XAVIER INSTITUTE OF ENGINEERING
Mahim, Mumbai 400016
Department of Information Technology
(NBA Accredited)
(Approved by AICTE, Govt. of Maharashtra and Affiliated to University of Mumbai)

13th March, 2023

NOTICE

This is to inform all the students that a Poster Presentation on **"Applications of Automata Theory"** of the class SEIT is scheduled by the department of Information Technology on **Monday, 3rd April, 2023**. Attendance is compulsory.

Kindly follow the presentation order as shown below.

Group 1 to 7: 1:30PM to 2:30PM

Group 8 to 13: 3:30PM to 4:30PM

Venue: LH1

Note: *Top 3 groups will be awarded with a cash prize.*

19/03/23

Ms. Jyotsna More

(Subject In-charge)

Ms. Meena Ugale

(HOD I.T Dept)

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Title of the event: Poster Presentation on Application of Automata

Event Date / Time: 3rd April, 2023 / 1:30 PM to 4:30 PM

Event Coordinators: Prof. Jyotsna More

Guest of Event (Judges): Prof. Amit Narote and Prof. Sushama Khanvilkar

No. of Participants: 64/67 **Class/Semester:** SE-IT/IV

Objectives:

To understand the concept of the Applications of Automata, consider that automata can be used to automate repetitive tasks that would be time-consuming or error-prone for humans to perform. Additionally, automata can be used to design efficient algorithms for solving problems in various domains, such as AI, optimization, and machine learning.

Description:

The event, coordinated by Prof. Jyotsna More, was based on the Applications of Automata. Prof Jyotsna More introduced the judges with the participants. Event took place on 3rd April, 2023 from 1:30 to 4:30 PM in LH1 of Xavier Institute of Engineering, Mahim, Mumbai. There were 64 participants from the SE-IT department who participated in this event, divided into 13 groups with 5 to 6 members in each group. The event started at 1:30 PM, and each group demonstrated their presentation on the application of automata in front of the judges.

The topics of presentation were based on the application of automata, such as the application of Finite Automata in Game Theory, Turing Machines in Artificial Intelligence, PDA in the

implementation of stack etc. Each group was given 5 to 10 minutes to present their topic. After the presentation, the judges of the event asked some questions related to the topic to each group.

Overall, every group performed their poster presentation very well, and at last, event ended by vote of thanks to all by Prof. Jyotsna More. The event was successfully done.

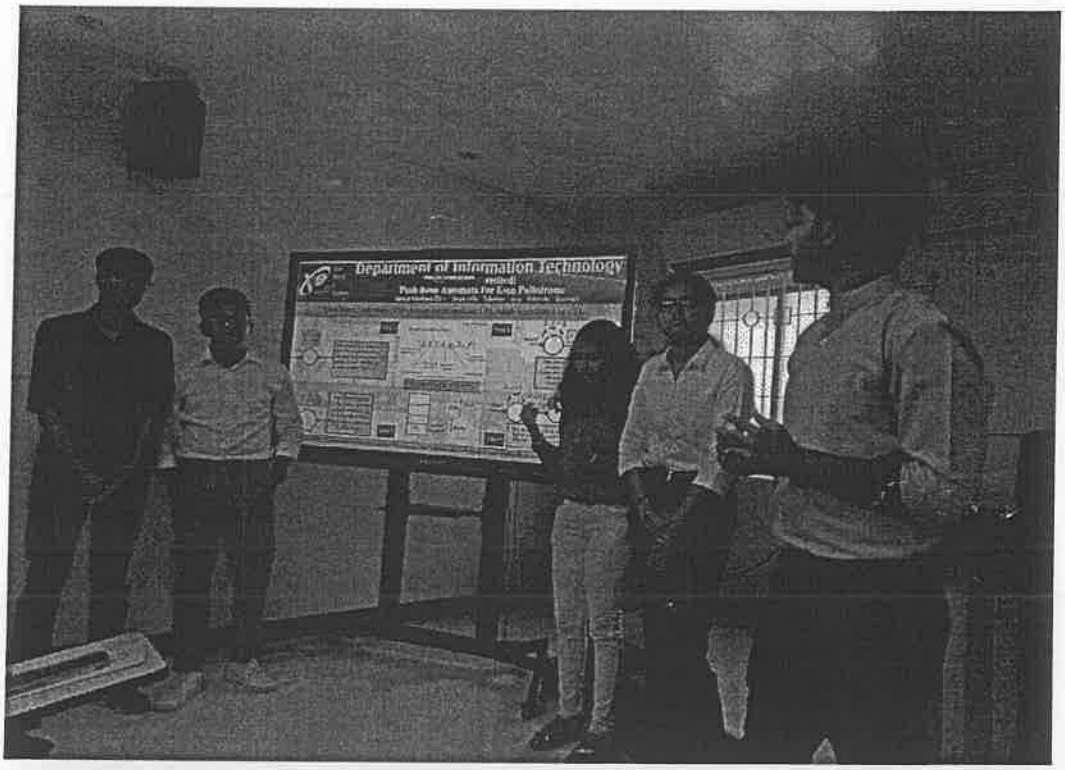
The winners of the poster presentations are:

