

**Value Added Course in Python for Data Analytics**  
**Offered by Department of ECE, GCET**  
**Detailed Day-Wise Report**

**8 Oct 2022 (Day 1):**

- **Introduction to Analytics in Business:**  
Covered the role of analytics in modern business, including its importance in strategic decision-making and competitive advantage. Discussed analytics frameworks and business use cases.
- **Data Collection and Management:**  
Explored methods to collect structured and unstructured data from various business sources like customer interactions, sales, and marketing platforms. Emphasized data integrity and storage best practices.
- **Data Cleaning and Preprocessing:**  
Focused on techniques to handle missing data, remove errors, and standardize formats. Highlighted the impact of clean data on better decision-making.

**15 Oct 2022 (Day 2):**

- **Applications of Analytics in Business:**  
Discussed real-world business scenarios where analytics was used to enhance productivity, optimize costs, and improve customer satisfaction. Topics included predictive modeling and resource allocation.
- **Statistical Analysis and Hypothesis Testing:**  
Explained statistical methods like regression analysis, ANOVA, and chi-square tests to evaluate business hypotheses. Emphasized using data to validate assumptions, minimize risks, and guide strategic initiatives.

**22 Oct 2022 (Day 3):**

- **Python Basics for Business Analytics:**  
Introduced Python programming, focusing on how to use it for automating tasks and analyzing data in business contexts. Covered variables, data structures, loops, and functions.
- **Machine Learning in Business:**  
Presented machine learning concepts, including supervised and unsupervised learning. Demonstrated their application in customer segmentation, demand forecasting, and fraud detection.

**29 Oct 2022 (Day 4):**

- **Python for Data Analytics in Business:**  
Hands-on session using Python libraries like pandas and NumPy to manipulate datasets. Focused on filtering, sorting, and aggregating data for insights into sales, operations, and customer behavior.
- **Data Analysis and Processing:**  
Covered advanced techniques like exploratory data analysis (EDA), trend identification, and correlation analysis. Highlighted actionable insights for improving business strategies.

**5 Nov 2022 (Day 5):**

- **Data Visualization for Business Decisions:**  
Detailed the principles of creating compelling visualizations to convey key insights effectively. Covered tools like matplotlib and seaborn to create charts and graphs.
- **Scatter Plot, Line Chart, Bar Graph:**  
Practical exercises on designing and customizing visualizations for business reporting. Explored how to interpret visual data for presentations and strategy meetings.

*Shanay Begum*



## Geethanjali College of Engineering and Technology

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Cheeryal (V), Keesara (M), Medchal. Dist. 501301

Department of Management Studies

### Report on

### Value Added Course in Python for Data Analytics

Offered by Department of ECE, GCET

Duration: 10<sup>th</sup> Oct, 2022 to 05<sup>th</sup> Nov, 2022

#### Objective:

1. Motivating the students with sound academic record
2. Encouraging the students of Management Studies to participate in multidisciplinary activities
3. Providing hands on experience on Data analytics using Python

#### Expected Outcome:

1. Exposure to Data analytics
2. Learning the basics of Python
3. Hands on experience in Data visualization

#### Session Plan:

Session (Dates)	Topic title	9:30am to 12:30pm	Lunch 12:30pm to 1:30pm	1:30pm to 3:30pm
Day 1	Introduction to Analytics	Data collection and management	Lunch	Data cleaning and preprocessing
Day 2	Applications of Data analytics	Statistical analysis and hypothesis testing	Lunch	Practical applications and case studies
Day 3	Python basics	Machine learning	Lunch	Python basics
Day 4	Python for Data Analytics	Data analysis and processing		Data analysis and processing
Day 5	Data Visualization	Data Visualization	Lunch	Scatter plot, Line Chart, Bar graph

  
VAC Coordinator

  
HoD-DMS



**Banner/Poster:**

**Geethanjali College of Engineering and Technology**  
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 Chervylu (M) Keesara (M) Medchal District-501301

**Department of Electronics and Communication Engineering**

**Value Added Course on  
 "Python for Data Analytics"  
 8<sup>th</sup> Oct 2022 to 5<sup>th</sup> Nov 2022**

**Resource Person  
 Mr. Phani Kishore and Mr. Hare Krishna  
 GYAN ASTRA IT SOLUTIONS**

Time: 9:30am-3:30pm  
 Venue: Block J, GCET

VAC Coordinator: K. Meetha, Assistant Professor      Dean: SE & CE, Prof. B. Hari Kumar      Program Dr. S. Vinay Kumar

