



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.

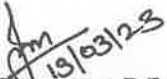
Kindly follow the presentation order as shown below.

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.


Ms. Jyotsna More

(Subject In-charge)


Ms. Meena Ugale

(HOD I.T Dept)

AMERICAN INSTITUTE OF ENGINEERING

Department of Electrical Engineering

THE UNIVERSITY OF MICHIGAN

NOTICE

The American Institute of Engineering is a non-profit organization established in 1911 for the purpose of promoting the advancement of engineering education and research. The Institute is organized as a corporation under the laws of the State of Michigan.

It is the policy of the Institute to maintain its financial affairs in strict accordance with the provisions of its charter and the laws of the State of Michigan.

AMERICAN INSTITUTE OF ENGINEERING

1000 UNIVERSITY AVENUE, ANN ARBOR, MICHIGAN 48106-1000

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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.

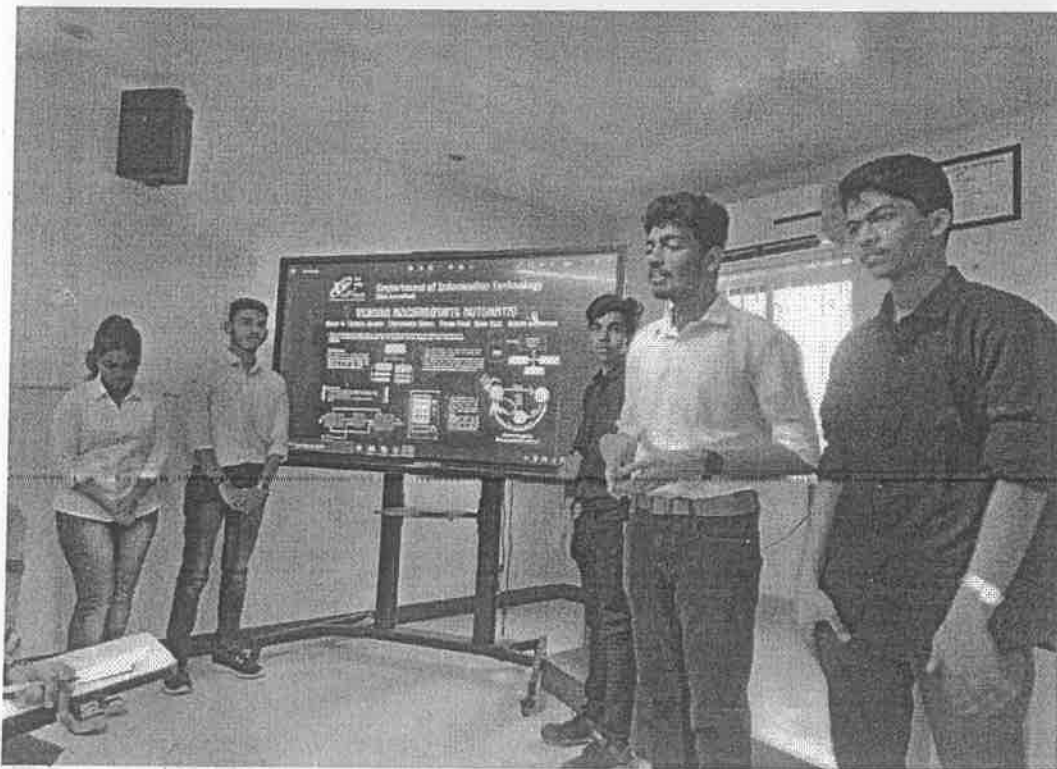
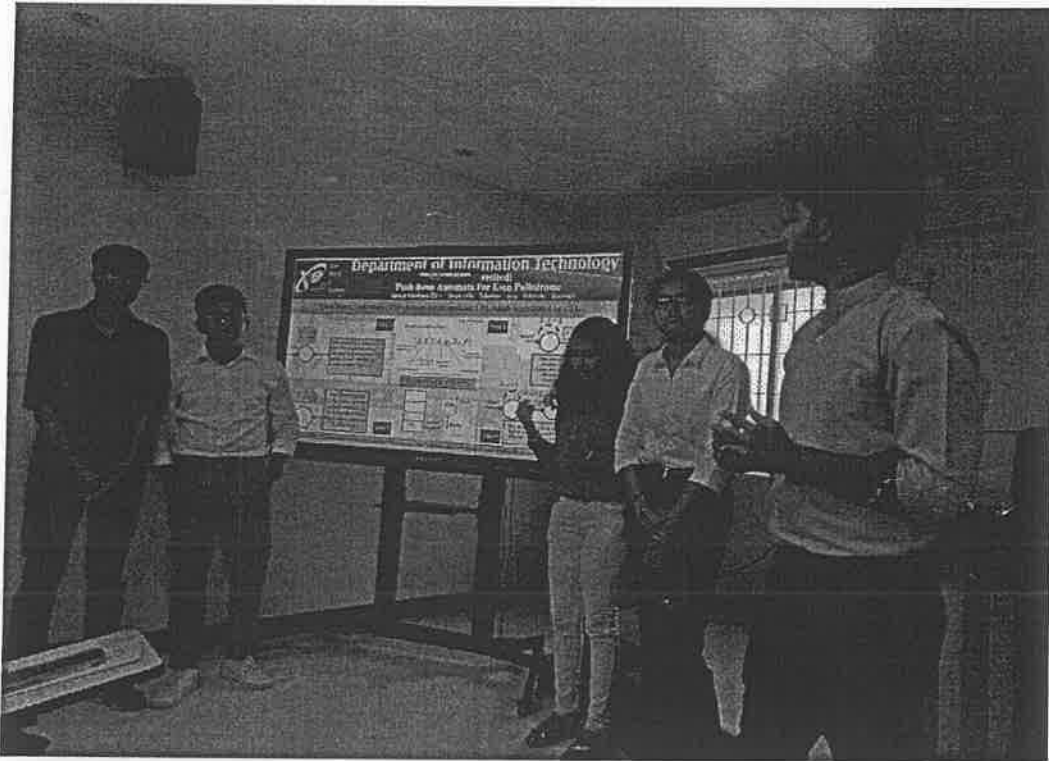
The winners of the poster presentations are:

