

Hindustan College of Science and Technology

Farah (Mathura)

Department of Information Technology

Date: 02 February 2023

Circular

Registration for Value-Added Course: "Data Analysis using Python (VACIT-005)"

Dear Students,

We are pleased to announce a valuable opportunity for all 3rd-year and Final Year students to enhance their skills and knowledge in the field of data analysis. We are offering a comprehensive course on "Data Analysis using Python" that will be conducted from 13th February 2023 to 15th May 2023.

Course Details:

Course Name: Data Analysis Using Python

Duration: 13th February 2023 - 15th May 2023(30 Hrs)

Last Date of Registration: 12 February 2023

Registration Details:

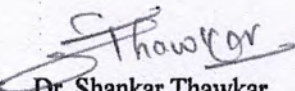
To secure your spot in this value-added course, you must register before the deadline. The last date for registration is 12th February 2023. To register, please contact Mr. Ajay Raj Parashar, Assistant Professor in the Department of Information Technology, who will oversee the registration process and provide you with further details.

Please note that this course is mandatory for all the students of 3rd-year and Final Year IT Department. Do not miss out on this fantastic opportunity to expand your skills and gain a competitive edge in the field of data analysis. We encourage you to register at the earliest to secure your participation.

For any further information or clarification, please feel free to contact the undersigned.

Thank you.

Sincerely,


Dr. Shankar Thawkar

HOD, IT

Head

Department of Information Technology
Hindustan College of Science & Technology
Farah, Mathura

Copy to:

1. Director office for kind information
2. All Deans
3. All HODs – for circulation among all concerned
4. Office Copy


Director

Hindustan College of
Science & Technology
FARAH (MATHURA)

VISION OF THE DEPARTMENT

Information Technology undergraduate program empowers students with research and training-based education to become global technical leaders and entrepreneurs, creating positive societal impact.

MISSION OF THE DEPARTMENT

- Foster innovation, research, and entrepreneurship through real-world projects and industry collaborations.
- Develop ethical global leaders with theoretical and practical education, critical thinking, and social responsibility.
- Provide outcome-based education for holistic development, integrating technical skills with leadership and teamwork.



SHARDA
GROUP

HINDUSTAN COLLEGE OF SCIENCE AND TECHNOLOGY MATHURA

INVITES YOU FOR A
VALUE ADDED COURSE
ON

**DATA ANALYSIS USING PYTHON
(VACIT-005)**

13th Feb 2023 - 15th May 2023

Registration Date: 08 Feb 2023 - 12 Feb 2023

For Registration, Please contact:

Mr. Ajay Raj Parashar

Assistant Professor, IT

St. Parashar
Head
Department of Information Technology
Hindustan College of Science & Technology
Farah, Mathura

DEPARTMENT OF INFORMATION TECHNOLOGY

www.hcst.edu.in

Director

Director
Hindustan College of
Science & Technology
FARAH (MATHURA)

ABOUT

THE DEPARTMENT

Department of Information Technology was established in the year 1999 with an objective of imparting quality education in the field of Information Technology. Department of IT was accredited by National board of Accreditation (NBA) in 2006.

The department is located in a sprawling environment with a highly qualified and experienced faculty. The department works with the objective of addressing critical challenges faced by the Industry, society and the academia. Perhaps even more important is our unceasing commitment to our students, helping them to learn, grow, develop, and achieve their goals in their pursuit to excel in their professional career.

The department also have a student association QuBIT that provides a platform to future engineers to learn new technological innovations and also provide industry exposure to the students, by organizing workshops, seminars & other events.

ABOUT

THE PROGRAM

The "Data Analysis using Python" program is designed to provide a comprehensive overview of data analysis techniques using the popular programming language Python. The course covers a range of topics from the basics of Python, numerical computing with Numpy, analyzing tabular data with Pandas, and introducing neural networks. The course will equip students with the skills to perform data analysis, extract insights, and make informed decisions. Through hands-on assignments, students will have the opportunity to apply their newly acquired skills to real-world data analysis problems. This course is suitable for anyone interested in learning data analysis, regardless of prior experience with programming or data analysis.

