



Sandip Foundation's
Sandip Institute of Technology & Research Centre,
Mahiravani, Trimbak Road, Nashik - 422 213



**Department of Engineering Sciences and
Humanities**

Date: - 10 /09/2024

NOTICE

All students of the F.Y. B.Tech are hereby informed that the department of Engineering Sciences and Humanities has organized the Expert talk on " Industry 4.0 : The Future of Manufacturing" on Date 20/09/2024 From 11:00 am onwards .

The Expert talk aims to comprehensive knowledge about examination regulation and protocol. It is compulsory for all students to attend the Seminar.

Dr. Subhash Gautam
Event Coordinator

Prof. J.M. Shah
Head of Dept



Sandip Institute of Technology and Research Centre

At &Po- Mahiravani, Trimbak Road Tal & Dist-Nashik

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(Approved by-AICTE, New Delhi,& Govt.of Maharashtra and Permanently Affiliated to Savitribai Phule University (Formerly Pune University),Pune.

Accredited with "A" grade byNAAC with CGPA Score of 3.11
NBA Accredited for Computer &Mechanical Engineering (UG Course)
w.e.f 2023-24 to2025-26



SANDIP
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Activity Report
of
Expert Talk On Industry 4.0:
The Future of Manufacturing
A.Y. 2024-25



SANDIP
FOUNDATION

(An autonomous institute permanently affiliated to Savitribai Phule Pune University, Pune)

Organized by,

Sandip Foundation's

Department of Engineering Sciences and Humanities Sandip Institute
of Technology and Research Centre, Nashik (MS)

DTE Code: 5109

Date: 20th Sept 2024

Name of Event : Industry 4.0 : The Future of Manufacturing

Event Coordinator: Assistant Professor Dr. Subhash Gautam

Participants : F.Y. B.Tech students (ESH Department)

No. of Participants :179

Aim :

An expert talk on "Industry 4.0: The Future of Manufacturing" was organized by ESH Department, SITRC, Nashik. The event aimed to provide insights into the latest trends, technologies, and practices that are shaping the future of the manufacturing sector. The session covered the evolution of the industry through various industrial revolutions and how Industry 4.0 is transforming the current manufacturing landscape with the integration of advanced technologies.

Objective :

- To introduce the concept of Industry 4.0 and its significance in modern manufacturing.
- To explore the latest technologies driving Industry 4.0, such as IoT, AI, robotics, and big data analytics.
- To discuss the benefits, challenges, and future opportunities for manufacturers in adopting Industry 4.0.
- To encourage participants to understand and adapt to the new technological paradigm in their professional practices.

Activities:

Several activities can be conducted to support an expert talk on " Industry 4.0 : The Future of Manufacturing " aimed at reinforcing the understanding and practical implementation of these regulations. Here are some key activities:

1. **Introduction to Industry 4.0:** The speaker began by outlining the history of the industrial revolutions, leading up to the current phase, Industry 4.0. Emphasis was placed on the role of smart and autonomous systems, driven by data and machine learning.
2. **Core Technologies:** The session highlighted the key technologies driving Industry 4.0, such as the Internet of Things (IoT), Artificial Intelligence (AI), cloud computing, big data analytics, robotics, and additive manufacturing (3D printing).
3. **Real-World Applications:** Practical examples of how companies are using Industry 4.0 technologies to improve efficiency, reduce costs, and enhance productivity were shared. Case studies from automotive, electronics, and other sectors demonstrated the real-world impact of these innovations.
4. **Challenges and Solutions:** The speaker addressed various challenges faced by industries in implementing Industry 4.0, including issues related to data security, workforce skill gaps, and high initial costs. Possible solutions and strategies to overcome these barriers were also discussed.

5. **Future of Manufacturing:** The talk concluded with a discussion on the future of manufacturing, highlighting how Industry 4.0 is paving the way for smart factories, customization, and more agile production processes. The importance of continuous learning and adaptation to new technologies was stressed.

