KG REDDY College of Engineering & Technology

KG Reddy College of Engineering & Technology

(Approved by AICTE, New Delhi, Affiliated to JNTUH, Hyderabad)

Chilkur (Village), Moinabad (Mandal), R. R Dist, TS-501504

Report

On

"A Four Week Foundation on Data Analytics"

As a Part of

Emerging Technology Course

Under

Engineering for Sustainable Development Program

26/02/2021 to 19/03/2021

Organized by

Data Science

Data Science Club, Department of Computer Science and Engineering

In Association with

H&S Department

At

KG Reddy College of Engineering & Technology

Submitted by

Ms. R. Hima Sagarika, Assistant professor,

Dept. of Computer Science and Engineering

Head of the Department

Head of the Department
Humanities & Science
K.G. Reddy College of Engg. & Tech.
Chilkur, Moinabad, R.R. Dist. T.S.

Principal

19/3/21

PRINCIPAL
KG Reddy College of Engineering & Technology
Chilkur(V), Moinabad (M),
R.R. Dist. Telangana.

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1. Course introduction

Course Name: A Four Week Foundation Course on Data Analytics

Course duration: 4 - weeks

Organized Department: Institutions Innovation Council

Collaborations: H & S dept., Center for Innovation and Social Transformation

Course offered by – Data Science club, dept. of Computer Science and Engineering.

Venue: CEED Room KG Reddy College of Engineering and Technology, Hyderabad

Co-Ordinator: Ms. R. Hima Sagarika, Asst. Prof., Dept. of Computer Science and Engineering, KGRH

Resources Persons:

1. Ms.R. Hima Sagarika
2. Dr. B. Hari Krishna
3. Mr. K. Rama Krishna Reddy
4. Mr. K. Uma Shankar

3.Objective of the Course

The objectives of the course are as follows

1. To bring a Clear overview about Data Science, its objective and importance.
2. Explain the concepts of Data Analytics
3. Explain basics of Programming for Problem Solving & Data Structures
4. Explain basics of Database Architecture and Design E-R Diagram
5. Write basic Programming in Python

4. Introduction of Data Science club

The DATA SCIENCE club has formed in the year of 2020 in our institution KG Reddy College of Engineering and Technology, Hyderabad, as a great leadership taken by the Department of Computer Science and Engineering.

1. Ms. R. Hima Sagarika, Assistant Professor, Dept. of Computer Science and Engineering.

Logo of the Data Science Club

Data Science

Brochure for the 1st week course

4. Four weeks Content Delivery Description

Week – 1: "Overview of Data Science & Introduction to Data Analytics"

On the Frist week of the Session Ms.R.Hima Sagarika have gave an overview on the Data Sciece so that students will get an idea on Data Sciene and the club activities.Later on she have continued the session with the indroduction of Data Analytics.She have explained about the following topics.

- Importance of Data Analytics
- Tools used for Data Analytics
- Environment of Data Analytics
- KDD Process
- Differentiation between Supervised and Un Spervised Learning

