

AN IQAC INITIATIVE

Workshop On Fluid Simulation Using Sim Software

5 Day Certified Workshop

10-14 April, 2023

Organized By

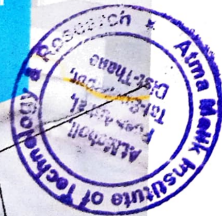
MECHANICAL DEPARTMENT



ATMA MALIK INSTITUTE
OF TECHNOLOGY AND
RESEARCH

[Affiliated to MSBTE, Mumbai ,
Approved by AICTE, New Delhi
& DTE, M.S.]

At: Mohili, Post: Aghai, Via
Kalyan , Dist.: Thane, 421301



Contact Us



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7218663456



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H742+63R, Maharashtra State
Highway 79, Mohili, Mohili,
Maharashtra 421601

Fluid Simulation

Resource Person: Prof. Manoj Choudhari



Course Objectives

Upon completion of this course, you will be able to:

- Define fluid flow simulations in the 3DEXPERIENCE platform, including isothermal internal and external steady-state flow.
- Perform fully coupled conjugate heat transfer (CHT) simulations.
- Postprocess flow simulation results.

Why Fluid Simulation

Computational fluid dynamics helps engineers design products in which the flow of fluid components is a major challenge. Applications include conjugate heat transfer, turbomachinery, fluid-structure interaction, combustion and multiphase simulation, among many others

Learn about the various types of CFD simulations and the advancement of this technology in industrial applications such as oil and gas, aerospace, automotive, electric vehicles, energy generation and HVAC."

Course Content

1. Introduction to Hydraulics and Pneumatics (6 Hrs)

- Basics of Hydraulics and Pneumatics
- Identification of symbols of all types of valves in hydraulics and pneumatics.
- Meter in circuit and meter out circuit.
- Sequencing circuit using CASACADE method and Shift Register Method.

2. Introduction to Hydraulics and Pneumatics (6 Hrs.)

- Basic electrical symbols used in hydraulic.
- Basic electrical symbols used in pneumatic
- Electro Hydraulic circuit using direct control

3. Introduction to Electro-Hydraulics Circuits (6 Hrs.)

- Electro Hydraulic circuit using indirect control
- Electro pneumatic circuit using direct control

4. Electro pneumatic circuit using indirect control (6Hrs.)

5. Identification of Relay, Solenoid valve (6 Hrs)

What is a fluid simulation?





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Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

SYLLABUS/ COURSE CONTENT

Sr. No.	Course Content	Number of Hours
1.	i) Basics of Hydraulics and Pneumatics ii) Identification of symbols of all types of valves in hydraulics and pneumatics. iii) Meter in circuit and meter out circuit.	06
2.	i) Basic electrical symbols used in pneumatic. ii) Electro Hydraulic circuit using direct control.	06
3.	i). Electro Hydraulic circuit using indirect control ii). Electro pneumatic circuit using direct control	04
4.	i) Electro pneumatic circuit using indirect control	02
5.	i) Identification of Relay, Solenoid valve and switches	02

Schedule

Day	Time	Course Content
1	10:00 AM to 01:00 PM 02:00 PM to 05:00 PM	i) Basics of Hydraulics and Pneumatics ii) Identification of symbols of all types of valves in hydraulics and pneumatics. iii) Meter in circuit and meter out circuit. iv) Sequencing circuit using CASACADE method and Shift Register Method.
2	10:00 AM to 01:00 PM 02:00 PM to 05:00 PM	i). Basic electrical symbols used in hydraulic. ii). Basic electrical symbols used in pneumatic. iii). Electro Hydraulic circuit using direct control
3	10:00 AM to 01:00 PM 02:00 PM to 05:00 PM	i). Electro Hydraulic circuit using indirect control ii). Electro pneumatic circuit using direct control
4	10:00 AM to 01:00 PM 02:00 PM to 05:00 PM	i). Electro pneumatic circuit using indirect control
5	10:00 AM to 01:00 PM 02:00 PM to 05:00 PM	i) Identification of Relay, Solenoid valve and switches ii) Assessment iii) Certificate Distribution





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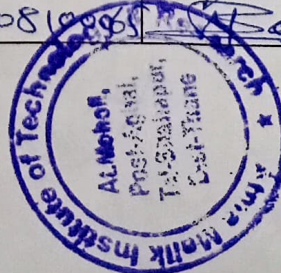
Department of Mechanical

ACAD-DI-05	Add/ON Program on Fluid Simulation Students Attendance	Academic Year: 2022-23
Rev : 00		Semester: EVEN
Date: 15-3-2023		

Date: 17/04/2023

Morning Time- 10.00 AM to 01.00 PM

Sr. No	Students Name	Contact No	Students Sign
1	Shubham Sanjay Tadhar	9637209206	Stadhar
2	Omkar Suresh Patil	8087373123	Patil
3	Suraj Vijay Sapat	8983602500	Suraj
4	Bhavik Sudhakar Patil	9021584344	Patil
5	Satish Nandlal goswami	8887522847	Satish
6	Sarthak Dadhekar	9356333027	Sarthak
7	Viraj Mangesh Kerkar	8169323485	Viraj
8	Suraj Ramsagar Singh	7387212958	Suraj
9	Deepak Remesh Kishwaha	7721972986	Deepak
10	Kailas Bhagat Pachalkar	9156913269	Kailas
11	Sanket Vijay Patil	7768018626	Sanket
12	Niraj Rajendra Patil	7447626555	Niraj
13	Harshad Sittaram Tadhar	7798351895	Harshad
14	Viresh Suresh Bhoir	9373194282	Viresh
15	Ganesh Vasant Trade	9152460731	Ganesh
16	Shubham Subhash Kalaskar	9145658362	Shubham
17	Abhijeet Vitthal Patil	7798372517	Abhijeet
18	Shivam Tanujithkar	8511760960	Shivam
19	Nikhil Shahu Patil	7385574542	Nikhil
20	Sahil Santosh Bhorare	9834878787	Sahil
21	Jagdish Ramraj Patel	8796100912	Jagdish
22	Yash Santosh Patil	8830810005	Yash





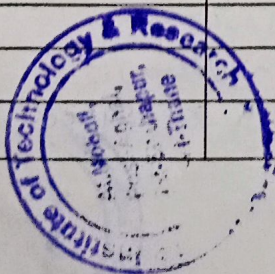
II Sabka Malik Atma II

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Department of Mechanical

23	Sameer D. Parnadhi	9528891742	
24	Akshay D. Shelar	7499398322	
25	Geirish S. Thakare	8412868343	
26	Poojyal D. Kamavata	9156673117	
27	Rushikesh V. Dhasade	9162773592	
28	Ganesh G. Raut	9322800283	
29	Bhavik G. Patil	9309024654	
30	Manish R. Patil	7387912952	
31	Chaitali Pawar	9373600711	
32	Tejas Dilip Patil	9767832370	
33	Chandan Vilas Chaudh	9637936011	
34	Mayuresh Payat	8999291947	
35	Prasad K. Patil	9373180657	
36	Ruchit Gharat	9121663088	
37	Sumit Suresh Khale	9307386196	
38	Jalvar S. Dhodade	8857060736	
39	Rohit Bhagwan Malak	9373228989	
40	Imman Jabal Sathe	8149109791	
41	Vishal S. Deshmukh	9272770148	
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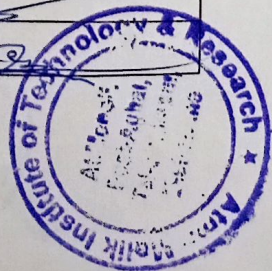
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Date: 10/04/2023A