Objectives

1. To provide a solid understanding of the Python programming language and its applications in data analysis.
2. To introduce students to numerical computing with Numpy and its use in data analysis.
3. To teach students how to analyze tabular data using Pandas and its various functions.
4. To familiarize students with the basics of neural networks and their applications in data analysis.
5. To give students the opportunity to apply their knowledge and skills through hands-on assignments and a final project, allowing them to perform real-world data analysis and extract insights.

COURSE

OUTCOMES

CO-1:

Apply Python fundamentals with arithmetic, conditional logic, loops, functions, and handle exceptions.

CO-2:

Utilize NumPy for array operations, slicing, broadcasting, and CSV data handling.

CO-3:

Analyze and manipulate tabular data using Pandas for querying, filtering, grouping, and merging.

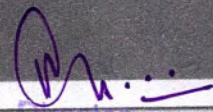
CO-4:

Understand, build, train, and evaluate basic neural networks with overfitting techniques.

Head
Department of Information Technology
Hindustan College of Science & Technology
Farah, Mathura

DEPARTMENT OF INFORMATION TECHNOLOGY

www.hcst.edu.in


Director

Hindustan College of
Science & Technology
FARAH (MATHURA)

CO-PO-PSO MAPPING

Data Analysis using Python (VACIT-005)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO-1	3	2	1	2	1	-	-	-	2	-	-	3	2	3	-
CO-2	2	3	2	2	2	-	-	-	2	2	-	2	3	3	-
CO-3	2	2	3	3	2	-	-	-	2	2	-	2	3	3	-
CO-4	1	2	3	3	3	-	1	2	3	3	2	2	3	3	-
Avg	2.00	2.25	2.25	2.50	2.00	0.00	1.00	2.00	2.25	2.33	2.00	2.25	2.75	3.00	0.00

PSO1:

Equip students with the latest IT knowledge and skills to tackle real-world challenges.

PSO2:

Foster leadership, critical thinking, problem-solving, and communication skills for IT careers.

PSO3:

Encourage entrepreneurship and innovation through research, start-up projects, industry collaborations, and business skills.

PO1	Engineering Knowledge
PO2	Problem Analysis
PO3	Design/development of solutions
PO4	Conduct investigations of complex Problems
PO5	Modern tool usage
PO6	The engineer and society
PO7	Environment and sustainability
PO8	Ethics
PO9	Individual and team work
PO10	Communication
PO11	Project management and finance
PO12	Life-long learning

Head
Department of Information Technology
Hindustan College of Science & Technology
Farah, Mathura

DEPARTMENT OF INFORMATION TECHNOLOGY

www.hcst.edu.in

Director

Hindustan College of
Science & Technology
FARAH (MATHURA)

CONVENOR



Dr. Shankar Thawkar
Associate Professor
HOD, IT



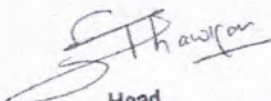
Mrs. Deepti Mittal
Assistant Professor
Dy. HOD, IT

CO-CONVENOR

VAC COORDINATOR

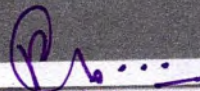


Mr. Ajay Raj Parashar
Assistant Professor
IT Department


Head
Department of Information Technology
Hindustan College of Science & Technology
Farah, Mathura

DEPARTMENT OF INFORMATION TECHNOLOGY

www.hcst.edu.in


Director
Hindustan College of
Science & Technology
FARAH (MATHURA)

SPEAKERS



Dr. Shankar Thawkar
Associate Professor
HOD, IT



Mr. Ajay Raj Parashar
Assistant Professor
IT Department

Head
Department of Information Technology
Hindustan College of Science & Technology
Farah, Mathura

DEPARTMENT OF INFORMATION TECHNOLOGY

www.hcst.edu.in

Director

Hindustan College of
Science & Technology
FARAH (MATHURA)