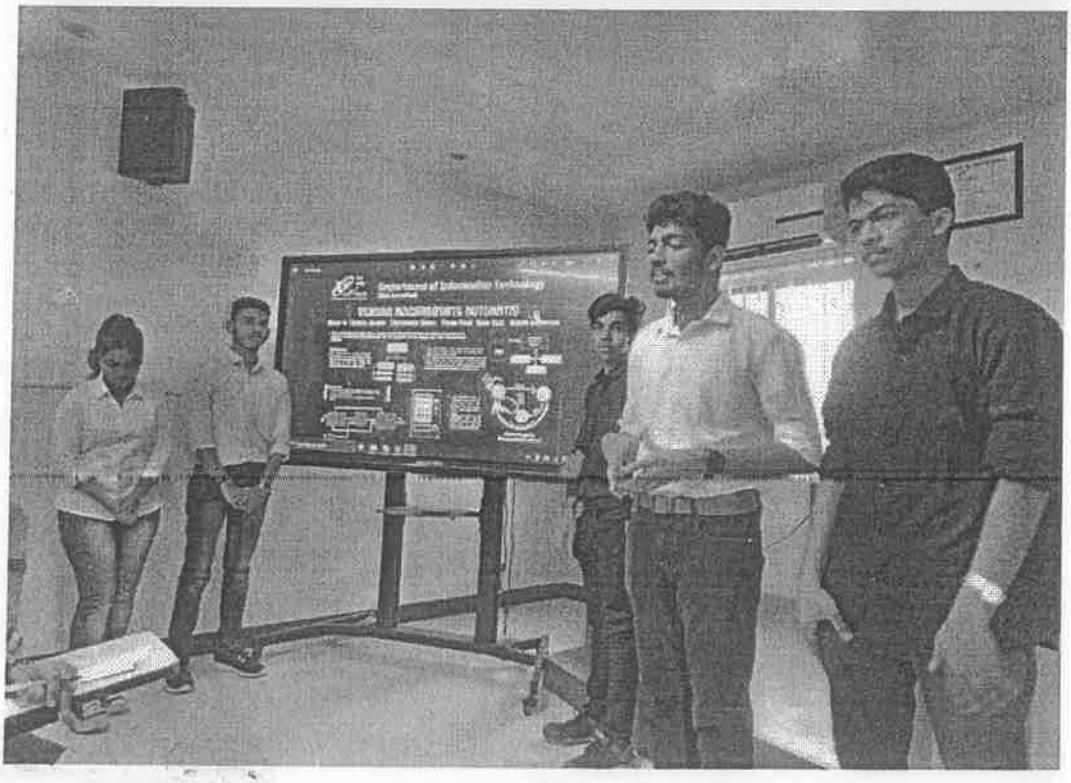
Group No.	Roll No.	Name of the student
Group 5	12	Divyajothi Raja
	18	Saksham Gupta
	58	Gauresh Somwanshi
	35	Ajay Pandey
	43	Rakshita Sarap
Group 10	32	Ajay Kurien
	28	Jayesh Kakade
	68	Brice Pimenta
	24	Yash jaiswar
	55	Pratham Singh
Group 4	21	Shreya Jadhav
	60	Prathamesh Vaidya
	33	Piyush Mane
	40	Saish Rane
	65	Gaurav Kashelkar

