



**Madhav Institute of Technology & Science, Gwalior (M.P.), INDIA,  
Deemed University  
(Declared under Distinct Category by Ministry of Education,  
Government of India)  
NAAC ACCREDITED WITH A++ GRADE**

**Date: 27 February 2026**

## **ACTIVITY REPORT**

<b>Title of Workshop:</b>	Short-Term Training Program on “ <b>Python Programming Essentials: From Basics to Beyond</b> ”
<b>Duration of activity:</b>	9 February 2026 to 27 February 2026
<b>Number of participants:</b>	CSE (9), CSD (10) <b>Total: 19</b>
<b>Brief Description of the activity:</b>	<p>The Department of Computer Science and Engineering managed to conduct a Short-Term Training Program on Python Programming Essentials: Basics to Beyond successfully between 9 February 2026 and 27 February 2026 in online mode. The main focus of this training programme was to improve the knowledge of the students on programming and to give practical experience on Python programming, which is popular in the field of Artificial Intelligence, Machine Learning, Data Science, and Software Development.</p> <p>The training programme lasted 22 hours in form of daily 1.5 hours long sessions. The sessions were meant to offer a full picture of the Python programming concepts beginning with the simple syntax, to the advanced concepts like Object-Oriented Programming, and data analysis libraries, among others.</p> <p>In the first stage, the students were presented with the basics of Python, such as variables and data types, conditional statements, and loops. Practical coding sessions were given to reinforce logical thinking and coding.</p> <p>During the middle stage, the students were introduced to Python data data structures like lists, tuples, sets, and dictionaries. They were also introduced to functions, modular programming, file handling and error handling procedures. These learning areas enabled students to know how to come up with effective and organised programmes.</p> <p>During the advanced stage, the students were exposed to concepts of Object-Oriented Programming which include classes, objects, inheritance and polymorphism. Moreover, the students were introduced to such significant Python libraries as NumPy and Pandas which are popular in data analysis and scientific computation.</p> <p>The program focused more on practical learning based on the coding exercises, mini-projects, and interactive sessions. Students were engaged in the training and practised coding and cleared their doubts throughout the sessions.</p> <p>The training programme in general equipped the students with the necessary skills in programming and enhanced their technical competence so that they could be used in academic projects, research, and the level of applications in the industry.</p>



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	<p>The material provided in the workshop by the professionals is outlined in brief as:</p> <p><b>Session 1: Python and Programming Basics.</b></p> <p>This session was focused to the introduction of students to Python programming. Students were taught how to instal Python, Python syntax, variables, data types, conditional statements, and loops. The session focused on logical reasoning and problem-solving modelling exercises and examples. Students were able to understand clearly the writing basic Python programmes.</p> <p><b>Session 2: Data structures, functions and file handling.</b></p> <p>This session covered Python data structures such as lists, tuples, sets, and dictionaries. The students studied how modular programming could be done through the use of functions and the ability to read and write files through Python. The techniques of processing errors and debugging were described as well. Real-life examples made the students aware of real-life situations of programming.</p> <p><b>Session 3: object-oriented programming and python libraries.</b></p> <p>During this session, the students were given the introduction to such concepts of Object-Oriented Programming as classes, objects, inheritance and polymorphism. Students also got to know about Python libraries like NumPy and Pandas which are vital in data analysis and scientific computing. Practical activities enabled the students to know how Python is applied in the industry.</p>
<p><b>Name of the Experts:</b></p>	<ul style="list-style-type: none"> <li>● Dr. Jagdish Chakole, Asst. Professor IIIT Nagpur</li> <li>● Dr. Anil Kushwah, Asst. Professor IIIT Nagpur</li> <li>● Dr. Aishwarya Ukey, Asst. Professor IIIT Nagpur</li> </ul>
<p><b>Objectives of the activity:</b></p>	<p>The overall targets of the Python Programming Essentials Short-Term Training Programme were:</p> <ul style="list-style-type: none"> <li>● To present the basics and advanced concepts of Python programming to the students.</li> <li>● To form logical thinking, and problem-solving skills by doing programmes.</li> <li>● To deliver practical knowledge on writing and running Python codes.</li> <li>● To learn Object-Oriented Programming with Python.</li> <li>● To introduce students to important libraries in Python like NumPy and Pandas.</li> <li>● To equip the students with technical skills and make them industry and research-ready.</li> <li>● To enhance Employment and competency in programming among the students.</li> </ul>
<p><b>Outcomes of the activity:</b></p>	<p>After completing the training program, students were able to:</p> <ul style="list-style-type: none"> <li>• Understand Python syntax and programming concepts.</li> <li>• Develop logical thinking and problem-solving skills.</li> <li>• Write structured and efficient Python programs.</li> <li>• Apply Object-Oriented Programming concepts in Python.</li> <li>• Work with Python libraries such as NumPy and Pandas.</li> <li>• Apply Python programming in academic and real-world applications.</li> <li>• Gain confidence in coding and software development.</li> </ul>
<p><b>Mode of the activity:</b></p>	<p>Online Mode (Live Interactive Sessions)</p>