COURSE OUTLINE

Data Analysis using Python (VACIT-005)

Module 1: Introduction to Python

- First steps with Python & Jupyter notebooks
- Arithmetic, conditional & logical operators in Python
- Variables and common data types
- Branching with if, elif, and else
- Iteration with while and for loops
- Functions
- Scope of variables and exceptions

Module 2: Numerical Computing with Numpy

- Going from Python lists to Numpy arrays
- Working with multi-dimensional arrays
- Array operations
- Slicing and broadcasting
- Working with CSV data files

Module 3: Analyzing Tabular Data with Pandas

- Reading and writing CSV data with Pandas
- Querying, filtering and sorting data frames
- Grouping and aggregation for data summarization
- Merging and joining data from multiple sources

Module 4: Introduction to Neural Networks

- Understanding the basics of neural networks
- Building simple feedforward neural networks
- Training and evaluating neural networks
- Overfitting and regularization techniques

Textbook/References:

- "Python for Data Analysis" by Wes McKinney
- "Deep Learning" by Ian Goodfellow, Yoshua Bengio, and Aaron Courville

DEPARTMENT OF INFORMATION TECHNOLOGY

www.hcst.edu.in


Director

Hindustan College of
Science & Technology
FARAH (MATHURA)

LECTURE PLAN

Data Analysis using Python (VACIT-005)

Module 1: Introduction to Python

- Lecture 1: Course Introduction and Overview
- Lecture 2: Introduction to Python and Jupyter Notebooks
- Lecture 3: Arithmetic and Mathematical Operations in Python
- Lecture 4: Conditional and Logical Operators in Python
- Lecture 5: Variables and Common Data Types in Python
- Lecture 6: Branching with if, elif, and else Statements
- Lecture 7: Iteration with while and for Loops
- Lecture 8: Functions in Python
- Lecture 9: Scope of Variables in Python
- Lecture 10: Exceptions in Python

Module 2: Numerical Computing with Numpy

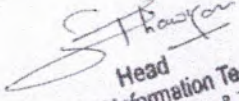
- Lecture 11: Introduction to Numpy and Arrays
- Lecture 12: Creating Numpy Arrays and Manipulating Array Shape
- Lecture 13: Indexing and Slicing Numpy Arrays
- Lecture 14: Boolean Indexing and Fancy Indexing
- Lecture 15: Array Operations and Broadcasting
- Lecture 16: Working with Multi-dimensional Arrays
- Lecture 17: Reading and Writing CSV Data Files
- Lecture 18: Data Analysis with Numpy

Module 3: Analyzing Tabular Data with Pandas

- Lecture 19: Introduction to Pandas and DataFrames
- Lecture 20: Reading and Writing CSV Data with Pandas
- Lecture 21: Indexing and Selecting Data in Pandas
- Lecture 22: Querying, Filtering, and Sorting DataFrames
- Lecture 23: Grouping and Aggregation for Data Summarization
- Lecture 24: Merging and Joining DataFrames
- Lecture 25: Data Analysis with Pandas

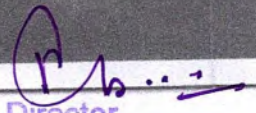
Module 4: Introduction to Neural Networks

- Lecture 26: Introduction to Neural Networks
- Lecture 27: Building Simple Feedforward Neural Networks
- Lecture 28: Training and Evaluating Neural Networks
- Lecture 29: Overfitting and Regularization Techniques
- Lecture 30: Applications of Neural Networks

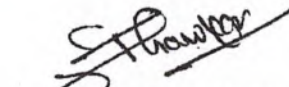

Head
Department of Information Technology
Hindustan College of Science & Technology
Farah, Mathura

DEPARTMENT OF INFORMATION TECHNOLOGY

www.hcst.edu.in

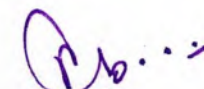

Director
Hindustan College of
Science & Technology
FARAH (MATHURA)