**No. of Students benefitted:** \_\_\_\_\_

**Photos:**



**Attendance and registration:**

GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY (Autonomous)  
 CHEERVALU (VYKESARA (M) MEDICAL) TELANGANA STATE  
 Results of Value Added Course on Python for Data Analytics  
 Attendance Sheet

S.NO	ROLL NO	NAME OF THE STUDENT	10-10-22	15-10-22	22-10-22	29-10-22	05-11-22
1	21R11E0001	ADLA TINKUSHAMBHAVI	A	A	A	A	A
2	21R11E0005	BAYYA ANUSHA	A	A	A	A	A
3	21R11E0018	JUPALLY THIRUKARAM	A	A	A	A	A
4	21R11E0024	KOTHAPALLI THANUSRI	K.T.Sri	K.T.Sri	K.T.Sri	K.T.Sri	K.T.Sri
5	21R11E0025	KUMMARIKUNTLA SRILEKHA	A	A	A	A	A
6	21R11E0026	KUNA SAI PAVAN	A	A	A	A	A
7	21R11E0033	NEELAM NEERAJA	Neeraja	Neeraja	Neeraja	Neeraja	Neeraja
8	21R11E0037	POCHAMPALLY VINITHA	Vinitha	Vinitha	Vinitha	Vinitha	Vinitha
9	21R11E0038	PRIYANKA BANOTHU	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
10	21R11E0040	RAGAM MANASA	Manasa	Manasa	Manasa	Manasa	Manasa
11	21R11E0042	SHEM REDDY RAJASHEKAR REDDY	S.R.Reddy	S.R.Reddy	S.R.Reddy	S.R.Reddy	S.R.Reddy
12	21R11E0044	RALLAPALLI VIDHYA	Vidhya	Vidhya	Vidhya	Vidhya	Vidhya
13	21R11E0008	CHALLA PAVAN KUMAR	P.Kumar	P.Kumar	P.Kumar	P.Kumar	P.Kumar
14	21R11E0011	DASARI NAVYA	Navya	Navya	Navya	Navya	Navya