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## **Short-Term Training Program Schedule**

<b>Date</b>	<b>Session Contents</b>
<b>9 Feb 2026</b>	<b>Introduction to Python, Installation, and Basic Syntax</b>
<b>10–14 Feb 2026</b>	<b>Variables, Data Types, Conditional Statements, Loops</b>
<b>15–18 Feb 2026</b>	<b>Data Structures and Functions</b>
<b>19–21 Feb 2026</b>	<b>File Handling and Error Handling</b>
<b>22–25 Feb 2026</b>	<b>Object-Oriented Programming Concepts</b>
<b>26–27 Feb 2026</b>	<b>NumPy, Pandas, and Mini Projects</b>



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## Some Glimpses of the Activity:





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**Gwalior, Madhya Pradesh, India**  
Racecourse Rd, Near Gola Ka Mandir, Mela Ground,  
Thatipur, Gwalior, Madhya Pradesh 474005, India  
Lat 26.23065° Long 78.205084°  
Wednesday, 11/02/2026 05:38 PM GMT +05:30



**Gwalior, Madhya Pradesh, India**  
Racecourse Rd, Near Gola Ka Mandir, Mela Ground,  
Thatipur, Gwalior, Madhya Pradesh 474005, India  
Lat 26.230699° Long 78.205122°  
Thursday, 12/02/2026 05:53 PM GMT +05:30



**Gwalior, Madhya Pradesh, India**  
Racecourse Rd, Near Gola Ka Mandir, Mela Ground,  
Thatipur, Gwalior, Madhya Pradesh 474005, India  
Lat 26.230642° Long 78.205048°  
Wednesday, 25/02/2026 05:15 PM GMT +05:30



**Gwalior, Madhya Pradesh, India**  
Racecourse Rd, Near Gola Ka Mandir, Mela Ground,  
Thatipur, Gwalior, Madhya Pradesh 474005, India  
Lat 26.230617° Long 78.205114°  
Wednesday, 25/02/2026 05:15 PM GMT +05:30



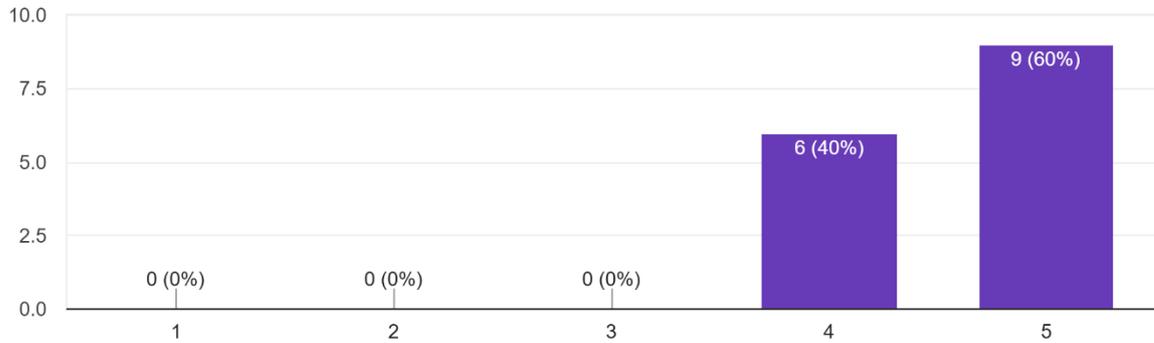
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## Event Feedback Analysis:

(Feedback Indicators: 1 - Poor, 2 - Below Average, 3 - Average, 4 - Above Average, 5 - Excellent)

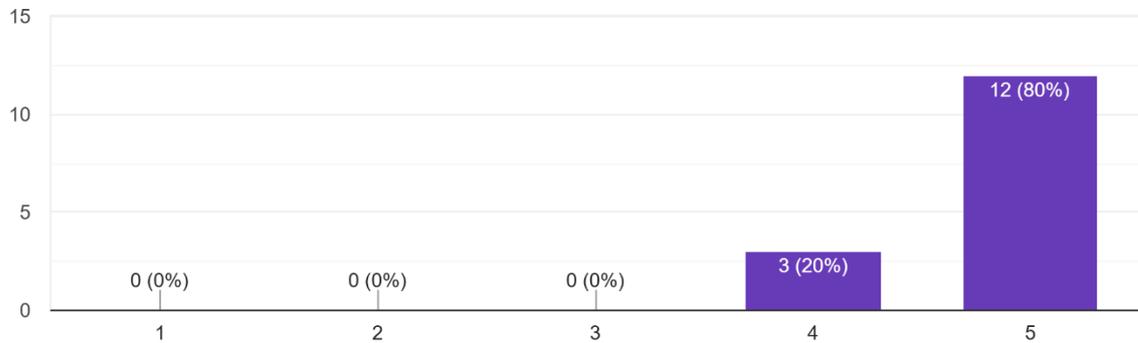
The quality of Short-Term Training Program:

15 responses



The information and knowledge provided in the program is meet my expectations.