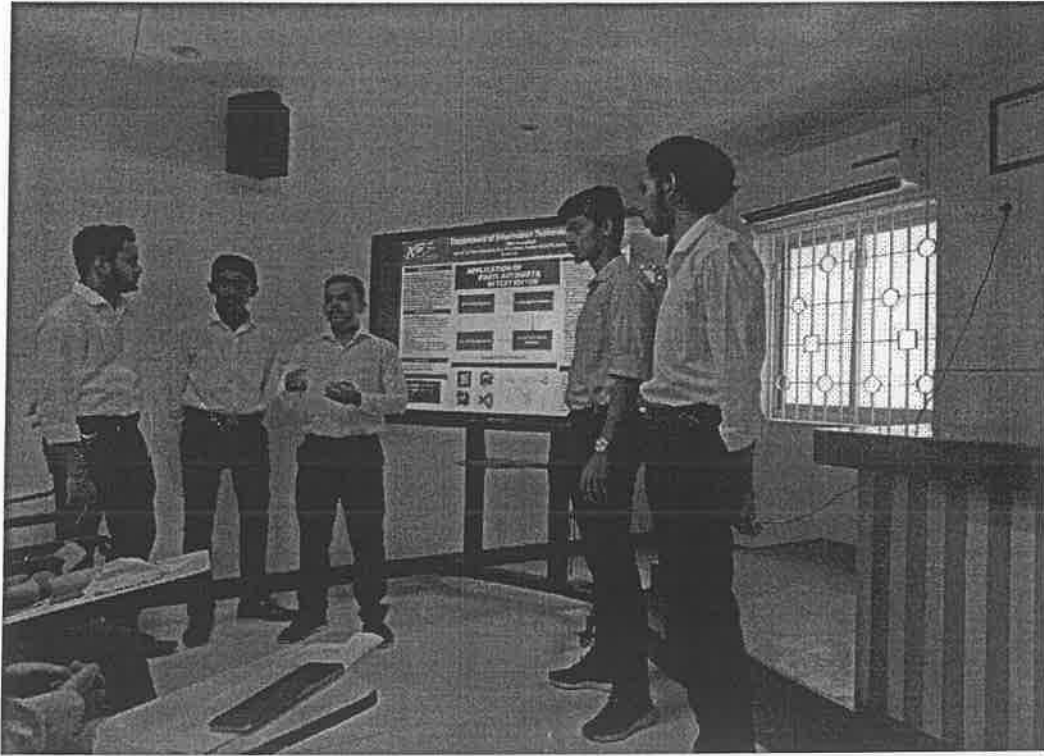
Group No.	Roll No.	Name of the student
Group 5	12	Divyajothi Raja
	18	Saksham Gupta
	58	Gauresh Somwanshi
	35	Ajay Pandey
	43	Rakshita Sarap
Group 10	32	Ajay Kurien
	28	Jayesh Kakade
	68	Brice Pimenta
	24	Yash jaiswar
	55	Pratham Singh
Group 4	21	Shreya Jadhav
	60	Prathamesh Vaidya
	33	Piyush Mane
	40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