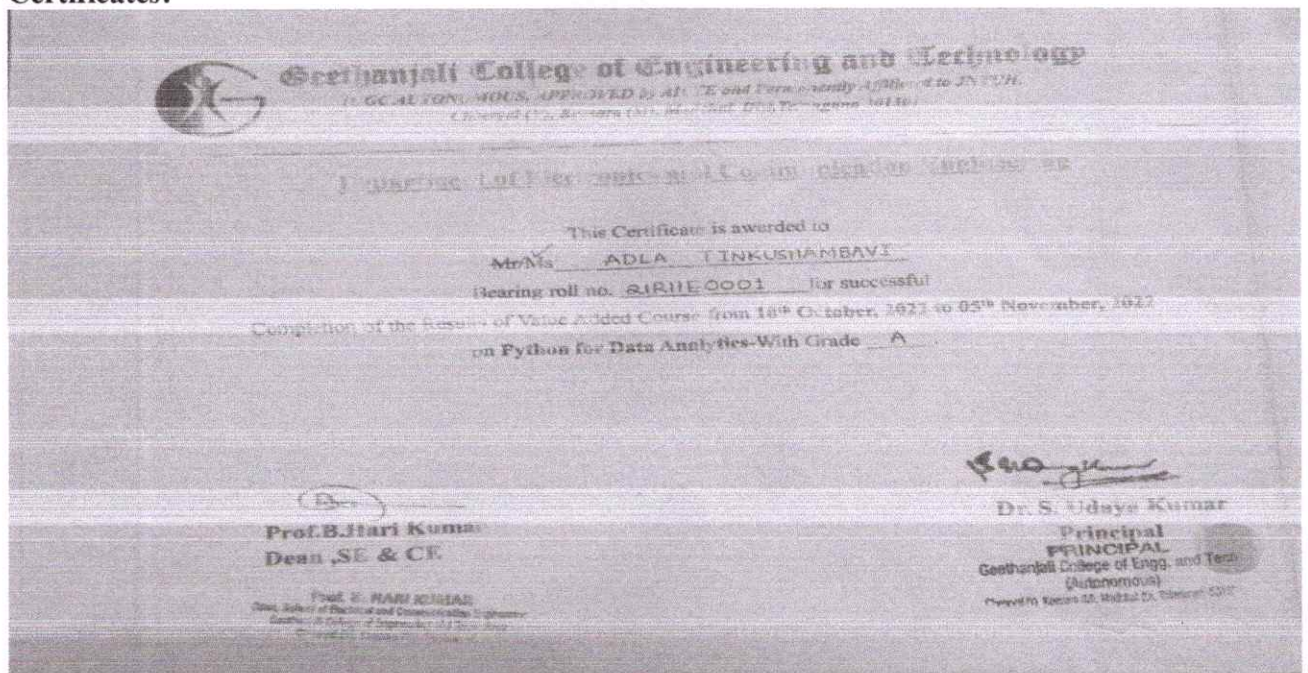
HoD-DMS

**HoD- DMS**

Feedback on VAC on Python for Data Analytics offered by Dept to ECE, GCET					
S. No.	Roll number	Department	Year (I yr/ II yr/ III yr/ IV yr)	What did you learn from the workshop?	How was the speaker's session?
1	21R11E0001	MBA	II yr	Data Analytics	Interactive
2	21R11E0005	MBA	II yr	Data Visualization	Creative
3	21R11E0018	MBA	II yr	Data Visualization	Creative
4	21R11E0024	MBA	II yr	Case study	Thought provoking
5	21R11E0025	MBA	II yr	Data Analytics and it's stages	Creative
6	21R11E0026	MBA	II yr	How to solve real life problems with statistics	Informative
7	21R11E0033	MBA	II yr	We've learnt about Data Analytics and how we implement it.	Informative
8	21R11E0037	MBA	II yr	Statistics component	Informative
9	21R11E0038	MBA	II yr	I learnt about the Data Analytics applications	Interactive
10	21R11E0040	MBA	II yr	Data Analytics	Informative
11	21R11E0042	MBA	II yr	Graphs	Creative
12	21R11E0044	MBA	II yr	Data Analytics	Informative
13	21R11E0008	MBA	II yr	Data Analytics	Informative
14	21R11E0011	MBA	II yr	Basics of Python	Creative

HoD- DMS

**Certificates:**







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Chervyl (V), Keesara (M), Medchal. Dist. Telangana 501301

## Department of Electronics and Communication Engineering

This Certificate is awarded to

Mr/Ms ADLA TINKUSHAMBAVI

Bearing roll no. 21R11E0001 for successful

Completion of the Results of Value Added Course from 10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022  
on Python for Data Analytics-With Grade A

**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
Chervyl (V), Keesara (M), Medchal.

**Dr. S. Udaya Kumar**

**Principal**  
**PRINCIPAL**  
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(Autonomous)

Keerana (M), Medchal (M), Telangana-501301



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on Python for Data Analytics-With Grade A



**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering,  
Geethanjali College of Engineering and Technology  
Chaceryal (V), Keesara (M), Medchal. Dist. Telangana-501301



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Principal  
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## Department of Electronics and Communication Engineering

This Certificate is awarded to

Ms BAYYA ANUSHA

Bearing roll no. 21R11E0005 for successful

Completion of the Results of Value Added Course from **10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022**  
on **Python for Data Analytics-With Grade B+**.

**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
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## Department of Electronics and Communication Engineering

This Certificate is awarded to

Mr/Ms DASARI NAVYA

Bearing roll no. 21R11E0011 for successful

Completion of the Results of Value Added Course from **10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022**  
on **Python for Data Analytics-With Grade B**



**Prof.B.Hari Kumar**  
**Dean ,SE & CE**

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
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## Department of Electronics and Communication Engineering

This Certificate is awarded to

Mr/Ms JUPALLY THUKARAM

Bearing roll no. 21R11E0018 for successful

Completion of the Results of Value Added Course from **10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022**

on **Python for Data Analytics-With Grade**   O  .



**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
Cheerla (V), Keesara (M), Manchil, Dist. Telangana 501301

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## Department of Electronics and Communication Engineering

This Certificate is awarded to

M<sup>rs</sup> KOTHAPALLI TANUSRI

Bearing roll no. 21R11E0024 for successful

Completion of the Results of Value Added Course from **10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022**  
on **Python for Data Analytics-With Grade B**.