Afternoon/ Evening Time- 02.00 PM to 05.00 PM

Sr. No	Students Name	Contact No	Students Sign
1	Jagdish Ramraj Patel.	8796100912	Jagdish. R. Patel.
2	Rushikesh V. Dhasade	9168773592	RPIS
3	Nikhil S. Patil	7385544542	NIPatil.
4	Suraj V. Sapat	8983602500	Suraj -
5	Shubham S. Tadhar	9637209206	Shadhar
6	Satish N. goswami	8887522847	satish
7	Sarthak R. dadhekar	9356838877	Sarthak
8	Vijay M. Kadam	8169323485	V.Kadam
9	Suraj R. Singh	7387712958	Suraj
10	Deepak R. Kushwaha	7721972986	Deepak
11	Manish R. Patil	7387412442	Manish Patil
12	Bhavik S Patil	9309024644	Bhavik
13	Kailas B. Pachalkar	9156913269	Kailas
14	Sanket Vijay Patil	7768016826	SVPatil
15	Niraj Rajendra Patil	7447628555	Niraj
16	Ganesh S. Raut	9322800283	Ganesh
17	Sameer D. Paradhi	9529991742	Sameer
18	Akshay D. Shelor	7499398322	Akshay
19	Girish S. Thakare	8412868343	Girish
20	Yash S. Patil	8308160960	Yash
21	Shivam T. Thakare	9511760960	Shivam
22	Abhijeet V. Patil	7798372517	Abhijeet
23	Vinay Bhoir	9370194282	Vinay





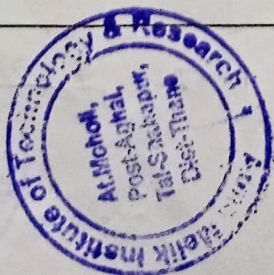
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24	Hemshad S. Jadhav	7798351835	<u>Hemshad</u>
25	Chaitali K. Pawar	9373600771	<u>Chaitali</u>
26	Ganesh V. Tarade	9152460731	<u>Ganesh</u>
27	Pranjal D. Kumawat	9156673117	<u>Pranjal</u>
28	Sahil Bhakre	9834878767	<u>Sahil</u>
29	Shubham Subhash Kalaskar	9145658362	<u>Shubham</u>
30	Tejas Dilip Patil	9767832370	<u>Tejas</u>
31	Imran Jybal Sable	8149109991	<u>Imran</u>
32	Mayuresh Payat	8499271947	<u>Mayuresh</u>
33	Prasad Patil	9373180657	<u>Prasad</u>
34	Chandan V. Chaudhari	9637936061	<u>Chandan</u>
35	Vishnu S. Deshmukh	9272770148	<u>Vishnu</u>
36	Prashant Gulmal	9921663088	<u>Prashant</u>
37	Sumit S. Khale	9307386196	<u>Sumit</u>
38	Ishvar S. Phodade	8857060736	<u>Ishvar</u>
39	Pankaj Malab.	9373223989	<u>Pankaj</u>
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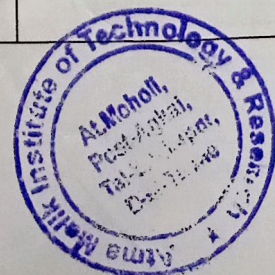
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Date: 15-3-2023		

Date: 11/04/2023

Morning Time- 10.00 AM to 01.00 PM

Sr. No	Students Name	Contact No	Students Sign
1)	Shivam Tanaji Thakare	9511760960	
2)	Nikhil Shahu Patil	7385574542	
3)	Abhijeet Vittal Patil	7798372517	
4)	Shubham Sanjay Jadhav	9637209206	
5)	Satish Nandlal goswami	8887522847	
6)	Vinay Mangesh kadam	8169323485	
7)	Sarthak rashmikant dadhane	9356833027	
8)	Mayur gurunath Jadhav	7276184865	
9)	Suraj Romsagar Singh	7387712958	
10)	Deepak Ranush kushnaha	7721972986	
11)	Kailas Bhawal Pachalkar	9156913269	
12)	Ganesh S. Rout	9322800283	
13)	Jagdish R. Patel	8796100912	
14)	Sanket V. Patil	7768018626	
15)	Nirag R. patil	7447626555	
16)	Hemlata R. Mahale	9168199285	
17)	pooja R. Bhoir	8605406968	
18)	Ganesh V. Tarade	9152466731	
19)	Pranjal D. Kumawat	9264814081	
20)	Vilas Thakre	8999921845	
21)	Shubham Kelaskar	9145658362	
22)			





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Sr. No	Students Name	Contact No	Students Sign
1	Nirag R. Patil	7447626555	<u>(Nirag)</u>
2	sanket V. Patil	7768018626	<u>(SVPatil)</u>
3	Harshad . s. Jadhav.	7798351895	<u>HJadhav</u>
4	viresh . s. Bhoir	9373194282	<u>Viresh</u>
5	Ganesh V. Tarde	9152460731	<u>Ganesh</u>
6	Chandon V. Chaudhari	9637936001	<u>Chandon</u>
7	chaikali K. Patil	9373600771	<u>Chaikali</u>
8	Jasmin Asif Attar	9579938059	<u>Jasmin</u>
9	suraj S. mukmak	7499938036	<u>Suraj</u>
10	yash s. patil	8308100065	<u>Yash</u>
11	Sahil S. Bhovare	9834818767	<u>Sahil</u>
12	Suraj Supat	8183602500	<u>Suraj</u>
13	Bhaik S. Patil	9309024644	<u>Bhaik</u>
14	Ganish S. Thakare	8412866398	<u>Ganish</u>
15	Sameer D. Pardhi	9529991342	<u>Sameer</u>
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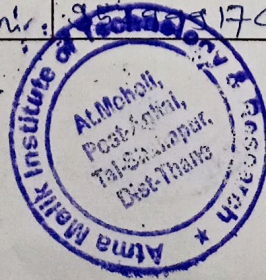
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Afternoon/ Evening Time- 02.00 PM to 05.00 PM

Date: 11/04/2023A

Sr. No	Students Name	Contact No	Students Sign
1	Ganesh S. Raut	9322800282	
2	Kavita Bhawal Pachalkar	9156913269	
3	Hemshad S. Jadhav	7798351895	
4	Sanket V. Patil	7768018626	
5	Niraj R. Patil	7497626555	
6	Vinay S. Bhoir	9373194282	
7	Nikhil S. Patil	7385574542	
8	Shivam T. Thakare	9511760960	
9	Abhijeet V. Patil	7798372717	
10	Shubham S. Jadhav	9637209206	
11	Jagdish R. Patel	8796100912	
12	Yash Patil	8308100065	
13	Ganesh V. Tarade	9152460731	
14	Pooja R. Bhoir	8605406968	
15	Hemlata R. Mahale	9168199285	
16	Satish Goswami	8887522847	
17	Sarthak Dandekar	9356833027	
18	Mayur Jadhav	7276184865	
19	Vinay Jadhav		
20	Deepak Kushwaha	7721972986	
21	Suryaj Singh	7387712958	
22	Bhavik Patil	9809024644	
23	Sameer D. Parachhi	9809024644	