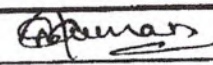
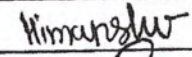
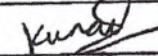

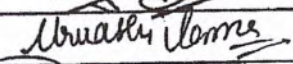
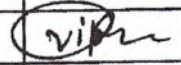
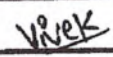
HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH - MATHURA					
Department of Information Technology					
Value Added Course - Registration Form					
VACIT- 005- Data Analytics using Python					
Session 2022- 2023			From 13th Feb'2023 - 15th May'2023		
S.N.	Roll No.	Name of the Student	Department	Semester	Signature of Student
1	2000640130001	ABHAY GOYAL	IT	6TH	Abhay Goyal
2	2000640130003	AMAN AHMED	IT	6TH	Aman
3	2000640130004	AYUSH MITTAL	IT	6TH	Ayush
4	2000640130005	PANKAJ SAKHRANI	IT	6TH	Pankaj
5	2000640130006	PIYUSHA VARSHNEY	IT	6TH	Piyusha
6	2000640130007	SANDEEP SINGH	IT	6TH	Sandeep
7	2000640130008	TUSHANT SHASTRI	IT	6TH	Tushant Shastri
8	2000640130009	UDIT UPDAHAY	IT	6TH	Udit
9	2000640130010	UMESH SINGH	IT	6TH	Umesh
10	2000640130011	VANSH UPADHYAY	IT	6TH	Vansh Upadhyay

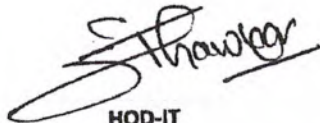

HOD-IT Head

Department of Information Technology
Hindustan College of Science & Technology
Farah, Mathura


Program Coordinator


Director
Hindustan College of
Science & Technology
FARAH (MATHURA)

HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH - MATHURA					
Department of Information Technology					
Value Added Course - Registration Form					
VACIT- 005- Data Analytics using Python					
Session: 2022-2023			From 13th Feb'2023 - 10 May'2023		
S.N.	Roll No.	Name of the Student	Department	Semester	Signature of Student
1	190064013001	AMAN KRUMAR SONI	IT	8TH	
2	190064013002	HIMANSHU MOOLCHANDANI	IT	8TH	
3	190064013004	KUNAL	IT	8TH	
4	190064013005	SEJAL JAIN	IT	8TH	
5	190064013006	URVASHI VERMA	IT	8TH	
6	190064013007	VIPLAV KANT RAI	IT	8TH	
7	190064013008	VIVEK SHARMA	IT	8TH	


HOD-IT

Head
Department of Information Technology
Hindustan College of Science & Technology
Farah Mathura


Program Coordinator


Director
Hindustan College of
Science & Technology
FARAH (MATHURA)

HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH - MATHURA

Department of Information Technology

VACIT- 005- Data Analytics using Python

Session: 2022-2023

Session Wise Attendance Sheet

S.N.	Roll No.	Name of the Student	Attendance														
			17/2	24/2	3/3	10/3	17/3	7/4	14/4	21/4	5/5	6/5	6/5	12/5	13/5	13/5	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2000640130001	ABHAY GOYAL	Abhay	Abhay	Abhay	(-)	Abhay	Abhay	Abhay	Abhay	Abhay	Abhay	Abhay	Abhay	(A)	Abhay	Abhay
2	2000640130003	AMAN AHMED	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman	(A)	Aman	Aman	Aman	Aman
3	2000640130004	AYUSH MITTAL	Ayush	Ayush	Ayush	Ayush	(A)	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush
4	2000640130005	PANKAJ SAKHRANI	(A)	Pankaj	Pankaj	Pankaj	Pankaj	Pankaj	Pankaj	Pankaj	Pankaj	Pankaj	Pankaj	Pankaj	Pankaj	Pankaj	(A)
5	2000640130006	PIYUSA VARSHNEY	Piyusha	Piyusha	(A)	Piyusha	Piyusha	Piyusha	Piyusha	Piyusha	Piyusha	Piyusha	Piyusha	Piyusha	Piyusha	Piyusha	Piyusha
6	2000640130007	SANDEEP SINGH	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
7	2000640130008	TUSHANT SHASTRI	शुभ-2 21/2/23	(A)	शुभ-2 21/2/23	शुभ-2 21/2/23	शुभ-2 21/2/23	शुभ-2 21/2/23	शुभ-2 21/2/23	शुभ-2 21/2/23	शुभ-2 21/2/23	A	शुभ-2 21/2/23	शुभ-2 21/2/23	शुभ-2 21/2/23	शुभ-2 21/2/23	शुभ-2 21/2/23
8	2000640130009	UDIT UPDAHAY	(A)	Udit	Udit	Udit	Udit	Udit	Udit	Udit	(A)	Udit	Udit	Udit	Udit	Udit	Udit
9	2000640130010	UMESH SINGH	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
10	2000640130011	VANSH UPADHYAY	fnsh	fnsh	fnsh	(A)	fnsh	fnsh	fnsh	fnsh	fnsh	fnsh	fnsh	fnsh	(A)	fnsh	fnsh
Total Attendance			06	07	07	06	07	08	08	07	08	07	07	08	06	08	07
Attendance %																	

Total Lectures : 02 x 15 = (30)

[Signature]
 Department of Information Technology
 MOD-IT Hindustan College of Science & Technology
 Farah, Mathura

[Signature]
 Program Coordinator

[Signature]
 Director
 Hindustan College of
 Science & Technology
 FARAH (MATHURA)

HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH - MATHURA
Department of Information Technology
VACIT- 005- Data Analytics using Python
Session: 2022-2023
Session Wise Attendance Sheet

S.N.	Roll No.	Name of the Student	Attendance														
			17/2	24/2	3/3	10/3	17/3	07/4	14/4	21/4	5/5	6/5	6/5	6/5	12/5	13/5	13/5
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	190064013001	AMAN KRUMAR SONI	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
2	190064013002	HIMANSHU MOOLCHANDANI	Himanshu	Himanshu	A	Himanshu	Himanshu	Himanshu	Himanshu	A	Himanshu	Himanshu	Himanshu	Himanshu	Himanshu	A	
3	190064013004	KUNAL	Kunal	Kunal	Kunal	A	Kunal	Kunal	A	Kunal	A	Kunal	Kunal	Kunal	Kunal	Kunal	
4	190064013005	SEJAL JAIN	Sejal	Sejal	Sejal	Sejal	A	Sejal	Sejal	Sejal	Sejal	Sejal	Sejal	Sejal	Sejal	Sejal	
5	190064013006	URVASHI VERMA	Urvashi Verma	Urvashi Verma	Urvashi Verma	Urvashi Verma	Urvashi Verma	Urvashi Verma	A	Urvashi Verma	Urvashi Verma	Urvashi Verma	Urvashi Verma	Urvashi Verma	Urvashi Verma	A	
6	190064013007	VIPLAV KANT RAI	Viplav	A	Viplav	Viplav	Viplav	A	Viplav	Viplav	Viplav	Viplav	Viplav	Viplav	Viplav	Viplav	
7	190064013008	VIVEK SHARMA	Vivek	Vivek	A	Vivek	Vivek	Vivek	Vivek	Vivek	A	Vivek	Vivek	Vivek	Vivek	Vivek	
Total Attendance			07	06	05	06	05	06	05	06	05	06	07	07	06	05	
Attendance %																	

Total Lectures : 02 x 15 = 30

[Signature]
HOD-IT
Department of Information Technology
Hindustan College of Science & Technology
Farah, Mathura

[Signature]
Program Coordinator

[Signature]
Director
Hindustan College of
Science & Technology
FARAH (MATHURA)

HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH, MATHURA
DEPARTMENT OF INFORMATION TECHNOLOGY
CLASS TIME TABLE FOR EVEN SEMESTER 2022-23

