

Alandi (D), Pune – 412105

Department of Computer Application

Academic Year 2024-2025

Industrial Visit Report

Objective:

The main goal for conducting this Visit is:

1. Understanding Big Data and Data Processing:
2. Introduction to Signal Processing:
3. Exposure to High-Performance Computing (HPC):
4. Real-world Application of Software Development:
5. Interdisciplinary Learning:
6. Career Inspiration and Networking:
7. Radio Astrology

Activity Details:

The Department of Computer Application organized an industrial visit to the Giant Metrewave Radio Telescope (GMRT), Khodad, Pune on Friday, 16/08/2024. The visit aimed to provide students with real-world exposure to the application of computer in the field of radio astronomy and to enhance their understanding of advanced technologies such as Big Data, signal processing, and high-performance computing, Networking.

The visit was attended by 138 students from TY BBA CA-B1 & B2, TY BCA Sci. E1 & E3, and SY BCA Sci. E3 classes, along with faculty members Prof. Amit Tale, Prof. Amol Kale, Dr. Bharati Kawade, and Prof. Sarika Gaddekar. The visit commenced with an introductory session by the GMRT staff, where students were briefed about the history, significance, and functioning of the GMRT. Following this, the students were taken on a guided tour of the facility

Antenna Array: Students observed the vast array of parabolic antennas that form the GMRT. They learned how these antennas capture radio waves from space and the basic principles of radio astronomy.



Control Room: The visit to the control room provided insights into the real-time monitoring and control of the telescope array. The students witnessed the software systems and algorithms used to manage data acquisition and antenna coordination.

Data Processing Center: Here, students were introduced to the data processing pipeline. They learned about the challenges of processing large datasets and the use of high-performance computing resources to analyze the captured signals.

Interaction Session: An interactive session was held where students engaged with the scientists and engineers at GMRT. They discussed various aspects of computational challenges in astronomy and explored potential career paths in computational science and engineering.

Outcome of Industrial Visit:

Big Data Handling: Students gained an understanding of the massive datasets generated by GMRT and the computational techniques employed to manage and analyze these datasets.

Signal Processing: The visit highlighted the importance of signal processing in radio astronomy and introduced students to the advanced algorithms used in this field.

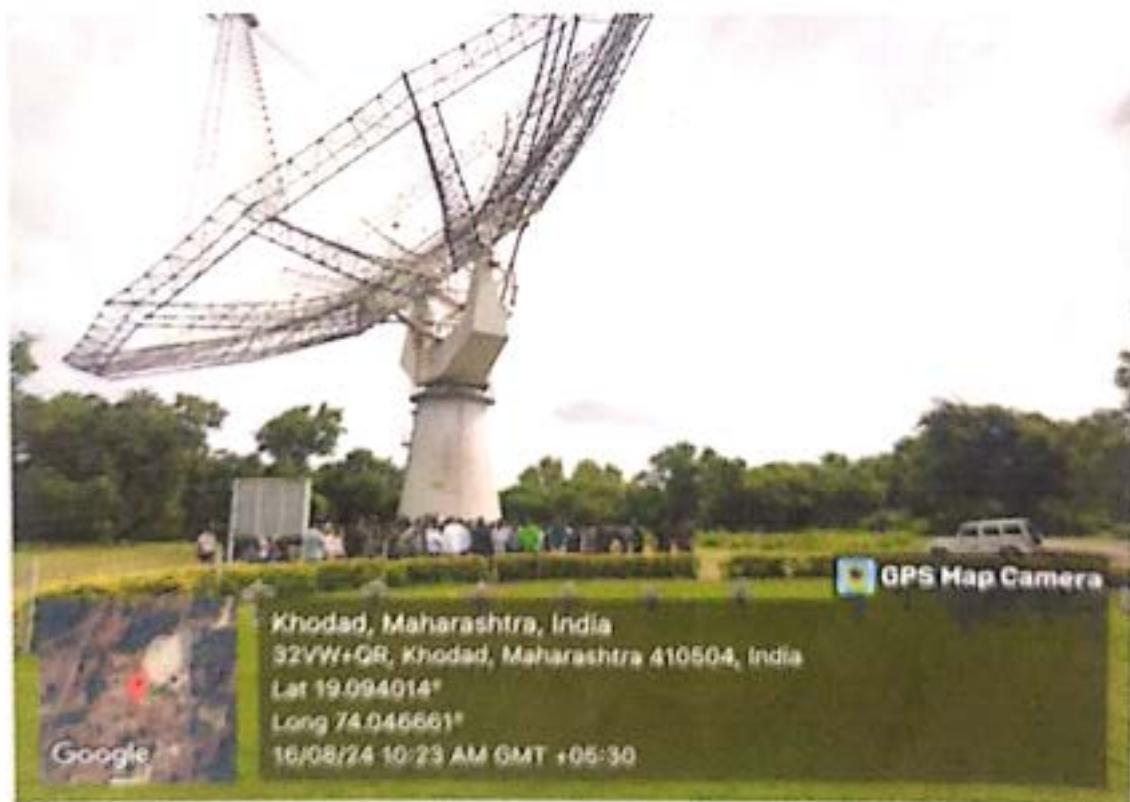
High-Performance Computing: Exposure to the high-performance computing infrastructure at GMRT helped students appreciate the role of HPC in scientific research.

