULA MADHU PRIYA	G. Madhupriya	G. Madhupriya	G. Madhupriya	G. Madhupriya
13	23A31A1213	GUTTULA HARIKA	G. Harika	G. Harika	G. Harika	G. Harika
14	23A31A1214	JONNADA LAKSHMI ANU HASINI	J. Hasini	J. Hasini	J. Hasini	J. Hasini
15	23A31A1215	KARELLA RAJITHA	K. Rajitha	K. Rajitha	K. Rajitha	K. Rajitha
16	23A31A1216	KATURI SNEHA	K. Sneha	K. Sneha	K. Sneha	K. Sneha
17	23A31A1217	KUSU SWATHI SRI	K. Swathi	K. Swathi	K. Swathi	K. Swathi
18	23A31A1218	MONICA BATTULA	B. Monica	B. Monica	B. Monica	B. Monica
19	23A31A1219	NUNE PAVANI	N. Pavani	N. Pavani	N. Pavani	N. Pavani
20	23A31A1220	PEDAPATI DEVI SRI VARSHA	P.D. S. Varsha	P.D. S. Varsha	P.D. S. Varsha	P.D. S. Varsha
21	23A31A1221	PURAMSETTI HAMSINI	P. Hamsini	P. Hamsini	P. Hamsini	P. Hamsini
22	23A31A1222	RAMADURGAM NAVYA	R. Navya	R. Navya	R. Navya	R. Navya
23	23A31A1223	SONTANAM V C M BHAVANI SUNDARI	S. Sundari	S. Sundari	S. Sundari	S. Sundari
24	23A31A1224	SRIPATHI BHARGAVI	S. Bhargavi	S. Bhargavi	S. Bhargavi	S. Bhargavi
25	23A31A1225	TALLA SOUMYA SREE	T. Soumya	T. Soumya	T. Soumya	T. Soumya
26	23A31A1226	TANGI ANJALI	T. Anjali	T. Anjali	T. Anjali	T. Anjali
27	23A31A1227	VAKAPALLI KRISHNA MOUNIKA	V.K. Krishna	V.K. Krishna	V.K. Krishna	V.K. Krishna
28	23A31A1228	VELUGUBANTLA SREE CHANDRIKA	V. Chandrika	V. Chandrika	V. Chandrika	V. Chandrika
29	23A31A1229	VENNELA NUNNA	V. Nanna	V. Nanna	V. Nanna	V. Nanna
30	23A31A1230	VYDADI SUDHEEKSHA	V. Sudheeksha	V. Sudheeksha	V. Sudheeksha	V. Sudheeksha
31	23A31A1231	YARAMATI PRAVALLIKA	Y. Pravalika	Y. Pravalika	Y. Pravalika	Y. Pravalika
32	23A31A1232	YARRA SYAMALA	Syamala	Syamala	Syamala	Syamala
33	23A31A1233	AVIDI SAI RAJ	A. Sai Raj	A. Sai Raj	A. Sai Raj	A. Sai Raj
34	23A31A1234	BHAGYA SAI RAVI CHANDRA KIRAN SAPPA	B. Kiranappa	B. Kiranappa	B. Kiranappa	B. Kiranappa
35	23A31A1235	DALU NIKESH	D. Nikesh	D. Nikesh	D. Nikesh	D. Nikesh
36	23A31A1236	EDUBILLI SURESH	E. Suresh	E. Suresh	E. Suresh	E. Suresh
37	23A31A1237	GADAMSETTI VENKATA LOKESH	G. Lokesh	G. Lokesh	G. Lokesh	G. Lokesh