SESSION: 2022-23
 YEAR/SEM: III/ 6 IT-A

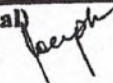
W.E.F. 24/03/23
 ROOM NO: 221-B

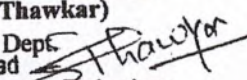
CLASS TEACHER: MR. AJAY PARASHAR
 COUNSELORS: MR. AJAY PARASHAR

Day \ Time	I	II	III	IV	1:21-01:50	V	VI	VII	VIII
	10:00-10:50	10:51-11:40	11:41-12:30	12:31-01:20		01:51-02:40	02:41-03:30	03:31-04:20	04:21-05:00
MONDAY	DA	CN	DC	ITC		PDP		DC(T)	SE(T)
TUESDAY	DC	PDP		CN		DA	SE	IBM	COUNSELLING
WEDNESDAY	ITC	DA	CN(T)	SE		DC	IBM	DA LAB #LAB06	
THURSDAY	ITC	CN	DC	IBM		DA(T)	SE	CN LAB #LAB04	
FRIDAY	CN	DA	SE LAB #LAB05			SE	VALUE ADDED COURSE (VACIT005) DATA ANAYSIS USING PYTHON		
SATURDAY									

		Class Room No		Name of the Faculty	
Subject Code	Name of the Subject	Lecture	Tutorial (A)		
KCS601	SOFTWARE ENGINEERING (SE)	221-B		DR. SANJEEV KR OJHA	
KIT601	DATA ANALYTICS (DA)			MR. AJAY PARASHAR	
KCS603	COMPUTER NETWORKS (CN)			DR. SHANKAR THAWKAR	
KCS064	DATA COMPRESSION (DC)			MRS. DEEPTI MITTAL	
KNC602	INDIAN TRADITIONAL CULTURE & SOCIETY (ITC)			DR. ARCHANA GAUTAM	
KOE060	IDEA TO BUSINESS MODEL (IBM)			MR. ATUL BARSAIYAN	

		Practical Room No.		Name of the Faculty	
Lab Code	Name of the Lab	Lab No (A)			
KCS651	SOFTWARE ENGINEERING LAB	Lab#5		MRS. DEEPTI MITTAL	
KIT651	DATA ANALYTICS LAB	Lab#6		MR. AJAY PARASHAR	
KCS653	COMPUTER NETWORKS LAB	Lab#4		DR. SHANKAR THAWKAR	
VACIT005	VAC: DATA ANALYSIS USING PYTHON	LAB#6		DR. SHANKAR THAWKAR / MR. AJAY PARASHAR	

(Mrs. Deepti Mittal)
 TT/ IC, IT Dept.


(Dr. Shankar Thawkar)
 HOD, IT Dept.
 Head

 Department of Information Technology
 Hindustan College of Science & Technology
 Farah, Mathura


 Director
 Hindustan College of
 Science & Technology
 FARAH (MATHURA)

HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH, MATHURA
DEPARTMENT OF INFORMATION TECHNOLOGY
CLASS TIME TABLE FOR EVEN SEMESTER 2022-23

SESSION: 2022-23
 YEAR/SEM: IV/ 8 IT-A

W.E.F. 24/03/23
 ROOM NO: 223

CLASS TEACHER: DR. SANJEEV KR OJHA
 COUNSELORS: DR. SANJEEV KR OJHA

Day \ Time	I	II	III	IV	1:21-01:50	V	VI	VII	VIII	
	10:00-10:50	10:51-11:40	11:41-12:30	12:31-01:20		01:51-02:40	02:41-03:30	03:31-04:20	04:21-05:00	
MONDAY	CC	DSM	PME	PROJECT (M&D)		PROJECT LAB				
TUESDAY	PME	DSM	PROJECT LECTURE	CC		PROJECT LAB				
WEDNESDAY	DSM	CC	PME	PROJECT (M&D)		PROJECT LAB				
THURSDAY	PME	PROJECT LECTURE	CC	DSM		PROJECT LAB —				
FRIDAY	PROJECT PRESENTATION/ LAB					PROJECT (M&D)	VALUE ADDED COURSE (VACIT005) DATA ANAYSIS USING PYTHON			
SATURDAY										

