

About the Institute

Vision: To be a part of the universal human quest for development and progress by contributing high calibre, ethical and socially responsible engineers who meet the global challenge of building a modern society in harmony with nature.

Established in the year 1980 under Sultan-Ul-Uloom Education Society (SUES), Muffakham Jah College of Engineering and Technology is a Minority Educational Institution affiliated to Osmania University, Hyderabad and approved by AICTE and accredited by the NAAC with Grade A+. With a standing of over 4 decades in the field of education, MJCET is one of the premier institutions offering 7 BE Courses in Civil, CSE, CS & AI, ECE, EEE, IT and Mechanical and 5 ME Courses and has 5 Research Centers. MJCET is listed consistently among the top 75 government and private engineering colleges of India. The college stood at 57th position in the survey conducted by Outlook-India 2024.

About the Department

The Department of Information Technology was established in the year 2000 with an intention to cater the needs of IT industry. The department has 5 computer laboratories equipped with latest computer systems and software meeting to the curriculum requirements along with separate Basic Electronics and Microprocessor Lab.



Website: <https://mjcollege.ac.in/>



<https://maps.app.goo.gl/6xNZKuz35CaVsPsg7>

MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

(Sultan-ul-uloom Education Society)

Affiliated to Osmania University and recognized by AICTE
Mount Pleasant, Road No. 3, Banjara Hills, Hyderabad—34



One Week Faculty Development Program

On

Data Science Using Python

(25 – 29 November, 2024)

Organized By

**National Institute of Technical Teachers
Training and Research (NITTTR), Chandigarh**

(Sponsored by Ministry of Education, Govt. of India)

In Association

With

**Information Technology Department
(Muffakham Jah College of Engineering and Technology)
(Remote Center)**

About NITTTR Chandigarh

The Ministry of Human Resource Development, Government of India established National Institute of Technical Teachers Training & Research to meet the large scale industrialization of the country in 1967. NITTTR Chandigarh is one of these four NITTTRs, started in collaboration with Royal Netherlands Government. The institute started with short term teachers' training programs for promoting the competence of teachers in various fields.

NITTTR established Educational Television and Computer Science departments in the year 1981 and 1982 respectively. In the year 1994, two more courses namely Master of Engineering in Construction Technology and Management and Computer Science and Engineering were added. Since June 2001, this institute has been conducting short term courses in various subjects for faculty of Engineering Colleges in addition to organizing AICTE sponsored Induction Training Programs.

About Data Science using Python FDP

Faculty Development Program on **Data Science using Python** is designed to introduce participants to core data science concepts using Python. Data science is an interdisciplinary academic field that uses statistics, scientific computing, scientific methods, processing, scientific visualization, algorithms and systems to extract or extrapolate knowledge and insights from potentially noisy, structured, or unstructured data.

Topics to be covered

- Feature Engineering
- Data Cleaning
- Data Analysis
- Data Visualization
- Data Science Basics
- Clustering Techniques
- Linear Regression and SVM
- Decision Trees
- Ensemble Based Learning
- Association Rule Mining

Chief Patron

Janab. Zafar Javeed
Hony. Secretary, SUES.

Patron

Dr. Mahipal Singh Rawat
Principal, MJCET.

Co-Patron

Dr. Syed Ferhathullah Hussainy
Professor & Dean, MJCET.

Convenor

Dr. Gouri R Patil
Head, ITD, MJCET.

Coordinator

Ms. Sayyada Hajera Begum
Assistant Professor, ITD - 9502667471

Co-Coordinator

Mr. Mohd Afroze
Assistant Professor, ITD - 98857554500

Organizing Committee

- Dr. Fouzia Sayeedunnisa, Assoc. Prof & Assoc. Head
- Dr. Rafi U Zaman, Assoc. Professor
- Mr. Himayathullah Shareif, Asst. Professor
- Mr. M A Rasheed, Asst. Professor
- Mr. Syed Azar Ali, Asst. Professor
- Mr. Ibrahim Khalilullah, Asst. Professor
- Mr. Abdul Wajid, Asst. Professor

Registration Guidelines

All the Participants have to pay the Registration fee of 118 Rs. through NITTTR Chandigarh FDP website.