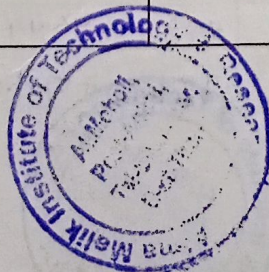
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24	Priyanka D. Kumawat	7264814081	
25	Vilas A. Thakur	8999921845	
26	Shubham Kalskar	9145658362	
27	Chaitali C. Pawar	9373800771	
28	Jasmin A. Attar	9579938059	
29	Sudag S. Mukne	7499938036	
30	Samir B. Bhadure	9829999762	
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Department of Mechanical

ACAD-DI-	Add/ON Program on Fluid Simulation Students Attendance	Academic Year: 2022-23
Rev : 00		Semester: EVEN
Date: 15-3-2023		

Date: 12/04/2023

Morning Time- 10.00 AM to 01.00 PM

Sr. No	Students Name	Contact No	Students Sign
1	Hemeshad. S. Jadhav	7798351895	[Signature]
2	Viresh. S. Bhoir	9373194282	[Signature]
3	Hemlata. P. Mahale	9168199285	[Signature]
4	Pooja R. Bhoir	8605406968	[Signature]
5	Niraj R. Patil	7447626555	[Signature]
6	Sanket. V. Patil	7768018626	[Signature]
7	Ganesh S. Raut	9322800283	[Signature]
8	Kailas. B. Pachalkar	9156913269	[Signature]
9	Suraj R. Singh	7387712958	[Signature]
10	Deepak R. Kushwaha	7721912986	[Signature]
11	Mayur. G. Jadhav	7276184865	[Signature]
12	Sarthak Dadhekar	9356833027	[Signature]
13	Satish Goswami	8887522847	[Signature]
14	V. G. Kadam	8169323485	[Signature]
15	Pranjal D. Kumbhar	7264814081	[Signature]
16	Sameer D. Pawar	9529991742	[Signature]
17	Vishal Santosh Deshmukh	9272770148	[Signature]
18	Yash Santosh Patil	8208100065	[Signature]
19	Satish Nandlal goswami	8887522847	[Signature]
20	Sarthak. R. dadhekar	9356833027	[Signature]
21	Mayur. G. Jadhav	7276184865	[Signature]
22	Chandan V. Chavhan	9637936001	[Signature]
23	Ganesh V. Tayade	91524607	[Signature]





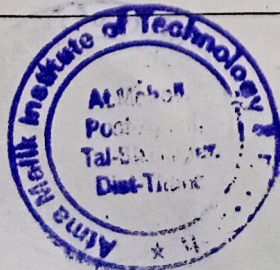
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Department of Mechanical

24	Vilas A. Thakare	8999921845	<u>Vilas</u>
25	Shubham Kalskar	914565836	<u>Shubham</u>
26	Chaitali K. Pawar	9373600771	<u>Chaitali</u>
27	Jasmin A. Attar	9579938059	<u>Jasmin</u>
28	Jagdish R. Patel	8796100912	<u>Jagdish R. Patel</u>
29	Suraj S. Mukne	7499938036	<u>Suraj</u>
30	Shivam J. Thakare	9571760900	<u>Shivam</u>
31	Abhijeet V. Patil	7798372517	<u>Abhijeet</u>
32	Ruchit C. Gharat	9921663088	<u>Ruchit</u>
33	Rohit Bhagwan Malik	9373223989	<u>Rohit</u>
34	Suraj V. Sapat	8983602500	<u>Suraj</u>
35	Imran Jabal Sabre	8149109791	<u>Imran</u>
36	Bhaik Sunil Patil	9304024644	<u>Bhaik</u>
37	Prasad Patil	9373180657	<u>Prasad</u>
38	Jehvar S. Dhodade	8857060788	<u>Jehvar</u>
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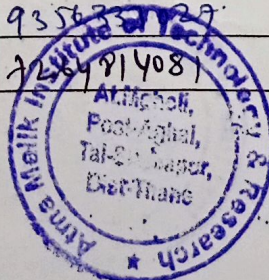
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Sr. No	Students Name	Contact No	Students Sign
1	Virej Mangesh Kudam	8169323485	
2	Viresh S. Bhoir	937319422	
3	Harshad S. Jadhav	7798551895	
4	Sanket V. Pooj	7768018626	
5	Deshmukh Vishal Santosh	9272770148	
6	Ganesh S. Raut	9322800283	
7	Nirag R. Patil	7447628555	
8	Ganesh V. Turade	9152460731	
9	Chandan V. Choudhary	9637936001	
10	Shubham Kalaskar	9145658362	
11	Vilas Thakre	8994921845	
12	Hemlata R. Mahale	9168199285	
13	Pooja R. Bhoir	8605406938	P. R. Bhoir
14	Chaitali K. Pawar	9373600771	
15	Jasmin A. Attar	9579938059	
16	Jaydesh R. Patel	8796100912	Jaydesh R. Patel
17	Suraj S. Muknak	7499938036	
18	Kailas B. Pachulkar	9156913269	
19	Suraj R. Singh	7387712958	
20	Deepak R. Kushwaha	7721972986	
21	Mayur G. Jadhav	9276184865 9356233027	
22	Sarthak Dhadhelkar	9356233027	
23	Prunjan D. Jumarat	7721972986	





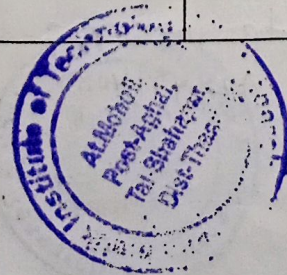
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24	Sameer D. Paradhi	9524991242	
25	Vishal Santosh Deshmukh	9232370148	
26	Yash Santosh Patil	8308100085	
27	Salish N. goswami	8887522847	
28	Vijay A. Thakare	8999921845	
29	Bhavik S. Patil	9309024644	
30	Rohit Gharat	992663088	
31	Rohit B. Malik	9373223989	
32	Suraj Sapat	8983602500	
33	Prasael Patil	9373180657	
34	Jishwar Dhodade	8857060788	
35	Imran Jghal Sutte	8149109791	Imran
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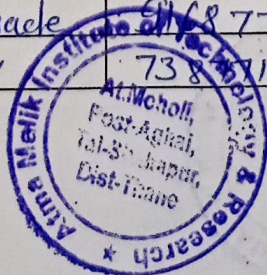
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ACAD-DI-05	Add/ON Program on Fluid Simulation Students Attendance	Academic Year: 2022-23
Rev : 00		Semester: EVEN
Date: 15-3-2023		

