



Late Purushottam Hari (Ganesh) Patil Shikshan Sanstha's
Mauli Group of Institution's,
College of Engineering & Technology, Shegaon.



Department of Mechanical Engineering

Session: 2026-2027

ISTE Membership No : IM 2194

Faculty Chapter No : MAH-204

Student Chapter No : MH-330

Activity Report on

“ISTE Approved Short Term Training Program on Computational Fluid Dynamics (CFD)”

◆ **Title of the Program** :- ISTE Approved Short Term Training Program on
Computational Fluid Dynamics (CFD)

📺 **Type:** ☒ STTP ☐ FDP ☐ Workshop ☐ Webinar

✓ **Approving Body** :- Indian Society for Technical Education (ISTE)

🏠 **Organized by** :- Mechanical Engineering, MGI-COET, Shegaon

👤 **Resource Person** :- Kiran

📍 **Venue** :- CAD Lab, MGI-COET, Shegaon, Maharashtra

🕒 **Duration** :- 6 Days

📅 **Dates** :- 27th July 2026 to 01st August 2026

🏠 **Mode** :- Offline

🎓 **Total Number of Students Participated**:- 41

👤 **Total Number of Faculty Participated**:-11

👥 **Programme Coordinator/s** :- 1) Prof. A. P. Bawne, 2) Prof. V. M. Gawali

Objective of the Training Program

The primary objective of the 6 Days STTP on CFD was to provide participants with in-depth knowledge of Computational Fluid Dynamics (CFD) and its direct application. The program aimed to bridge the gap between digital Simulation and physical product realization using modern CFD Tool.

1. Understand the fundamentals of Computational Fluid Dynamics (CFD).



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2. Learn the governing equations of fluid flow.
3. Generate computational meshes for CFD analysis.
4. Apply appropriate boundary conditions and turbulence models.
5. Perform internal and external flow simulations using ANSYS Fluent.
6. Analyze heat transfer and fluid flow problems.
7. Visualize and interpret CFD simulation results.

Program Details

The programme commenced with a warm welcome by the Programme Coordinators, **Prof. A. P. Bawne** and **Prof. V. M. Gawali**, who welcomed the dignitaries, resource person, faculty members, and student participants. They briefed the audience about the objectives, significance, and five-day schedule of the **ISTE Approved Short Term Training Program (STTP) on Computational Fluid Dynamics (CFD)** and encouraged all participants to actively engage in the technical sessions.

Thereafter, **Hon'ble Dr. R. B. Ingle, Head of the Department, Mechanical Engineering**, addressed the gathering and highlighted the growing importance of Computational Fluid Dynamics in modern engineering. He emphasized the role of CFD in product design, thermal analysis, fluid flow simulation, optimization, and industrial problem-solving, motivating the participants to enhance their technical knowledge and practical skills in simulation-based engineering.

After the inaugural session, the technical sessions were formally initiated. The Resource Person, **Miss. Kiran**, conducted the sessions in a systematic and interactive manner. He introduced the participants to the fundamentals of Computational Fluid Dynamics, covering fluid flow principles, governing equations, numerical methods, mesh generation, boundary conditions, solver settings, convergence criteria, and post-processing techniques.



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Throughout the Six-day STTP, Miss. Kiran demonstrated the complete CFD workflow using industry-relevant software and practical case studies. Participants gained hands-on experience in geometry preparation, meshing, simulation setup, solution monitoring, result visualization, and interpretation of CFD outputs such as velocity contours, pressure distribution, temperature fields, streamlines, and flow trajectories. Real-world engineering applications from automotive, aerospace, thermal systems, and manufacturing industries were also discussed to bridge the gap between theory and practice.

Circular or Brochure

The circular/brochure is a promotional flyer for a Short Term Training Program (STTP) on Computational Fluid Dynamics (CFD). It features the logos of the organizing institution and ISTE at the top. The main title is "COMPUTATIONAL FLUID DYNAMICS (CFD)". Below the title, there is a table of details: Title of the Program, Type (STTP), Approving Body (ISTE), Organized by (Mechanical Engineering, MGI-COET, Shegaon), Resource Person (Kiran), Venue (CAD Lab, MGI-COET, Shegaon, Maharashtra), Duration (5 Days), Dates (27th July 2026 to 31st August 2026), and Mode (Offline). A central image shows a car with flow streamlines. To the right, there are three small images labeled "Velocity Contour", "Pressure Contour", and "Flow Analysis". Below the table, it states "41 Total Number of Students Participated" and "11 Total Number of Faculty Participated". The Programme Coordinators are Prof. A. P. Sawane and Prof. V. M. Gawali. The bottom section includes the tagline "LEARN • SIMULATE • ANALYZE • INNOVATE" and "ADVANCING ENGINEERING THROUGH CFD", along with social media links and the website address.

