



SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION - 3

RESEARCH, INNOVATION & EXTENSIONS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING



DEPARTMENT OF MECHANICAL ENGINEERING

Ref: SCE / MECH /Students / RM / 2020 – 2021 / EVEN

24.05.2021

CIRCULAR

In order to address the recent research issues in the field of multi-disciplinary Engineering areas and to overcome such research issues, Department of Mechanical Engineering in association with IQAC of our Institution, is planning to conduct one day seminar for the students of I and II year of MECII on the title “Computational Fluid Dynamics Research Techniques” on 29.05.2021. At the end of the programme, participation certificates will be issued to the participants.

Resource Person Details	E.K.Ponnusamy, CEO, Ramdevs Motors, Coimbatore – 641402.	Mr.N.Karthick, Manager, Ramdevs Motors, Coimbatore – 641402.
Venue	Online Gmeet - “https://meet.google.com/mhc-jqrm-bcj”	

V. P. 

HoD/MECH




PRINCIPAL

Copy to:

1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class In charges - I and II year of MECH
5. I and II year of MECH Students
6. MECH Notice Board
7. Department File


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL

 SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



SASURIE COLLEGE OF ENGINEERING

Vijayamangalam, Tiruppur

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai - 600025)

DEPARTMENT OF MECHANICAL ENGINEERING

in association with IQAC

Cordially invites

One day Research Methodology Programme (RM)

On

“Computational Fluid Dynamics Research Techniques”

Date : 29.05.2021

Venue: Online Gmeet - "<https://meet.google.com/mhc-jqrm-bcj>"

Resource Persons

Mr.E.K.Ponnusamy,
CEO,
Ramdevs Motors,
Coimbatore-641402.

Mr.N.Karthick,
Manager,
Ramdevs Motors,
Coimbatore-641402.

in the esteemed presence of

Dr.E.Nandhakumar

Principal

Shri A.M.Kandaswami
Chairman

Ms. K. Savitha Moganraj
Secretary

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF MECHANICAL ENGINEERING

Students Participation List – Research Methodology Programme


“Computational Fluid Dynamics Research Techniques”

On 29.05.2021

Academic Year : 2020 -2021 /EVEN

S.No.	Reg No.	Name of the Student	Year / Branch
1.	732419114001	AMULRAJ P	II/MECH
2.	732419114002	ARUNKUMAR B	II/MECH
3.	732419114003	KAVIKRISHNAN P	II/MECH
4.	732419114004	KISHORE B	II/MECH
5.	732419114006	PAVENDHAR S	II/MECH
6.	732419114007	PRIYADHARSHAN G	II/MECH
7.	732419114008	SELVENTHIRAN S	II/MECH
8.	732419114010	THIRUNAVUKKARASU S	II/MECH
9.	732417114001	ALBERT STEEPHEN S	IV/MECH
10.	732417114003	ANITH KUMAR V	IV/MECH
11.	732417114004	ARAVINDAKUMAR G	IV/MECH
12.	732417114006	BALAJI C S	IV/MECH
13.	732417114007	BALAJI G	IV/MECH
14.	732417114010	DHAYANIDHI R	IV/MECH
15.	732417114011	DHINESH KUMAR K	IV/MECH
16.	732417114012	GANESHKUMAR P	IV/MECH
17.	732417114013	GOWTHAM M	IV/MECH
18.	732417114014	HARIHARAN M	IV/MECH
19.	732417114016	HARI KRISHNA M	IV/MECH
20.	732417114017	JAGADEESHIKUMAR M	IV/MECH
21.	732417114019	KALIRAJ R	IV/MECH
22.	732417114020	KAMALESH P	IV/MECH
23.	732417114023	KAVINKUMAR V	IV/MECH
24.	732417114025	KRISHNAMOORTHY P	IV/MECH
25.	732417114026	LOGAPRIYAN E	IV/MECH
26.	732417114028	MURUGANANDAM K	IV/MECH
27.	732417114029	MUTHUPANDI M	IV/MECH
28.	732417114031	MYTHERAYAN K	IV/MECH


Dr.M.VIJAYAKUMAR ME., Ph.D.,
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 Vijayamangalam - 638 056, Tirupur (Dt).