Software Applications: The visit provided insights into the development and deployment of custom software solutions for scientific purposes.

Interdisciplinary Applications: The experience underscored the importance of interdisciplinary collaboration, showing how computer science principles are applied in various scientific research areas.

Total Student Participants : 138 Male Participants : 78 Female Participants : 66





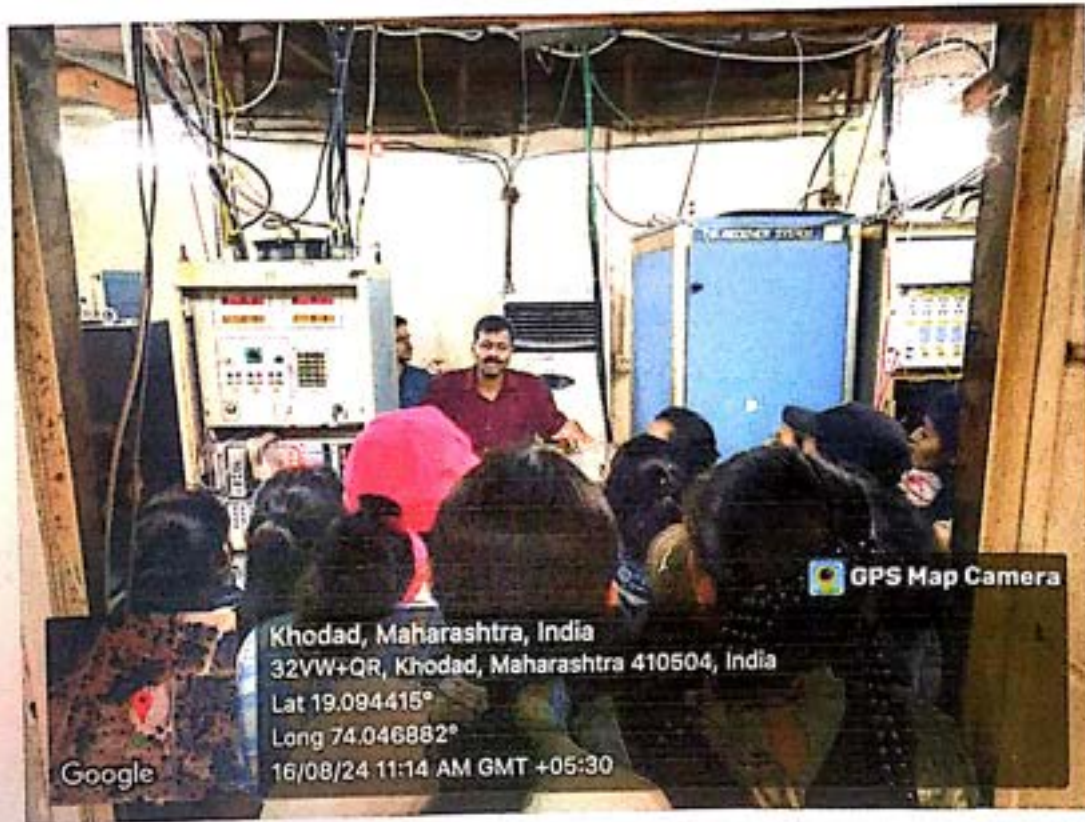
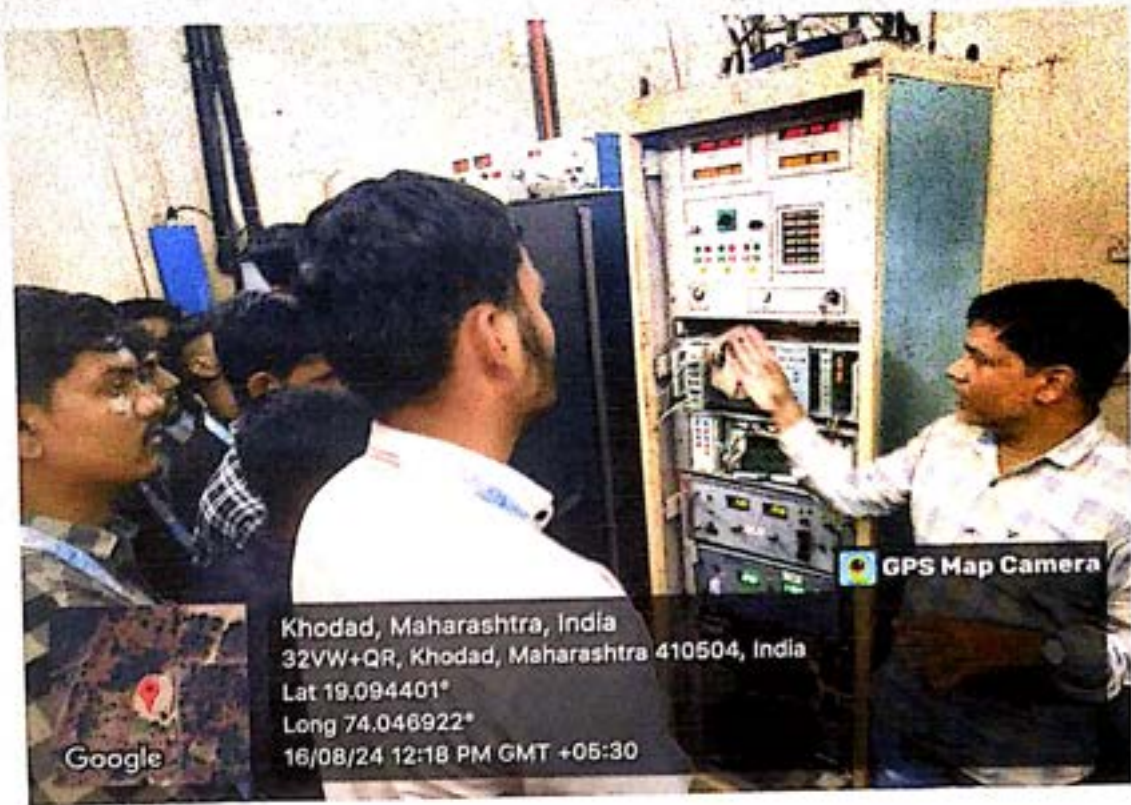
Giant Metrewave Radio Telescope (GMRT), Khodad, Pune