MAULI GROUP OF INSTITUTION'S
COLLEGE OF ENGINEERING & TECHNOLOGY SHEGAON
AICTE Approved Affiliated to Sant Gadge Baba Amravati University, Amravati

DEPARTMENT OF MECHANICAL ENGINEERING
ORGANIZES

ISTE Approved Short Term Training Program on
COMPUTATIONAL FLUID DYNAMICS (CFD)

★ Title of the Program :-
ISTE Approved Short Term Training Program on Computational Fluid Dynamics (CFD)

► Type: ☒ STTP ☐ FDP ☐ Workshop ☐ Webinar

✓ Approving Body :- Indian Society for Technical Education (ISTE)

Organized by :- Mechanical Engineering, MGI-COET, Shegaon

Resource Person :- Kiran

Venue :- CAD Lab, MGI-COET, Shegaon, Maharashtra

Duration :- 5 Days

Dates :- 27th July 2026 to 31st August 2026

Mode :- Offline

CFD SIMULATE. ANALYZE. INNOVATE.

41 Total Number of Students Participated

11 Total Number of Faculty Participated

PROGRAMME COORDINATOR/S

1 Prof. A. P. Sawane
Programme Coordinator

2 Prof. V. M. Gawali
Programme Coordinator

LEARN • SIMULATE • ANALYZE • INNOVATE **ADVANCING ENGINEERING THROUGH CFD**

mgicoet_official **/maulicoe** **www.mauligroup.org**



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Day-wise / Session-wise Summary of Proceedings

Day / Date	Session Timing	Topic Covered	Key Takeaways
Day 1 27/07/2026	10:00–13:00 14:00–17:00	Introduction to CFD & Governing Equations	Understood mathematical modeling of fluid flow, continuity, momentum, and energy equations.
Day 2 28/07/2026	10:00–13:00 14:00–17:00	Discretization Techniques (FDM, FVM, FEM)	Gained clarity on Finite Volume Method formulations and boundary condition setups.
Day 3 29/07/2026	10:00–13:00 14:00–17:00	CAD Geometry Pre-processing & Grid Generation	Practiced mesh generation techniques, surface meshing, grid independence study, and inflation layers.
Day 4 30/07/2026	10:00–13:00 14:00–17:00	Turbulence Modeling & Internal/External Flow	Analyzed RANS models ($k-\epsilon$, $k-\omega$ SST) and simulated pipe/airfoil flow fields.
Day 5 31/07/2026	10:00–13:00 14:00–17:00	Heat Transfer & Multiphase Flow Modeling	Modeled conjugate heat transfer, thermal boundary layers, and free surface flows.
Day 6 01/08/2026	10:00–13:00 14:00–16:00	Post-processing, Validation, Test & Valedictory.	Learned contour/vector plot visualization, residual convergence checking, and conducted final post-test.



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6 Days STTP Highlights



Geotag Photos for 6 Day STTP on Computational Fluid Dynamics



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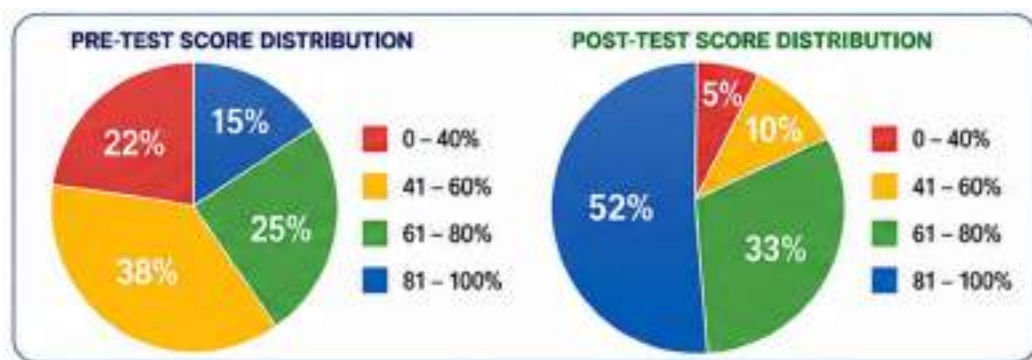
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Pre-Test And Post-Test Analysis

A Pre-Test was conducted before the STTP on Computational Fluid Dynamics (CFD) to assess participants' existing knowledge. After the five-day programme, a Post-Test was conducted to evaluate learning improvement.