**Prof. B. Hari Kumar**  
Dean, SE & CE

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Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
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## Department of Electronics and Communication Engineering

This Certificate is awarded to

M/Ms KUMARIKUNTLA SRILEKHA

Bearing roll no. 21R11E0025 for successful

Completion of the Results of Value Added Course from **10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022**  
on **Python for Data Analytics-With Grade A**

**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
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## Department of Electronics and Communication Engineering

This Certificate is awarded to

Mr/Ms KUNA SAI PAVAN

Bearing roll no. 21R11E0026 for successful

Completion of the Results of Value Added Course from 10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022  
on Python for Data Analytics-With Grade O.

**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
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Cheerlathur (V), Keesara (M), Medchal, Dist. Rangana 501301

## Department of Electronics and Communication Engineering

This Certificate is awarded to

~~M/Ms~~ NEELAM NEERAJA

Bearing roll no. 21R11E0033 for successful

Completion of the Results of Value Added Course from 10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022  
on Python for Data Analytics-With Grade A+



**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
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## Department of Electronics and Communication Engineering

This Certificate is awarded to

Mr/Ms POCHAMPALLY VINITHA

Bearing roll no. 21R11E0037 for successful

Completion of the Results of Value Added Course from **10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022**  
on **Python for Data Analytics-With Grade   O**.

**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
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## Department of Electronics and Communication Engineering

This Certificate is awarded to

Mr/Ms PRIYANKA BANOTHU

Bearing roll no. 21R11E0038 for successful

Completion of the Results of Value Added Course from 10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022  
on Python for Data Analytics-With Grade B.

Prof. B. Hari Kumar  
Dean, SE & CE

Prof. B. HARI KUMAR  
Dean, School of Electrical and Communicative Engineering  
Geethanjali College of Engineering and Technology  
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Dr. S. Udaya Kumar

Principal  
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## Department of Electronics and Communication Engineering

This Certificate is awarded to

M/Ms RAGAM MANASA

Bearing roll no. 21R11E0040 for successful

Completion of the Results of Value Added Course from 10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022  
on Python for Data Analytics-With Grade A



**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
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**Dr. S. Udaya Kumar**

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## Department of Electronics and Communication Engineering

This Certificate is awarded to

Mr/Ms SHEM REDDY RAJASHEKAR REDDY

Bearing roll no. 21R11E0042 for successful

Completion of the Results of Value Added Course from **10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022**  
on **Python for Data Analytics-With Grade A+**

**Prof. B. Hari Kumar**  
Dean, SE & CE

**Prof. B. HARI KUMAR**  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
Cheerjal (V), Keesara (M), Manchal, Dist. Telangana 501301

**Dr. S. Udaya Kumar**

**Principal**  
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**Geethanjali College of Engg. and Tech**  
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Principal M. V. K. Reddy, Manchal, Dist. Telangana 501301



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Cheruvu (V), Keesara (M), Manchal, Dist. Telangana 501301

## Department of Electronics and Communication Engineering

This Certificate is awarded to

Mr/Ms RALLAPALLI VIDHYA

Bearing roll no. 21R11E0044 for successful

Completion of the Results of Value Added Course from 10<sup>th</sup> October, 2022 to 05<sup>th</sup> November, 2022  
on Python for Data Analytics-With Grade 0

Prof. B. Hari Kumar  
Dean, SE & CE

Prof. B. HARI KUMAR  
Dean, School of Electrical and Communication Engineering  
Geethanjali College of Engineering and Technology  
Cheruvu (V), Keesara (M), Manchal, Dist. Telangana 501301

Dr. S. Udaya Kumar  
Principal

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**Value Added Course in Python for Data Analytics**  
offered by Department of ECE, GCET

**Day-Wise Report**

**25 Sept 2021 (Day 1):**

- **Morning Session (9:30 AM - 12:30 PM):**  
Introduced the fundamentals of statistical data analytics, focusing on its importance in business decision-making. Discussed methods for data collection, cleaning, and efficient management techniques.
- **Afternoon Session (1:30 PM - 3:30 PM):**  
Explored descriptive statistics, covering measures of central tendency (mean, median, mode) and variability (standard deviation, variance). Discussed their relevance in summarizing business data.

**8 Oct 2021 (Day 2):**

- **Morning Session (9:30 AM - 12:30 PM):**  
Dived into applications of data analytics in various industries, including marketing, finance, and operations. Introduced case studies showcasing the impact of data-driven strategies.
- **Afternoon Session (1:30 PM - 3:30 PM):**  
Conducted statistical analysis and hypothesis testing. Topics included t-tests, ANOVA, and their role in validating business decisions.