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38	23A31A1238	GADAMSETTI VENKATA RAKESH	G.v.Rakesh	G.v.Rakesh	G.v.Rakesh	G.v.Rakesh
39	23A31A1239	GANNI DURGA PREETHAM	Preettham	Preettham	Preettham	Preettham
40	23A31A1240	GORANTLA SIVA	G.Siva	G.Siva	G.Siva	G.Siva
41	23A31A1241	GUBBALA VEERA SOMARAJU	G.Veera	G.Veera	G.Veera	G.Veera
42	23A31A1242	GUMMA VAMSI	G.Vamsi	G.Vamsi	G.Vamsi	G.Vamsi
43	23A31A1243	IDDUMANI GOVIND YADAV	I.Govind	I.Govind	I.Govind	I.Govind
44	23A31A1244	KAKKALA VEERA VENKATA BHANU PRAKASH	K.Bhanu	K.Bhanu	K.Bhanu	K.Bhanu
45	23A31A1245	KANURI PURNA MANITEJA	K.Teja	K.Teja	K.Teja	K.Teja
46	23A31A1246	KUPARALA SUDHEER KUMAR	K.Sudheer	K.Sudheer	K.Sudheer	K.Sudheer
47	23A31A1247	MANNEM VAMSI	M.Vamsi	M.Vamsi	M.Vamsi	M.Vamsi
48	23A31A1248	MATTA MOHAN RAMA KRISHNA	M.M.R.	M.M.R.	M.M.R.	M.M.R.
49	23A31A1249	MUDDAKA PRASANTH	M.Prasanth	M.Prasanth	M.Prasanth	M.Prasanth
50	23A31A1250	NAGASANI SAI TEJASWARA REDDY	N.Saiteja	N.Saiteja	N.Saiteja	N.Saiteja
51	23A31A1251	NALAMATI TEJA SAI	N.Teja	N.Teja	N.Teja	N.Teja
52	23A31A1252	NEELAPU DEEKSHIT	N.Deekshith	N.Deekshith	N.Deekshith	N.Deekshith
53	23A31A1253	PAILA CHANDU	P.Chandu	P.Chandu	P.Chandu	P.Chandu
54	23A31A1254	PILLI HEMANTH	H.Hemant	H.Hemant	H.Hemant	H.Hemant
55	23A31A1255	PRATTIPATI BHAVANI SHANKAR	P.Bhavani Shankar	P.Bhavani Shankar	P.Bhavani Shankar	P.Bhavani Shankar
56	23A31A1256	SHAIK BAAJI	SK.Baaji	SK.Baaji	SK.Baaji	SK.Baaji
57	23A31A1257	SHAIK NAGUR BASHA	SK.Basha	SK.Basha	SK.Basha	SK.Basha
58	23A31A1258	YARNAGULA MOHITH	Y.Mohith	Y.Mohith	Y.Mohith	Y.Mohith
59	23A31A1259	YERRAMSETTI NAGAVENKATA DURGA MANIKANTASAI	Y.Vamsi	Y.Vamsi	Y.Vamsi	Y.Vamsi
60	24A35A1201	CHIKKAM RUPA TULASI DEVI	U.Rupa	U.Rupa	U.Rupa	U.Rupa
61	24A35A1202	NOWDU NAGAMANI	P.Nagamani	P.Nagamani	P.Nagamani	P.Nagamani
62	24A35A1203	PEDDAPATI PAVANI JYOTHI	P.Pavani	P.Pavani	P.Pavani	P.Pavani
63	24A35A1204	SUNKARA ASHRITHA RAMAKRISHNA	S.Ashritha	S.Ashritha	S.Ashritha	S.Ashritha
64	24A35A1205	CHEEPURI PAVAN KUMAR	C.Pavan	C.Pavan	C.Pavan	C.Pavan
65	24A35A1206	GANDEPALLI PAVAN	G.Pavan	G.Pavan	G.Pavan	G.Pavan
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REPORT

Topic: Power BI Master Class

Date: 21-03-2025 to 22-03-2025

Venue: IT Laboratory

Introduction

Power BI is a powerful business intelligence (BI) and data visualization tool developed by Microsoft. It allows users to transform raw data into meaningful insights through interactive dashboards, reports, and analytics. This report provides an in-depth overview of Power BI, any source. It is user friendly and easy to use.

Data:

Data refers to raw facts, numbers, or information collected from various sources that can be processed and analyzed to gain insights. It can be in structured formats (like databases) or unstructured formats (like text, images, and videos).

Data Analytics:

Data Analytics is the process of examining, transforming, and interpreting data to identify patterns, trends, and useful insights that help in decision-making and problem-solving. It includes techniques such as statistical analysis, machine learning, and data visualization.