Parameter	Pre-Test	Post-Test
Total Participants	52	52
Average Score	46%	87%
Highest Score	78%	98%
Lowest Score	22%	68%
Participants Scoring Above 80%	5	42



Analysis

- Participants showed substantial improvement in CFD concepts.
- Hands-on ANSYS Fluent sessions enhanced simulation skills.
- Confidence in simulation setup and result interpretation improved.
- Post-test results confirm achievement of learning objectives and programme outcomes.



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Result

Average Pre-Test Score **46%**

Average Post-Test Score: **87%**

Overall Improvement: **41**

Certificate Distributed to the Participant



Distribution of Certificates to Participants



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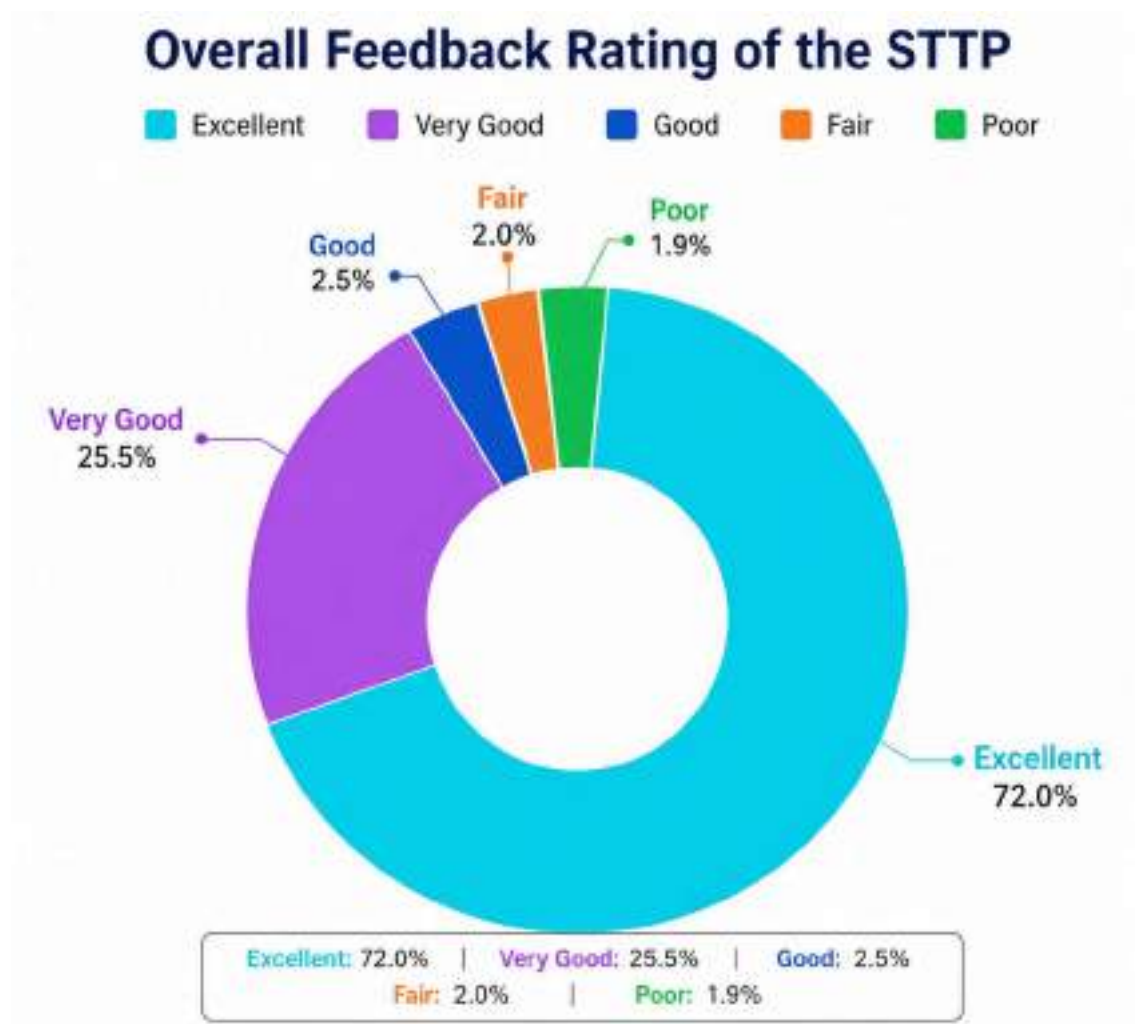
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Feedback