Expert Lecture and Group Discussion





Practical Demonstration of GMRT in Control Rooms





Group Photo with GMRT staff members at GMRT, Khodad,

Prof. Amol Kale
Co-ordinator





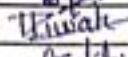
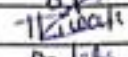
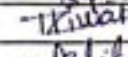
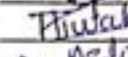
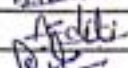
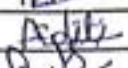
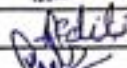
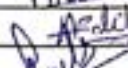
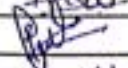
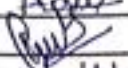
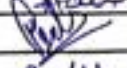

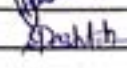
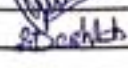
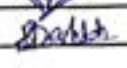
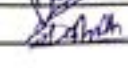
Dr. Vikas Mahandule
HOD, Computer Application

Dr. B. B. Waphare
Principal



MAEER'S
MIT Arts Commerce & Science College, Alandi(D.), Pune
Academic Year - 2024-25
GMRT Industrial Visit, Friday, 16 August 2024
Class: SY BCA (Sci), TYBCA (Sci.) Div: E3,E3 Sem:III/ V
"Attendance Sheet"

Sr No	Roll no	Name	Sign	Sign	Sign	Sign
1	SE3315	Rutuja Sarode	Rutuja Sarode	Rutuja Sarode	Rutuja Sarode	Rutuja Sarode
2	SE3362	Pradnya Waghmode	Pradnya Waghmode	Pradnya Waghmode	Pradnya Waghmode	Pradnya Waghmode
3	SE3372	Tanuja Mahandule	Tanuja Mahandule	Tanuja Mahandule	Tanuja Mahandule	Tanuja Mahandule
4	SE3316	Sahil Lamture	Sahil Lamture	Sahil Lamture	Sahil Lamture	Sahil Lamture
5	SE3326	Sarthak Sukre	Sarthak Sukre	Sarthak Sukre	Sarthak Sukre	Sarthak Sukre
6	SE3329	Ashish Khose	Ashish Khose	Ashish Khose	Ashish Khose	Ashish Khose
7	SE3308	Shravan Talokar	Shravan Talokar	Shravan Talokar	Shravan Talokar	Shravan Talokar
8	SE3358	Shivanjali Thanke	Shivanjali Thanke	Shivanjali Thanke	Shivanjali Thanke	Shivanjali Thanke
9	SE3359	Sejal Satav	Sejal Satav	Sejal Satav	Sejal Satav	Sejal Satav
10	SE3364	Gauri Mane	Gauri Mane	Gauri Mane	Gauri Mane	Gauri Mane
11	SE3323	Shivtej Mahatme	Shivtej Mahatme	Shivtej Mahatme	Shivtej Mahatme	Shivtej Mahatme
12	SE3367	Akash Kale	Akash Kale	Akash Kale	Akash Kale	Akash Kale
13	SE3369	Snehal Waghole	Snehal Waghole	Snehal Waghole	Snehal Waghole	Snehal Waghole