15 responses

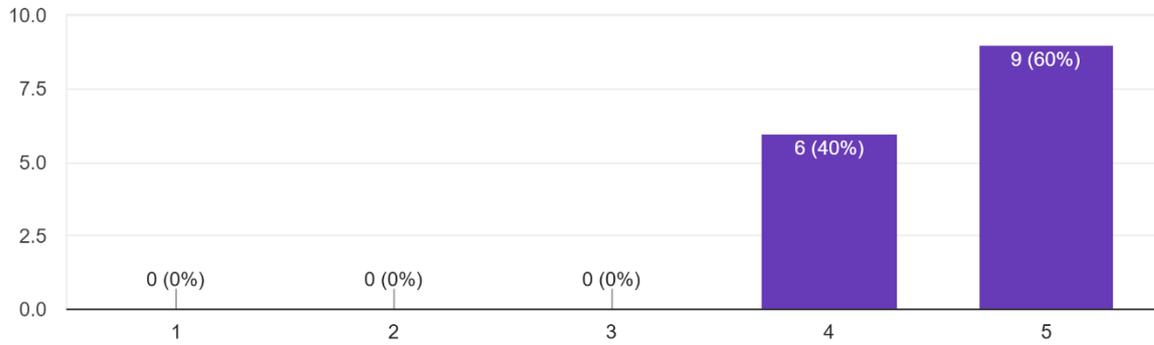




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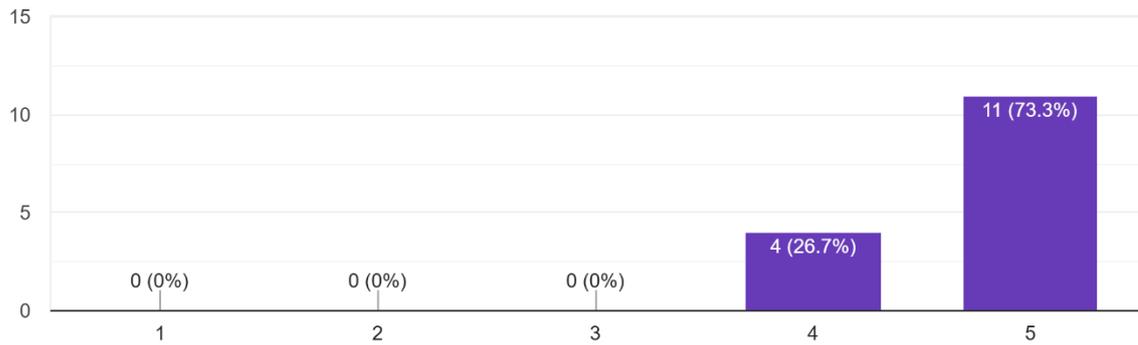
I felt that this program was directed to me as a student.

15 responses



After attending the program, I feel all my questions were answered

15 responses

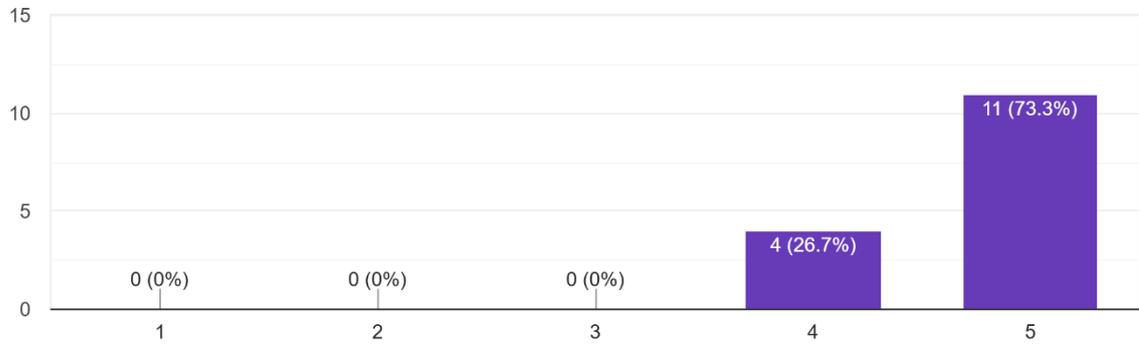




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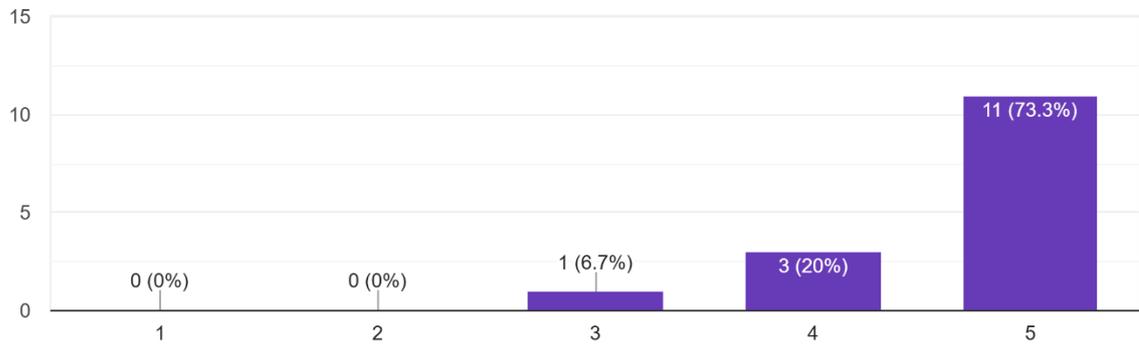
**Rating for expert 1**