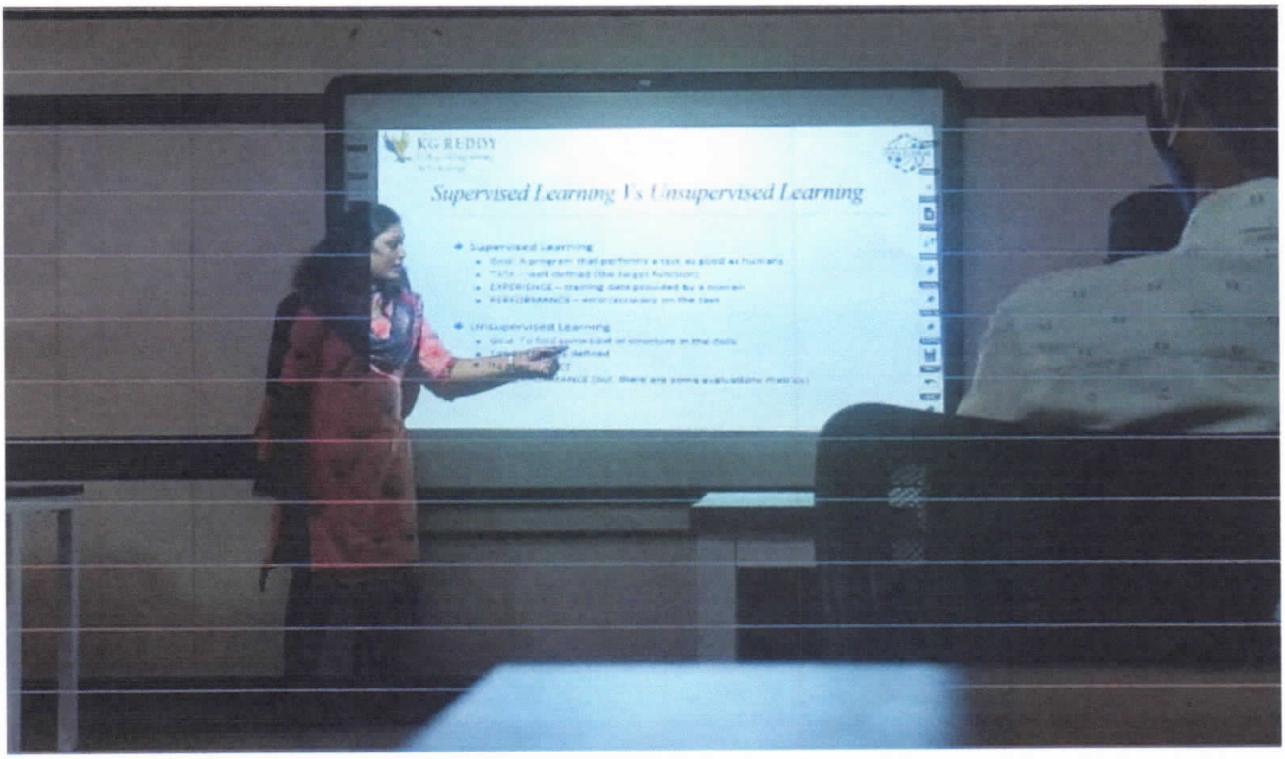


Fig.1.Screen Shots of the Week 1 Session by Ms. R. Hima Sagarika explaining about Supervised and Unsupervised Learning

Week – 2: "Introduction to Data Structures&Database Management System"

On the Second Week we had two Resource persons Dr.B.Hari Krishna and Mr. K.Rama Krishna Reddy. Dr.Hari Krishna sir have Explain the basic Concepts on Data Structures. So, those Students will get the basic foundation on Coding. Sir have explained the about the following topics.

- Introduction to Data Structures
- Linked List
- Stack & Queue
- Searching Techniques
- Sorting Techniques
- Graph & Tree Data Structure
- Recursion

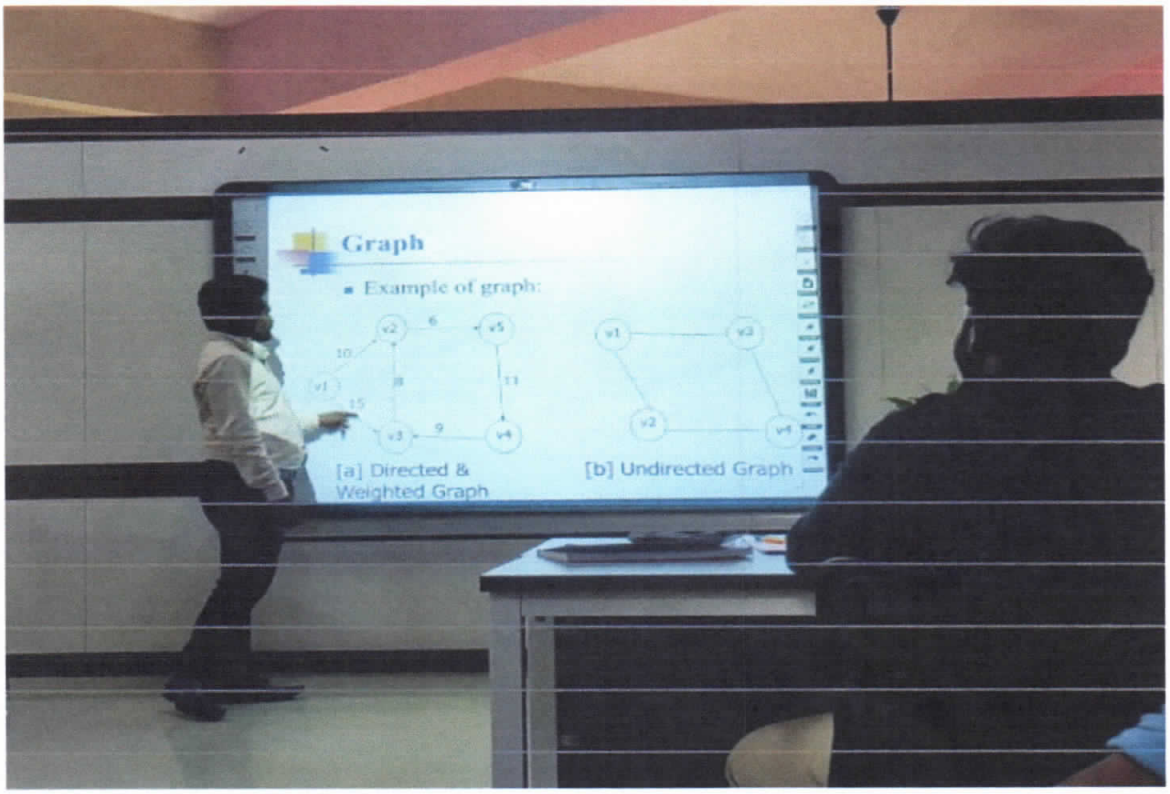


Fig.2.Screen Shots of the Week 2 Session by Dr. B. Krishna explaining about Graph Data Structure