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

PSOs achieved: PSO1, PSO2

Event Photos:





Ms. Jyotsna More
Event Coordinator

Mr. Meena Ugale
HOD-IT

Dr. Y.D. Venkatesh
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	
3	46	Fradeen Shaikh	Application Of Finite Automata In Game Theory
	39	Lekha Pulavarthy	
	8	Parth Chaudhary	
	56	Shreya Singh	
4	54	Kunal Singh	Application Of Finite Automata In Vending Machine
	70	Nelson Kolas	
	21	Shreya Jadhav	
	60	Prathamesh Vaidya	
5	33	Piyush Mane	Pda for Palindrome
	40	Saish Rane	
	65	Gaurav Kachelkar	
	12	Divyajothi Raja	
6	18	Saksham Gupta	Turning Machine For Implementing Robotics Applications
	58	Gaurèsh Somwanshi	
	35	Ajay Pandey	
	43	Rakshita Sarap	
7	25	Saket Jha	Application Of Grammar In Language Translation
	45	Akib Sayed	
	6	Vedant Chaudhari	
	67	Sanuel Pallikonda	
8	44	Aditi Satam	Application Of Finite Automata For Implementing Robotics Applications.
	23	Rohan Jaiswal	
	66	Siddhi Oswal	
	47	Anas Shaikh	
9	62	Neha Yadav	Application Of Regular Expressions In Pattern Matching
	16	Harshvardhan Gupta	
	3	Siddhi Awlegaonkar	
	59	Ishan Vaghela	
10	41	Shivam Sahu	Application Of Finite Automata In Text Editor
	17	Pratik Gupta	
	36	Mangesh Pangam	
	26	Khushal Jogi	
11	9	Jovan Creado	Pda For Solving The Tower Of Hanoi Problem
	19	Sejal Gupta	
	48	Mohtahsim Shaikh	
	34	Vedang Nijap	
12	32	Ajay Kurien	Application Of Finite Automata In Pattern Recognition
	28	Jayesh Kakade	
	68	Brice Pimenta	
	24	Yash Jaiswar	
13	55	Pratham Singh	Turing Machine For AI Application
	51	Aditiya Shinde	
	29	Riya Kamble	
	22	Harshit Jain	
	50	Shubham Sharma	
	52	Siddharth Shinde	
	49	Harsh Sharma	
	42	Anshu Sakhare	
	13	Aditya Ghadge	
	4	Mayuresh Balsaraf	
	15	Salil Gujar	
	20	Steve Hetya	
	63	Secchidanand Yadav	
	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	<i>Nalawade</i>
2	202103002	3	AWLEGAONKAR SIDDHI NANDKISHOR	<i>Siddhi</i>
3	202103003	4	BADGUJAR ANIKET DINESH ROHINI	<i>Aniket</i>
4	202103004	5	BALSARAF MAYURESH BHARAT SHAILA	<i>M Balsaraf</i>
5	202103005	6	CHAUDHARI VEDANT VIJAY CHAUDHARI	<i>Vedant</i>
6	202103006	7	CHAURASIA SAAHIL SUNILKUMAR SEEMA	<i>S Chaurasia</i>
7	202103007	8	CHOUDHARY PARTH RAJENDRA HARSHADA	<i>Choudhary</i>