15 responses



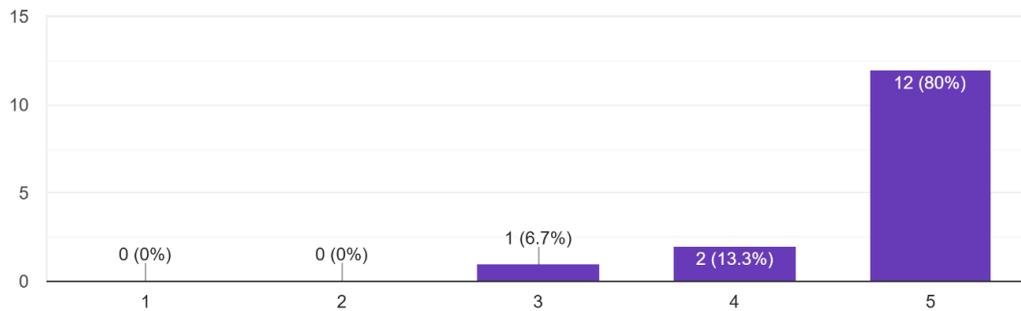
**Rating for expert 2**

15 responses



**Rating for expert 3**

15 responses





**Overall Feedback / Suggestions:**

<b>Overall very helpful</b>
<b>Excellent</b>
<b>No</b>
<b>The way of explaining is good</b>
<b>The workshop help me to grasp the basics of python programming.</b>
<b>Very insightful workshop</b>
<b>No</b>
<b>It was really helpful</b>
<b>Really very fruitful!!!</b>
<b>Thanku sir ✨</b>
<b>No</b>
<b>Nothing</b>
<b>Good</b>
<b>Pls conduct more such workshops.</b>
<b>It was great, it would be nicer to include quizzes at every lecture related to that lecture</b>



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## Attendance

माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत  
Madhav Institute of Technology & Science, Gwalior  
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NAAC Accredited with A++ Grade, Gola ka Mandir, Gwalior - 474005,  
Madhya Pradesh, India

Short-Term Training Program on  
"Python Programming Essentials: From Basics to Beyond"

Attendance

S. No.	Name of the Student	Enrollment No.	Branch (Year)	09/02/2026	10/02/2026	11/02/2026	12/02/2026	13/02/2026
1	Prajwal Baweja	BTCS25O1105	CSE (1st)					
2	Rishabh Gole	BTCS25O1118	CSE (1st)					
3	Samarth Gupta	BTCS25O1125	CSE (1st)					
4	Sambhav Raj Onkar	BTCS25O1126	CSE (1st)					
5	Sajal Agarwal	BTCS25O1121	CSE (1st)					
6	Shruti tiwari	BTCS25O1137	CSE (1st)					
7	Samridhi Tiwari	BTCS25O1127	CSE (1st)					
8	Piyush Moonat	BTCS25O1100	CSE (1st)	Piyush	Piyush	Piyush	Piyush	
9	Rashi Mandovra	BTCS25O1114	CSE (1st)					
10	Naitik Kanha	BTCS25O1089	CSE (1st)	Naitik		Naitik		
11	Vinayak mahor	BTCS25O1153	CSE (1st)					
12	Siddarth Rajoriya	BTCS25O1139	CSE (1st)					
13	Pranjal singh patel	BTCS25O1109	CSE (1st)					
14	Shambhavi Shrivastava	BTCS25O1128	CSE (1st)					
15	Shree Yadav	BTCS25O1135	CSE (1st)					