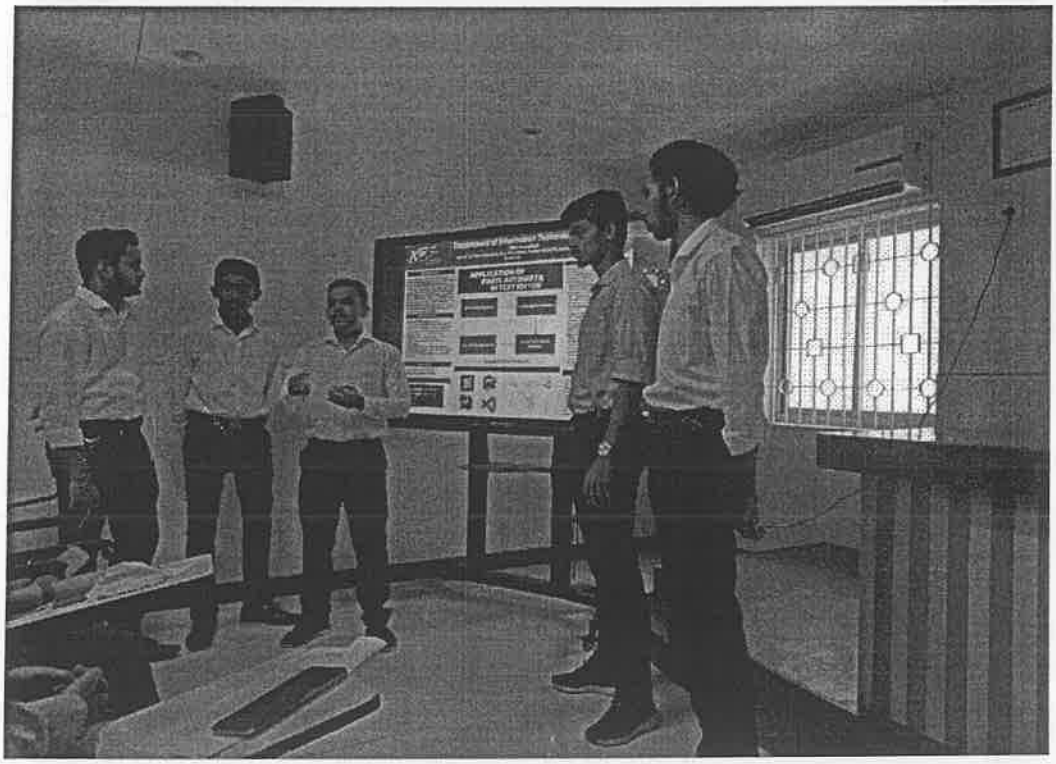
POs achieved: PO1, PO2, PO8, PO9, PO10, PO12

PSOs achieved: PSO1, PSO2

Event Photos:







Ms. Jyotsna More	**Mr. Meena Ugale**	**Dr. Y.D. Venkatesh**
Event Coordinator	**HOD-IT**	**Principal**

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Topics for Poster Presentation