Outcomes

1. **Enhanced Understanding of Industry 4.0 Concepts:**
Participants gained a comprehensive understanding of the core principles, technologies, and applications associated with Industry 4.0. This knowledge equips them to better appreciate the ongoing transformations in the manufacturing sector.
2. **Increased Awareness of Emerging Technologies:**
The talk introduced attendees to cutting-edge technologies such as IoT, AI, robotics, and big data analytics. Participants now have a clearer idea of how these innovations can be leveraged to improve efficiency and productivity in manufacturing.
3. **Knowledge of Real-World Applications:**
Through practical examples and case studies, the speaker demonstrated how Industry 4.0 is being applied in various industries. This helped participants connect theoretical concepts with real-world scenarios, deepening their understanding of practical implementations.
4. **Identification of Challenges and Solutions:**
The discussion on common challenges associated with adopting Industry 4.0, along with proposed solutions, provided participants with insights on how to approach these issues in their own contexts. This is particularly beneficial for industry professionals looking to integrate new technologies into their operations.
5. **Motivation for Skill Development:**
The emphasis on continuous learning and adaptation encouraged participants, especially students, to upskill themselves in areas like data analytics, programming, and automation. This aligns with the growing demand for tech-savvy professionals in the evolving manufacturing landscape.
6. **Networking Opportunities:**
The event facilitated interaction between students, faculty members, and industry professionals, fostering collaboration and networking. This could lead to future partnerships, internships, and knowledge exchange.
7. **Inspiration for Future Projects and Research:**
The insights shared during the talk may inspire students and researchers to explore new projects related to Industry 4.0 technologies. This can lead to innovative solutions and contributions to the advancement of smart manufacturing practices.
8. **Positive Feedback and Requests for More Sessions:**
The success of the event, as reflected in the positive feedback, has created a demand for more expert talks and workshops on related topics. This indicates a strong interest in continuous learning and professional development among the participants.

Summary of Program:

An expert talk on "Industry 4.0: The Future of Manufacturing" was organized. The session, led by Dr. Ravishankar Rai, aimed to provide insights into the latest advancements and technologies transforming the manufacturing sector.

The talk introduced participants to the concept of Industry 4.0, focusing on the integration of smart technologies like the Internet of Things (IoT), Artificial Intelligence (AI), robotics, big data analytics, and cloud computing. Practical examples and case studies illustrated how these technologies are applied across industries to enhance productivity, efficiency, and flexibility in manufacturing processes.

Participants also learned about the challenges associated with adopting Industry 4.0, such as data security and skill gaps, along with potential solutions to address these issues. The session encouraged

professionals and students to embrace continuous learning and upskilling to adapt to the evolving technological landscape.

The event was attended by [Insert Number] participants, including students, faculty, and industry professionals, who engaged actively during the Q&A session. The positive feedback received highlights the success of the program, sparking interest in organizing more such knowledge-sharing sessions in the future.

In conclusion, the expert talk served as an informative and motivating platform for participants to understand the importance of Industry 4.0, its benefits, challenges, and the skills needed to thrive in the future of manufacturing.

Photographs :