S. No.	Name of the Student	Enrollment No.	Branch (Year)	09/02/2026	10/02/2026	11/02/2026	12/02/2026	13/02/2026
16	Nainika Raikwar	BTCS25O1088	CSE (1st)	Nainika	Nainika	Nainika	Nainika	Nainika
17	Payal Samadhiya	BTCS25O1099	CSE (1st)					
18	Swasti jain	BTCS25O1142	CSE (1st)					
19	Nikhil Pandey	BTCS25O1092	CSE (1st)	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil
20	Pragya Gupta	BTCS25O1159	CSE (1st)					
21	Pralakshy Kaushik	BTCS25O1106	CSE (1st)					
22	Meet Malviya	BTCS25O1082	CSE (1st)					
23	Riddhima Pandita	BTCS25O1116	CSE (1st)					
24	Pallavi	BTCS25O1095	CSE (1st)					
25	Pratik Harsude	BTCS25O1111	CSE (1st)					
26	Urmila Barela	BTCS25O1146	CSE (1st)					
27	Saksham Soni	BTCS25O1124	CSE (1st)					
28	Shivanshu Dandotiya	BTCS25O1132	CSE (1st)	shivanshu	shivanshu	shivanshu		
29	Pushkar Narware	BTCS25O1113	CSE (1st)	Pushkar	Pushkar	Pushkar	Pushkar	Pushkar
30	Vishal Mathe	BTCS25O3D10	CSE (1st)					
31	Prince Sanodiya	BTCD25O1103	CSD (1st)	Prince	Prince	Prince	Prince	Prince
32	Gurleen Kaur Chhabra	BTCD25O1050	CSD (1st)	Gurleen	Gurleen	Gurleen	Gurleen	Gurleen
33	Manya Verma	BTCD25O1079	CSD (1st)	Manya	Manya	Manya	Manya	Manya
34	Ashish Kushwah	BTCD25O1031	CSD (1st)					
35	Saksham Shrivastava	BTCS24O1117	CSE (2nd)					
36	Suraj Malviya	BTCS24O1134	CSE (2nd)					
37	Sourav Shrivastava	BTCS24O1133	CSE (2nd)					
38	Hariom Gourh	BTCS24O1050	CSE (2nd)	Hariom	Hariom	Hariom	Hariom	
39	Bhavna Jain	BTCS25O3D02	CSE (2nd)					
40	Alakh gupta	BTCS24O1017	CSE (2nd)					
41	Sachin Kumar	BTCS24O1112	CSE (2nd)					
42	Harshit Malviya	BTCS24O1054	CSE (2nd)					



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				09/02/26	10/02/26	11/02/26	12/02/26	13/02/26
43	Kishan Chaudhary	BTCS2401072	CSE (2nd)					
44	Harshita Pathrod	BTCS2401057	CSE (2nd)					
45	Piyush gautam	BTCS2401091	CSE (2nd)					
46	Prayanshu Tomar	BTCS2503D07	CSE (2nd)					
47	Nitika jatav	BTCS2503D06	CSE (2nd)					
48	Yuvraj Singh Narwariya	BTCS2401154	CSE (2nd)					
49	Gagan Singh Rajput	BTCS2503D03	CSE (2nd)					
50	Raj Shrivias	BTCD2503D03	CSE (2nd)					
51	Muskan Chopra	BTCD2401038	CSD (2nd)	Muskan	Muskan	Muskan	Muskan	Muskan
52	Niyati Bagri	BTCD2401041	CSD (2nd)	Niyati	Niyati	Niyati	Niyati	Niyati
53	Himanshi solanki	BTCD2401027	CSD (2nd)	Himanshi	Himanshi	Himanshi	Himanshi	Himanshi
54	Khushi Sisodiya	BTCD2401029	CSD (2nd)	Khushi	Khushi	Khushi	Khushi	Khushi
55	Saba Arif	BTCD2401056	CSD (2nd)					
56	Sheetal Gourh	BTCD2401059	CSD (2nd)					
57	Rishi Juneja	BTCD2401052	CSD (2nd)	Rishi	Rishi	Rishi	Rishi	Rishi
58	Aanjneya Pratap Singh Gehlot	BTCD2401001	CSD (2nd)	Aanjneya	Aanjneya	Aanjneya	Aanjneya	Aanjneya
59	Ashu prajapati	BTCD2501032	CSD (2nd)					
60	Kalpana singh	BTCD2503D02	CSD (2nd)					
61	psiyanshu Singh	MTCSE2501016	CSE (1 year)	Psya	Psya	Psya	Psya	Psya
62	Divyansh Gupta	BTCS2401043	CSE (2nd)	Divyansh	Divyansh	Divyansh	Divyansh	Divyansh
63	Joy Banerji	0901CS231062	CSE (3 <sup>rd</sup> )	Joy Banerji				
64	Shreyansh Inafuk	BTCD2501130	CSD (1st)					
65	Amij Yadav	BTCD2501024	CSD (1st)					