Second Resource Person Mr. K. Rama Krishna Reddy have explained about the concepts of Database Management system. So, that student will get an idea on how we will Create store the data in the Databases and Sir have explained the following concepts:

- Introduction to Databases
- File System Vs Database
- Database Applications
- ER-Diagram

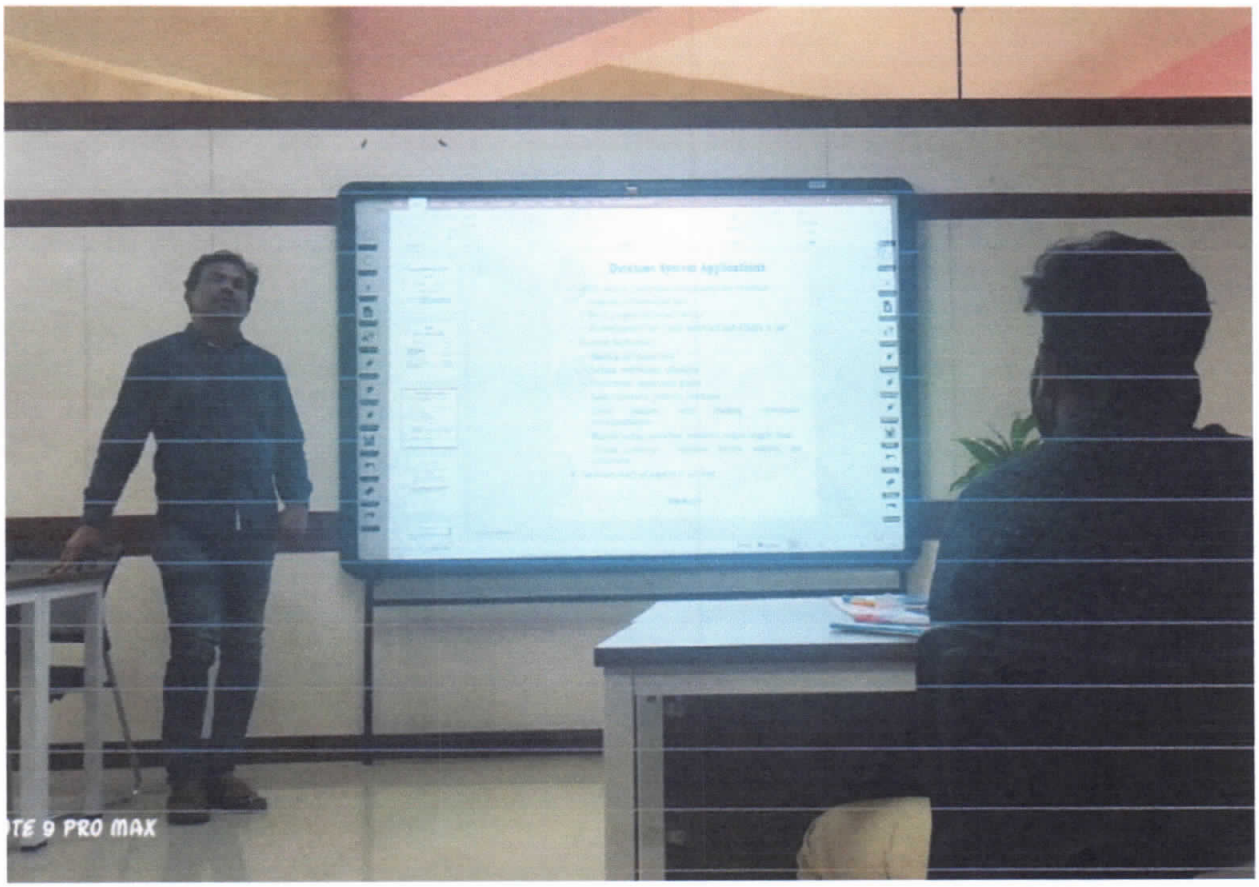


Fig.3.Screen Shots of the Week 2 Session byMr.K.Rama Krishna Reddy about Database Applications

Week – 3:"Basics on Python"

On the Third Week we had Resource persons Mr.K.Uma Shanker .Sir have Explained the basic Concepts of Python. So, that Students will get the basic concepts on Coding. Sir have explained the about the following topics.