		Class Room No		
Subject Code	Name of the Subject	Lecture	Tutorial	Name of the Faculty
KOE081	CLOUD COMPUTING (CC)	223		MR. VIBHOO SHARMA
KOE094	DIGITAL & SOCIAL MEDIA MARKETING (DSM)			DR. SANJEEV OJHA
KHU802	PROJECT MGMT & ENTREPRENEURSHIP (PME)			MR. VIBHOO SHARMA

		Practical Room No.	
Lab Code	Name of the Lab	Lab No (A)	Name of the Faculty
KIT851	PROJECT LECTURE	LAB#05	MRS. DEEPTI MITTAL
	PROJECT MONITORING & DISCUSSION (M &D)		IT DEPARTMENT FACULTY
VACIT005	VAC: DATA ANALYSIS USING PYTHON		DR. SHANKAR THAWKAR / MR.AJAY PARASHAR

(Mrs. Deepti Mittal)
 TT/ IC, IT Dept.

(Dr.Shankar Thawkar)
 HOD, IT Dept
 Head
 Department of information Technology
 Hindustan College of Science & Technology
 Farah, Mathura


 Director
 Hindustan College of
 Science & Technology
 FARAH (MATHURA)



HINDUSTAN
College of Science and Technology
Farah, Mathura

CERTIFICATE OF COMPLETION

Department of Information Technology

Academic Session 2022-23

This is to certify that Mr. Abhay Goyal, Roll No. 2000640130001
of Course B. Tech. Information Technology, VI Semester
has successfully completed 30 hours Value Added Course titled
“Data Analysis using Python” (VACIT-005)

Dr. Shankar Thawkar
Head of Department

Mr. Ajay Raj Parashar
Course Coordinator

Dr. R. K. Upadhyay
Director
Hindustan College of
Science & Technology
FARAH (MATHURA)



HINDUSTAN
College of Science and Technology
Farah, Mathura

CERTIFICATE OF COMPLETION
Department of Information Technology
Academic Session 2022-23

This is to certify that Mr. Pankaj Sakhrani, Roll No. 2000640130005
of Course B. Tech. Information Technology, VI Semester
has successfully completed 30 hours Value Added Course titled
“Data Analysis using Python” (VACIT-005)

Dr. Shankar Thawkar
Head of Department

Mr. Ajay Raj Parashar
Course Coordinator

Dr. R. K. Upadhyay
Director

Hindustan College of
Science & Technology
FARAH (MATHURA)



HINDUSTAN
College of Science and Technology
Farah, Mathura

CERTIFICATE OF COMPLETION
Department of Information Technology
Academic Session 2022-23

This is to certify that Mr. Aman Kumar Soni, Roll No. 190064013001
of Course B. Tech. Information Technology, VIII Semester
has successfully completed 30 hours Value Added Course titled
“Data Analysis using Python” (VACIT-005)

Dr. Shankar Thawkar
Head of Department

Mr. Ajay Raj Parashar
Course Coordinator

Dr. R. K. Upadhyay
Director
Hindustan College of
Science & Technology
FARAH (MATHURA)



HINDUSTAN
College of Science and Technology
Farah, Mathura

CERTIFICATE OF COMPLETION
Department of Information Technology
Academic Session 2022-23

This is to certify that Mr. Viplav Kant Rai, Roll No. 190064013007
of Course B. Tech. Information Technology, VIII Semester
has successfully completed 30 hours Value Added Course titled
“Data Analysis using Python” (VACIT-005)

Dr. Shankar Thawkar
Head of Department

Mr. Ajay Raj Parashar
Course Coordinator

Dr. R. K. Upadhyay
Director

Director
Hindustan College of
Science & Technology
FARAH (MATHURA)