				16/2/26	17/2/26	18/2/26	19/2/26	20/2/26
16	Nainika Raikwar	BTCS2501088	CSE (1st)	Nainika	Nainika	Nainika	Nainika	Nainika
17	Payal Samadhiya	BTCS2501099	CSE (1st)	Payal	Payal	Payal	Payal	Payal
18	Swasti jain	BTCS2501142	CSE (1st)					
19	Nikhil Pandey	BTCS2501092	CSE (1st)					
20	Pragya Gupta	BTCS2501159	CSE (1st)					
21	Pralakshy Kaushik	BTCS2501106	CSE (1st)					
22	Meet Malviya	BTCS2501082	CSE (1st)					
23	Riddhima Pandita	BTCS2501116	CSE (1st)					
24	Pallavi	BTCS2501095	CSE (1st)					
25	Pratik Harsude	BTCS2501111	CSE (1st)					
26	Urmila Barela	BTCS2501146	CSE (1st)					
27	Saksham Soni	BTCS2501124	CSE (1st)					
28	Shivanshu Dandotiya	BTCS2501132	CSE (1st)					
29	Pushkar Narware	BTCS2501113	CSE (1st)					
30	Vishal Mathe	BTCS2503D10	CSE (1st)					
31	Prince Sanodiya	BTCD2501103	CSD (1st)	Prince	Prince	Prince	Prince	Prince
32	Gurleen Kaur Chhabra	BTCD2501050	CSD (1st)	Gurleen	Gurleen	Gurleen	Gurleen	Gurleen
33	Manya Verma	BTCD2501079	CSD (1st)	Manya	Manya	Manya	Manya	Manya
34	Ashish Kushwah	BTCD2501031	CSD (1st)					
35	Saksham Shrivastava	BTCS2401117	CSE (2nd)					
36	Suraj Malviya	BTCS2401134	CSE (2nd)					
37	Sourav Shrivias	BTCS2401133	CSE (2nd)					
38	Hariom Gourh	BTCS2401050	CSE (2nd)	Hariom	Hariom	Hariom	Hariom	Hariom
39	Bhavna Jain	BTCS2503D02	CSE (2nd)					
40	Alakh gupta	BTCS2401017	CSE (2nd)					
41	Sachin Kumar	BTCS2401112	CSE (2nd)					
42	Harshit Malviya	BTCS2401054	CSE (2nd)					