- Introduction to python
- Python data types
- Strings
- Lists
- Tuples Dictionaries
- Control flow statements

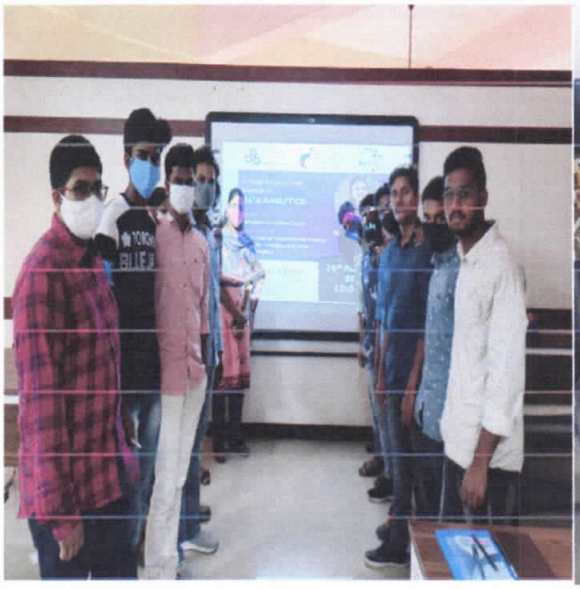
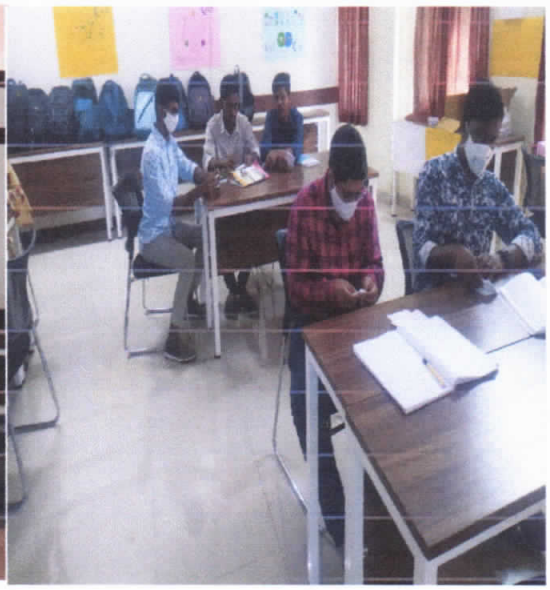
Fig.4.Screen Shots of the Week 3 Session by Mr.K.UmaShankar about basics of Python

Week – 4: "Coding on Python"

On the Fourth Week we had Resource persons Mr.K.Uma Shanker . Sir have Explained about installation of Python software and explained by implementing few basic Syntax and coding like

- Variables
- Operators
- Loops
- Strings
- List etc..

Fig.5.Screen Shots of the Week 4 Session by Mr.K.UmaShankar about installation process of the Python Software

Few glimpse during the implementation of the Pedagogy Activity Think-Pair -Share Activity

Finally,to understand the student level of the Course After completion of the four week ESD program we have asked the students to complete the Free certification course and students have completed the course successfully and earned the certificate.

Fig.6.Screen Shots of the certificates received by the students

6. Scope of the course

As all the students have completed the certification so that we understood the basic level of the course So that we have planned for Advanced course and been implemented soon in the next phase. There the students will be implementing the Real-Time projects. A four Week foundation course on Data Analytics offered basic knowledge required for Data Science Club projects. This course made students ready for carry small projects related to Data science Club by identifying problem by their own and finding sustainable solutions. These foundation course knowledge students able to understand different Real-Time projects. So, that they can identify different problems and finding best sustainable solution by using their basic knowledge.

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Circular No: HS/CIRCULAR/2020-21/08-2 **Date: 22-02.2021**

CIRCULAR

It is to inform I. B.Tech. students that the Department of Humanities & Sciences in association with Engineering Sustainable Design, Centre for Innovation & Social Transformation & Computer Science Engineering, KGRCET is Organizing a Four-Week Foundation Course on Data Science Club on the Title "Four-Week Foundation Course on Data Analytics " from 26th February to 19th March 2021. The coordinator for the course is Mrs. R. Hima Sagarika, Assistant Professor from the department of Computer Science Engineering, KGRCET.

Therefore, all the students who have opted for this course are informed to attend regularly. The venue for the same is CEED Classroom. Timings are from 1:40 pm to 4:00 pm every Friday.

HOD, H&S

Head of the Department
Humanities & Science
K.G. Reddy College of Engg. & Tech
Chilkur, Moinabad, R.R. Dist. T.S.

PRINCIPAL

PRINCIPAL
KG Reddy College of Engineering & Technology
Chilkur(V), Moinabad (M),
R.R. Dist. Telangana.