Group No.	Roll No.	Name of the student	Topic Name
1	2	Aditiya Nalawade	Application Of Moore And Mealy Machine Combinational Circuits
	3	Aniket Badgujar	
	11	Rajaram Desai	
	38	Piyush Singh	
	7	Saahil Chaurasia	
2	57	Vivek Singh	Application Of Finite Automata In Subway System
	27	Ronak Joshi	
	14	Vedant Gharat	
	61	Khizar Shaikh	
	46	Fradeen Shaikh	
3	39	Lekha Pulavarthy	Application Of Finite Automata In Game Theory
	8	Parth Chaudhary	
	56	Shreya Singh	
	54	Kunal Singh	
	70	Nelson Kolas	
4	21	Shreya Jadhav	Aplication Of Finite Automata In Vending Machine
	60	Prathamesh Vaidya	
	33	Piyush Mane	
	40	Saish Rane	
	65	Gaurav Kashelkar	
5	12	Divyajothi Raja	Pda for Palindrome
	18	Saksham Gupta	
	58	Gauresh Somwanshi	
	35	Ajay Pandey	
	43	Rakshita Sarap	
6	25	Saket Jha	Turning Machine For Implementing Robotics Applications
	45	Akib Sayed	
	6	Vedant Chaudhari	
	67	Sanuel Pallikonda	
	44	Aditi Satam	
7	23	Rohan Jaiswal	Application Of Grammar In Language Translation
	66	Siddhi Oswal	
	47	Anas Shaikh	
	62	Neha Yadav	
	16	Harshvardhan Gupta	
8	3	Siddhi Awlegaonkar	Application Of Finite Automata For Implementing Robotics Applications.
	59	Ishan Vaghela	
	41	Shivam Sahu	
	17	Pratik Gupta	
	36	Mangesh Pangam	
9	26	Khushal Jogi	Application Of Regular Expressions In Pattern Matching
	9	Jovan Creado	
	19	Sejal Gupta	
	48	Mohtahsim Shaikh	
	34	Vedang Nijap	
10	32	Ajay Kurien	Application Of Finite Automata In Text Editor
	28	Jayesh Kakade	
	68	Brice Pimenta	
	24	Yash Jaiswar	
	55	Pratham Singh	
11	51	Aditiya Shinde	Pda For Solving The Tower Of Hanoi Problem
	29	Riya Kamble	
	22	Harshit Jain	
	50	Shubham Sharma	
	52	Siddharth Shinde	
12	49	Harsh Sharma	Application Of Finite Automata In Pattern Recognition
	42	Anshu Sakhare	
	13	Aditya Ghadge	
	4	Mayuresh Balsaraf	
	15	Salil Gujar	
	20	Steve Hetya	
13	63	Sacchidanand Yadav	Turing Machine For AI Application
	10	Rupesh Darpe	
	37	Shruti Parade	
	53	Sumedh Shinde	
	61	Sumit Vishwakarma	
	64	Cerejo Belona	

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Attendance Record

Event: Poster Presentation on " Applications of AT"

Academic Year : 2022-2023 **Class/Sem: SE/III Subject: Automata theory**

Subject Code: ITC404

Date: 3/04/2023 **Time: 1:30-2:30 & 3:30-4:30**

Sr. No.	GR No.	Roll No.		Sign
1	202103033	2	NALAWADE ADITYA NITIN RASHMI	
2	202103002	3	AWLEGAONKAR SIDDHI NANDKISHOR	
3	202103003	4	BADGUJAR ANIKET DINESH ROHINI	
4	202103004	5	BALSARAF MAYURESH BHARAT SHAILA	
5	202103005	6	CHAUDHARI VEDANT VIJAY CHAUDHARI	
6	202103006	7	CHAURASIA SAAHIL SUNILKUMAR SEEMA	
7	202103007	8	CHOUDHARY PARTH RAJENDRA HARSHADA	
8	202103008	9	CREADO JOVAN MARLON CREADO CAROL	
9	202103009	10	DARPE RUPESH SANJAY ROSHNI	
10	202103010	11	DESAI RAJARAM DILIP DISHA	
11	202103011	12	DIVYAJOTHI RAJA ARASAKUMARI	
12	202103012	13	GHADGE ADITYA RAJENDRA GHADGE MANGAL	
13	202103013	14	GHARAT VEDANT SAGAR	
14	202103014	15	GUJAR SALIL SANJAY GUJAR SANJANA GUJAR	
15	202103015	16	GUPTA HARSHVARDHAN SACHINKUMAR	
16	202103016	17	GUPTA PRATIK RAMKIRAT GUPTA CHAMPA	
17	202103017	18	GUPTA SAKSHAM ARUN GUPTA ANITA GUPTA	
18	202103018	19	GUPTA SEJAL GYANCHAND GUPTA SANGEETA	
19	202103019	20	HETYA STEVE SANJEEV HETYA SHILPA HETYA	
20	202103020	21	JADHAV SHREYA PRALHAD JADHAV	
21	202103021	22	JAIN HARSHIT OMPRAKASH JAIN KUSUM JAIN	
22	202103022	23	JAISWAL ROHAN FULCHAND JAISWAL REKHA	
23	202103023	24	JAISWAR YASH DHARMENDRA JAISWAR ARTI	
24	202103024	25	JHA SAKET SANJAY JHA RANJANA JHA	
25	202103025	26	JOGI KHUSHAL YALLALINGA JOGI ANURADHA	
26	202103026	27	JOSHI RONAK DEEPAK JOSHI JYOTI JOSHI	
27	202103027	28	KAKADE JAYESH DILIP KAKADE SARIKA	
28	202103028	29	KAMBLE RIYA PANDURANG KAMBLE PALLAVI	
29	202103031	32	KURIEN AJAY SHAJI KURIEN RAJASREE KURIEN	
30	202103032	33	MANE PIYUSH BHANUDAS PUSHPA	
31	202103034	34	NIJAP VEDANG RUPESH NIJAP RIYA NIJAP	
32	202103035	35	PANDEY AJAY SURESH PANDEY URMILA	
33	202103036	36	PANGAM MANGESH KRISHNA PANGAM	
34	202103037	37	PARADE SHRUTI MILIND PARADE JANHAVI	
35	202103054	38	SINGH PIYUSH PRAVIN KUMAR SINGH	
36	202103038	39	PULAVARTHY LEKHA RAMAKRISHNA	
37	202103039	40	RANE SAISH KISHOR RANE KIRTIDA RANE	
38	202103040	41	SAHU SHIVAM MOOLCHANDRA SAHU	
39	202103041	42	SAKHARE ANSHU PRAKASH SAKHARE VARSHA	