8	202103008	9	CREADO JOVAN MARLON CREADO CAROL	<i>Creado</i>
9	202103009	10	DARPE RUPESH SANJAY ROSHNI	<i>Darpe</i>
10	202103010	11	DESAI RAJARAM DILIP DISHA	<i>Desai</i>
11	202103011	12	DIVYAJOTHI RAJA ARASAKUMARI	<i>Divyajothi</i>
12	202103012	13	GHADGE ADITYA RAJENDRA GHADGE MANGAL	<i>Ghadge</i>
13	202103013	14	GHARAT VEDANT SAGAR	<i>Vedant</i>
14	202103014	15	GUJAR SALIL SANJAY GUJAR SANJANA GUJAR	<i>Salil</i>
15	202103015	16	GUPTA HARSHVARDHAN SACHINKUMAR	<i>Harshvardhan</i>
16	202103016	17	GUPTA PRATIK RAMKIRAT GUPTA CHAMPA	<i>Pratik</i>
17	202103017	18	GUPTA SAKSHAM ARUN GUPTA ANITA GUPTA	<i>Saksham</i>
18	202103018	19	GUPTA SEJAL GYANCHAND GUPTA SANGEETA	<i>Sejal</i>
19	202103019	20	HETYA STEVE SANJEEV HETYA SHILPA HETYA	<i>Hetya</i>
20	202103020	21	JADHAV SHREYA PRALHAD JADHAV	<i>Shreya</i>
21	202103021	22	JAIN HARSHIT OMPRAKASH JAIN KUSUM JAIN	<i>Harshit</i>
22	202103022	23	JAIWAL ROHAN FULCHAND JAIWAL REKHA	<i>Jaiwal</i>
23	202103023	24	JAIWAR YASH DHARMENDRA JAIWAR ARTI	<i>Jaiwar</i>
24	202103024	25	JHA SAKET SANJAY JHA RANJANA JHA	<i>Saket</i>
25	202103025	26	JOGI KHUSHAL YALLALINGA JOGI ANURADHA	<i>Khushal</i>
26	202103026	27	JOSHI RONAK DEEPAK JOSHI JYOTI JOSHI	<i>Ronak</i>
27	202103027	28	KAKADE JAYESH DILIP KAKADE SARIKA	<i>Jayesh</i>
28	202103028	29	KAMBLE RIYA PANDURANG KAMBLE PALLAVI	<i>Riya</i>
29	202103031	32	KURIEN AJAY SHAJI KURIEN RAJASREE KURIEN	<i>Ajay</i>
30	202103032	33	MANE PIYUSH BHANUDAS PUSHPA	<i>Piyush</i>
31	202103034	34	NIJAP VEDANG RUPESH NIJAP RIYA NIJAP	<i>Vedang</i>
32	202103035	35	PANDEY AJAY SURESH PANDEY URMILA	<i>Ajay</i>
33	202103036	36	PANGAM MANGESH KRISHNA PANGAM	<i>Mangam</i>
34	202103037	37	PARADE SHRUTI MILIND PARADE JANHAVI	<i>Shruti</i>
35	202103054	38	SINGH PIYUSH PRAVIN KUMAR SINGH	<i>Piyush</i>
36	202103038	39	PULAVARTHY LEKHA RAMAKRISHNA	<i>Lekha</i>
37	202103039	40	RANE SAISH KISHOR RANE KIRTIDA RANE	<i>Rane</i>
38	202103040	41	SAHU SHIVAM MOOLCHANDRA SAHU	<i>Shivam</i>
39	202103041	42	SAKHARE ANSHU PRAKASH SAKHARE VARSHA	<i>Sakhare</i>

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

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

UNIVERSITY OF TORONTO

Faculty of Engineering

Contents for "Automata Theory"