NITTTR FDP Home Page Link

<https://fdp.nitttrchd.ac.in/backingup/>

NITTTR FDP Registration Link

<https://fdp.nitttrchd.ac.in/backingup/partiregister.php>

Link on how to Register

<https://drive.google.com/file/d/1cnrtzVLuN2WnS6yHl49rtcGhi4d3NYOb/view?usp=sharing>

MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

INFORMATION TECHNOLOGY DEPARTMENT

Report on One-Week Faculty Development Program

Data Science Using Python

Organized by: Information Technology Department (Remote Center)

Date: 25/11/2024 – 29/11/2024

Venue: Muffakham Jah College of Engineering and Technology

Coordinator(s): Ms. Sayyada Hajera Begum, Mr. Mohd Afroze

Information Technology Department, MJCET, in collaboration with NITTTR, Chandigarh organised a week long AICTE approved Faculty Development Program (FDP) on Data Science Using Python from 25/11/2024 – 29/11/2024.

The program aimed to enhance the knowledge and skills of faculty members in the field of Data Science and empower them to integrate these technologies into their teaching and research practices. The FDP was conducted in online mode and included a mix of lectures, hands-on sessions, and case studies.

The FDP saw the participation of 74 teaching and non-teaching staff from MJCET and other institutions including CMR, DCET, VJIT, and GNITS. The FDP concluded with an address from Prof. Mahipal Singh Rawat, Principal, MJCET, who emphasised on conducting more such FDPs to equip faculty with latest tools and technologies.

The primary objectives of the FDP were:

- To introduce participants to the fundamental concepts of Data Science.
- To provide practical knowledge on Python programming for data analysis and visualization.
- To familiarize participants with machine learning techniques and their applications in various domains.
- To foster collaboration and knowledge sharing among faculty members.

The program received overwhelmingly positive feedback. Participants particularly appreciated the relevance of the topics, the expertise of resource persons, and the balance between theory and practice.

We extend our gratitude to MJCET, and participants for their contributions to the success of the FDP. Special thanks to Head of IT Department and organizing committee for their support.

FDP schedule

DAY	Session – 1 10 AM to 11:30 AM	Session - 2 11:30 AM to 1 PM	Session - 3 3:00 PM – 4:30 PM
25/11/2024	Inauguration and Introduction to the STC (AD)	Introduction to Data Science and Integrating application with a Data exchange platform (JD)	Essential of Python for Data Science (AD)
26/11/2024	EDA and Data Preprocessing (JS)	Supervised Techniques for Data Science (AD)	Time-Series Analysis (JDB)
27/11/2024	Credit Card Fraud Analysis and Detection (JS)	Advanced Statistics and Hypothesis Testing for Data Science Applications (GK)	UnSupervised Techniques for Data Science (GD)
28/11/2024	Customer Segmentation and Churn Prediction (SS)	Deployment of Data Science models using Flask and Streamlit (JDB)	Data Visualization (AD)
29/11/2024	Vector Databases for Data Science Applications (GK)	LLMS and building applications for Data Science with Langchain (AK)	Valediction and Feedback (AD)

Resource Person

Name	Affiliation/Organisation of Expert	Area of Expertise
Dr. Jagriti Saini	Founder & Owner, Eternal RESTEM, Himachal Pradesh	Data Science, Artificial Intelligence,
Dr. Akashdeep	Associate Professor(CSE), UIET , Panjab University, Chandigarh	Deep Learning, Machine Learning, Data Analytics
Dr. Jyotirmoy	Principal Scientist and Program Manager, IISc, Bangalore	Data Science, Data Analytics
Dr. J.D. Bodapati	AI Research Scientist, eWealthMax, Hyderabad	Machine Learning and Artificial Intelligence
Mr. Gagan Deep	Founder & Director , Rozy Computech Services, Kurukshetra	Data Science, AI, Machine Learning
Dr. Gaurav Kumar	Director, Magma Research & Consultancy Services, Ambala	AI, Research Tools and Technologies
Dr. Sarbjeet Singh	Professor(CSE), UIET , Panjab University, Chandigarh	Deep Learning, Machine Learning







CERTIFICATE LIST OF PARTICIPANTS

For ICT Based STC on “Data Science using Python”