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Director

All the Heads

Heads of R&D, CEED,SWD, Accreditation, Placements, Examination Branch

Student council Members

Administrative office

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INSTITUTION'S INNOVATION COUNCIL

Accredited by NAAC

Engineering for Sustainable Development

Department of Humanities and Sciences

Workshop on Emerging Technologies (Data Analytics)

Attendance Sheet | **Date:19-03-2021**

S.No	Roll Number	Name of the Student	Signature
1	20QM1A0104	Gundeboina Akhil	
2	20QM1A0505	Allada Harsha Sri Udaya Sankara Ganesh	
3	20QM1A0506	Alle Saikumar	
4	20QM1A0507	Hemanthsai G	
5	20QM1A0509	Bandi. Varshini	
6	20QM1A0510	Banda Nikith Sai Reddy	
7	20QM1A0512	Sai Krishna	
8	20QM1A0514	Banothu Vivekananda	
9	20QM1A0523	Chennoju Rajinesh	
10	20QM1A0537	Jangam Karthik	
11	20QM1A0544	K. Vamshi Krishna	
12	20QM1A0570	Pathlovath Uday	
13	20QM1A6608	Bodapati Sai	

		Bhargav Rao	B. Sai Bhargav
14	20QM1A6701	Aindla Layasri	A. Layasri
15	20QM1A6708	Borelli Ajay Kumar	
16	20QM1A6729	Mohd Abdul Kashif	
17	20QM1A6739	Vallimalai Varaprasad	
18	20QM1A6740	L. Praneeth Kumar	Puth
19	20QM1A6634	Mohd Mannan Ahmed	
20	20QM1A6612	Dadvaiah Pavan	
21	20QM1A526	Damerla Rambabu	
22	20QM1A528	Devarakonda Shivakanth	
23.	20QM1A6721	K. Navyasri	KNReddy.

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Engineering for Sustainable Development

Department of Humanities and Sciecnes

Workshop on Emerging Technologies (Data Analytics)

Attendance Sheet **Date:05-03-2021**

S.No	Roll Number	Name of the Student	Signature
1	20QM1A0104	Gundeboina Akhil	
2	20QM1A0505	Allada Harsha Sri Udaya Sankara Ganesh	
3	20QM1A0506	Alle Saikumar	
4	20QM1A0507	Hemanthsai G	
5	20QM1A0509	Bandi. Varshini	
6	20QM1A0510	Banda Nikith Sai Reddy	
7	20QM1A0512	Sai Krishna	
8	20QM1A0514	Banothu Vivekananda	
9	20QM1A0523	Chennoju Rajinesh	
10	20QM1A0537	Jangam Karthik	
11	20QM1A0544	K. Vamshi Krishna	
12	20QM1A0570	Pathlovath Uday	
13	20QM1A6608	Bodapati Sai Bhargav Rao	
14	20QM1A6701	Aindla Layasri	
15	20QM1A6708	Borelli Ajay Kumar	
16	20QM1A6729	Mohd Abdul Kashif	
17	20QM1A6739	Vallimalai Varaprasad	
18	20QM1A6740	L. Praneeth Kumar	
19	20QM1A6634	Mohd Mannan Ahmed	
20	20QM1A6612	Dadvaiah Pavan	
21	20QM1A526	Damerla Rambabu	
22	20QM1A528	Devarakonda Shivakanth	

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Attendance Sheet **Date:12-03-2021**

S.No	Roll Number	Name of the Student	Signature
1	20QM1A0104	Gundeboina Akhil	
2	20QM1A0505	Allada Harsha Sri Udaya Sankara Ganesh	
3	20QM1A0506	Alle Saikumar	
4	20QM1A0507	Hemanthsai G	
5	20QM1A0509	Bandi. Varshini	
6	20QM1A0510	Banda Nikith Sai Reddy	
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11	20QM1A0544	K. Vamshi Krishna	
12	20QM1A0570	Pathlovath Uday	
13	20QM1A6608	Bodapati Sai Bhargav Rao	
14	20QM1A6701	Aindla Layasri	
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17	20QM1A6739	Vallimalai Varaprasad	
18	20QM1A6740	L. Praneeth Kumar	
19	20QM1A6634	Mohd Mannan Ahmed	
20	20QM1A6612	Dadvaiah Pavan	
21	20QM1A526	Damerla Rambabu	
22	20QM1A528	Devarakonda Shivakanth	
23	20QM1A571	Poleni Ajay	
24	20QM1A6713	Navya	
25	20QM1A6727	K. Deepti	
26	20QM1A6712	D. Mounika	
27	20QM1A6721	K. Navya Sri	

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Department of Humanities and Sciecnes

Workshop on Emerging Technologies (Data Analytics)

