



CIRCULAR



DEPARTMENT SCHOOL OF PHARMACY CIRCULAR

No: AJU/SOHAS/141/26

Date 30.04.2026

It is hereby notified to all the faculties of School of Pharmacy that the department in association with its Syllabus Revision Committee will conduct a Short-Term Training Program (STTP) from 20th May 2026 to 26th May 2026 on Basics of Python Programming for Pharmaceutical Sciences (Theory) as per the revised B. Pharm syllabus to be implemented from 2026. The timing will be from 9:30am – 4:30 pm. For information Pharmacy Council of India (Ref No: 14-154/2025-PCI) has Implemented New B Pharma Syllabus from academic sessions 2026-2027 aligning with NEP 2020. As per instruction awareness programs need to be conducted by the institutions. This STTP will be a part of awareness programme towards the implementation of the revised syllabus for B. Pharm program to be implemented from 2026. Venue will be Block B (Room Number 211). All faculties must have to participate this program. Failing to attend this will be considered as absent in the department. Interested staff members from other department can also participate the STTP.


Dean
School of Pharmacy
ARKA JAIN University, Jharkhand

Dean
School of Pharmacy

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Vice Chancellor
IQAC
Office of the Registrar
Syllabus Revised committee
Academic Coordinator
In charge website
Office Record

Course Content

Unit No.	Topics	Date
I	Introduction to Python programming - Installing Python and an Integrated Development Environment (IDE) [Jupyter Notebook, PyCharm, VS Code etc.], Advantages of IDEs over text editors. - Python variables and data types (integers, floats, strings, booleans), Type casting and basic operators (arithmetic, comparison, logical), Input and output operations. - Basic string operations and manipulation techniques. Introduction to standard libraries and third-party libraries, installing and uninstalling libraries.	20 th May 2026
II	Control Structures & Functions - Conditional statements (if, if-else, if-elif-else), nested conditions - Loops (for loop, while loop). - Break and continue statements. - Defining and calling functions, passing arguments and returning values. - Writing modular programs for simple pharmaceutical applications- dosage calculation and BMI calculation.	21 st May 2026
III	Data Structures & File Handling - Lists, tuples, and dictionaries. - Indexing and slicing lists, basic operations on lists and dictionaries, string manipulation techniques. - Introduction to NumPy arrays, basic operations using NumPy (array creation, arithmetic operations). - Reading and writing CSV files. - Understanding structured healthcare datasets. Importing small pharmaceutical datasets and performing basic data access and manipulation tasks.	22 nd May 2026
	Data Handling with Pandas - Introduction to Pandas library. - Pandas Series and DataFrame structures. - Reading CSV and Excel files-PK study datasets and ADR reports	25 th May 2026

IV	- Inspecting datasets using functions such as head(), tail(), info(), and describe(). - Data cleaning techniques and handling missing values. - Filtering and selecting data based on conditions. Grouping data and performing aggregation functions.	
V	Data Visualization with Matplotlib - Introduction to Matplotlib. - Creating line plots, histograms, scatter plots, and box plots. - Labeling axes, titles, and legends. - Create plots and visualize pharmaceutical datasets - concentration-time curves for oral and IV administration, ADR reporting rates across drugs, dissolution profiles. Scientific interpretation of plots.	26 th May 2026

Registered Candidates



DEPARTMENT SCHOOL OF PHARMACY

NOTICE

No: AJU/SOHAS/170(i)/26

Date 16.05.2026

It is hereby notified that the following are the participants who have registered for a **30 hours STTP on Basics of Python Programming for Pharmaceutical Sciences as per the revised syllabus of B. Pharm to be implemented from 2026 to be conducted from 20th May to 26th May 2026.**

Sl.no.	Participants	UID
1	Sumanta Sen	1186
2	Dr.Alok Kumar Moharana	1185
3	Dr.Shweta	1114
4	Vikash Dash	1668
5	Priyabati Choudhury	1119
6	Snigdha Rani Behera	1312
7	Ankita Moharana	1218
8	Tunul Guria	1340
9	Ragini Bose	1518
10	Mansi Singh	1523
11	Sarthak Singh	1676
12	Abhishek Ghosh	1740
13	Souradeep Dev	1782
14	Biswajit Puan	1787
15	Subbha Pramanik	1796
16	Shubham Ghosh	1832
17	Shouvik Chakraborty	1831
18	Badal Kumar Pattnayak	1865
19	Sandeep Malick	1862
20	Arpita Dash	1860
21	Satyajit Das	1905
22	Samiran Paul	1915
23	Santanu Manna	1927
24	Md Abdul Qudir Khan	1869
25	Apala Ghose	1868
26	Asutosha Parida	1124
27	Rashmi Ranjan Das	1165