**23 Oct 2021 (Day 3):**


- **Morning Session (9:30 AM - 12:30 PM):**  
Covered Python basics for beginners, emphasizing its utility in business analytics. Topics included variables, loops, and functions.
- **Afternoon Session (1:30 PM - 3:30 PM):**  
Introduced machine learning fundamentals, including supervised and unsupervised learning techniques, with applications in customer segmentation and predictive analytics.

**30 Oct 2021 (Day 4):**

- **Morning Session (9:30 AM - 12:30 PM):**  
Hands-on session on Python for data analytics, using libraries like pandas and NumPy to manipulate and analyze datasets.
- **Afternoon Session (1:30 PM - 3:30 PM):**  
Advanced data analysis techniques, including trend analysis, correlation, and data aggregation, were discussed with practical examples.

**6 Nov 2021 (Day 5):**

- **Morning Session (9:30 AM - 12:30 PM):**  
Focused on creating effective data visualizations using Python tools like matplotlib and seaborn. Discussed principles for designing impactful visuals for business reports.
- **Afternoon Session (1:30 PM - 3:30 PM):**  
Practical session on building various graph types (scatter plots, bar charts, line graphs) and interpreting them to derive insights for presentations and strategic decisions.

  
Dr. A. Sita Madhavi





## Geethanjali College of Engineering and Technology

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Cheeryal (V), Keesara (M), Medchal. Dist. 501301

Department of Management Studies

### Report on

### Value Added Course in Python for Data Analytics

Offered by Department of ECE, GCET

Duration: 25<sup>th</sup> September, 2021 to 06<sup>th</sup> November, 2021

#### Objective:

1. Motivating the students with sound academic record
2. Encouraging the students of Management Studies to participate in multidisciplinary activities
3. Providing hands on experience on Data analytics using Python

#### Expected Outcome:

1. Exposure to Data analytics
2. Learning the basics of Python
3. Hands on experience in Data visualization

#### Session Plan:

Session (Dates)	Topic title	9:30am to 12:30pm	Lunch 12:30pm to 1:30pm	1:30pm to 3:30pm
Day 1	Introduction to Statistical Data Analytics	Data collection, cleaning and management	Lunch	Descriptive statistics
Day 2	Applications of Data analytics	Statistical analysis and hypothesis testing	Lunch	Practical applications
Day 3	Python basics	Machine learning	Lunch	Python basics
Day 4	Python for Data Analytics	Data analysis and processing	Lunch	Data analysis and processing
Day 5	Data Visualization	Data Visualization	Lunch	Graphs

  
VAC Coordinator

  
HoD-DMS

**Banner/Poster:**

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Affiliated to JNTUH  
Cheeruvu (V), Keesara (R), Medchal District-501301

**Department of Electronics and Communication Engineering**

**Value Added Course on  
"Python for Data Analytics"  
25<sup>th</sup> Sept 2021 to 6<sup>th</sup> Nov 2021**

**Resource Person  
Mr. Phani Kishore and Mr. Hare Krishna  
GYAN ASTRA IT SOLUTIONS**

Time: 9:30am-3:30pm  
Registration link: <https://forms.gle/9CQAC2GdL1J4>

YAC Coordinator: K.Murugan, Assistant Professor  
Date: SE & CE, Prof. B.Hari Kumar  
Principal: Dr. S. Chitra Kumar

**No. of Students benefitted:** \_\_\_\_\_

**Registration:**

S.No.	Roll No.	Name of the student
1	20R11E0001	BADUGU MOUNIKA
2	20R11E0002	BODANNAGARI ANJALI
3	20R11E0019	KARANAM SANDHYA
4	20R11E0021	KOLA SWATHI
5	20R11E0022	KONDABOYENA MAHESH YADAV
6	20R11E0024	KOTA LAKSHMI APARNA
7	20R11E0025	KULKARNI ABHINAV KUMAR
8	20R11E0051	SURAVU SANDEEP
9	20R11E0052	BAIRAM VARUN KUMAR
10	20R11E0053	EERAMALLI MADHAVI
11	20R11E0057	VANGETI AAKANKSHA
12	20R11E0007	DANDU JANAKI ANJANA