Felicitation of Prof. Dr. Ravi Rai by Prof. K.D.Jadhav



Introduction of Guest Speaker by Ms, Nandini Patil



Dr. Ravi Rai sharing information About Industry 4.0 Concept



Beneficiary students of F.Y.B.Tech

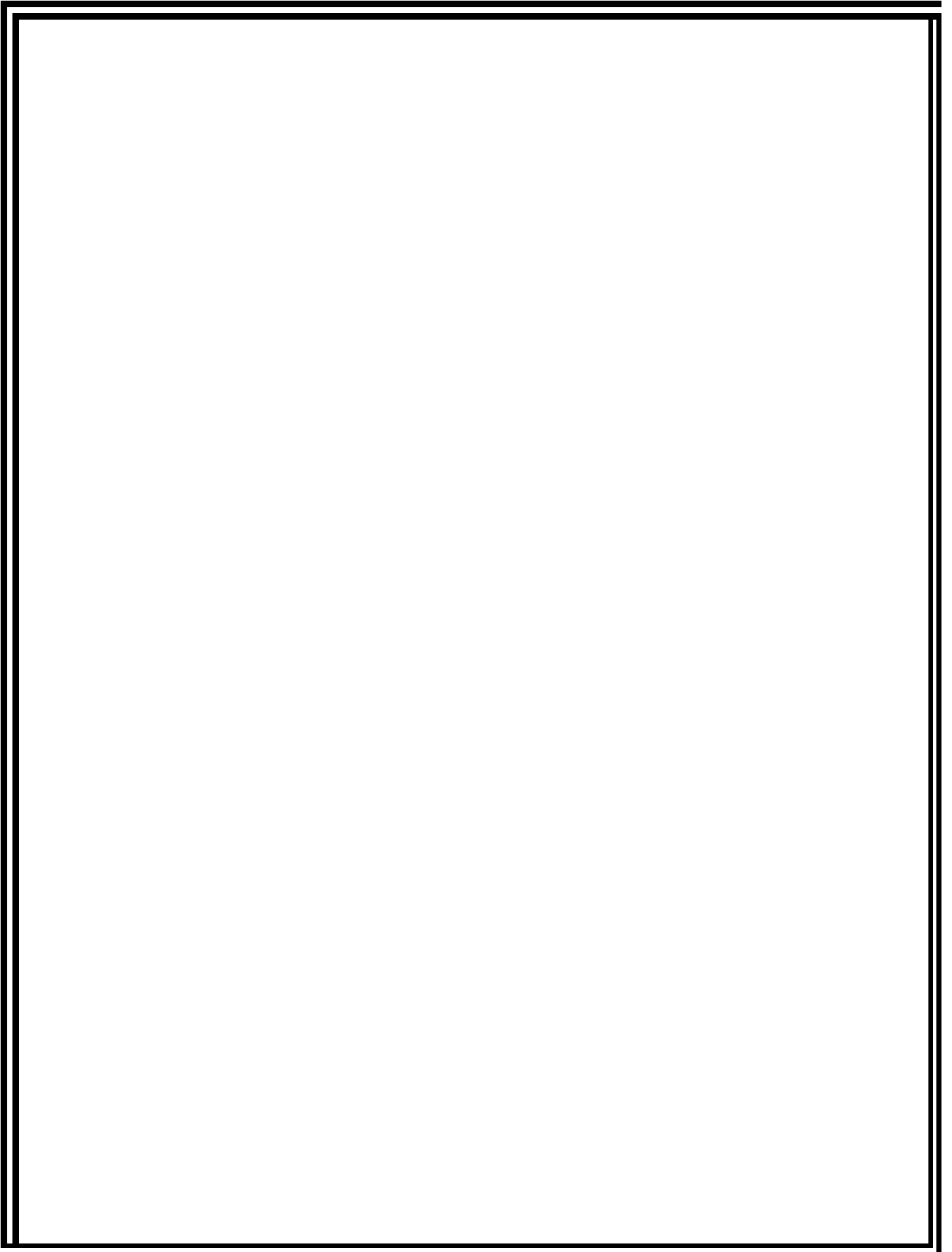
Subhash

Dr. Subhash Gautam
Assistant Professor
Event Coordinator (ESH)

Prof. J. M. Shah
HOD, ESH

Prof. (Dr.) Amol D Potgantwar
Principal SITRC







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CGPA Score 3.11



INDUCTION PROGRAMME F.Y. B.TECH

Department of Engineering Sciences & Humanities

Group : B (Mech Semi Hall)