Date: 3/04/2023

Morning Time- 10.00 AM to 01.00 PM

Sr. No	Students Name	Contact No	Students Sign
1	Sanket. V. Patil	7788018626	SVPatil
2	Nirag. R. Patil	7447626555	NPatil
3	Harshad. S. Jadhav	7798351895	HJadhav
4	Viresh. S. Bhoir	9373196212	VJBhoir
5	Ganesh V. Tayade	9152460731	GTayade
6	Chandan Y. Chaudhari	9637936001	CC
7	Vilas Thakre	8999921845	VThakre
8	Shubham Kalekar	9145658362	SKalekar
9	Hemlata R. Mahale	916819928	HRMahale
10	Pooja. R. Bhoir	8605408938	PBhoir
11	Chaitali R. Pawar	8373600771	CPawar
12	JAGDISH. R. Patel.	8796100912	Jagdish R. Patel.
13	Jasmin A. Attar	9579938059	JAAttar
14	Sunay S. Mukne	7499938036	SMukne
15	Shivam. T. Thakare	7796372517	STThakare
16	Abhijeet. V. Patil	9511760960	ABPatil
17	Thakare Vilas	8999921845	VThakare
18	Saathak R. Dadhelkar	9356833027	SDadhelkar
19	Mayur G. Jadhav	7276184865	MJadhav
20	Satish N. Goswami	8887522847	SNGoswami
21	Rushikesh V. Deyade	9168773592	RVDeyade
22	Sunay R. Singh	738712958	SRSingh





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Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical

23	Viraj M Kadam	8169325485	VKadam
24	Manish R Patil	7387412442	Manish patil
25	Tejas D. Patil	9763832370	Tejas Patil
26	Mayuresh Rayat	8999271947	Myer
27	Prasad K. Patil	9373180657	Patil
28	Ruchit C. Gehawat	992663088	Rahat
29	Vishal S. Deshmukh	9272770148	Vishal
30	Shubham S. Kalaskar	9145658862	Kalaskar
31	Bharik Sunil Patil	9309024644	Bruy
32	Sumit S. Khale	9307386196	SS
33	Surya Sapat	8983602500	Apat
34	Shubham S. Jadhav	9637209206	Shadhav
35	Nikhil Shahu Patil	7385544542	Napatil
36	Sameer D. Pandhi	9522991742	Spandhi
37	Rohit B. Malak	9373223989	Rmahak.
38	Omkar Surash Patil	8087873123	Opatil
39	Ishwar S. Dhodade	8857060738	Sdhodade
40	Kailas B. Pachalkar	9156913269	KBpachar
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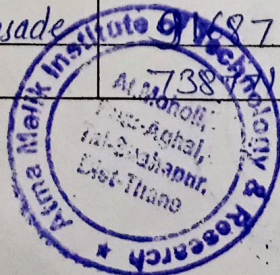
Department of Mechanical

ACAD-DI-05	Add/ON Program on Fluid Simulation Students Attendance	Academic Year: 2022-23
Rev : 00		Semester: EVEN
Date: 15-3-2023		

Date: 13/04/2023A

Afternoon/ Evening Time- 02.00 PM to 05.00 PM

Sr. No	Students Name	Contact No	Students Sign
1	Sanket. V. Patil	7768018626	<u>SVPatil</u>
2	Harshad. S. Jadhav	7798351845	<u>HJadhav</u>
3	Viresh S. Bhoir	9373194252	
4	Nirag. R. Patil	7447626555	<u>NPatil</u>
5	Ganesh V. Tarade	9152460731	<u>GT</u>
6	Chandam V. Chaudhari	9627936001	<u>ch</u>
7	Vilas Thakre	8999921845	<u>Vth</u>
8	Shubham Karaskar	9145658362	<u>SK</u>
9	Hemlata. R. Mahale	9168199285	<u>Hm</u>
10	Pooja. R. Bhoir	8605406838	<u>Pb</u>
11	Chaitali K. Pawar	9373600771	<u>CP</u>
12	Jasmin A. Attar	9579938059	<u>JA</u>
13	Sunny S. Mukherjee	7499938036	<u>SM</u>
14	Shivam T. Thakre	9511700900	<u>ST</u>
15	Abhijit. V. Patil	7798372517	<u>Abhijit</u>
16	Thakare Vilas	8999921845	<u>Vth</u>
17	Santosh R. Dadhikar	9356833027	<u>SD</u>
18	Mayur G. Jadhav	7276184865	<u>MJ</u>
19	Satish N. Goswami	8887522847	<u>Satish</u>
20	Jagdish R. Patel	8796100912	<u>Jagdish R. Patel</u>
21	Jasmin A. Attar	9379938059	<u>JA</u>
22	Rushikesh V. Phasade	9168773592	<u>RP</u>
23	Sunny R. Singh	7389212958	<u>SR</u>





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Department of Mechanical

24	Viraj. M. Kadam	8169323484	Vkadam
25	Manish R. Patil	7387412442	MR Patil
26	Tejas D. Patil	9763832370	TPatil
27	Mayuresh Rayat	8999211947	MR
28	Prasad K. Patil	9373180657	PPatil
29	Ruchit C. Ghosale	9921663088	RGhosale
30	Vishal S. Deshmukh	9272770148	Vishal
31	Shubham S. Kalaskar	9145658362	SKalaskar
32	Bhavik Sunil Patil	9309024644	BSPatil
33	Sumit S. Khale	9307386196	SKhale
34	Suraj Saput	8983602500	ASaput
35	Shubham S. Jadhav	9637209206	SJadhav
36	Nikhil Shahu Patil	7385544542	NSPatil
37	Sameer D. Pandhi	9529991742	SPandhi
38	Rohit B. Malak	9373223989	RMalak
39	Omkar Suresh Patil	8087373123	OPatil
40	Ishwar S. Dhodade	8857060738	IDhodade
41	Kailas B. Pachalkar	9156913269	KPachalkar
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Department of Mechanical

ACAD-DI-05	Add/ON Program on Fluid Simulation Students Attendance	Academic Year: 2022-23
Rev : 00		Semester: EVEN
Date: 15-3-2023		

Date: 4/04/2023

Morning Time- 10.00 AM to 01.00 PM

Sr. No	Students Name	Contact No	Students Sign
1	sanket. v. Patil	7768018626	SPatil
2	viresh .s. Bhoir	937219422	
3	Nirag. R. Patil	7447625555	NPatil
4	Harshad S. Jadhav.	7798351845	HJadhav
5	Ganesh V. Tayade	9152460731	GTayade
6	Chandan V. Chaudhary	9637936001	ChV
7	Vilas Thakre	8999921845	VT
8	shubham kelaskar	9145658362	SKelaskar
9	Pooja Bhoir	8605406968	PBhoir
10	Hemlata Mahale	916819928	HM
11	chaikali K. Pawar	9373600881	CPawar
12	Jagdish R. Patel.	8796100912.	JRPatel
13	Jasmin A. Attar	9579938059	JA
14	Suraj S. Muknak	7499938036	SM
15	Shivam. T. Thakare	9511760960	STThakare
16	Abhijeet. V. Patil	7798372517	APatil
17	Thakare Vilas	8999921845	VT
18	Sarthak R. Dadhekar	9356938027	SDadhekar
19	Mayur G. Jadhav	7276184865	MJadhav
20	Satish N. Goswami	8887522847	SN
21	Rushikesh V. Desai	9168773592	RV
22	Suraj R. Singh	7387742958	SRSingh





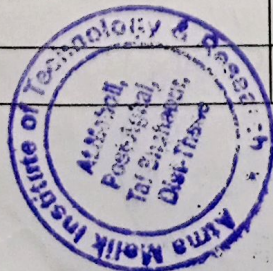
!! Sabka Malik Atma !!