Oplan: ICT-71

25.11.2024 to 29.11.2024

At

MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

S. NO.	Name of the Participant	Designation of the Participant	Name of the University/Engg. College
1.	AFREEN SULTANA	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
2.	AJAZ FATIMA	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
3.	AMEENA THABASUM	ASSISTANT PROFESSOR	MUFFAKHAMJAH COLLEGE OF ENGINEERING AND TECHNOLOGY
4.	ARSHAD MOHAMMED	ASSISTANT PROFESSOR	MUFFAKHAMJAH COLLEGE OF ENGINEERING AND TECHNOLOGY
5.	ASMA	ASSISTENT PROFESSOR	CMRTC
6.	ASMA SULTANA	ASSISTANT PROFESSOR	MUFFAKHAMJAH COLLEGE OF ENGINEERING AND TECHNOLOGY
7.	AYESHA MARIYAM	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
8.	AYESHA SIDDIQUA	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
9.	BHARAT KUMAR TALLURI	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
10.	DR JAYASHREE S PATIL	ASSOCIATE PROFESSOR	G NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
11.	DR MANIZA HIJAB	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
12.	DR RAFI U ZAMAN	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

13.	DR. WASEEMA MASOOD	ASSOCIATE PROFESSOR	DECCAN COLLEGE OF ENGINEERING AND TECHNOLOGY
14.	DR.GADALA SUHASINI	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
15.	FAHMINA TARANUM	PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
16.	GOURI R PATIL	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
17.	GOUSIA BANU	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
18.	HAKEEM NIZAMUDDIN SALEEM	LAB SUPERVISOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
19.	HIMAYATULLAH SHARIEF	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
20.	JAHEDA BEGUM	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
21.	K MOHAMMADI JABEEN	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
22.	KAHKASHAN JABEEN	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
23.	KHAIR UNNISA NAAZ	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGG. AND TECHNOLOGY
24.	KHAJA ZAHORUDDIN AHMED	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
25.	KOTARI SRIDEVI	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
26.	M KARTHEEK KUMAR REDDY	ASSISTANT PROFESSOR	MUFFKAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
27.	MAHMOODA MUBEEN	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
28.	MANJUSHA KALEKURI	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

29.	MD ABDUL RAWOOF SAYEED	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
30.	MD ASRAR AHMED	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
31.	MD IBRAHIM KHALILULLAH	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
32.	MD ZAINUDDIN NAVEED	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
33.	MOHAMMED ABDUL RAHEEM	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
34.	MOHAMMED AFROZE	ASSISTANT PROFESSOR	MUFFAKHA JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
35.	MOHAMMED AKBER ALI	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
36.	MOHAMMED JALEEL	COMPUTER OPERATOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
37.	MOHAMMED RAZIA ALANGIR BANU	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
38.	MOHAMMED UMAIR QUADRI	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
39.	MOHD ABDUL HALEEM RIZWAN	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
40.	MOHD ABDUL MUQEET	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
41.	MOHD ABDUL RASHEED	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
42.	MOHD ABDUL WAJID	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
43.	MOHD NAZEER	ASSOCIATE PROFESSOR	VIDYA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
44.	MOHD SALEEM KHAN	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
45.	NAIMOONISA BEGUM	ASSISSTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

46.	NARJIS.B	SENIOR ASSISTANT PROFESSOR	MUFFAKAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
47.	NAUSHEEN BANO	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
48.	NISHAT AFZA	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
49.	QAMAR SULTANA	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
50.	RAZIA BEGUM	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
51.	RUBEENA RAB	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
52.	S. FOUZIA SAYEEDUNNISA	ASSOCIATE PROFESSOR	MUKHAFFAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
53.	SABA SHEIBA	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
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55.	SAMATHA KONDA	ASSISTANT PROFESSOR	MUFFAKHAM JHA COLLEGE OF ENGINEERING AND TECHNOLOGY
56.	SAMERA SANIYA	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
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59.	SAYYADA MUBEEN	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
60.	SHAHEEN SULTANA	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
61.	SHAIK ASHA	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
62.	SHAIK NEEHA	ASSISTANT	MUFFAKHAM JAH COLLEGE OF

		PROFESSOR	ENGINEERING AND TECHNOLOGY
63.	SHAISTA TARANNUM	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
64.	SUMERA SULTANA	ASSISTANT PROFESSOR	MUFFKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
65.	SUMRANA SIDDIQUI	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
66.	SYED ABDUL QUAYUM	COMPUTER PROGRAMMER	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
67.	SYED AMANULLAH HUSSAINI	ASSOCIATE PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
68.	SYED AZAR ALI	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
69.	SYED ILYAS MOHIUDDIN	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
70.	SYEDA AMBAREEN RANA	ASSISTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
71.	SYEDA HUSNA NOOREEN	ASSISSTANT PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
72.	TATI LALBEE	COMPUTER PROGRAMMER	MUFFAKHAMJAH COLLEGE OF ENGINEERING AND TECHNOLOGY
73.	UMA N DULHARE	PROFESSOR	MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
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