A.Y. 2024-2025

DATE : 20 Sept 2024

Name of Event : Industry 4.0 : The future of Manufacturing

SR. NO.	NAME OF THE STUDENT	BRANCH	SIGNATURE
1	shelke Avishkar	Electrical	<u>Shelke</u>
2	Atharv Manoj Kothawade	E & TC	<u>Atharv</u>
3	Aditya Bhaskar Sonar	E & TC	<u>Aditya</u>
4	Nitesh R Chaudhari	CE	<u>Nitesh</u>
5	Chaitanya H Desale	ITT	<u>Chaitanya</u>
6	Sakshi Anurag Kulkarni	E & TC	<u>Sakshi</u>
7	Velika Dattatray Ingole	C.S	<u>Velika</u>
8	Darshita Sanjay Dohikar	C.E	<u>Darshita</u>
9	VRUSHALI SHIVAJI WAGRE	C.E	<u>VRUSHALI</u>
10	Ruchita Jaywant Dhongda	Electrical	<u>Ruchita</u>
11	Vaibhavi Umesh Dhodi	Mechanical	<u>Vaibhavi</u>
12	Shraddha Manoj Khairnar	A&R	<u>Shraddha</u>
13	Palak Bharat Sonawane	electrical	<u>P.B. Sonawane</u>
14	Kshirsagar Utkarsha Dattatray	E & TC	<u>Kshirsagar</u>
15	Vaibhav Snehal Navnath	E & TC	<u>Vaibhav</u>
16	Poonam Zankar	A & R	<u>Poonam</u>
17	Durva Prakash Bener	A and R	<u>Durva</u>
18	Chavan Sakshi Narayana	Mechanical	<u>Chavan</u>
19	Mrunali Waghade Sonawane	Civil	<u>Mrunali</u>
20	Vidya Rajendra Tupe	E & TC	<u>Vidya</u>
21	Bhakti Kisan Suryawanshi	AIML	<u>Bhakti</u>
22	Ragini Prashant Patil	AIML	<u>Ragini</u>
23	Gayatri Satish Vadkar	E & TC	<u>Gayatri</u>
24	Sugandhi Sagar Patil	AIML	<u>Sugandhi</u>
25	Sanchi Sandip Bhakare	E and TC	<u>Sanchi</u>
26	Ashwini Ashish Kolhe	Mechanical	<u>Ashwini</u>
27	Sejal Vinod Waghade	Mechanical	<u>Sejal</u>
28	Sammudhi Chandrabhan Jejurkar	Mechanical	<u>Sammudhi</u>
29	Shalini Balram Mahipal	CE	<u>Shalini</u>
30	Rutuja Deepak Telang	AI.ML	<u>Rutuja</u>
31	Mayuri Uttam Panpatil	AI.ML	<u>Mayuri</u>
32	Sakshi Samadhan More	AI.ML	<u>Sakshi</u>
33	Mrunal Dipak Athur	C.S	<u>Mrunal</u>
34	Sharvari Rafesh Gajbhiye	C.E	<u>Sharvari</u>
35	Hrutuja Mane	ENTC	<u>Hrutuja</u>
36	Sneha Darade	mechanical	<u>Sneha</u>
37	Renuka Sanjay Kolhe	AI.ML	<u>Renuka</u>
38	sneha madhavdo Pawar	ENTC	<u>Sneha</u>
39	Asmita Sangram Kunte	ENTC	<u>Asmita</u>