  
**HoD- DMS**

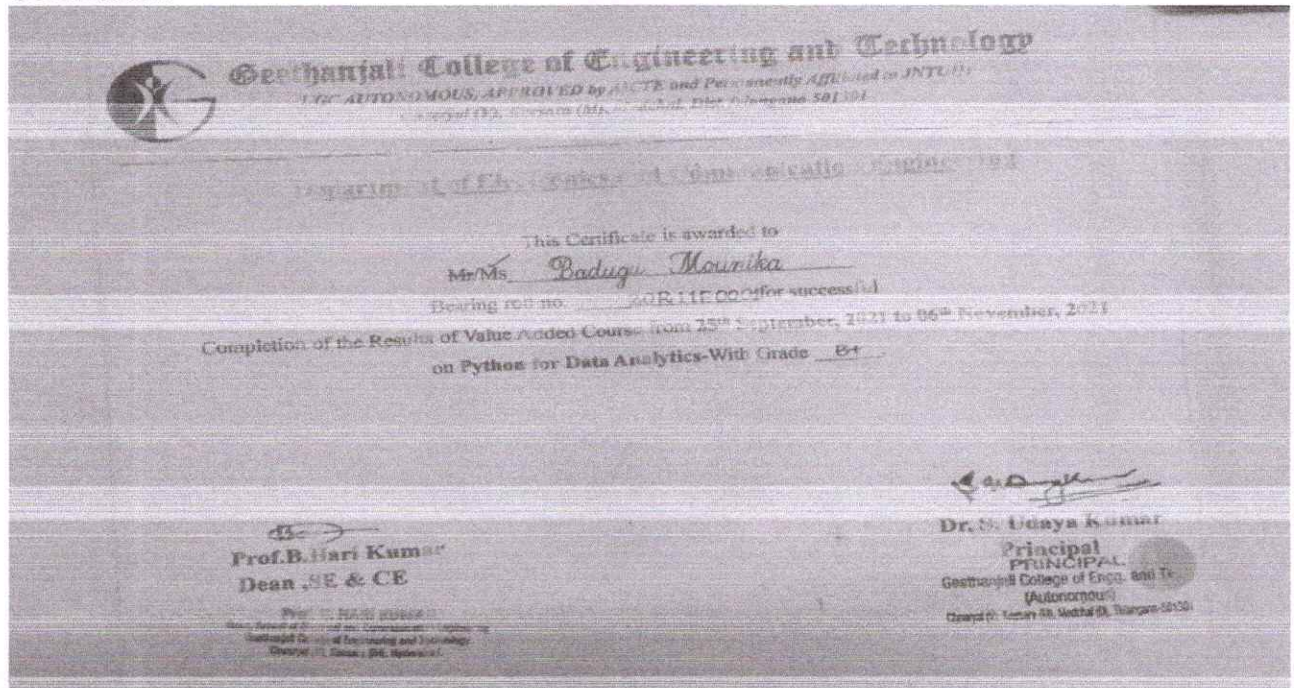


**Feedback form:**

Feedback on VAC on Python for Data Analytics offered by Dept to ECE, GCET					
S. No.	Roll number	Department	Year (I yr/ II yr/ III yr/ IV yr)	What did you learn from the workshop?	How was the speaker's session?
1	20R11E0001	MBA	II yr	Python basics	Engaging
2	20R11E0002	MBA	II yr	Statistical data analysis	Engaging
3	20R11E0019	MBA	II yr	Statistical data analysis	Interesting
4	20R11E0021	MBA	II yr	Python basics	Engaging
5	20R11E0022	MBA	II yr	Data visualization	Interesting
6	20R11E0024	MBA	II yr	Statistical data analysis	Informative
7	20R11E0025	MBA	II yr	Python basics	Informative
8	20R11E0051	MBA	II yr	Statistical data analysis	Informative
9	20R11E0052	MBA	II yr	Python basics	Engaging
10	20R11E0053	MBA	II yr	Data Analytics	Informative
11	20R11E0057	MBA	II yr	Data visualization	Interesting
12	20R11E0007	MBA	II yr	Statistical data analysis	Interesting

  
**HoD-DMS**

**Certificates:**







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## Department of Electronics and Communication Engineering

This Certificate is awarded to

Mr/Ms Badugu Mounika

Bearing roll no. 20R11E0001 for successful

Completion of the Results of Value Added Course from 25<sup>th</sup> September, 2021 to 06<sup>th</sup> November, 2021  
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✓ Mr/Ms Kondaboyena Mahesh Yadav

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MrMs Kulkarni Abhinav Kumar

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