28	Dusmanta Kumar Mahanta	1240
29	Pravasranjan Dash	1395
30	Jnanadeep Mahanata	1321
31	Srishti Shreya	1904
32	Kailashnath Das	1783
33	Abhijeet Singh	
34	Hiranya Mahanta	1610
35	Dr. Jyotirmaya Sahoo	1100


 Dean
 School of Pharmacy
 ARKA JAIN University Jharkhand

Dean
School of Pharmacy

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Vice Chancellor
 Pro-Vice Chancellor
 IQAC
 Office of the Registrar
 Class Coordinators
 Deans/HODs
 Academic Coordinator
 ERP Coordinator
 In-charge Website
 Office file
 Student WhatsApp group

30 HOURS SHORT_TERM TRAINING PROGRAM (STTP) ON BASICS OF PYTHON PROGRAMMING FOR PHARMACEUTICAL SCIENCES

Date of Event	20TH MAY 2026 TO 26TH MAY 2026
Name of the Event	30 Hours Short_Term Training Program (STTP) On Basics of Python Programming for Pharmaceutical Sciences
Type of the Event	Short Term Training Program
Conducted by	School of Pharmacy in Association with Syllabus Revision Committee
No. Of Participant	35

OBJECTIVE:

The program was organized with the objective of enhancing the knowledge and technical competencies of faculty members in the field of python programming and its application in pharmaceutical sciences. The session aimed to provide participants with a comprehensive understanding of fundamental programming concepts and to develop practical skills in using control structures, functions, and data structures for problem- solving and computational task. It also focused on equipping faculty members with knowledge of data handling techniques for the efficient management of structured datasets relevant to healthcare and pharmaceutical research. Furthermore, the program introduced participants to advanced data analysis tools such as NumPy and Pandas, enabling them to analyse and interpret healthcare datasets effectively. Special emphasis was placed on data visualization techniques to facilitate the meaningful presentation and interpretation of pharmaceutical data, thereby supporting research activities, academic innovation, and the integration of data-driven approaches into teaching and learning practices.

DETAILS: The integration of computational tools and data-driven approaches has become increasingly important in pharmaceutical education, research, and healthcare analytics. With the rapid growth of digital technologies, pharmaceutical professionals are expected to possess fundamental programming and data analysis skills to effectively handle large datasets, perform statistical analyses, and support evidence-based decision-making. Python has emerged as one of the most widely used programming languages in scientific computing due to its simplicity, versatility, and extensive applications in data analysis, machine learning, bioinformatics, pharmaceutical research, and healthcare informatics. Recognizing the growing importance of computational skills in pharmacy education and in accordance with the revised Bachelor of Pharmacy curriculum introduced by the Pharmacy Council of India (PCI) for implementation from the academic year 2026, it has become essential for pharmacy faculty members to familiarize themselves with the concepts and applications of Python programming.

To address this emerging academic requirement, the School of Pharmacy, in association with the Syllabus Revision Committee, organized a 30-Hour Short-Term Training

Program (STTP) on “Basics of Python Programming for Pharmaceutical Sciences” from 20th May 2026 to 26th May 2026. The program was designed specifically for faculty members to enhance their understanding of Python programming and its applications in pharmaceutical sciences, thereby enabling them to effectively implement the revised curriculum and integrate computational approaches into teaching, learning, and research activities.

The training program was conducted under the guidance of Professor (Dr.) Arvind Kumar Pandey, Dean, School of Engineering & IT and Director, IQAC, ARKA JAIN University, and Mr. Akash Bhagat, Assistant Professor, Department of Computer Science & Information Technology, ARKA JAIN University, who served as the resource persons for the program. The course content, developed by the Pharmacy Council of India, provided participants with comprehensive exposure to the fundamentals of Python programming, including variables, data types, operators, control structures, functions, data structures, file handling techniques, and structured data management. The participants were also introduced to modern data analysis tools such as NumPy and Pandas for handling healthcare and pharmaceutical datasets, along with data visualization techniques for interpreting and presenting pharmaceutical information effectively.