Attendance Sheet **Date:26-02-2021**

S.No	Roll Number	Name of the Student	Signature
1	20QM1A0104	Gundeboina Akhil	
2	20QM1A0505	Allada Harsha Sri Udaya Sankara Ganesh	
3	20QM1A0506	Alle Saikumar	
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16	20QM1A6729	Mohd Abdul Kashif	
17	20QM1A6739	Vallimalai Varaprasad	
18	20QM1A6740	L. Praneeth Kumar	
19	20QM1A6634	Mohd Mannan Ahmed	
20	20QM1A6612	Dadvaiah Pavan	
21	20QM1A0526	DAMERLA RAMBABU.	
22	20QM1A0528	DEVARAKONDA SHIVAKANTH	

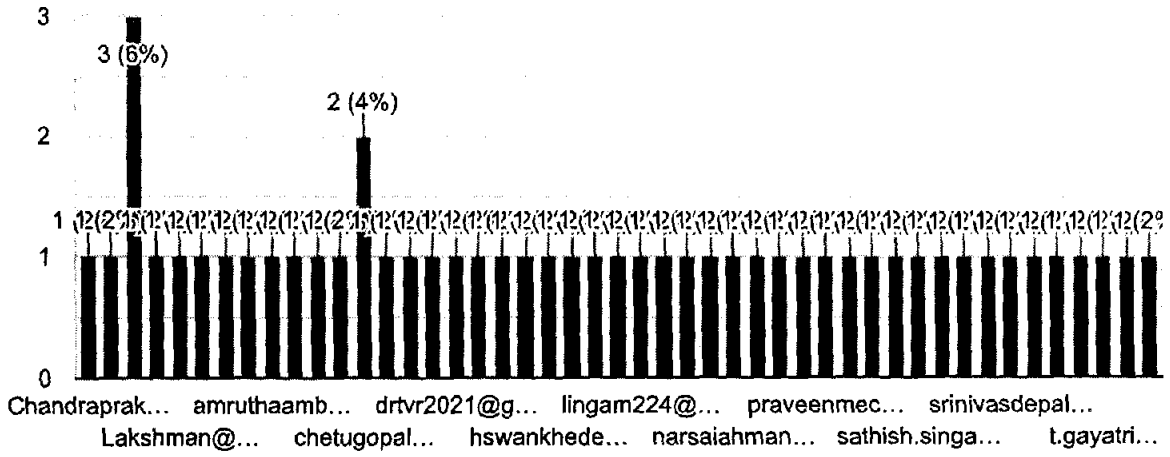
Feedback for Four Week Foundation Course on DataAnalytics