40	202103042	43	SARAP RAKSHITA RAJENDRA RASIKA	
41	202103043	44	SATAM ADITI	
42	202103044	45	SAYED AKIB ABDUL SAMAD SAYED NAZNEEN	
43	202103045	46	SHAIKH FARDEEN NASIR SHAIKH SHABINA	
44	202103046	47	SHAIKH MOHAMMAD ANAS ABDUL MANNAN	
45	202103047	48	SHAIKH MOHTASHIM	
46	202103048	49	SHARMA HARSH RAMUGRAH SHARMA MAMTA	A
47	202103049	50	SHARMA SHUBHAM RAVINDRA SHARMA AARTI	
48	202103050	51	SHINDE ADITYA RAJENDRA SUVARNA	
49	202103051	52	SHINDE SIDDHARTH GANPATI SHINDE	
50	202103052	53	SHINDE SUMEDH VIJAY SHINDE VAISHNAVI	
51	202103053	54	SINGH KUNAL LAL SINGH NIRJA SINGH	
52	202103055	55	SINGH PRATHAM RAJESH SINGH RANJANA	
53	202103056	56	SINGH SHREYA RAKESH SINGH NEELAM SINGH	
54	202103057	57	SINGH VIVEK	
55	202103058	58	SOMWANSHI GAURESH SANTOSH SOMWANSHI	
56	202103059	59	VAGHELA ISHAN BHADRESH VAGHELA ALPA	
57	202103060	60	VAIDYA PRATHAMESH ASHOK VAIDYA	
58	202103061	61	VISHWAKARMA SUMIT LALLAN	
59	202103062	62	YADAV NEHA VINAYKUMAR YADAV PRAMILA	A
60	202103063	63	YADAV SACCHIDANAND HARIOM	
61	2022032001	64	CEREJO BELONA CEREJO	
62	2022032002	65	KASHELKAR GAURAV PREMKUMAR RAJASHRI	
63	2022032003	66	OSWAL SIDDHI AMIT SAPNA OSWAL	
64	2022032004	67	PALLIKONDA SAMUEL RAMESH RAMA	
65	2022032005	68	PIMENTA BRICE FREDY LAILA PIMENTA	
66	2022032006	69	SHAIKH KHIZAR DR. ABDULRAZZAQUE	
67	2022032007	70	NELSON KOLAS CELIN	

8/04/22

Subject Incharge: Ms. Jyotsna More

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Contents for Poster Preparation "Application of Automata Theory"