14	SE3368	Kunal Shegokar	Kunal Shegokar	Kunal Shegokar	Kunal Shegokar	Kunal Shegokar
15	SE3307	Khushi Gavande	Khushi Gavande	Khushi Gavande	Khushi Gavande	Khushi Gavande
16	SE3371	Pooja Ghenand	Pooja Ghenand	Pooja Ghenand	Pooja Ghenand	Pooja Ghenand
17	SE3301	Deepak Pawar	Deepak Pawar	Deepak Pawar	Deepak Pawar	Deepak Pawar
18	SE3348	Vedant Pimpalshende	Vedant Pimpalshende	Vedant Pimpalshende	Vedant Pimpalshende	Vedant Pimpalshende
19	SE3366	Vaishnavi Bavale	Vaishnavi Bavale	Vaishnavi Bavale	Vaishnavi Bavale	Vaishnavi Bavale
20	SE3347	Siddhi Bhalekar	Siddhi Bhalekar	Siddhi Bhalekar	Siddhi Bhalekar	Siddhi Bhalekar
21	SE3322	Pragati Funde	Pragati Funde	Pragati Funde	Pragati Funde	Pragati Funde
22	SE3328	Supriya Kumari	Supriya Kumari	Supriya Kumari	Supriya Kumari	Supriya Kumari
23	SE3311	Ritu Dodke	Ritu Dodke	Ritu Dodke	Ritu Dodke	Ritu Dodke
24	SE3318	Atharva Warankar	Atharva Warankar	Atharva Warankar	Atharva Warankar	Atharva Warankar
25	SE3306	Yogesh Lokhande	Yogesh Lokhande	Yogesh Lokhande	Yogesh Lokhande	Yogesh Lokhande
26	SE3339	Yash Andhale	Yash Andhale	Yash Andhale	Yash Andhale	Yash Andhale
27	SE3338	Shruti Zade	Shruti Zade	Shruti Zade	Shruti Zade	Shruti Zade
28	SE3331	Vaishnavi Kalbande	Vaishnavi Kalbande	Vaishnavi Kalbande	Vaishnavi Kalbande	Vaishnavi Kalbande
29	SE3309	Saniya Tapkir	Saniya Tapkir	Saniya Tapkir	Saniya Tapkir	Saniya Tapkir
30	SE3312	Tanuja Koli	Tanuja Koli	Tanuja Koli	Tanuja Koli	Tanuja Koli
31	SE3321	Shraddha Babar	Shraddha Babar	Shraddha Babar	Shraddha Babar	Shraddha Babar
32	SE3354	Sakshi Gade	Sakshi Gade	Sakshi Gade	Sakshi Gade	Sakshi Gade
33	SE3	Tanvi Badgujar	Tanvi Badgujar	Tanvi Badgujar	Tanvi Badgujar	Tanvi Badgujar
34	TE3317	Sonal Adhav	Sonal Adhav	Sonal Adhav	Sonal Adhav	Sonal Adhav
35	TE3326	Pankaj Rathod	Pankaj Rathod	Pankaj Rathod	Pankaj Rathod	Pankaj Rathod
36	TE3342	Atharva Narate	Atharva Narate	Atharva Narate	Atharva Narate	Atharva Narate
37	TE3304	Kunal Mungase	Kunal Mungase	Kunal Mungase	Kunal Mungase	Kunal Mungase
38	TE3335	Priti Naikwade	Priti Naikwade	Priti Naikwade	Priti Naikwade	Priti Naikwade
39	TE3356	Aditi Gaikwad	Aditi Gaikwad	Aditi Gaikwad	Aditi Gaikwad	Aditi Gaikwad
40	TE3357	Rutuja Dhage	Rutuja Dhage	Rutuja Dhage	Rutuja Dhage	Rutuja Dhage