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43	Kishan Chaudhary	BTCS24O1072	CSE (2nd)						
44	Harshita Pathrod	BTCS24O1057	CSE (2nd)						
45	Piyush gautam	BTCS24O1091	CSE (2nd)						
46	Prayanshu Tomar	BTCS25O3D07	CSE (2nd)						
47	Nitika jatav	BTCS25O3D06	CSE (2nd)						
48	Yuvraj Singh Narwariya	BTCS24O1154	CSE (2nd)						
49	Gagan Singh Rajput	BTCS25O3D03	CSE (2nd)						
50	Raj Shrivias	BTCD25O3D03	CSE (2nd)						
51	Muskan Chopra	BTCD24O1038	CSD (2nd)	Muskan	Muskan	Muskan	Muskan	Muskan	
52	Niyati Bagri	BTCD24O1041	CSD (2nd)	Niyati	Niyati	Niyati	Niyati	Niyati	
53	Himanshi solanki	BTCD24O1027	CSD (2nd)	Himanshi	Himanshi	Himanshi	Himanshi	Himanshi	
54	Khushi Sisodiya	BTCD24O1029	CSD (2nd)	Khushi	Khushi	Khushi	Khushi	Khushi	
55	Saba Arif	BTCD24O1056	CSD (2nd)						
56	Sheetal Gourh	BTCD24O1059	CSD (2nd)						
57	Rishi Juneja	BTCD24O1052	CSD (2nd)	Rishi	Rishi	Rishi	Rishi	Rishi	
58	Aanjneya Pratap Singh Gehlot	BTCD24O1001	CSD (2nd)	Aanjneya	Aanjneya	Aanjneya	Aanjneya	Aanjneya	
59	Ashu prajapati	BTCD25O1032	CSD (2nd)						
60	Kalpana singh	BTCD25O3D02	CSD (2nd)						
61	Priyanshu Singh	MTCS25O1016	CSE (1 <sup>st</sup> )						
62	Divyansh Gupta	BTCS24O1043	CSE (2 <sup>nd</sup> )	Divyansh	Divyansh	Divyansh	Divyansh	Divyansh	
63	Joy Banerji	0901CS231064	CSE (3 <sup>rd</sup> )	Joy	Joy	Joy	Joy	Joy	
64	Shreyansh	BTCD25O1130	CSD (1 <sup>st</sup> )	Shreyansh	Shreyansh	Shreyansh	Shreyansh	Shreyansh	
65	Anuj Yadav	BTCD25O1024	CSD (1 <sup>st</sup> )	Anuj	Anuj	Anuj	Anuj	Anuj	

				23/2/26	24/2/26	25/2/26	26/2/26	27/2/26
16	Nainika Raikwar	BTCS25O1088	CSE (1st)	Nainika	Nainika	Nainika	Nainika	
17	Payal Samadhya	BTCS25O1099	CSE (1st)					
18	Swasti jain	BTCS25O1142	CSE (1st)					
19	Nikhil Pandey	BTCS25O1092	CSE (1st)					
20	Pragya Gupta	BTCS25O1159	CSE (1st)					
21	Pralakshy Kaushik	BTCS25O1106	CSE (1st)					
22	Meet Malviya	BTCS25O1082	CSE (1st)					
23	Riddhima Pandita	BTCS25O1116	CSE (1st)					
24	Pallavi	BTCS25O1095	CSE (1st)					
25	Pratik Harsude	BTCS25O1111	CSE (1st)					
26	Urmila Barela	BTCS25O1146	CSE (1st)					
27	Saksham Soni	BTCS25O1124	CSE (1st)					
28	Shivanshu Dandotiya	BTCS25O1132	CSE (1st)				Shivanshu	
29	Pushkar Narware	BTCS25O1113	CSE (1st)					
30	Vishal Mathe	BTCS25O3D10	CSE (1st)					
31	Prince Sanodiya	BTCD25O1103	CSD (1st)	Prince	Prince	Prince	Prince	
32	Gurleen Kaur Chhabra	BTCD25O1050	CSD (1st)	Gurleen	Gurleen	Gurleen	Gurleen	
33	Manya Verma	BTCD25O1079	CSD (1st)	Manya	Manya	Manya	Manya	
34	Ashish Kushwah	BTCD25O1031	CSD (1st)				Ashish	
35	Saksham Shrivastava	BTCS24O1117	CSE (2nd)					
36	Suraj Malviya	BTCS24O1134	CSE (2nd)					
37	Sourav Shrivias	BTCS24O1133	CSE (2nd)					
38	Hariom Gourh	BTCS24O1050	CSE (2nd)	Hariom	Hariom			
39	Bhavna Jain	BTCS25O3D02	CSE (2nd)					
40	Alakh gupta	BTCS24O1017	CSE (2nd)					
41	Sachin Kumar	BTCS24O1112	CSE (2nd)					
42	Harshit Malviya	BTCS24O1054	CSE (2nd)					