40	Purva Sanjay Pawar	E&TC	Fair
41	Sayali Sandip Kshirsagar	AIML	Shalika
42	Shendkar Vaishnavi Anjaneshwar	A&R	shendkar v.d
43	Azga Rahul Debadwar	A&R	Vahar
44	Aarti Ashok shid	C.E	Ashij
45	Jondhale Shubham Shivaji	AI&DS	Shubham
46	Mayur Arjun Datar	AI&DS	Shalika
47	Ashwary Sudhakar Khachane	AI&DS	Ashwary
48	Shubham B. Raut	AI&DS	Shubham
49	Karan Santosh Klogh	AI&DS	Karand
50	Ashwajeet Sandesh Tadhar	E&TC	Shubham
51	Rushikesh Sunilosh Kogave	Mechanical	Rushikesh
52	Nikhil Nimba Patil	electrical	Nikhil
53	Hansheer Sagar Salre	Mechanical	Hansheer
54	Aarvan Pradip Deore	electrical	Aarvan
55	Tejas Bhatu Patil	Mechanical	Tejas
56	Saurav Vilas Aney.	Civil	Saurav
57	Kawane Mayur Sunil	E&TC	Amayur
58	Kartik Anjaneshwar Bodage	ER TC	Kartik
59	Pratik Vijay Badewad	ER TC	Pratik
60	Yash parashram Kharche	Electrical	Yash
61	Mohit Mohan Patil	E&TC	Mohit
62	Kausheeb Bharat Solanke	E&TC	Kausheeb
63	Kalpesth Satish Chavan	C.E.	Kalpesth
64	ASKAND ABHAY GANESH	MECHANICAL	Askand
65	OM Prabhakar Borse	Civil	Om
66	Aditya Ramnath Bhagure	Civil	Aditya
67	Raj Chavan	Civil	Raj
68	Pranav Dugaje	Civil	Pranav
69	Om Ganesh Pawar	Civil	Om
70	Vijay Rajesh Pruning	Civil	Vijay
71	Sachin Dattatray Alwite	Civil	Sachin
72	Vaibhav Guresh Sapanar	AIML	Vaibhav
73	Sarthak Anand Sapanar	AIML	Sarthak
74	Rashmi Anjaneshwar Sapanar	mechanical	Rashmi
75	Allen Anil Sutar	AIML	Allen
76	Sankar Vikram Sonawane	Civil	Sankar
77	Rahul Kailas Sapanar	Civil	Rahul
78	Rushikesh Rajendra patil	electrical	Rushikesh
79	Pranav Anjaneshwar Sapanar	E&TC	Pranav
80	Dhale Rohit Popat	E&TC	Dhale
81	Gayke Pranav Bhawsabeb	A&R	Gayke
82	Swapnil Shinde	mechanical	Swapnil
83	Suryawanshi Pankaj Dattatray	mechanical	Suryawanshi
84	Ulagh Prathmesh Baburabeb	mechanical	Ulagh
85	Sonawane Vivek Sanjay	mechanical	Sonawane
86	Aadesh Sunil Thombare	E&TC	Aadesh
87	Sachin Anand Tadar	mechanical	Sachin
88	Hitesh Ganesh Badswar	Mechanical	Hitesh
89	Pratik Teemod Undare	AI and ML	Pratik
90	Atharva Vijayprao Jaysinghar	mechanical	Atharva
91	Mukunda Bharat Patil	mechanical	Mukunda
92	Gore Mayank Sagar	Mech	Gore
93	Shubham Shivaji Jaiswal	C.E	Shubham
94	Mayuresh Guresh Baxal	A & R	Mayuresh
95	Apurv Jeyanath Pawar	CE	Apurv
96	Rohit Anil Bagul	I.T	Rohit
97	Aditya Shivaji Chavan	electrical	Aditya