Participants expressed high satisfaction with the quality of the sessions and the depth of content covered. They appreciated the practical sessions, which allowed them to apply the theoretical knowledge gained during the lectures. The feedback indicated that the training program was a valuable learning experience and would be beneficial for future research and technical Skill.





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Program Outcomes

After successful completion of the **ISTE Approved Short Term Training Program (STTP) on Computational Fluid Dynamics (CFD)**, the participants will be able to:

1. **Understand** the fundamental concepts and principles of Computational Fluid Dynamics (CFD) and its engineering applications.
2. **Apply** the governing equations of fluid flow and heat transfer to formulate and solve engineering problems.
3. **Select and implement** appropriate boundary conditions, turbulence models, and numerical solution methods for different fluid flow problems.
4. **Perform** steady-state and transient simulations of internal and external flow problems using **ANSYS Fluent**.
5. **Analyze** fluid flow, heat transfer, pressure distribution, and thermal performance in engineering systems using CFD tools.
6. **Evaluate** the accuracy and reliability of CFD results by assessing convergence, mesh quality, and validation techniques.
7. **Apply** CFD knowledge to solve real-world engineering problems in automotive, aerospace, manufacturing, thermal systems, and energy applications.

These programme outcomes are aligned with the objectives of the STTP and emphasize both theoretical understanding and practical proficiency in Computational Fluid Dynamics.


Prof. A. P. Bawne
ISTE Dept. Coordinator




Dr. R. B. Ingle
HOD / ISTE Secretary
Head of Department
Mechanical Engineering
Mauli Group of Institution's
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Attendance Sheet

Topic: ISTE Approved STTP on CFD

Venue: CAD Lab

Trainer: Kiran

Time: 10:00 AM to 05:00 PM

Sr. No	Name of Participant	27/07/2026	28/07/2026	29/07/2026	30/07/2026	31/07/2026
1	Gayatri A. Fakhad					
2	Ketutiled. V. Bhand					
3	Yogita D. Namathkar					
4	Bhakti S. Khot	B.S.Khot	B.S.Khot	B.S.Khot	B.S.Khot	B.S.Khot
5	Sorniksha kedare					
6	Grauci M. Rout	G.M.Rout	G.M.Rout	G.M.Rout	G.M.Rout	G.M.Rout
7	Beatiksha T. Jowalkar					
8	Ashwini G. Mettkar					
9	Eshwasi N Dhurmale					
10	Poyai D. Janulkar					
11	Jukta D. Dabhade					
12	Minakshi Ujjainkar					
13	Neha Adhav					
14	Sakshi Kapse					
15	Vaishnavi Rotte					

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 ISTE Dept. Coordinator



Dr. R. B. Ingle
 HOD / ISTE Secretary

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16	Bhakti M. Bhise	Bhise	Bhise	Bhise	Bhise	Bhise
17	Sayli S. Barade	SS Barade	SS Barade	SS Barade	SS Barade	SS Barade
18	Chaitali Kulkarni	Chaitali	Chaitali	Chaitali	Chaitali	Chaitali
19	Krutika Bhande	KB	KB	KB	KB	KB
20	Asha N. Kulkarni	Asha	Asha	Asha	Asha	Asha
21	Om V. Deshmukh	Om Deshmukh	Om Deshmukh	Om Deshmukh	Om Deshmukh	Om Deshmukh
22	Pratham P. Tikar	Pratham	Pratham	Pratham	Pratham	Pratham
23	Shlok Kediya	SK	SK	SK	SK	SK
24	Radhekrishna Joshi	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh
25	Abhishek G. Mehta	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
26	Tushar L. Chitte	Tushar	Tushar	Tushar	Tushar	Tushar
27	Yash R. Bhagwat	YRB	YRB	YRB	YRB	YRB
28	Vinod V. Pate	Vinod	Vinod	Vinod	Vinod	Vinod
29	Aaditya V. Kulkarni	Aaditya	Aaditya	Aaditya	Aaditya	Aaditya
30	Rajot M. Dambore	Rajot	Rajot	Rajot	Rajot	Rajot