The STTP was conducted over a period of five days, comprising 30 contact hours with a blend of theoretical explanations, hands-on practical sessions, demonstrations, and interactive discussions. Faculty members from the School of Pharmacy, along with interested staff members from other departments of the University, actively participated in the program. Through practical exercises and real-world examples, participants gained valuable insights into the application of programming and data analytics in pharmaceutical education and research. At the conclusion of the training program, participants were assessed on the concepts covered during the sessions and were awarded Certificates of Participation in recognition of their successful completion of the course.

OUTCOMES: On completion of the course students able to learn

- Explain the fundamentals of Python programming, including variables, data types, operators, and libraries
- Analyse program logic using control structures and functions
- Organize, manipulate, and retrieve data using data structures and file handling Techniques
- Analyse pharmaceutical datasets using Python libraries
- Visualize and interpret pharmaceutical data using graphical tools



ARKA JAIN
University
Jharkhand



POSTER OF THE EVENT



JGI | **ARKA JAIN University** | **NAAC GRADE A**
Jharkhand | ACCREDITED UNIVERSITY

SCHOOL OF PHARMACY
In association With
SYLLABUS REVISION COMMITTEE
Conducts
30 Hours
Short_Term Training Program (STTP)
On
**BASICS OF PYTHON PROGRAMMING
FOR PHARMACEUTICAL SCIENCES**
20TH MAY 2026 TO 26 TH MAY 2026
As per the revised B. Pharm Syllabus by Pharmacy Council of India
to be implemented from 2026

INSTRUCTORS
Professor (Dr.) Arvind Kumar Pandey
Dean, School of Engineering & IT,
Director, IQAC, ARKA JAIN University Jharkhand
Mr. Akash Bhagat
Asst Prof, Dept of CS & IT
ARKA JAIN University, Jharkhand

Venue: SUSHRUTA

Contact Point: dr.jyotirmaya@arkajainuniversity.ac.in ☎ 9861433157

BROCHURE

School of Pharmacy
In Association with Syllabus Revision Committee
Conducts
30 Hours Short_Term Training Program (STTP)
On
**BASICS OF PYTHON PROGRAMMING
FOR PHARMACEUTICAL SCIENCES**
20TH MAY 2026 TO 26TH MAY 2026
As per the revised B. Pharm Syllabus by Pharmacy Council of India
to be implemented from 2026

RESOURCE PERSON

- **Professor (Dr.) Arvind Kumar Pandey**,
Dean, School of Engineering & IT,
Director, IQAC,
ARKA JAIN University Jharkhand
- **Mr. Akash Bhagat**
Asst Prof, Dept of CS & IT,
ARKA JAIN University Jharkhand

COMMENCEMENT DATE
20th May 2026

COURSE DEVELOPER
Pharmacy Council of India

COURSE DURATION
5 days (6 hours daily) = 30 hours
Time: 9:30 am–4:00 pm

WHO CAN ENROLL?
All the faculties of School of Pharmacy, ARKA JAIN University
and interested staff members from other departments
of the University

PROCESS OF ENROLMENT AND CERTIFICATION

- Interested candidates can enrol for the STTP with Ms Nahid Akhtar,
Deans Office, School of Pharmacy
- **Registration Charges:** Not applicable
- **Last date of Registration:** 15th May 2026
- The participants will awarded with Certificate of Participation.

ABOUT THE PROGRAM:

The objectives of this course are to:

- Introduce the fundamentals of Python programming for pharmaceutical sciences.
- Develop basic programming skills using control structures, functions, and data structures.
- Provide knowledge of data handling techniques for structured dataset management.
- Familiarize students with data analysis tools such as NumPy and Pandas for healthcare datasets.
- Enable students to visualize and interpret pharmaceutical data.

COURSE OUTCOME:

By the end of the course, participants may be able to know:

- ✓ Explain the fundamentals of Python programming, including variables, data types, operators, and libraries
- ✓ Analyze program logic using control structures and functions
- ✓ Organize, manipulate, and retrieve data using data structures and file handling techniques
- ✓ Analyze pharmaceutical datasets using Python libraries
- ✓ Visualize and interpret pharmaceutical data using graphical tools

For Enrolment Contact
Ms Nahid Akhtar, Deans Office, School of Pharmacy

IMPORTANT DATES:
Last date of Registration: 15th May 2026
Commencement Date: 20th May 2026

COURSE CONTENT		
Unit No.	Topics	Date
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PHOTOS OF THE EVENT



Fig. 1- Course Instructor presenting the session



Fig. 2- Faculty members participating in an interactive Python training session.