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S.No.	Reg No.	Name of the Student	Year / Branch
29.	732417114032	NITHISH KUMAR R	IV/MECH
30.	732417114033	POORAGAVAN P	IV/MECH
31.	732417114036	RAVIKUMAR R	IV/MECH
32.	732417114037	SANJAY P	IV/MECH
33.	732417114038	SANTHANAM P	IV/MECH
34.	732417114039	SATHYANARAYANAN S	IV/MECH
35.	732417114040	SHEIK BARIDH A	IV/MECH
36.	732417114041	SRIDHAR S	IV/MECH
37.	732417114042	SUGANRAJ P	IV/MECH
38.	732417114043	SURIYAPRAKASH P	IV/MECH
39.	732417114045	VASANTHA KUMAR S	IV/MECH
40.	732417114047	VELMURUGAN S	IV/MECH
41.	732417114048	VENGATESAN M	IV/MECH
42.	732417114049	VETRIVEL S	IV/MECH
43.	732417114050	VIGNESHWARAN R	IV/MECH
44.	732417114052	VIJIPRIYADHARSAN P	IV/MECH
45.	732417114053	VISHNUKUMAR S	IV/MECH
46.	732417114301	HEYSON K J	IV/MECH
47.	732417114501	VIGNESH K S	IV/MECH
48.	732417114503	DHANANJAYAN K	IV/MECH
49.	732417114701	ARUN KUMAR K	IV/MECH
50.	732417114702	MYTHILI G	IV/MECH
51.	732417114703	JAMES JAYA PRAKASH G	IV/MECH
52.	732417114704	VIJAY ANAND S	IV/MECH
53.	732417114705	PRAVEEN KUMAR R	IV/MECH
54.	732417114706	AJITHA A	IV/MECH
55.	732417114707	THIRUMOORTHINANDHA R	IV/MECH


 S. A. Murali
 Event Coordinator


 V. P. Prasad
 HoD/MECH


Dr. M. VIJAYAKUMAR ME., Ph.D.,
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 SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF MECHANICAL ENGINEERING

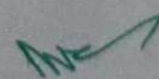
Students Attendance List – Research Methodology Programme

“Computational Fluid Dynamics Research Techniques”

On 29.05.2021

Academic Year : 2020 -2021 /EVEN

S.No.	Reg No.	Name of the Student	Year / Branch	29.05.2021	
				FN	AN
1.	732419114001	AMULRAJ P	II/MECH	/	/
2.	732419114002	ARUNKUMAR B	II/MECH	/	/
3.	732419114003	KAVIKRISHNAN P	II/MECH	/	/
4.	732419114004	KISHORE B	II/MECH	/	/
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6.	732419114007	PRIYADHARSHAN G	II/MECH	/	/
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27.	732417114029	MUTHUPANDI M	IV/MECH	/	/
28.	732417114031	MYTHERAYAN K	IV/MECH	/	/


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53.	732417114705	PRAVEEN KUMAR R	IV/MECH	/	/
54.	732417114706	AJITHA A	IV/MECH	/	/
55.	732417114707	THIRUMOORTHINANDHA R	IV/MECH	/	/

S.A. [Signature]

Event Coordinator

V.P. [Signature]

HoD/MECH

[Signature]

Dr. M. VIJAYAKUMAR ME., Ph.D.,
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Report on Research Methodology Programme

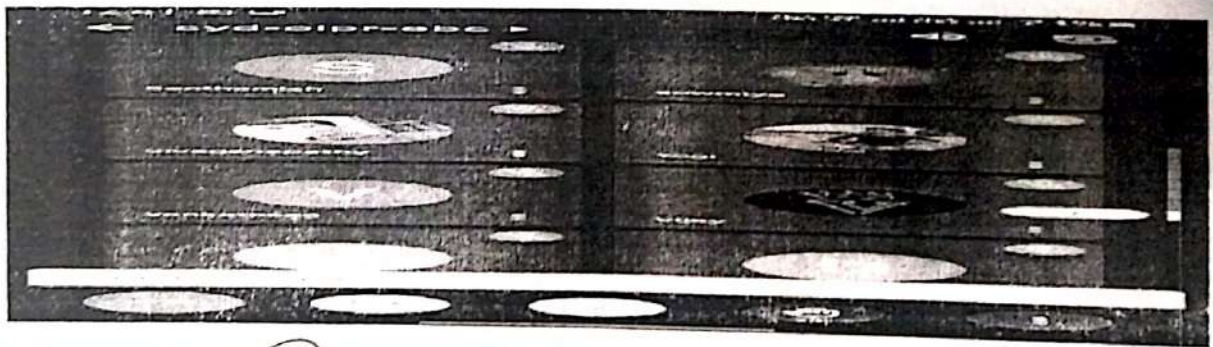
Title:	Computational Fluid Dynamics Research Techniques		
Resource Person:	E.K.Ponnusamy, CEO, Ramdevs Motors, Coimbatore – 641402.	Mr.N.Karthick, Manager, Ramdevs Motors, Coimbatore – 641402.	
Date of conduct ON :	29.05.2021	To: -	Duration: 1 Day
Organized by :	MECHANICAL ENGINEERING in association with IQAC of our Institution		
Academic Year:	2020 – 2021	Semester:	EVEN
Participant Year:	I & II Year -MECH	No. of Students Participated:	55
Venue:	Online Gmeet - " https://meet.google.com/mhc-jqrm-bcj "		