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Sr. No	Name of Participant	27/07/2026	28/07/2026	29/07/2026	30/07/2026	31/07/2026
31	Atharva Sontakke					
32	Nitish A. Bayaskar	N.A. Bayaskar	N.A. Bayaskar	N.A. Bayaskar	N.A. Bayaskar	N.A. Bayaskar
33	Tushar V. Fursule					
34	Akash K. Verulkar					
35	Chaitanya H. Bole					
36	Bhushan Sultane					
37	Jeetu Raut					
38	Durgesh Jhore					
39	Kunal L. Dhanekar					
40	Pratik Patil					
41	Aaditya Gore					
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Sr. No	Name of Participant	01/08/2027
1	Atharva N. Kotte	<u>W.Kotte</u>
2	O.M.V. Deshmukh	<u>Deshmukh</u>
3	Shlok Kediya	<u>SM</u>
4	Prathamesh Tikar	<u>Prath</u>
5	Abhishek G. Metkar	<u>Abhishek</u>
6	Radhakrishna Jashi	<u>R.Jashi</u>
7	Tushar Chitte	<u>Tushar</u>
8	Yash Bhagwatkar	<u>Yash</u>
9	Vikendra Pote	<u>V.Pote</u>
10	Aaditya Kotte	<u>A.Kotte</u>
11	Rajot Damhare	<u>Rajot</u>
12	Atharva Sontakke	<u>A.Sontakke</u>
13	Nitish ^A Bayaskar	<u>N.A.Bayaskar</u>
14	Tushar N. Fursule	<u>T.N.Fursule</u>
15	Kunal C. Phansalkar	<u>K.Phansalkar</u>

Sr. No	Name of Participant	01/08/2027
16	Sayli S. Borade	<u>S.Borade</u>
17	Bhakti M. Bhise	<u>Bhise</u>
18	Vaishnavi Rottu	<u>V.Rottu</u>
19	Sakshi Kalpe	<u>S.Kalpe</u>
20	Neha Adhav.	<u>N.Adhav</u>
21	Minakshi Ujainkar	<u>M.Ujainkar</u>
22	Payal D. Lanjekar	<u>P.Lanjekar</u>
23	Yusra Dobhadre	<u>Y.Dobhadre</u>
24	Eshwari Dhurnale	<u>E.Dhurnale</u>
25	Anwini Metkar	<u>A.Metkar</u>
26	Pratiksha Jankar	<u>P.Jankar</u>
27	Crucis Rout	<u>C.M.Rout</u>
28	Sanniksha Kedare	<u>S.Kedare</u>
29	Bhakti S. Khat	<u>B.S.Khat</u>
30	Aaditya S. Grore	<u>A.Grore</u>

Prof. A. P. Bawne
ISTE Dept. Coordinator



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Topic: ISTE Approved STTP on CFD

Venue: CAD Lab

Trainer: Kiran

Time: 10:00 AM to 05:00 PM

Sr. No	Name of Participant	01/08/2027
31	Yagita Mamalkar	<i>[Signature]</i>
32	Durgesh ghore	<i>[Signature]</i>
33	Bhushan Sultane	<i>[Signature]</i>
34	Jejas Raut	<i>[Signature]</i>
35	Chaitanya Bole	<i>[Signature]</i>
36	Akash Venutkar	<i>[Signature]</i>
37	Pratik Patilkar	<i>[Signature]</i>
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[Signature]
Prof. A. P. Bawne
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[Signature]
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1	Prof. V. M. Gawali					
2	Prof. Y. P. Tidke					
3	Prof. A. V. Sawkate					
4	Prof. S. J. Thakur					
5	Prof. T. Z. Ammal					
6	Prof. S. S. Bheday					
7	Dr. R. M. Khisrogi					
8	Prof. D. B. Vaitkar					
9	Prof. A. P. Bawne					
10	Dr. P. B. Togle					
11	Prof. Pannu Girde					
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15						