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Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical

23	Virey N. Kadam	8169323485	Vkadam
24	Manish R. Patil	7387412442	WJ patil
25	Texas D. Patil	9763832370	tpatil
26	Mayuresh Rayat	8999271947	WR
27	Pooasad K. Patil	9375180657	Ppatil
28	Ruchit C. Gharat	9921663088	Rgharat
29	Vishal S. Deshmukh	9272570148	Vishal
30	Shubham S. Kalaskar	9145658362	Skalaskar
31	Bhavik Sunil Patil	9309024644	Bunil
32	Sumit S. Khale	9307386196	SS
33	Suraj S. Khale Sapet	8983602500	Asapet
34	Subham S. Jadhav	9637209206	SJadhav
35	Nikhil Shahu Patil	7385544542	Nspatil
36	Sameer D. Pardhi	9529991742	Spandhi
37	Rohit B. Malak	9373223989	Rmalak
38	Omkar Sunish Patil	808737 9123	Opatil
39	Ishwar S. Phodade	8857060758	Isphodade
40	Kailas B. Pachellkar	9156913269	Kpachellkar
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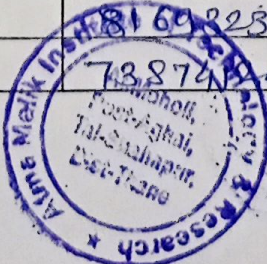
Department of Mechanical

ACAD-DI-05	Add/ON Program on Fluid Simulation Students Attendance	Academic Year: 2022-23
Rev : 00		Semester: EVEN
Date: 15-3-2023		

Date: 14/04/2023A

Afternoon/ Evening Time- 02.00 PM to 05.00 PM

Sr. No	Students Name	Contact No	Students Sign
1	Sanket. V. Patil	7768018626	SVPatil
2	Viresh. S. Bhoir		V Bhoir
3	Harshad. S. Idhav.	7798351895	H Idhav
4	Nirag. R. Patil	7447626555	NPatil
5	Ganesh V. Tarade	9152460731	GVT
6	Choudan V. Chaudhari	9637936001	CVB
7	Vilas Thakre	8999921845	VTP
8	Shubham Kalaskar	945658362	SKalaskar
9	Pooja Bhoir	8605406968	P Bhoir
10	Hemlata Mahale	916819928	H Mahale
11	JAGDISH R. PATEL	8796100912	Jagdish R. Patel
12	Jasmin A. Attar	9579938089	JAS
13	Sumit S. Muknalk	7499938036	S Muknalk
14	Shivam. T. Thakare	9511760960	Shivam
15	Abhijeet. V. Patil	7796372517	Abhijeet
16	Thakare Vilas	8999921845	VTP
17	Sarthak R. Dadhikar	9856833027	S Dadhikar
18	Mayur G. Jadhav	7276184865	M Jadhav
19	Satish N. Goswami	8887521847	Satish
20	Rushikesh V Dhasade	9168773592	R Dhasade
21	Suraj R. Singh	7387712858	S Singh
22	Vinay M. Kadam	8169823484	V Kadam
23	Manish R. Patil	738744442	M Patil





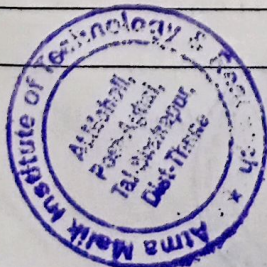
!! Sabka Malik Atma !!

Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical

24	Teges D. Patil	9763832370	TPatil
25	Mayuresh Rayat	899921947	(M)LeB
26	Prasad K Patil	9873180657	Prpatil
27	Ruchit C. Gharat	992663088	(R)gharat
28	Vishal S. Deshmukh	9272770148	Vshat
29	Shubham S. Kalaskar	9145658362	Skalaskar
30	Bhavik Sunil Patil	9309024644	Bund
31	Sumit S. Khale	9307586196	SS.
32	Suraj Sapat	8983602500	Sapat
33	Shubham S. Jadhav	9637209206	Shadhav
34	NIKHIL SHAMU PATIL	7385544542	Nspatil
35	Sameer D. Pardihi	9529991742	Spardihi
36	Rohit B. Malak	9373223989	Rmalak
37	Onkar Suresh Patil	8087378128	Opatil
38	Ishwar S. Dhodade	8857060738	Idhodade
39	Kalag B. Paehalkar	9156913269	Kmpaehalkar
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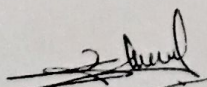
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Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research (AMRIT)
Department of Mechanical Engineering

ACAD-DI-59	One Page Activity Report	Academic Year: 2022-23
Rev : 00		Semester: EVEN
Date: 11-7-2022		

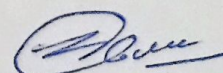
- **Faculty Name** – Prof. R.S. Gaikwad
- **Date** –10/04/2023 to 14/04/2023 Timing 10.00 AM- 05.00 PM
- **Planned Activity** – ADD On Program on Fluid Simulation using SIMs Software
- **Permission from Authorities** – Dr. D. D. Shinde (Principal)
- **Implementation Details** – The purpose of the workshop is to introduce students to the most important conceptual approaches of automation using pneumatics and Hydraulics as well as to explore and formulate the theoretical framework for the analysis of the topic that is examined in the context of their Graduate Dissertation.

Emphasis is also given to the basic simulation approach and the use of the most appropriate – depending on the central question considered – Automation using hydraulics and pneumatics methods and tools (quantitative and / or qualitative) to carry out their simulation study.

- **Conclusion** – After completion, this workshop we conclude that student gets more benefits about this workshop and they are more familiar about the software. In the market scenario the extra skills are require for getting a good job, so software knowledge is the most important factor of industry. We are very thankful to our Head of Department for giving such good support as well as we are also special thankful to our President sir and Principal Sir that he was continuously guiding and supporting us.
- **Feedback Report**- Attached
- **Completion Report** -Workshop Successfully completed on 14/04/2023


Coordinator




HOD



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Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering

Report on ADD On Program on Fluid Simulation using SIMs Software

Course Goal:

The purpose of the seminar is to introduce students to the most important conceptual approaches of automation using pneumatics and Hydraulics as well as to explore and formulate the theoretical framework for the analysis of the topic that is examined in the context of their Graduate Dissertation.

Emphasis is also given to the basic simulation approach and the use of the most appropriate – depending on the central question considered – Automation using hydraulics and pneumatics methods and tools (quantitative and / or qualitative) to carry out their simulation study.

The main objective of the seminar is to make familiar with all the pneumatics and hydraulics tools and by simulation they can understand all the circuits.

Student Learning Outcomes:

By the end of this course, you should be able to:

1. To understand the basics of pneumatics and hydraulics.
2. To understand the basic symbols used in electrohydraulic and electro pneumatics.
3. The ability to develop the meter in and meter out and Sequencing methods using software.
4. To understand the Electro pneumatic and electrohydraulic.
5. To be able to simulate all the sequencing circuit using software.