What Makes Power BI Different from Other BI Tools?

Power BI stands out from other business intelligence (BI) tools like Tableau, Google Data Studio, and Excel due to its powerful integration, AI-driven analytics, affordability, and ease of use.

1. Seamless Integration with Microsoft Ecosystem

- Works well with Excel, Azure, SQL Server, SharePoint, and Teams.
- Supports Power Automate & Power Apps for workflow automation.

2. Cost-Effectiveness

- Offers a free version with strong features.
- Power BI Pro is cheaper than Tableau's licensing model.

3. Advanced AI & Machine Learning Capabilities

- Built-in AI-powered insights for data-driven decisions.
- Supports natural language queries (Q&A feature).

4. DAX (Data Analysis Expressions) for Advanced Calculations

- Unlike Google Data Studio and Excel, Power BI supports DAX formulas.
- Allows creating complex measures & calculations.

5. Real-Time Data Processing

- Supports real-time streaming dashboards.
- Can connect to live databases & IoT data sources.

6. Powerful Data Connectivity



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- Can connect to 100+ data sources, including on-premise, cloud, and APIs.
- Includes direct integration with Azure, Google Analytics, and Salesforce.

7. Strong Security & Compliance

- Row-Level Security (RLS) ensures user-based data access.
- Complies with GDPR, HIPAA, and ISO 27001 security standards.

What is Business Intelligence?

Business Intelligence (BI) refers to the strategies and technologies used by enterprises to analyze business information. It involves collecting, processing, and presenting data to support decision-making. Power BI is a leading tool in this domain, offering advanced features for data analysis and visualization.

Key components of Power BI:

1. Power BI Desktop (Report Building):

Power BI Desktop is a free, Windows-based application used to build reports and dashboards. It is the primary tool for data modelling, visualization, and report creation before publishing to the Power BI Service.

2. Power BI Service (Cloud Sharing & Collaboration):

Power BI Service is a cloud-based platform that allows users to publish, share, and collaborate on reports and dashboards. It enables real-time data updates and secure access from anywhere.

Power BI workflow:

- 1. Extract Data:** The first step is to connect to various data sources and extract data into Power BI.
- 2. Load & Model Data:** Once data is extracted, it is loaded into Power BI Desktop for modelling.
- 3. Transform Data:** Data transformation ensures that raw data is clean and structured for analysis.
- 4. Create Visualizations & Dashboards:** After preparing the data, users create reports and dashboards in Power BI Desktop.
- 5. Publish & Share Reports:** Once reports are ready, they are published to Power BI Service for collaboration and sharing.

Data modelling in Power BI

1. Star Schema:

- **Structure:** A central fact table is surrounded by multiple dimension tables.
- **Advantage:** Faster queries and easier data interpretation.



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2. Snowflake Schema:

- **Structure:** Similar to the star schema but with normalized (split) dimension tables.
- **Advantage:** Reduces data redundancy but increases query complexity.

3. Fact Tables & Dimension Tables:

Fact Table (Stores numerical data & transactions):

- Contains measurable business data (e.g., Sales Amount, Quantity Sold).
- Has foreign keys linking to dimension tables.

Dimension Table (Stores descriptive data)

- Provides context to the fact table (e.g., Customer Name, Product Category).
- Used for filtering and categorization.

4. Creating Relationships Between Tables:

Power BI allows users to define relationships between tables using Primary Keys (PK) and Foreign Keys (FK).

- **Primary Key (PK):** A unique identifier in a table (e.g., CustomerID in the Customer table).
- **Foreign Key (FK):** A reference to a primary key in another table (e.g., CustomerID in the Sales table).

5. Relationship Types in Power BI

One-to-Many (1:M) (Most Common)

- A single record in one table relates to multiple records in another.
- Example: One Customer can have multiple Sales Transactions.

Many-to-One (M:1)

- The reverse of One-to-Many, where multiple records in one table map to a single record in another.
- Example: Many Products belong to one Product Category.