- **Title:**
- **Introduction:**
- **AT concepts used:**

  (Write which concepts have been used in the application such as RE\ DFA\ NFA\ CFG\ RG\PDA\TM)

- **Description: (describe how the AT concept is used in the respective application domain).**
- **Conclusion:**
- **References:**

Subject Incharge

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Rubric Sheet for Poster Presentation

Subject Name: Automata Theory (ITC404)

Class / Sem SE / IV

Date: 21/04/23

Group No.	Roll No.	Name of the student	Topic Name	Poster content			Poster organization		Delivery		Total
				Clarity of Content	Quality of Content	Significance of topic	Layout and Clarity	Informative and clear topic, purpose and summary	Professional, confident, knowledgeable about topic, engaged with audience	Response to questions	
				5	5	5	5	5	5	5	35
1	2	Aditiya Nalawade	Application Of Moore And Mealy Machine Combinational Circuits	03	03	03	03	03	03	03	21+26=47
	3	Aniket Badgujar									
	11	Rajaram Desai									
	38	Piyush Singh									
	7	Saahil Chaurasia									
2	57	Vivek Singh	Application Of Finite Automata In Subway System	04	04	03	04	04	03	03	25+27=52
	27	Ronak Joshi									
	14	Vedant Gharat									
	61	Khizar Shaikh									
	46	Fradeen Shaikh									
3	39	Lekha Pulavarthy	Application Of Finite Automata In Game Theory	03	03	03	03	03	03	02	27+32=52
	8	Parth Chaudhary									
	56	Shreya Singh									
	54	Kunal Singh									
	70	Nelson Kolas									
4	21	Shreya Jadhav	Aplication Of Finite Automata In Vending Machine	04	05	04	04	04	05	04	30+26=56
	60	Prathamesh Vaidya									
	33	Piyush Mane									
	40	Saish Rane									
	65	Gaurav Kashelkar									
✓5	12	Divyajothi Raja	Pda for Palindrome	04	05	05	05	04	05	04	33+30=63
	18	Saksham Gupta									
	58	Gauresh Somwanshi									
	35	Ajay Pandey									
	43	Rakshita Sarap									
6	25	Saket Jha	Turning Machine For Implementing Robotics Applications	03	03	03	03	03	03	02	20+29=49
	45	Akib Sayed									
	6	Vedant Chaudhari									
	67	Sanuel Pallikonda									
	44	Aditi Satam									
7	23	Rohan Jaiswal	Application Of Grammar In Language Translation	04	05	04	04	04	05	04	30+22=52
	66	Siddhi Oswal									
	47	Anas Shaikh									
	62	Neha Yadav									
	16	Harshvardhan Gupta									
8	3	Siddhi Awlegaonkar	Application Of Finite Automata For Implementing Robotics Applications.	04	04	04	04	04	04	04	28+27=55
	59	Ishan Vaghela									
	41	Shivam Sahu									
	17	Pratik Gupta									
	36	Mangesh Pangam									
9	26	Khushal Jogi	Application Of Regular Expressions In Pattern Matching	03	03	03	03	03	03	02	20+25=45
	9	Jovan Creado									
	19	Sejal Gupta									
	48	Mohtahsim Shaikh									
	34	Vedang Nijap									
✓10	32	Ajay Kurlen	Application Of Finite Automata In Text Editor	04	05	05	05	04	05	04	32+27=59
	28	Jayesh Kakade									
	68	Brice Pimenta									
	24	Yash jaiswar									
	55	Pratham Singh									
11	51	Aditiya Shinde	Pda For Solving The Tower Of Hanoi Problem	04	04	04	04	04	04	04	28+27=54
	29	Riya Kamble									
	22	Harshit Jain									
	50	Shubham Sharma									
	52	Siddharth Shinde									
12	49	Harsh Sharma	Application Of Finite Automata In Pattern Recognition	03	03	03	03	03	03	02	20+25=45
	42	Anshu Sakhare									
	13	Aditya Ghadge									
	4	Mayuresh Balsaraf									
	15	Salil Gujar									
	20	Steve Hetya									
13	63	Sacchidanand Yadav	Turing Machine For AI Application	04	04	04	04	04	04	04	28+20=48
	10	Rupesh Darpe									
	37	Shruti Parade									
	53	Sumedh Shinde									
	61	Sumit Vishwakarma									
	64	Cerejo Belona									