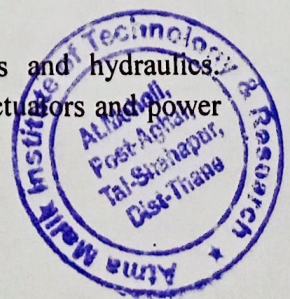
The course aims:

- To develop the basics circuits in pneumatics and hydraulics. Developing the knowledge and understanding the festo sim software.
- To acquire knowledge about the use of different symbols used in pneumatics and hydraulics.
- To obtain, simulated results by developing circuits using simulation software by systematically applying the relevant methods, the necessary capabilities to adapt to actual simulation processes. At the end of the course, students will be able to design different circuits which are either electric or pneumatics or hydraulics using Festo Sim software.
- To develop their ability to critically design, evaluate and simulate fluid power concepts.
- To promote the progress of the knowledge society and generating new research ideas.
- To promote free, creative and inductive thinking.

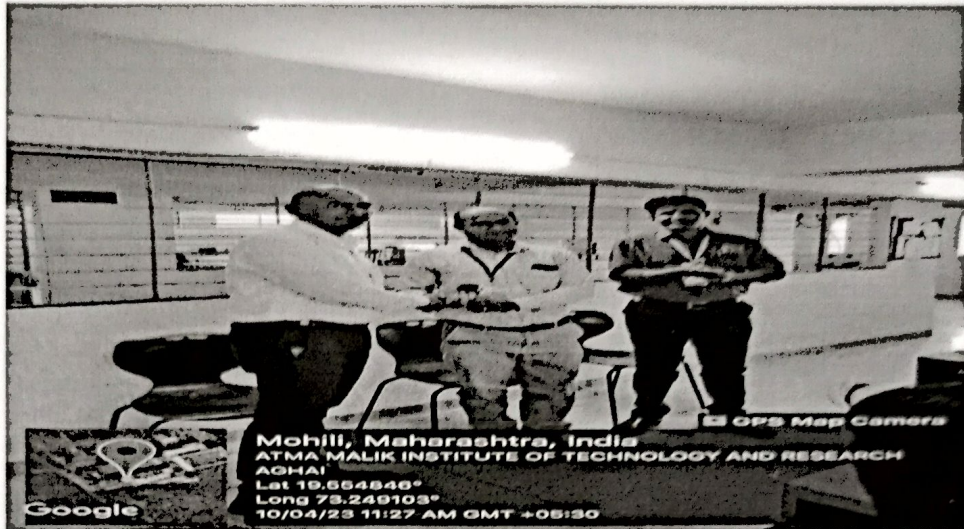
The course is organized according to the following topics: Understanding of basics symbols used in pneumatics and hydraulics. Selection of tool by specific application. The method of simulation and analysis of the simulated results.

The seminar consists of 5 lectures covering the following topics:

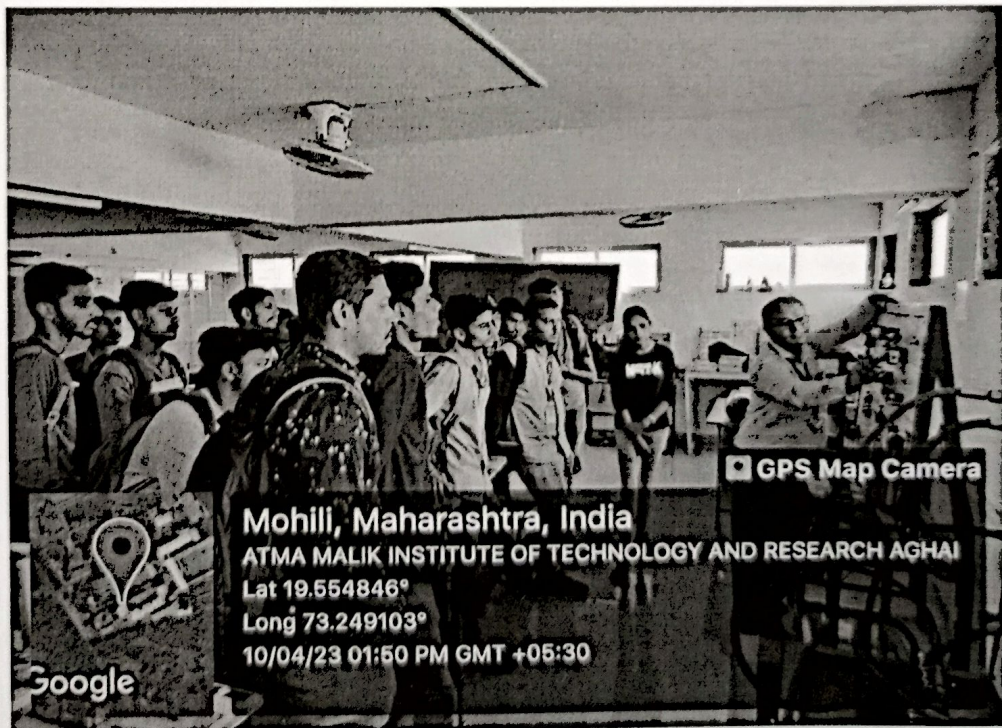
1. 1st Lecture: Introduction to the basic symbols used in pneumatics and hydraulics.
Identification of the all types of directional control valve, F.R.L. unit, actuators and power



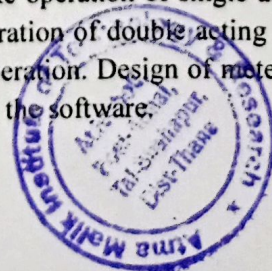
supply units like compressor and pumps. Designation of the directional control valve like 3/2, 4/2, 5/2 and so on. Designation of the actuators like single acting double acting cylinders, rotary actuators etc.



Practical Performance



2. Lecture 2: Design of basics circuits in pneumatics like operation of single acting actuators by using manually operated 3/2 valve. Design of operation of double acting cylinder using different valves in both hydraulics and pneumatics operation. Design of meter in and meter out circuits for hydraulics operation and simulate it on the software.