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Sr. No	Name of Participant	01/08/2027
1	Prof. V. M. Gawali	<i>Gawali</i>
2	Prof. Y. P. Tidke	<i>Tidke</i>
3	Prof. A. V. Sarekat	<i>Sarekat</i>
4	Prof. S. S. Thaker	<i>Thaker</i>
5	Prof. T. Z. Ahmad	<i>Ahmad</i>
6	Prof. S. S. Bhadani	<i>Bhadani</i>
7	Dr. R. M. Kshirsagar	<i>Kshirsagar</i>
8	Prof. D. B. Vaitheal	<i>Vaitheal</i>
9	Prof. A. P. Bawne	<i>Bawne</i>
10	Dr. R. B. Ingole	<i>Ingole</i>
11	Prof. Ramesh Purohit	<i>Purohit</i>
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Sr. No	Name of Participant	01/08/2027
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[Signature]
Prof. A. P. Bawne
 ISTE Dept. Coordinator



[Signature]
Dr. R. B. Ingole
HOD / ISTE Secretary
 Head of Department
 Mechanical Engineering
 Mauli Group of Institution's
 College of Engineering & Technology
 Shegaon Dist. Buldhana



Indian Society for Technical Education

Shaheed Jeet Singh Marg, Near Katwaria Sarai, New Delhi – 110016

Name and Address of Host Institution

Name: M. G. OF INSTITUTION'S COLLEGE OF ENGG. & TECH

Email: rahul4ingle@gmail.com

Phone: 9730752607

Website: -

Address: KHAMGAON ROADSHEGAON-

City: DIST. BULDHANA

State: MAHARASHTRA

Pincode: 444203

Incharge Details

First Name: Dr. S. R

Last Name: Paraskar

Email: principal@maulicoet.org

Phone: 9422920644

Designation: Professor

Program Details (SHORT-TERM TRAINING PROGRAMME ON COMPUTATIONAL FLUID DYNAMICS (CFD))

Program intended for: Student and Teachers

Specialization Area: Mechanical

Course Type: Special course on Emerging areas

Proposal Category: Industry-based programmes with substantial involvement of industry and its experts

Program Duration: One week

Proposed Program Start Date: 2026-07-27

Proposed Program End Date: 2026-08-01

Having enough expertise within your institute and neighboring places: Yes

Course Coordinator Details

Field	Coordinator 1	Coordinator 2
Name	Amol P Bawne	Vaibhav M Gawali
Email	amolbawane12991@gmail.com	vaibhavgawali13@gmail.com
Phone	9657443244	8999309186
Telephone	09657443244	08999309186
Address	KHAMGAON ROADS, SHEGAON	KHAMGAON ROADSHEGAON-
Designation	Assistant Professor	Assistant Professor
Highest Qualification	M E	M E
Area of Specialization	CAD CAM	Mechanical
Teaching Experience	11	7
Industry Experience	-	-
Papers Published	5	2
Short-Term Course Attended	5	3
Short-Term Course Conducted	3	3

Course Details

Significance and Objectives: Understand the fundamentals of Computational Fluid Dynamics, Apply appropriate boundary conditions and turbulence models

Course Content/Coverage

Topic	Duration	Subject Expert
Introduction to CFD	5	Kiran
Mesh Generation	7	Kiran
Boundary Conditions	8	Kiran
Flow Analysis	5	Kiran
Result Interpretatio	5	Kiran
CFD Validation	5	Kiran

Course Schedule

Total Days	Lectures	Practicals	Visits	Others	Total Hours
6	10	25	2	1	38

Details of Equipment or Laboratory Facilities: Computer

Collaboration with Regulating Authority / Department

Expert Name	Organisation	Nature of Collaboration	Area of Expertise
Kiran	Gryphon	Training	Design

Details of Course Faculty

Name	Designation	Institute	Highest Qualification	Specialization
Kiran	Design Engineer	Gryphon	M E	Design

Audio Visuals and Mode of Course

Audio Visuals: Smart Classroom, LCD Projector

Mode of Course: Offline

Institute Membership and Chapter Details

IM Certificate Number: 2194

Chapter Certificate Number: MAH 204

Does your institution have an ISTE Faculty Chapter: Yes

Certified By Coordinator

Name: Dr Rahul Ingle

Place: SHEGAON

Date: 18 Jul 2026

Certified By Principal

Name: Dr S R Paraskar

Place: SHEGAON

Date: 18 Jul 2026