(Sushama Khanvilkar)

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Rubric Sheet for Poster Presentation

Subject Name: Automata Theory (ITC404)

Class / Sem SE / IV

Date: 3/04/23

Group No.	Roll No.	Name of the student	Topic Name	Poster content			Poster organization		Delivery		Total
				Clarity of Content	Quality of Content	Significance of topic	Layout and Clarity	Informative and clear topic, purpose and summary	Professional, confident, knowledgeable about topic, engaged with audience	Response to questions	
				5	5	5	5	5	5	5	35
1	2	Aditiya Nalawade	Application Of Moore And Mealy Machine Combinational Circuits	04	03	05	04	03	04	03	26
	3	Aniket Badgujar									
	11	Rajaram Desai									
	38	Piyush Singh									
	7	Saahil Chaurasia									
2	57	Vivek Singh	Application Of Finite Automata In Subway System	04	04	04	04	04	04	03	27
	27	Ronak Joshi									
	14	Vedant Gharat									
	61	Khizar Shaikh									
	46	Fradeen Shaikh									
3	39	Lekha Pulavarthy	Application Of Finite Automata In Game Theory	05	04	05	04	04	05	05	32
	8	Parth Chaudhary									
	56	Shreya Singh									
	54	Kunal Singh									
	70	Nelson Kolas									
4	21	Shreya Jadhav	Aplication Of Finite Automata In Vending Machine	04	03	05	04	03	04	03	26
	60	Prathamesh Vaidya									
	33	Piyush Mane									
	40	Saish Rane									
	65	Gaurav Kashelkar									
5	12	Divyajothi Raja	Pda for Palindrome	03	03	05	04	03	04	03	30
	18	Saksham Gupta									
	58	Gauresh Somwanshi									
	35	Ajay Pandey									
	43	Rakshita Sarap									
6	25	Saket Jha	Turning Machine For Implementing Robotics Applications	04	03	04	04	04	05	04	29
	45	Akib Sayed									
	6	Vedant Chaudhari									
	67	Samuel Pallikonda									
	44	Aditi Satam									
7	23	Rohan Jaiswal	Application Of Grammar In Language Translation	03	03	03	04	03	03	03	22
	66	Siddhi Oswal									
	47	Anas Shaikh									
	62	Neha Yadav									
	16	Harshvardhan Gupta									
8	3	Siddhi Awlegaonkar	Application Of Finite Automata For Implementing Robotics Applications.	04	04	04	04	04	04	03	27
	59	Ishan Vaghela									
	41	Shivam Sahu									
	17	Pratik Gupta									
	36	Mangesh Pangam									
9	26	Khushal Jogi	Application Of Regular Expressions In Pattern Matching	04	04	03	04	04	03	03	25
	9	Jovan Creado									
	19	Sejal Gupta									
	48	Mohtashim Shaikh									
	34	Vedang Nijap									
10	32	Ajay Kurien	Application Of Finite Automata In Text Editor	04	04	04	04	04	04	03	27
	28	Jayesh Kakade									
	68	Brice Pimenta									
	24	Yash Jaiswar									
	55	Pratham Singh									
11	51	Aditiya Shinde	Pda For Solving The Tower Of Hanoi Problem	04	04	04	04	03	04	04	27
	29	Riya Kamble									
	22	Harshit Jain									
	50	Shubham Sharma									
	52	Siddharth Shinde									
12	49	Harsh Sharma	Application Of Finite Automata In Pattern Recognition	04	04	03	04	04	03	03	25
	42	Anshu Sakhare									
	13	Aditya Ghadge									
	4	Mayuresh Balsaraf									
	15	Salil Gujar									
	20	Steve Hetya									
13	63	Sacchidanand Yadav	Turing Machine For AI Application	03	03	03	03	03	03	02	20
	10	Rupesh Darpe									
	37	Shruti Parade									
	53	Sumedh Shinde									
	61	Sumit Vishwakarma									
	64	Cerejo Belona									

03/04/23