Many-to-Many (M:M)

- Used when multiple records in one table relate to multiple records in another.
- Example: Many Students can enroll in many Courses.
- Requires Bridge Tables or Composite Models in Power BI.

6. Handling Relationships using Relationship View

- Power BI Model View provides a visual interface to create and manage relationships.
- Users can drag-and-drop connections between tables.
- Relationship properties like Cross-filter direction and Active Relationships can be adjusted.



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DAX (Data Analysis Expressions)

Data Analysis Expressions (DAX) is a powerful formula language used in Power BI, Excel Power Pivot, and SQL Server Analysis Services (SSAS) to perform calculations and data manipulation. It is specifically designed for data modeling and allows users to create custom calculations for reports and dashboards.

Common DAX Functions

DAX functions can be categorized into different groups based on their purpose:

1. Aggregation Functions:

Aggregation functions perform mathematical operations on data, such as summing values, calculating averages, and counting records.

- **SUM():** Adds up all values in a column.
- **AVERAGE():** Calculates the average value in a column.
- **COUNT():** Counts the number of values in a column.

2. Logical Functions:

- Logical functions help perform conditional operations, allowing users to apply decision-making logic.
- **IF():** Returns one value if a condition is true and another if false.
- **SWITCH():** Evaluates an expression and returns a value based on multiple conditions.

3. Time Intelligence Functions:

These functions enable calculations based on time periods, such as year-to-date, previous year, and rolling averages.

- **TOTALYTD():** Calculates the Year-to-Date (YTD) total.
- **SAMEPERIODLASTYEAR():** Compares a measure with the same period in the previous year.

4. Filtering Functions:

Filtering functions help manipulate and extract specific data based on conditions.

- **CALCULATE():** Modifies the context of a calculation by applying filters.
- **FILTER():** Returns a subset of a table that meets specified conditions.

DAX: Mathematical & Statistical Functions

Resolution Efficiency (%):

Divide():

The **DIVIDE()** function in Power BI (DAX) is used to perform division while handling errors such as division by zero. Unlike the standard division ($/$), **DIVIDE()** prevents calculation errors by returning an alternative result when the denominator is zero.

Syntax: **DIVIDE**(numerator, denominator, alternateResult)

Count():

The **COUNT()** function in Power BI (DAX) is used to count the number of values in a column. It only counts non-blank values.

Syntax: **COUNT**(column)

Rank Agents:

Rankx():

The **RANKX()** function in Power BI (DAX) assigns a ranking to each row in a table based on a specified column's values. It is commonly used for ranking items like sales performance, employee efficiency, or product popularity.



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Syntax: RANKX(table, expression, [value], [order], [ties])

DAX: Text Functions

Formatted Ticket Summary:

CONCATENATE():

The CONCATENATE() function in Power BI (DAX) is used to join two text values into a single string. It is useful for creating full names, IDs, custom labels, and formatted text values in reports.

Syntax: CONCATENATE(text1, text2)

Extract First Three Letters:

Left():

The LEFT() function in Power BI (DAX) extracts a specific number of characters from the beginning (left side) of a text string.

Syntax: LEFT(text, num_chars)

DAX: Table Functions

Summary of Tickets by Agent:

SUMMARIZE():

The SUMMARIZE() function in Power BI (DAX) is used to create a summary table by grouping data based on one or more columns and applying aggregations. It works similarly to SQL's GROUP BY.

Syntax: SUMMARIZE(table, groupBy_column1, groupBy_column2, ..., [name1], expression1, [name2], expression2, ...)

Generate Ticket-Customer Relationship:

ADDCOLUMNS():

The ADDCOLUMNS() function in Power BI (DAX) is used to add new calculated columns to an existing table without modifying the original table. It returns a new table with the added columns.

Syntax: ADDCOLUMNS(table, column_name1, expression1, column_name2, expression2, ...)

Conclusion on Power BI Workshop

The Power BI workshop provided a comprehensive understanding of how to efficiently work with data, create insightful visualizations, and enhance decision-making through interactive reports. Participants gained hands-on experience in data extraction, transformation, modelling, and visualization, enabling them to develop dynamic dashboards and reports tailored to business needs.