50 responses

Publish analytics

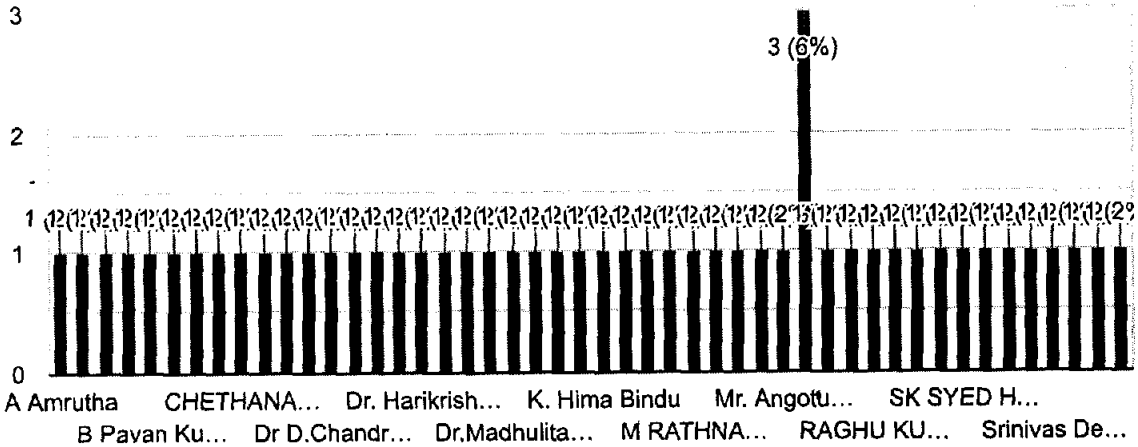
Email

50 responses



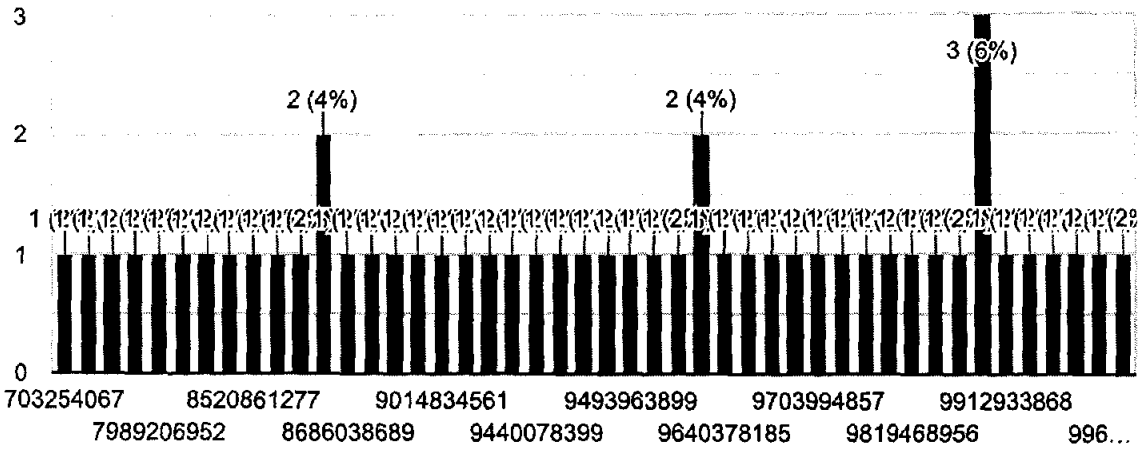
Name of Participant

50 responses



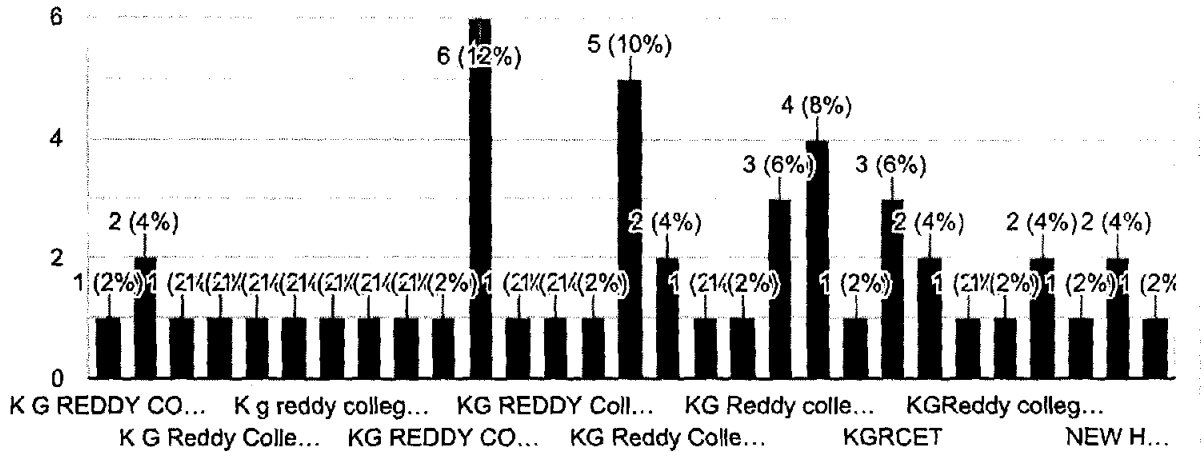
Mobile Number

50 responses



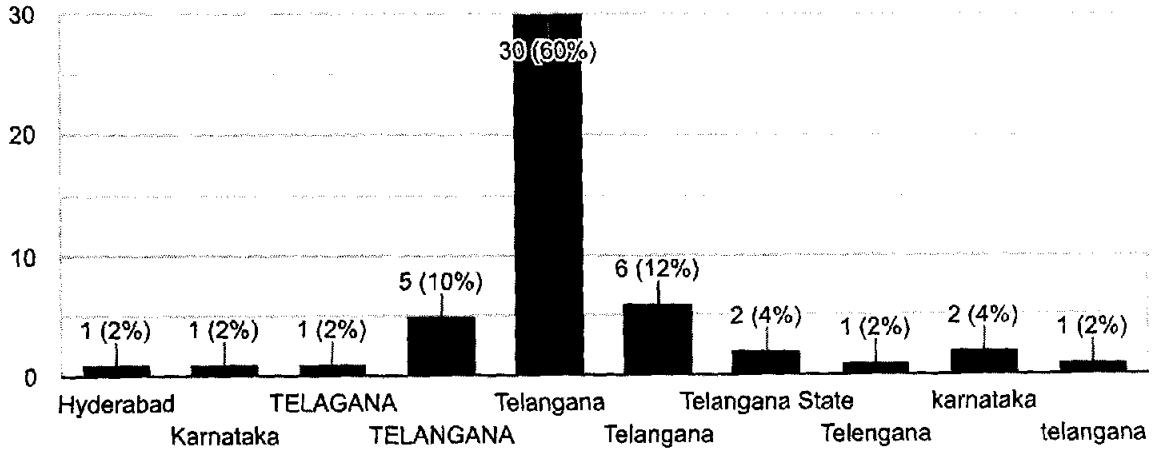
Name of College

50 responses



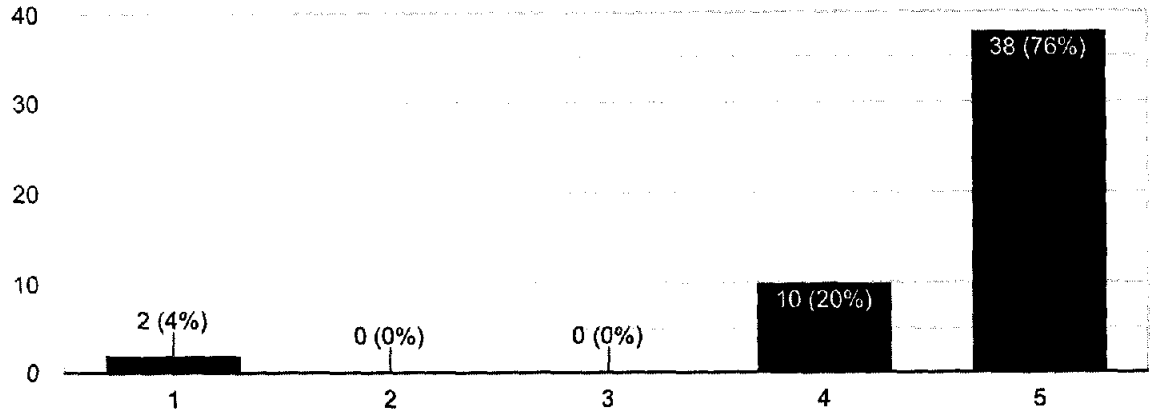
State

50 responses



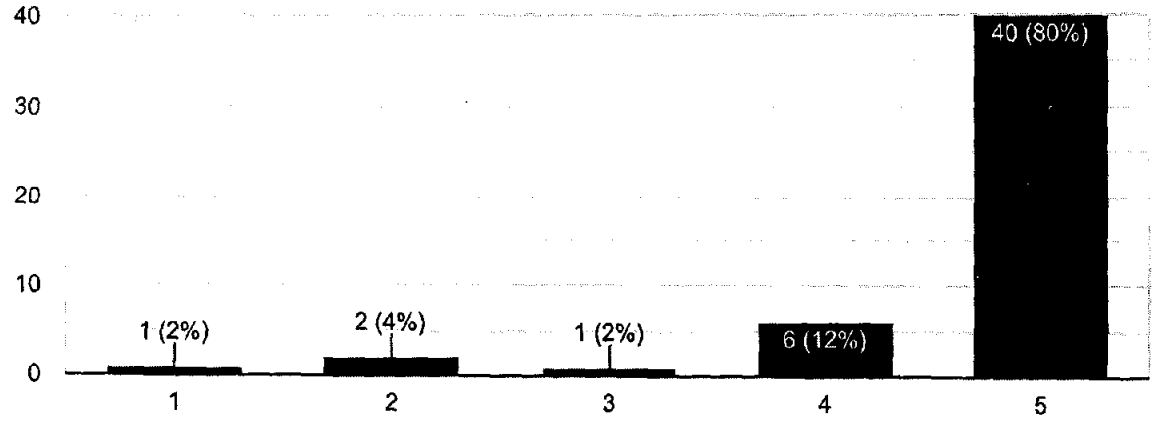
How satisfied were you with the session content ?

50 responses



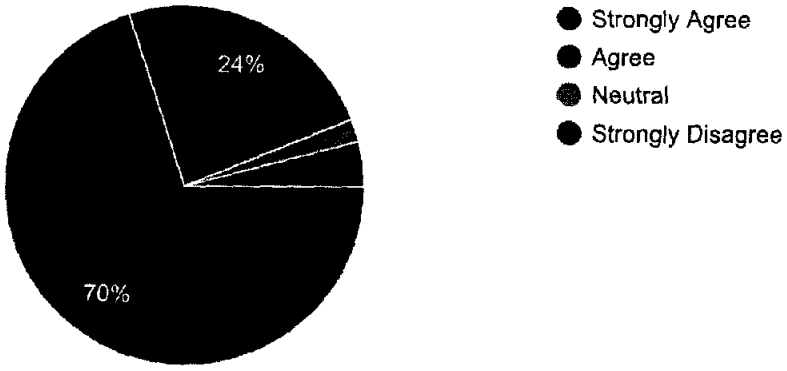
How relevant and helpful do you think it was for your job ?

50 responses



The session was structured and well organized ?

50 responses



What were your key take away from this session:

50 responses

Good

Technical paper writing, paragraph building

To improve in writing

Difference between active and passive voices, direct and indirect speeches, paragraph writing, LSRW skills

Improve communication skills

Effective ways of communication

I learn the communication skill

Useful

Good communication

Any Valuable Suggestions?

50 responses

No

Nothing

Excellent

Good

Nice session

Good session

good

It's very useful session

We can conduct more FDPs

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