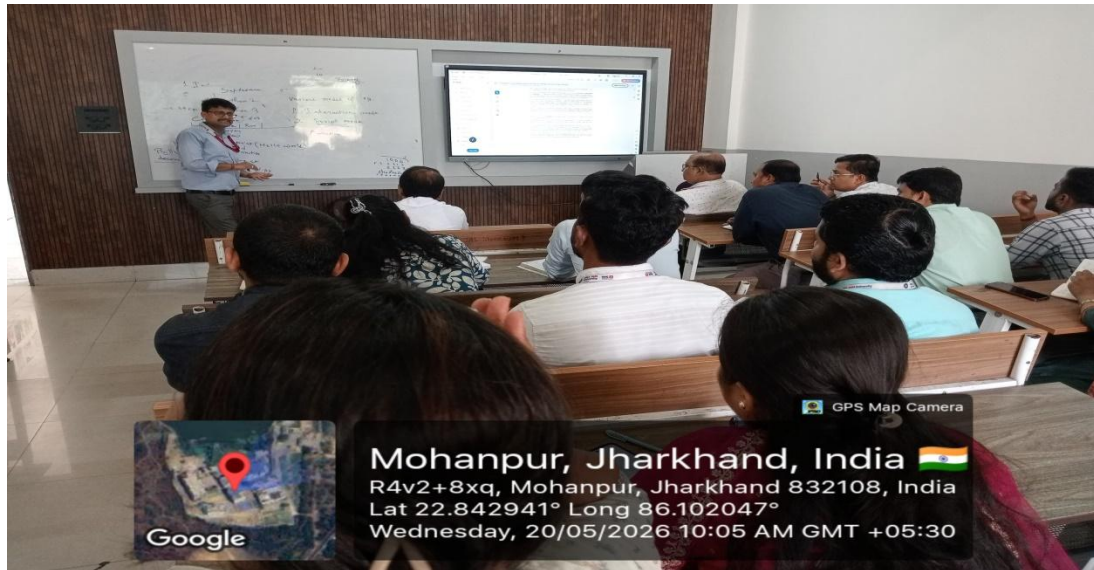


Fig. 3- Course Instructor Mr. Akash Bhagat explaining the session



Fig. 4- Course Instructor Interacting with the faculties.

NAAC
GRADE **A**
ACCREDITED UNIVERSITY

Event Registration & Attendance Form

Date of the Event: 20th May to 26th May 26

*E-Excellent, V-Very good, G-good, A-Average, P-Poor

School of Pharmacy
ARKA JAIN University Jharkhand

Signature of the Event Coordinator

Event Registration cum

Date of the Event: 20th May to 26th May 26

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ARKA JAIN University Jharkhand

Signature of the Event Coordinator



SCHOOL OF PHARMACY
Event Registration cum
Attendance Form

Name of the Event: Short-Term Training Program (STTP) on Basics of Python Programming for Pharmaceutical Sciences

Date of the Event: 20th May to 26th May 26

Sl. No.	Name of the Candidate	Enrolment No	Signature of the Candidate	How would you like this session/event						The speaker explained the topic clearly			Would you like to attend this type of event/session in future			Attendance				
				E	V	G	A	P		Y	N		Y	N		D1	D2	D3	D4	D5
11	Sandeep K Mallick	1862	<i>[Signature]</i>	✓						✓			✓							
12	Sarvesh Paul	1915	<i>[Signature]</i>	✓						✓			✓							
13	Satyajit Das	1905	<i>[Signature]</i>	✓						✓			✓							
14	Md. Guadim	1869	<i>[Signature]</i>	✓						✓			✓							
15	Imanadeep	1321	<i>[Signature]</i>	✓						✓			✓							
16	Rashmi	1165	<i>[Signature]</i>	✓						✓			✓							
17	Pravas Dash	1395	<i>[Signature]</i>	✓						✓			✓							
18	Kailash Nath	1783	<i>[Signature]</i>	✓						✓			✓							
19	Sushli Shree	1904	<i>[Signature]</i>	✓						✓			✓							
20	Ipshita Saha	1100	<i>[Signature]</i>	✓						✓			✓							