By mastering Power BI, participants are now equipped with the skills to analyse large datasets, generate meaningful insights, and make data-driven decisions. The workshop successfully empowered learners with real-world applications of Power BI, enhancing their analytical and reporting capabilities for both academic and professional growth.



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Here are the pictures:

Data Modeling in Power BI

- Importance of Data Modeling
- Star Schema vs Snowflake Schema
- Fact Tables & Dimension Tables
- Creating Relationships Between Tables
- One-to-Many, Many-to-One, Many-to-Many
- Handling Relationships using Relationship View

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DAX (Data Analysis Expressions)

- DAX is a formula language used for calculations in Power BI.
- Common Functions:
 - Aggregations: SUM(), AVERAGE(), COUNT()
 - Logical: IF(), SWITCH()
 - Time Intelligence: TOTALYTD(), SAMEPERIODLASTYEAR()
 - Filtering: CALCULATE(), FILTER()

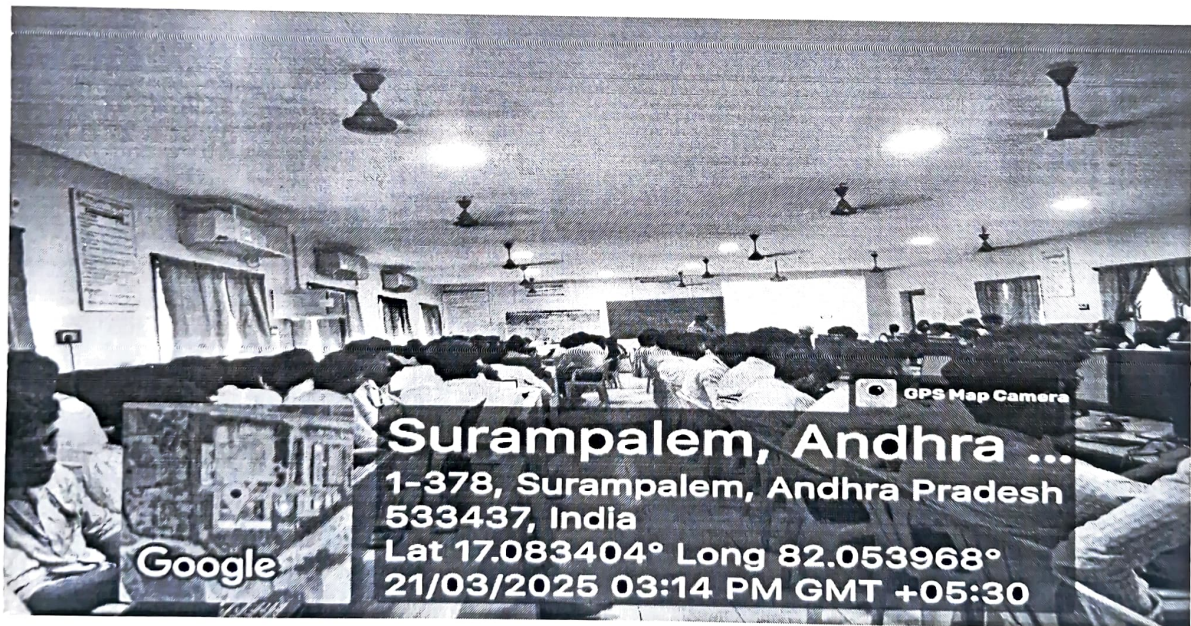
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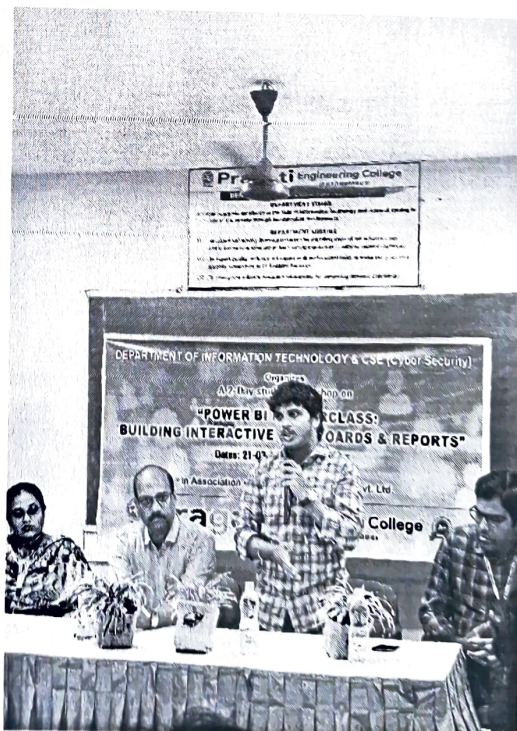