Sr No	Roll no	Name	Sign	Sign	Sign	Sign
41	TE3380	Shreya Dombale				
42	TE3361	Harshala Diwate				
43	TE3359	Aditi Andil				
44	TE3360	Prajakta Bawale				
45	TE3316	Sakshi Deshmukh				
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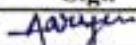
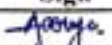
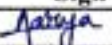

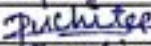

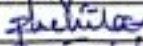

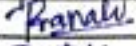
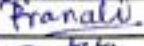












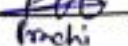

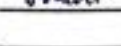

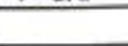


Dr. Bharati Kawade
 Bus Coordinator


Prof. Amol Kale
 Visit Coordinator


Dr. Vikas Mahandule
 HOD, Computer Application

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"Attendance Sheet"

Sr. No	Roll no	Name	Sign	Sign	Sign	Sign
1	43	Reshma Jadhav	[Signature]	[Signature]	[Signature]	[Signature]
2	3	Santosh Rathod	[Signature]	[Signature]	[Signature]	[Signature]
3	22	Swapnil Wankhate	[Signature]	[Signature]	[Signature]	[Signature]
4	13	Narayan Gohad	[Signature]	[Signature]	[Signature]	[Signature]
5	18	Vishal Nile	[Signature]	[Signature]	[Signature]	[Signature]
6	19	Raj Tawhare	[Signature]	[Signature]	[Signature]	[Signature]
7	12	Rohan Pingale	[Signature]	[Signature]	[Signature]	[Signature]
8	16	Sanika mane	[Signature]	[Signature]	[Signature]	[Signature]
9	14	Shivani Muluk	[Signature]	[Signature]	[Signature]	[Signature]
10	23	Aditya Chavan	[Signature]	[Signature]	[Signature]	[Signature]
11	7	Arpita pande	[Signature]	[Signature]	[Signature]	[Signature]
12	31	Vaishanvi Ambre	[Signature]	[Signature]	[Signature]	[Signature]
13	59	tejal Borate	[Signature]	[Signature]	[Signature]	[Signature]
14	32	Sakshi Gaikwad	[Signature]	[Signature]	[Signature]	[Signature]
15	55	Sakshi Jadhav	[Signature]	[Signature]	[Signature]	[Signature]
16	58	Sakshi Shevkari	[Signature]	[Signature]	[Signature]	[Signature]
17	20	Manjusha Magar	[Signature]	[Signature]	[Signature]	[Signature]
18	61	Divya Musande	[Signature]	[Signature]	[Signature]	[Signature]
19	1	Shrutika napte	[Signature]	[Signature]	[Signature]	[Signature]
20	21	Mihika Thakur	[Signature]	[Signature]	[Signature]	[Signature]
21	25	Amruta gadekar	[Signature]	[Signature]	[Signature]	[Signature]
22	24	Disha Mehtani	[Signature]	[Signature]	[Signature]	[Signature]
23	42	Karan Memane	[Signature]	[Signature]	[Signature]	[Signature]
24	41	Yash Dhore	[Signature]	[Signature]	[Signature]	[Signature]
25	6	Harshad Shivale	[Signature]	[Signature]	[Signature]	[Signature]
26	8	Drushti Adsul	[Signature]	[Signature]	[Signature]	[Signature]
27	9	Dnyanendra Girase	[Signature]	[Signature]	[Signature]	[Signature]
28	11	Vaishanvi Vyavahare	[Signature]	[Signature]	[Signature]	[Signature]
29	2	Vaishanvi Wadekar	[Signature]	[Signature]	[Signature]	[Signature]
30	53	Shrutika Raut	[Signature]	[Signature]	[Signature]	[Signature]
31	4	Nikita borkar	[Signature]	[Signature]	[Signature]	[Signature]
32	35	Prathmesh Deokar	[Signature]	[Signature]	[Signature]	[Signature]
33	40	Omkar thorat	[Signature]	[Signature]	[Signature]	[Signature]
34	38	sahil Borkar	[Signature]	[Signature]	[Signature]	[Signature]
35	57	Aditya Nair	[Signature]	[Signature]	[Signature]	[Signature]
36		Rohit Kokate	[Signature]	[Signature]	[Signature]	[Signature]
37	5	Shubham patil	[Signature]	[Signature]	[Signature]	[Signature]
38	36	Pranav Bhalerao	[Signature]	[Signature]	[Signature]	[Signature]
39	49	Aditya bangar	[Signature]	[Signature]	[Signature]	[Signature]
40	46	Manaswee Dolas	[Signature]	[Signature]	[Signature]	[Signature]
41	47	Nayan Sonawane	[Signature]	[Signature]	[Signature]	[Signature]