*E-Excellent, V-Very good, G-good, A-Average, P-Poor

[Signature]
Signature of the Head
School of Pharmacy
ARKA JAIN University Jharkhand

[Signature]
Signature of the Event Coordinator



SCHOOL OF PHARMACY
Event Registration cum
Attendance Form

Name of the Event: Short-Term Training (STTP) on Basics of Python Programming for Pharmaceutical Sciences

Date of the Event: 20th May to 26th May 26

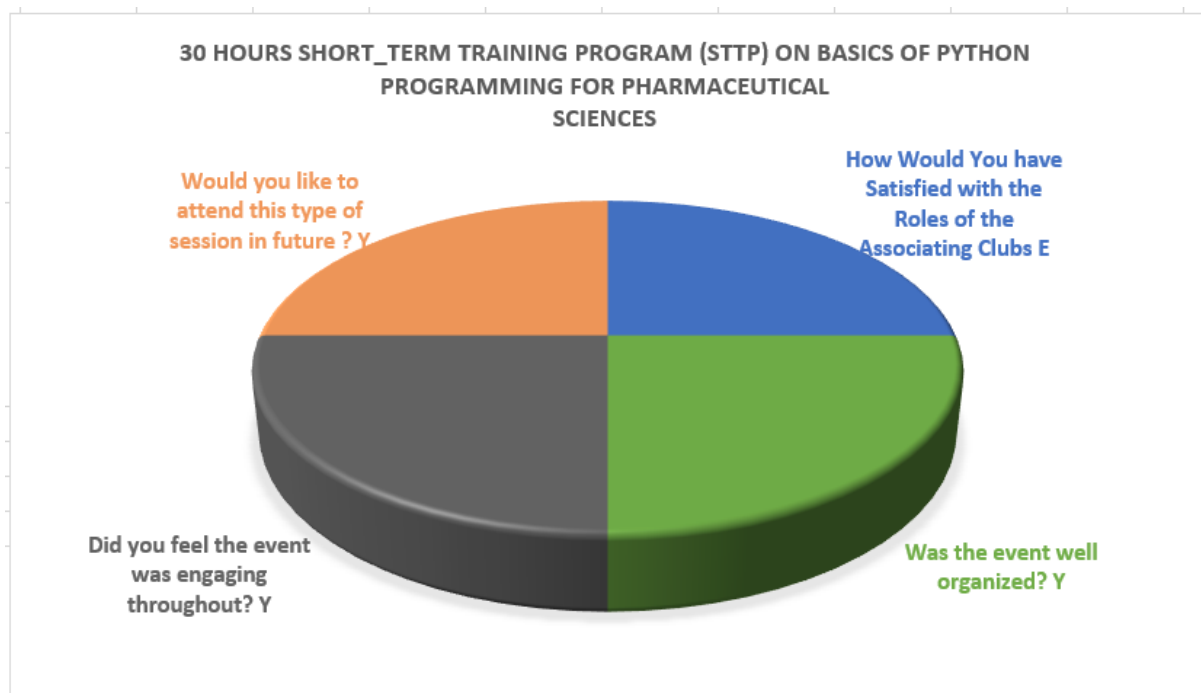
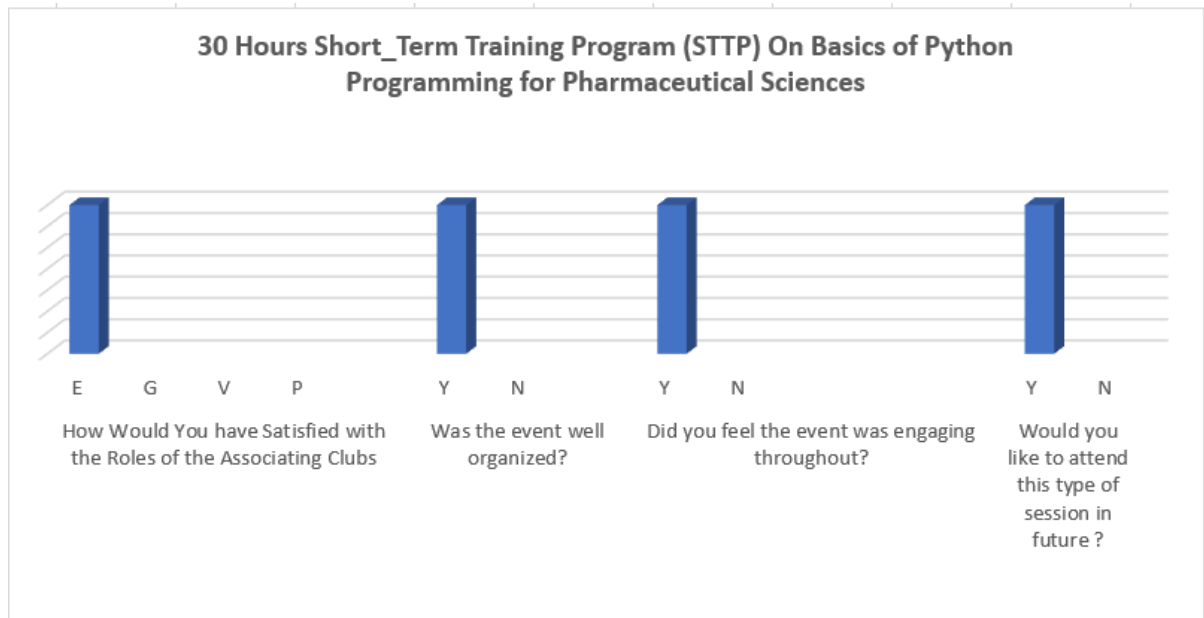
Sl. No.	Name of the Candidate	Enrolment No	Signature of the Candidate	How would you like this session/event						The speaker explained the topic clearly			Would you like to attend this type of event/session in future			Attendance				
				E	V	G	A	P		Y	N		Y	N		D1	D2	D3	D4	D5
31	Apala Ghosh	1868	<i>[Signature]</i>	✓						✓			✓							
32	Dusmanto Mahanta	1240	<i>[Signature]</i>	✓						✓			✓							
33	Abhijit Singh		<i>[Signature]</i>	✓						✓			✓							
34	Hiranya Mahanta	1610	<i>[Signature]</i>	✓						✓			✓							
35	Pranab Mondal	1121	<i>[Signature]</i>	✓						✓			✓							
36																				
37																				
38																				
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40																				