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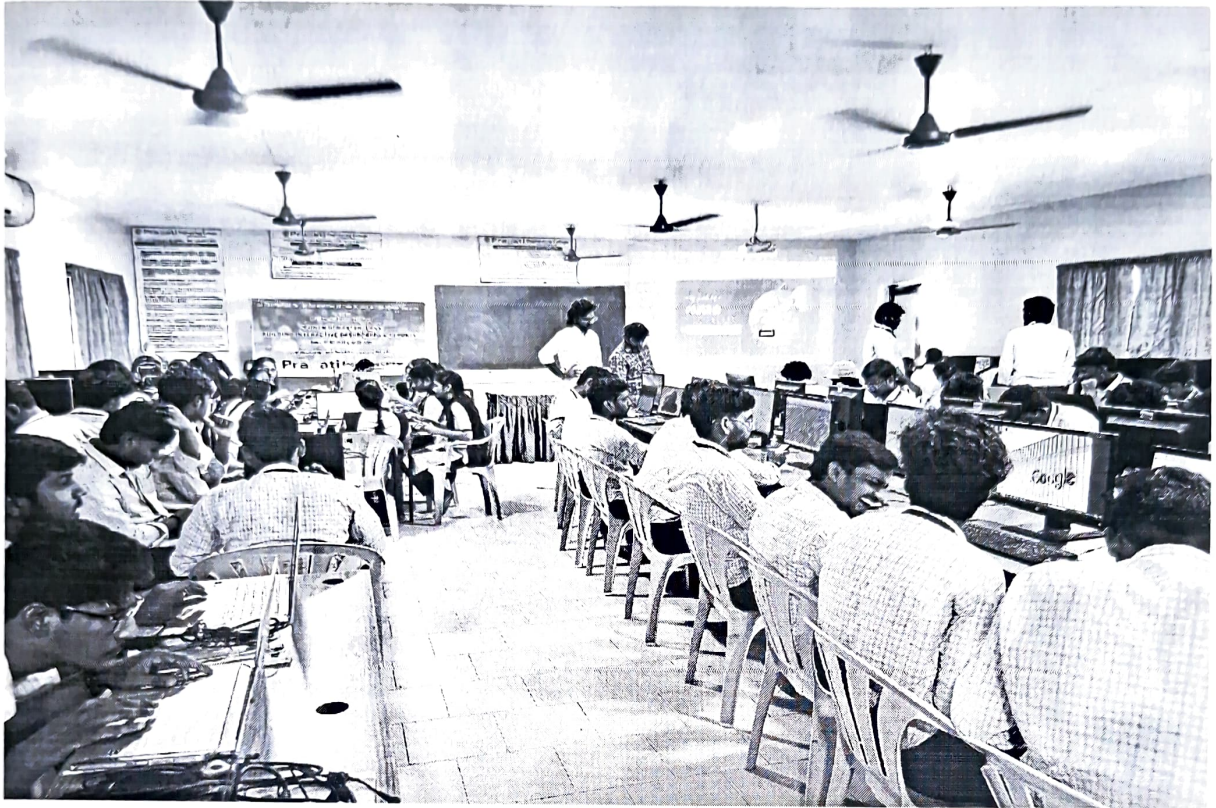




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FEEDBACK ANALYSIS REPORT :

We collected feedback from all the students via online. We have designed a feedback form for this. Student's feedback on the event is presented below:

FEEDBACK	NO OF STUDENTS
Excellent	70
Good	42
Average	2
Total	114


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