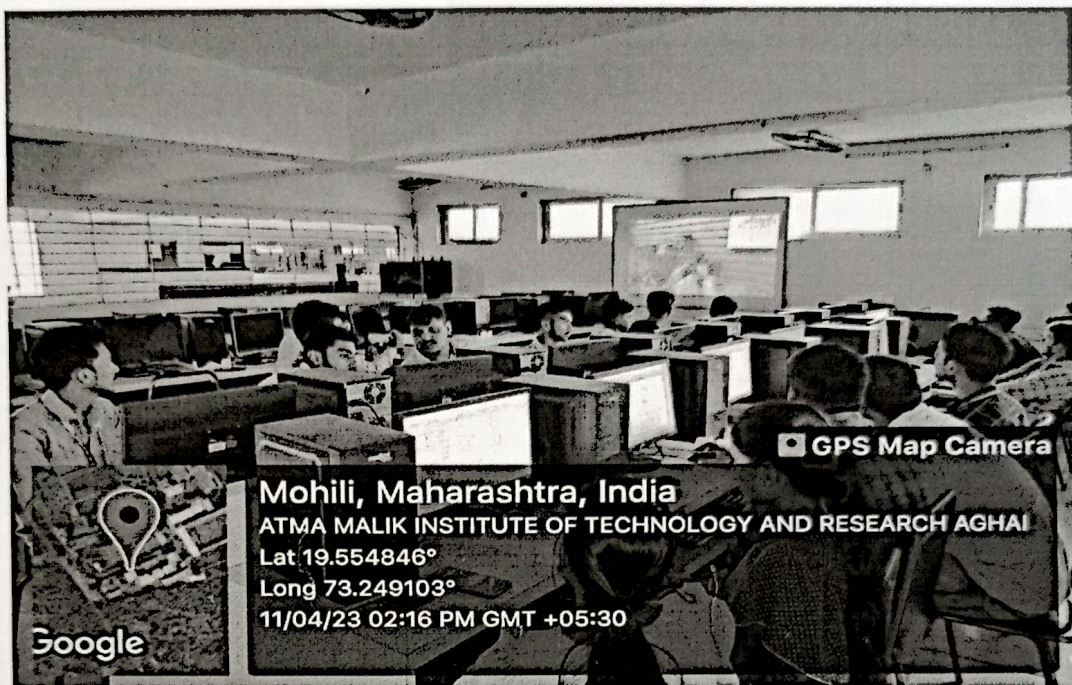


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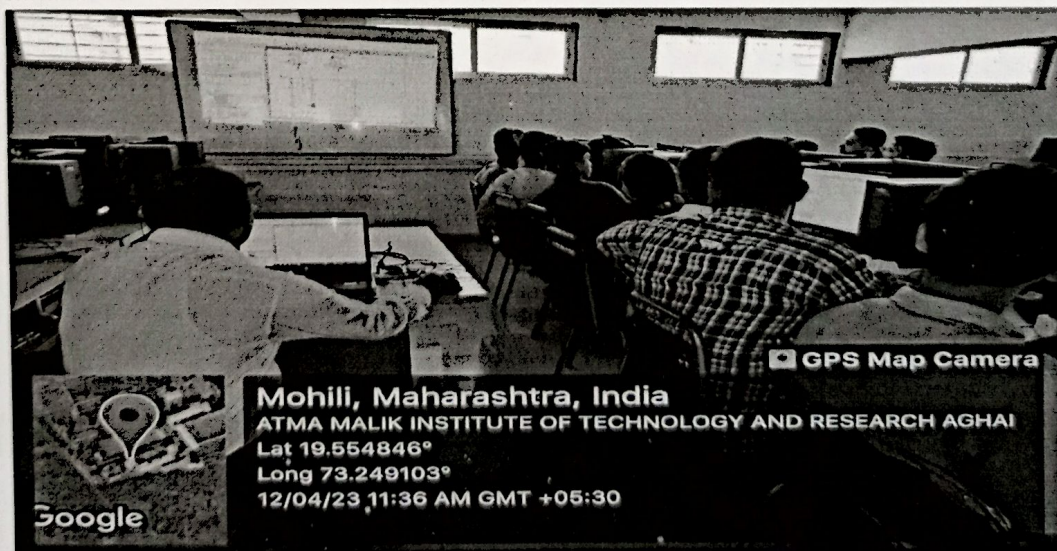
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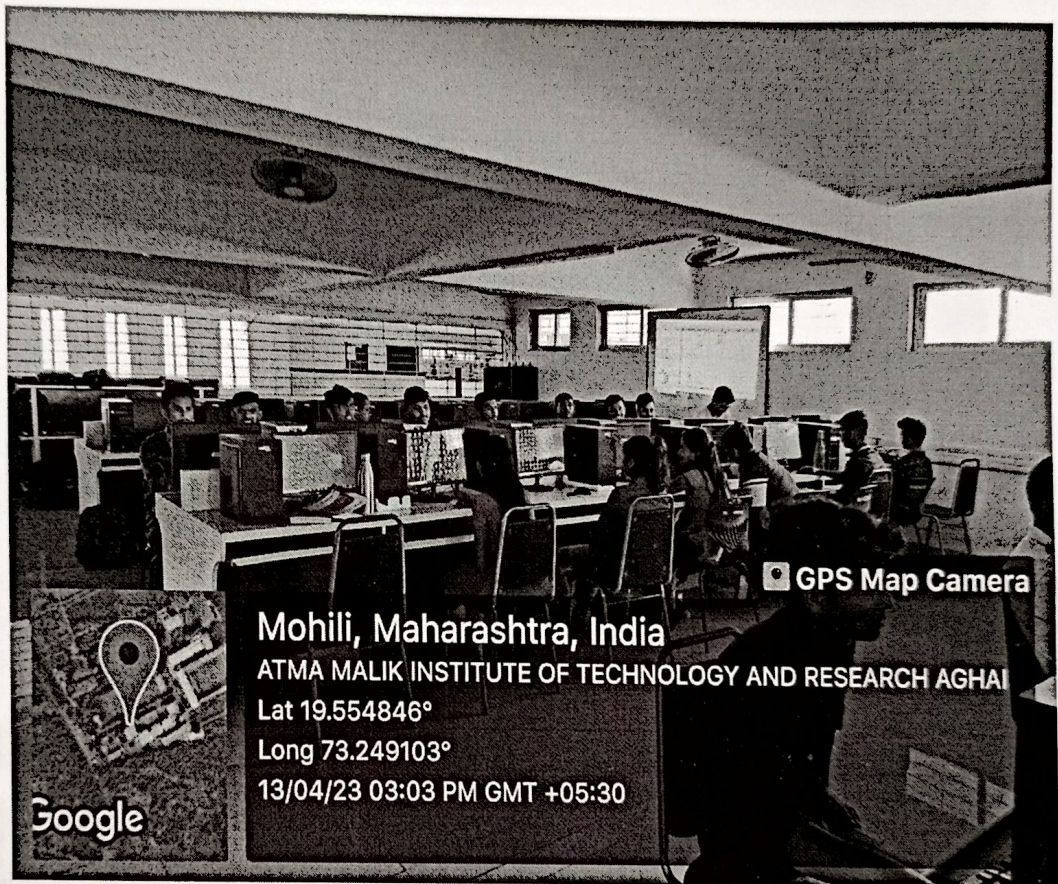
Department of Mechanical Engineering



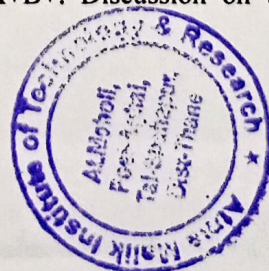
3. Lecture 3: Design of sequencing circuits using shift register and cascade method like the sequence $A+B+B-A-$ and $A+B+A-B-$ also $A+B+$ delay $B-A-$ and $A+B+$ delay $A-B$ -Design the counter balance circuit, regeneration circuits. Simulations of all these circuits on the simulation software.



4. Lecture 4: Design of the sequencing circuits with and without grouping and simulation on the software. Design of electro pneumatics circuit using direct and indirect methods. Design of electro pneumatic circuits by single solenoid directional control valve and double solenoid directional control valve. Design of the electropneumatic circuit by the following sequence A+B+A-B- and A+B+B-A-.



5. Lecture 5: Design of electro pneumatic circuit using 2 relay and 4 relay for the following sequence A+B+A-B- and A+B+B-A-. Also, design of the electropneumaic and electro hydraulic circuits by using delay on and delay off relay for the following sequence A+B+delay B-delayA-, delayA-delayB-A+B+. Discussion on the different circuits and finally we have taken Test and asses them.