Sr. No	Roll no	Name	Sign	Sign	Sign	Sign
42	55	Aarya Kudale				
43	51	Ruchita Deore				
44	18	Pranali Tekade				
45	49	Rutuja Potghan				
46	66	Divya Bhogawade				
47	70	Tanvi Patil				
48	67	Prachi Bhosale				
49						
50						


Prof. Satika Gadekar
 Bus Coordinator


Prof. Amol Kale
 Visit Coordinator


Dr. Vikas Mahandule
 HOD, Computer Application

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Sr No	Roll no	Name	Sign	Sign	Sign	Sign
1	TB1109	Sidhant Anil Biredar				
2	TB1129	Mohit Sutar				
3	TB1106	Chetan Choudhary				
4	TB1132	Prachi Rajpure				
5	TB1134	Priti Padwal				
6	TB1110	Prathmesh Shinde				
7	TB1105	Anand Kushvah				
8	TB1103	Harsh Satkar				
9	TB1102	Alvin Wilson				
10	TB1133	Atharva Phalke				
11	TB1169	Rushikesh Vandre				
12	TB1168	Rahul Patil				
13	TB1172	Bhavesh Govindani				
14	TB1178	Shrusti Gavande				
15	TB1116	Samrudhi Gawade				
16	TB1114	Rohit Bhangale				
17	TB1117	Swaraj Waghmare				
18	TB1118	Sumit Agarkar				
19	TB1170	Sneha nandre				
20	TB1155	Mehak Sharma				
21	TB1154	Janvi panchal				
22	TB1150	Deshmukh Sanika				
23	TB1130	Garud Gauri				
24	TB1162	Dwarka gayakvad				
25	TB1101	Hemant dhavle				
26	TB1152	Priyanshu Chikane				
27	TB1181	Sujit Waykar				
28	TB1163	Akash Mane				
29	TB1164	Kaustab Nigade				
30	TE1135	Tushar Dighe				
31	TE1127	Rohit D gadade				
32	TE1103	Harshal Daundkar				
33	TE1106	Bhagwat Siral				
34	TE1115	Rameshwar Chate				
35	TE1102	Santosh Jogdand				
36	TE1126	Rohit Thorbole				
37	TE1158	Sandip Bhogil				
38	TE1152	Piyush Sonawne				
39	TE1123	Rohit Grodase				

Sr No	Roll no	Name	Sign	Sign	Sign	Sign
40	TE1154	Muzamil Peerzade				
41	TE1146	Vishwajit Mirche				
42	TE1159	Sanika Wanarse				
43	TE1114	Utkarsha Daphal				
44	TE1111	Sharwani Bandal				
45	TE1128	Pranali Jawalkar				
46						
47						
48						
49						
50						


Prof. Amit Tale
 Bus Coordinator


Prof. Amol Kale
 Visit Coordinator


Dr. Vikas Mahandule
 HOD, Computer Application