Outcome of Research Methodology Programme

At the end of the Research Methodology Programme, Students can be able to

- Gain a comprehensive understanding of the principles of fluid dynamics, including conservation laws, flow regimes, turbulence modeling, and boundary layer theory.
- Learn preprocessing techniques for CFD simulations, including geometry creation, mesh generation, and boundary condition specification, using software tools such as ANSYS Fluent, OpenFOAM.
- Explore different solution methods used in CFD simulations, including steady-state and transient solvers, implicit and explicit solvers, and pressure-velocity coupling algorithms.
- Learn techniques for verifying and validating CFD simulations, including grid independence studies, benchmark comparisons.
- Through hands-on exercises and case studies, participants will have the opportunity to apply CFD research techniques to real-world engineering problems, enhancing their practical skills and understanding of CFD methodologies.

Glimpse of Research Methodology Programme Photos



S. A. Murali
Event Co-ordinator

V. P. Deepak
HoD/ MECH

S. A. Murali
Principal

me

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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Vijayamangalam - 638 056, Tirupur (Dt).



SASURIE COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Vijyamangalam, Tiruppur

CERTIFICATE OF PARTICIPATION

This is to Certify that Mr. THIRUNAVUKKARASU S. II / MECH
has participated in the Research Methodology Workshop on
"Computational Fluid Dynamics Research Techniques" conducted by the
Department of Mechanical Engineering in association with "Ramdevs Motors" and
IQAC of Sasurie College of Engineering on 29.05.2021 during the Academic year
2020-2021.

V. P. S.

IQAC Co-ordinator

M. V. K.

Dr. M. VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijyamangalam - 638 056, Tirupur (Dt).

T. J. M. C.

Principal




SASURIE COLLEGE OF ENGINEERING

(Approved by AICTE, New De'hi & Affiliated to Anna University, Chennai)

Vijyamangalam, Tiruppur

CERTIFICATE OF PARTICIPATION

This is to Certify that Mr . HARIHARAN M, IV / MECH
has participated in the Research Methodology Workshop on
"Computational Fluid Dynamics Research Techniques" conducted by the
Department of Mechanical Engineering in association with "Ramdevs Motors" and
IQAC of Sasurie College of Engineering on 29.05.2021 during the Academic year
2020-2021.


IQAC Co-ordinator


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijyamangalam - 638 056, Tiruppur (Dt).


Principal



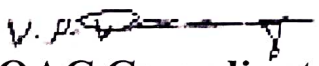
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Vijyamangalam, Tiruppur

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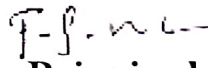
This is to Certify that Mr. BALAJI C S, IV / MECH
has participated in the Research Methodology Workshop on
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2020-2021.



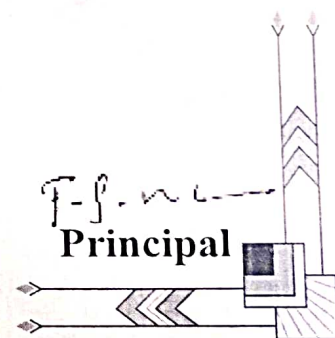
IQAC Co-ordinator



Dr. M. VIJAYAKUMAR ME., Ph.D.,
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Principal





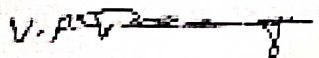
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Vijyamangalam, Tiruppur

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This is to Certify that Mr . ANITH KUMAR V. IV / MECH
has participated in the Research Methodology Workshop on
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IQAC of Sasurie College of Engineering on 29.05.2021 during the Academic year
2020-2021.


IQAC Co-ordinator


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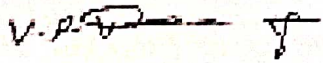
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This is to Certify that Mr . KAVIKRISHNAN P, II / MECH
has participated in the Research Methodology Workshop on
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IQAC Co-ordinator



Dr.M.VIJAYAKUMAR ME., Ph.D.,

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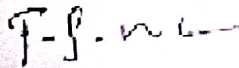
Vijyamangalam, Tiruppur

CERTIFICATE OF PARTICIPATION

This is to Certify that Mr. SELVENTHIRAN S, II / MECH
has participated in the Research Methodology Workshop on
"Computational Fluid Dynamics Research Techniques" conducted by the
Department of Mechanical Engineering in association with "Ramdevs Motors" and
IQAC of Sasurie College of Engineering on 29.05.2021 during the Academic year
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IQAC Co-ordinator


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Principal