156	Renay Harreshkumar Dhone	E & TC	Renay
157	Sandesh Subhash Jadhav	A & R	Sandesh
158	Nakush Kiran Patil	A & R	Nakush
159	Samadhan mubhindragadhav	civil	Samadhan
160	Hemant Dattatray Dabe	Mech	Hemant
161	Ajay Kishor Pawar	E & TC	Ajay
162	Aditya Pramod wanjare	E & TC	Aditya
163	Gaurav Jagdish Bunde	AR	Gaurav
164	Aditya Gajendra Pawar	E & TC	Aditya
165	Rohit Kankar Kankar	AR	Rohit
166	Poojeshi Kunal Dinech	A & R	Poojeshi
167	Tadha Omkar Prabhinath	A & R	Tadha
168	Prisax Sanket Ankarasingh	AIDS	Prisax
169	Shridham Mohan Joshi	AIDS	Shridham
170	Anuj Rathod	C.S	Anuj
171	maheesh kakade	Electrical	maheesh
172	shirprasad waghmare	CE	shirprasad
173	Aditya Sandip Waghmare	IT	Aditya
174	Aditya Anil Shejul	A & R	Aditya
175	Prince yadav	Mechanical	Prince
176	Avinash Medhu	AI & DS	Avinash
177	Bhagat Omkar	AI & DS	Bhagat
178	Rupesh U. Dhole	IT	Rupesh
179	Akash Kumbhade	Electrical	Akash
180	Abishik Kharde	Electrical	Abishik
181	Kalpesh Nagarkar	AR	Kalpesh
182	Pagar Chaitanya	Electrical	Pagar
183	Yashkesh Bhoirane	(Civil)	Yashkesh
184	Atharva Lage	Mech	Atharva
185	Bhaidar Subhash Jadhav	Electrical	Bhaidar
186	Ashish sanjay Panchras	A & R	Ashish
187	om sukdev Thorat	Mech	om Thorat
188	Tanvir Mujab Kadri	AI & DS	Tanvir
189	Idari Nikhil Babu	C.E	Idari
190	Kaash Rohit Bhagwan	C.E	Kaash
191	Ankit Bhoule	Mech	Ankit
192	Bhawanji mande	Mech IT	Bhawanji
193	Abhishek Ambhore	Mech/IT	Abhishek
194	Avade Karan	Mech	Avade
195	Laxman Mehetre	CS	Laxman
196	Narshad Kale	C.E	Narshad
197	Suraj vishwanath Sabne	C.E	Suraj
198	Parat Subhash Jadhav	IT	Parat
199	Atharva Dikshu Thete	A & R	Atharva
200	Ranaw Rajesh Suryawanshi	C.E	Ranaw
201	Rohimesh Kishor Chaudhary	Mechanical Eng	Rohimesh
202	Sachin Jadhav	AI & DS	Sachin
203	Raj Erande	Civil	Raj
204	Aniket Yadav	C.S	Aniket
205	Soham Sanjay Walke	A.I.D.S.	Soham
206	Sarthak Dhananjay Gite	A.I.D.S	Sarthak
207	Vaibhav Deshmukh	AI/DS	Vaibhav
208	Dhananjay shyam Kumavat	AIDS	Dhananjay
209	om Shinde	AIDS	om
210	Gopale Yash Sandip	Electrical	Gopale

98	Jinde Om Bhushab	Electrical	GPB
99	SMIRAT SANJAY KOKULWAR	AIML	GPB
100	Boxse gadhesh Raurkisan	ENTC	yellow
101	Kranav B. Ahire	AI & ML	White
102	Manthan Ritesh Raut	AI & ML	GPB
103	DHRUV P Patel	AI & ML	GPB
104	Shantanu Ramesh Jundre	Electrical	GPB
105	Nandan Patel	C.E	GPB
106	Kalpesh Pawar	C.E	GPB
107	Aditya Anshu	AI & DS	GPB
108	Prathamesh Sontake	CE	GPB
109	Deviandan Sanjay Wadke	CE	GPB
110	Chetan Ajeet Bidwe	AI & ML	GPB
111	Pingle Koushik Sahabji	G.F	GPB
112	Daund Krishna Bhushab.	computer.	GPB
113	Pravin Avinash Raut	ENTC	GPB
114	Sahil Rajaram Patil	ENTC	GPB
115	Vishendra Nandan Patil	ENTC	GPB
116	Destiny Sanku Bepi	AI/DS	GPB
117	Sahay Chandan Kaur	AI/DS	GPB
118	Naishan Patil	CS	GPB
119	Mayank Sunde	Automa	GPB
120	Chandrakant Ganesh	Robotic	GPB
121	Ritesh Chait	AI & ML	GPB
122	Kamal Deok	mechanical	GPB
123	bhavesk mali	ELECTRICAL	GPB
124	Snehal Sonawane	IT	GPB
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