*E-Excellent, V-Very good, G-good, A-Average, P-Poor

[Signature]
Signature of the Head
School of Pharmacy
ARKA JAIN University Jharkhand

[Signature]
Signature of the Event Coordinator

FEEDBACK ANALYSIS





SAMPLE SCANNED CERTIFICATES





CERTIFICATE OF PARTICIPATION

This Is to Certify that

Mr. Md Abdul Qudir Khan

Assistant Professor

has successfully participated in the Short-Term Training Program (STTP) on "Basics of Python Programming for Pharmaceutical Sciences" organized by the School of Pharmacy in association with its Syllabus Revision Committee from 20th May 2026 to 26th May 2026.

VICE-CHANCELLOR
ARKA JAIN University

DEAN
School Of Pharmacy
ARKA JAIN University



CERTIFICATE OF PARTICIPATION

This Is to Certify that

Mr. Jnanadeep Mahanata

Laboratory Technician

has successfully participated in the Short-Term Training Program (STTP) on "Basics of Python Programming for Pharmaceutical Sciences" organized by the School of Pharmacy in association with its Syllabus Revision Committee from 20th May 2026 to 26th May 2026.

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CERTIFICATE OF PARTICIPATION

This Is to Certify that

Ms. Srishti Shreya

Laboratory Technician

has successfully participated in the Short-Term Training Program (STTP) on "Basics of Python Programming for Pharmaceutical Sciences" organized by the School of Pharmacy in association with its Syllabus Revision Committee from 20th May 2026 to 26th May 2026.

VICE-CHANCELLOR
ARKA JAIN University

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School Of Pharmacy
ARKA JAIN University



CERTIFICATE OF PARTICIPATION

This Is to Certify that

Mr. Rashmi Ranjan Das

Laboratory Technician

has successfully participated in the Short-Term Training Program (STTP) on "Basics of Python Programming for Pharmaceutical Sciences" organized by the School of Pharmacy in association with its Syllabus Revision Committee from 20th May 2026 to 26th May 2026.

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