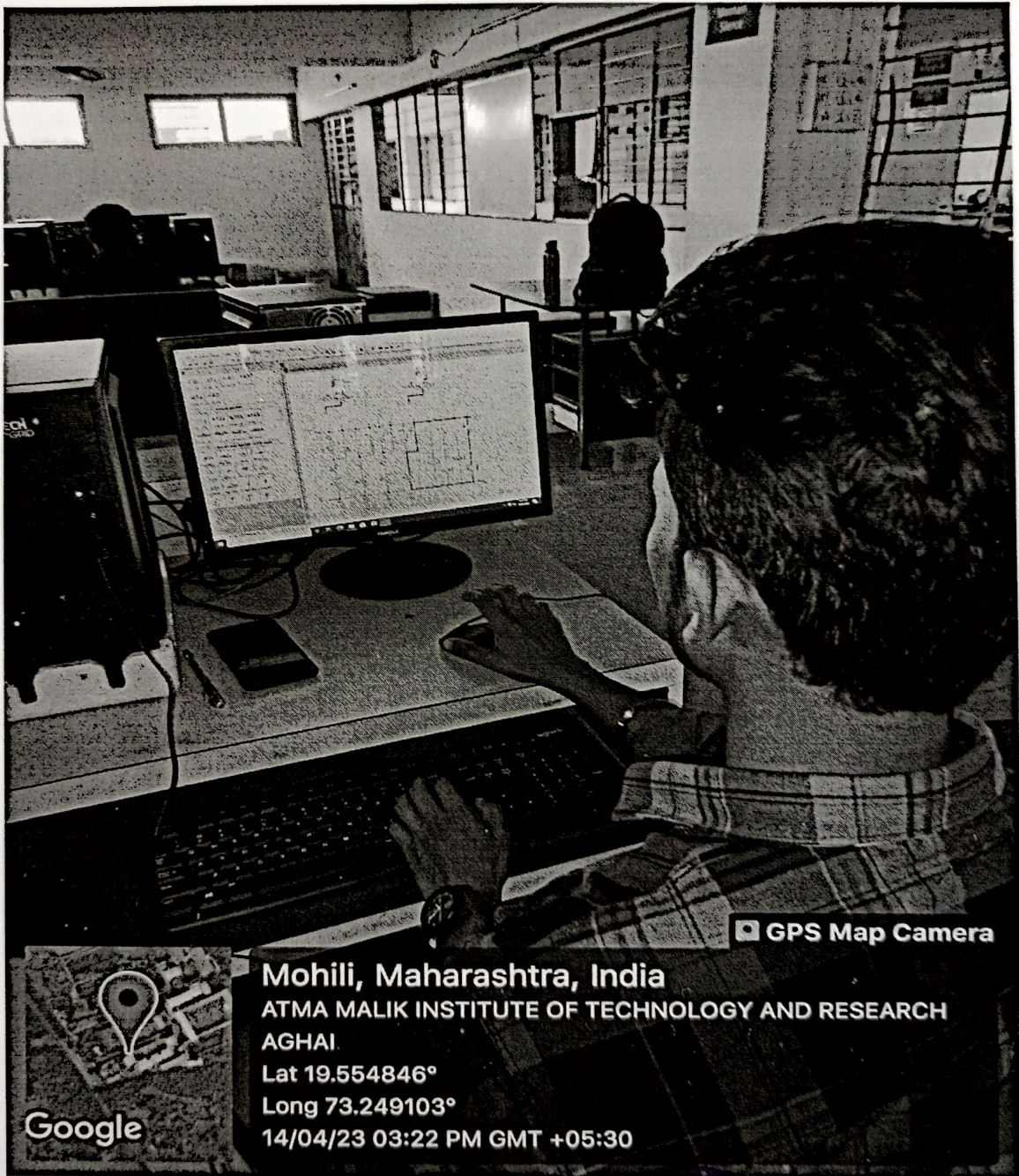
!! Sabka Malik Atma !!



Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research (AMRIT)

Department of Mechanical Engineering



GPS Map Camera



Mohili, Maharashtra, India

**ATMA MALIK INSTITUTE OF TECHNOLOGY AND RESEARCH
AGHAI**

Lat 19.554846°

Long 73.249103°

14/04/23 03:22 PM GMT +05:30





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Atma Malik Institute of Technology & Research
(AMRIT)

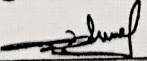


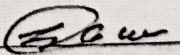
CERTIFICATE OF COMPLETION

This is to certify that

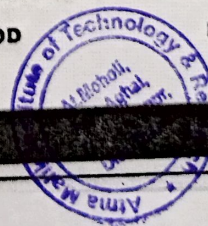
*Mr./Ms Kailas B. Pachalkar of Class SE/TE/BE
Mechanical has successfully completed the ADD On Course
titled "Fluid Simulation Using SIMs Software" organised by
Mechanical Engineering from 10/04/2023 to 14/04/2023.*


COURSE
INSTRUCTOR


PROGRAM
COORDINATOR

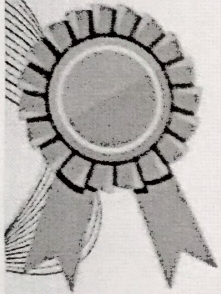

HOD


PRINCIPAL





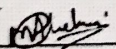
!! Sabka Malik Atma !!
Vishwatmak Jangli Maharaj Ashram Trust's
Atma Malik Institute of Technology & Research
(AMRIT)

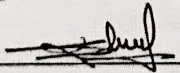


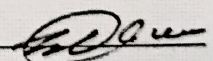
CERTIFICATE OF COMPLETION

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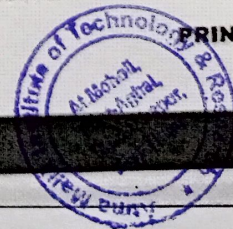
*Mr./M/s Sanket V. Patel of Class SE/TE/BE
Mechanical has successfully completed the ADD On Course
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COURSE
INSTRUCTOR


PROGRAM
COORDINATOR


HOD


PRINCIPAL





॥ Sabka Malik Atma ॥
Vishwatmak Jangli Maharaj Ashram Trust's

Atma Malik Institute of Technology & Research
(AMRIT)



CERTIFICATE OF COMPLETION

This is to certify that

*Mr./M/s Ganesh S. Raut of Class SE/TE/BE
Mechanical has successfully completed the ADD On Course
titled "Fluid Simulation Using SIMs Software" organised by
Mechanical Engineering from 10/04/2023 to 14/04/2023.*

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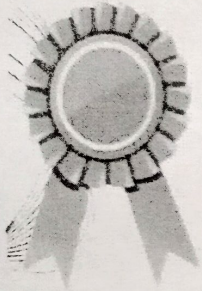
PRINCIPAL





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Atma Malik Institute of Technology & Research
(AMRIT)



CERTIFICATE OF COMPLETION

This is to certify that

*Mr./Ms Hemlata R. Mahale of Class SE/TE/BE
Mechanical has successfully completed the ADD On Course
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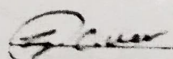
CERTIFICATE OF COMPLETION

This is to certify that

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