Chapter 1: Introduction	1
Chapter 2: Finite Automata	15
Chapter 3: Regular Expressions	35
Chapter 4: Context-Free Grammars	55
Chapter 5: Pushdown Automata	75
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Chapter 7: Computability	115
Chapter 8: Complexity Theory	135





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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	
1	2	Aditya Nalawade	Application Of Moore And Mealy Machine Combinational Circuits	03	03	03	03	03	03	03	21+26=47
	3	Aniket Badgajar									
	11	Rajaram Desai									
	38	Piyush Singh									
2	7	Saahil Chaurasia	Application Of Finite Automata In Subway System	04	04	03	04	04	03	03	25+27=52
	57	Vivek Singh									
	27	Ronak Joshi									
	14	Vedant Gharat									
3	61	Khizar Shaikh	Application Of Finite Automata In Game Theory	03	03	03	03	03	03	02	27+32=52
	46	Fradeen Shaikh									
	39	Lekha Pulavarthy									
	8	Parth Chaudhary									
4	56	Shreya Singh	Application Of Finite Automata In Vending Machine	04	05	04	04	04	05	04	30+26=56
	54	Kunal Singh									
	21	Shreya Jadhav									
	60	Prathamesh Valdya									
5	33	Piyush Mane	Pda for Palindrome	04	05	05	05	04	05	04	32+30=62
	40	Saish Rane									
	12	Divyajothi Raja									
	18	Saksham Gupta									
6	58	Gauresh Somwanshi	Turning Machine For Implementing Robotics Applications	03	03	03	03	03	03	02	20+29=49
	35	Ajay Pandey									
	43	Rakshita Sarap									
	25	Saket Jha									
7	45	Alib Sayed	Application Of Grammar In Language Translation	04	05	04	04	04	05	04	30+22=52
	6	Vedant Chaudhari									
	67	Sanuel Pallikonda									
	44	Aditi Satam									
8	23	Rohan Jaiswal	Application Of Finite Automata For Implementing Robotics Applications.	04	04	04	04	04	04	04	28+27=55
	66	Siddhi Oswal									
	47	Anas Shaikh									
	62	Neha Yadav									
9	16	Harshvardhan Gupta	Application Of Regular Expressions In Pattern Matching	03	03	03	03	03	03	02	20+25=45
	3	Siddhi Awlegaonkar									
	59	Ishan Vaghela									
	41	Shivam Sahu									
10	17	Pratik Gupta	Application Of Finite Automata In Text Editor	04	05	05	05	04	05	04	32+27=59
	36	Mangesh Pangam									
	26	Khushal Jogji									
	9	Jovan Creado									
11	19	Sejal Gupta	Pda For Solving The Tower Of Hanoi Problem	04	04	04	04	04	04	04	28+27=55
	48	Mohtahsim Shaikh									
	34	Vedang Nilap									
	32	Ajay Kurien									
12	28	Jayesh Kakade	Application Of Finite Automata In Pattern Recognition	03	03	03	03	03	03	02	20+25=45
	68	Brice Pimenta									
	24	Yash Jaiswar									
	55	Pratham Singh									
13	51	Aditiya Shinde	Turing Machine For AI Application	04	04	04	04	04	04	04	28+20=48
	29	Riya Kamble									
	22	Harshit Jain									
	50	Shubham Sharma									
	52	Siddharth Shinde									
	49	Harsh Sharma									
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	20	Steve Hetya									
	63	Sacchidanand Yadav									
	10	Rupesh Darpe									
	37	Shruti Parade									
	53	Sumesh Shinde									
	61	Sumit Vishwakarma									
	64	Cerejo Belona									

[Signature]

(Sushama Khanvilkar)

