



Rajarajeswari College of Engineering

(An Autonomous Institution, Affiliated Visvesvaraya Technological University, B
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Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

Department of Robotics and Automation



Report on "Industrial Visit"- 2024

NAME OF THE DEPARTMENT: Department of Robotics and Automation

1. Type Event : Industrial Visit 2024
2. Venue : Janatics Experience Centre, Bengaluru, Karnataka 560027
3. Date of the programme : Thursday, 05th December 2024
4. Time : 10.00am to 2.00pm
5. Staff Co Ordinator : Dr. M.Karthikeyan,
Professor and Deputy Controller of Examinations
Department of Robotics and Automation
Rajarajeswari College of Engineering
Dr. Satheesha V
HOD R&A, Associate Professor
Department of Robotics and Automation
Rajarajeswari College of Engineering
6. Students attended : 5th Semester students of R&A Department
7. Outcome of the programme:
Students gained information about the following:

During our industrial visit to Janatics India Pvt. Ltd., we gained valuable insights into their advanced manufacturing processes and cutting-edge technologies used in pneumatic systems. Janatics, established in 1990, is a leading manufacturer of pneumatic components and automation products, providing solutions for industries such as automotive, manufacturing, and packaging. We observed the company's commitment to producing high-quality valves, actuators, filters, and regulators, along with their focus on innovative technologies to meet industry demands.

We were particularly impressed by Janatics' integration of **IoT for Predictive Maintenance**, allowing real-time monitoring of pneumatic systems via sensors and cloud platforms. This technology enhances system reliability by predicting failures and optimizing maintenance schedules. Additionally, we learned about their development of **Energy-Efficient Pneumatic Components**, which reduce energy consumption, making systems more sustainable and cost-effective.

The visit also highlighted their use of **Smart Sensors and Control Systems** for precise operation, with sensors monitoring pressure, flow, temperature, and position to provide accurate feedback for automated control. We saw firsthand how **3D Printing** is utilized to create complex, customized pneumatic components, speeding up prototyping and reducing lead times. Lastly, the integration of **Electropneumatic Technology** was demonstrated, combining electrical control with pneumatic systems to improve efficiency, precision, and reduce human error in industrial operations.



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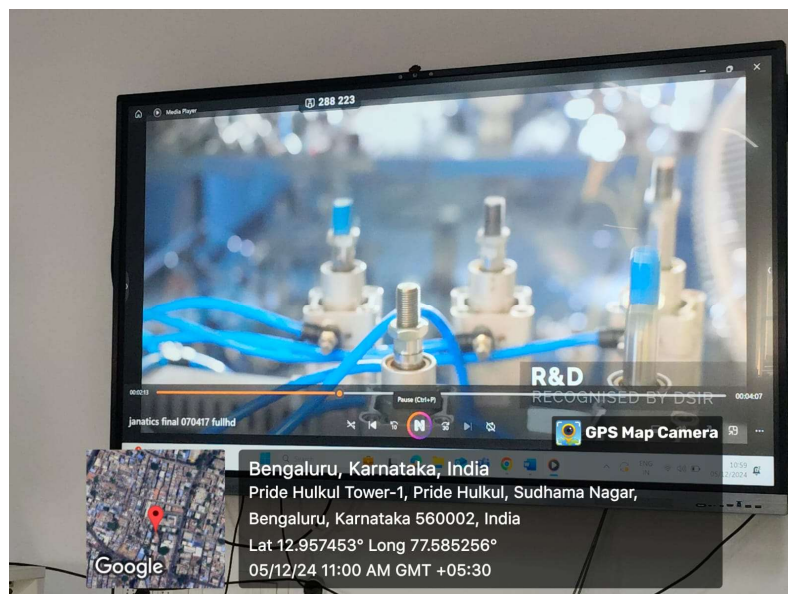
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Industrial Visit Photos



Mr.Mahendra, Senior Business Development Executive, Janatics India Pvt. Ltd explain about the company



Visuals about the Janatics India Pvt. Ltd



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Mr.Mahendra, Senior Business Development Executive , Janatics India Pvt. Ltd explain the Pneumatic components to the students



Mr.Mahendra, Senior Business Development Executive , Janatics India Pvt. Ltd explain the Pneumatic components to the : Dr. M.Karthikeyan, Professor and Deputy Controller of Examinations and Dr Satheesha V, HOD R&A, Associate Professor, Department of Robotics and Automation



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Mr.Mahendra, Senior Business Development Executive , Janatics India Pvt. Ltd explain the IoT based workstation of Pneumatic system to the students



Group photo with Mr. Subramanya Bhat , General Manager and resource persons of Janatics India Pvt. Ltd

- Report prepared by

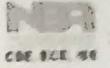
Dr.M.Karthikeyan, Dy. CoE and Professor, R&A



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#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560074



Department of Robotics and Automation

1. Type of Event : Industrial visit- JANATICS Experience Centre, Bengaluru
2. Faculty Coordinator : Dr.Satheesha.V., Associate Professor and HOD R&A
Dr.M.Karthikeyan, Professor and Dy. CoE
Department of Robotics R&A and Automation
3. Date of the programme : Thursday, 05th December 2024

SI No	USN	Nam of the Students	Students Sign
1.	1RR22RA002	AKARSH KASHYAP	Akp
2.	1RR22RA003	AKSHAYE KANNA	Aka
3.	1RR22RA004	BHUVANESHWARI	BH
4.	1RR22RA005	CHARAN GOWDA	Charan
5.	1RR22RA006	DHANUSH H	Dhanush
6.	1RR22RA007	GNANASHREE N V	Gnanashree NV
7.	1RR22RA008	HEMANTH P	ABSENT
8.	1RR22RA009	INDRESH A	ABSENT
9.	1RR22RA010	JAFFER A	Jaffer
10.	1RR22RA011	KANISHK J	Kanishk
11.	1RR22RA012	KUMARSWAMY K	Kumar
12.	1RR22RA013	LIKITH K	ABSENT
13.	1RR22RA014	LIKITH M R	Likith MR
14.	1RR22RA016	PRAJWAL NOOLA	P.N.
15.	1RR22RA017	PREM KUMAR G	P.K.G.
16.	1RR22RA018	RANJITHA P	Ranjitha
17.	1RR22RA019	ROHITH V GOWDA	Rohith
18.	1RR22RA020	S R NISHWATH	Hirsh
19.	1RR22RA021	SAKSHI	Sakshi
20.	1RR22RA023	SHREYAS S RAI	Shreyas
21.	1RR22RA024	SHRIHAARIKA K	Shrihaarika
22.	1RR22RA025	SOUJANYA	Soujanya
23.	1RR22RA026	SPOORTHI	Spoorthi
24.	1RR22RA027	SUJAL B	ABSENT



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SL NO	USN	NAME OF THE STUDENTS	Students Sign
25	1RR22RA028	TANZEEM	
26.	1RR22RA029	UDAY L D	UD
27.	1RR22RA030	VISHAL	-N.Swamy
28.	1RR23RA400	ANUSH K M	ABSENT
29.	1RR23RA401	GOWRI T R	
30.	1RR23RA402	NAVYA SHREE V S	
31.	1RR23RA403	SHASHANK H M	ABSENT

Staff Coordinator 5/12/24

HOD-R&A 05/12/24
Professor & Head
Dept. of Robotics and Automation Engg.
RajaRajeswari College of Engineering
Bengaluru-74.