STATE OF TEXAS
COMMISSION ON THE STATE OF TEXAS
REPORT OF THE COMMISSION
1902

No.	Name	Age	Sex	Color	Height	Weight	Build	Complexion	Eyes	Hair	Mouth	Nose	Ears	Teeth	Fingers	Toes	Skin	Scars	Tattoos	Other	
1	John Doe	35	M	W	5-8	150	Slender	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
2	Jane Smith	28	F	W	5-4	120	Slender	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
3	Robert Johnson	42	M	W	6-0	180	Sturdy	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
4	Mary White	30	F	W	5-6	130	Slender	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
5	William Brown	50	M	W	5-10	200	Sturdy	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
6	Elizabeth Green	25	F	W	5-5	125	Slender	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
7	Thomas Black	38	M	W	5-9	170	Slender	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
8	Sarah Gray	22	F	W	5-3	115	Slender	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
9	James Red	45	M	W	5-11	190	Sturdy	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
10	Anna Blue	33	F	W	5-7	140	Slender	Fair	Blue	Brown	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal



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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	
1	2	Aditya Nalawade	Application Of Moore And Mealy Machine Combinational Circuits	04	03	05	04	03	04	03	26
	3	Aniket Badgjar									
	11	Rajaram Desai									
	38	Piyush Singh									
2	7	Saahil Chaurasia	Application Of Finite Automata In Subway System	04	04	04	04	04	04	03	27
	57	Vivek Singh									
	27	Ronak Joshi									
	14	Vedant Gharat									
3	61	Khizar Shaikh	Application Of Finite Automata In Game Theory	05	04	05	04	04	05	05	32
	46	Fradeen Shaikh									
	39	Lekha Pulavarthy									
	8	Parth Chaudhary									
4	56	Shreya Singh	Application Of Finite Automata In Vending Machine	04	03	05	04	03	04	03	26
	54	Kunal Singh									
	21	Shreya Jadhav									
	60	Prathamesh Vaidya									
5	33	Piyush Mane	Pda for Palindrome	03	03	05	04	03	04	03	30
	40	Saish Rane									
	65	Gaurav Kachelkar									
	12	Divyajothi Raja									
6	18	Saksham Gupta	Turning Machine For Implementing Robotics Applications	04	04	04	04	04	05	04	29
	58	Gauresh Somwanshi									
	35	Ajay Pandey									
	43	Rakshita Sarap									
7	25	Saket Jha	Application Of Grammar In Language Translation	03	03	03	04	03	03	03	22
	45	Akib Sayed									
	6	Vedant Chaudhari									
	67	Samuel Pallikonda									
8	44	Aditi Satam	Application Of Finite Automata For Implementing Robotics Applications.	04	04	04	04	04	04	03	27
	23	Rohan Jaiswal									
	66	Siddhi Oswal									
	47	Anas Shaikh									
9	62	Neha Yadav	Application Of Regular Expressions In Pattern Matching	04	04	03	04	04	03	03	25
	16	Harshvardhan Gupta									
	3	Siddhi Awlegaonkar									
	59	Ishan Vaghela									
10	41	Shivam Sahu	Application Of Finite Automata In Text Editor	04	04	04	04	04	04	03	27
	17	Pratik Gupta									
	36	Mangesh Pangam									
	26	Khushal Jogi									
11	9	Jovan Creado	Pda For Solving The Tower Of Hanoi Problem	04	04	04	04	03	04	04	27
	19	Sejal Gupta									
	48	Mohitahm Shaikh									
	34	Vedang Nilap									
12	32	Ajay Kurien	Application Of Finite Automata In Pattern Recognition	04	04	03	04	04	03	03	25
	28	Jayesh Kakade									
	68	Brice Pimenta									
	24	Yash Jaiswar									
13	55	Pratham Singh	Turing Machine For AI Application	03	03	03	03	03	03	02	20
	51	Aditya Shinde									
	29	Riya Kamble									
	22	Harshit Jain									
	50	Shubham Sharma									
	52	Siddharth Shinde									
	49	Harsh Sharma									
	42	Anshu Sakhare									
	13	Aditya Ghadge									
	4	Mayuresh Balsaraf									
	15	Salil Gujar									
	20	Steve Hetya									
	63	Sacchidanand Yadav									
	10	Rupesh Darpe									
	37	Shrutii Parade									
	53	Sumedh Shinde									
	61	Sumit Vishwakarma									
	64	Cerejo Belona									

Aravind
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