



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

PERMISSION LETTER

Date: 01-03-2021

From

Mr. Prabhu C
Course Coordinator
Department of Mechanical Engineering
Christ the King Engineering College
Coimbatore

To

The Principal
Christ the King Engineering College
Coimbatore


Through : Head of The Department / Mechanical Engineering

Respected Sir,

Sub: Requesting permission to organize a Value Added Course on "Overview of CFD process: Pre-processing, solving, post-processing" - Reg.

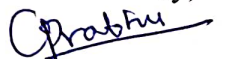
Department of Mechanical Engineering is planning to organize a Value Added Course on " Overview of CFD process: Pre-processing, solving, post-processing" from 03.03.2021 to 19.03.2021 for Final year Mechanical Engineering students. Mr. Hari Prasath R, Head of The Department, Department of Mechanical Engineering as a Resource Person. In this regard, we seek your permission to conduct the same in the CAD Lab from 03.03.2021 to 19.03.2021 from 4 pm to 7 pm. Kindly consider our request and grant the same.

Thanking You,


Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



Yours truly,



✓ Approved





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76725 Email: principal@ckec.ac.in Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING

Ref.No: CKEC/MECH/VAC/20-21/002

DATE: 02-03-2021

CIRCULAR

This is to inform that the department of Mechanical engineering is planning to conduct a value-added course on **“OVERVIEW OF CFD PROCESS: PRE-PROCESSING, SOLVING, POST-PROCESSING”** for all final year students on 03.03.2021 to 19.03.2021 Students are asked to register you and utilize this opportunity to improve their skills.

S. No	Course Code	Name of the Course	Department	No of Hours	Course Coordinator
1	VAME2004	OVERVIEW OF CFD PROCESS: PRE-PROCESSING, SOLVING, POST-PROCESSING	Mech	35	Mr. Prabhu C

Note: The circular Display in the department Notice board for student's attention.

Copy to:
Principal's Desk
Notice board


HOD / MECH


Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore- 641 104.

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



DEPARTMENT OF MECHANICAL ENGINEERING

Organizes

Value Added Course on

OVERVIEW OF CFD PROCESS: PRE-PROCESSING, SOLVING, POST-PROCESSING

03.03.2021 TO 19.03.2021 (4 TO 7PM)

Resource Person

Mr. R. Hari Prasath

Head of The Department

Department of Mechanical Engineering

For IV Year Students

CHIEF PATRON

DR. M. JEYAKUMAR

Principal

Venue:

CAD Lab

PATRON

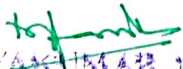
DR. R. HARI PRASATH

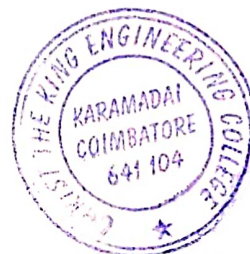
HOD / MECH

COORDINATOR

MR. C. PRABHU

AP / MECH


DR. M. JEYAKUMAR, M.E., P.H.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING

Course Code	VAME2004
Name Of the Course	OVERVIEW OF CFD PROCESS: PRE-PROCESSING, SOLVING, POST-PROCESSING
Duration Of the Course	35 Hours
Academic Year	2020-2021
Period Of the Course	15 Days

COURSE OBJECTIVES:

- Learn how to create geometry, generate grids, and specify equations and boundary conditions for a CFD simulation.
- Understand how commercial CFD solvers operate as “black boxes” and explore user interventions for specifying solution methods, discretization schemes, and convergence checks.
- Gain proficiency in extracting and manipulating relevant data from raw solver outputs, such as field variables, surface pressures, shear stresses, and cell-face areas.
- Familiarize yourself with popular commercial CFD codes like STAR-CCM+, Fluent, FLOW-3D, PowerFLOW, and COMSOL, which offer grid generation and flow visualization capabilities.
- Get acquainted with open-source CFD solvers like OpenFOAM and CodeSaturne, which require knowledge of C++ or Fortran for usage.

Syllabus

UNIT I - GEOMETRY DEFINITION & MESH GENERATION

(7)

Identify the domain of interest (fluid region) - Prepare the geometric model, ensuring it is free of errors (e.g., gaps, missing faces, overlapping surfaces) - Divide the domain into smaller segments (mesh cells or elements) - Generate a computational mesh (grid) that discretizes the geometry.

UNIT II – MATERIAL PROPERTIES

(7)

Define material properties (density, viscosity, thermal conductivity, etc.)

UNIT III – NUMERICAL SOLUTION

(7)

Solve the governing equations (e.g., Navier-Stokes equations) over the meshed model - Iteratively compute flow variables (velocity, pressure, temperature) using CFD solvers.

UNIT IV – SOLVER CAPABILITIES

(7)

Understand the capabilities and limitations of commercial CFD codes - Choose appropriate solver settings (turbulence models, discretization schemes).

Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mutupalayam Taluk,





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

UNIT V – RESULTS ANALYSIS & VISUALIZATION

(6)

Extract predicted physical quantities (velocity profiles, pressure distributions, temperature fields) - Qualitatively and quantitatively assess simulation outcomes - Use scientific visualization tools to visualize flow patterns and phenomena - Interpret and communicate simulation results effectively.

TOTAL HOURS:34

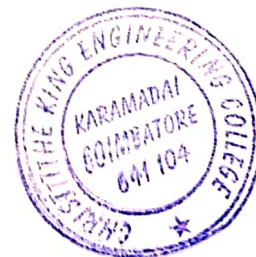
COURSE OUTCOME:

- Gain proficiency in creating geometry and generating grids.
- Specify equations to be solved and boundary conditions.
- Adapt pre-processing based on desired outputs and solver capabilities.
- Understand their grid-generation and flow-visualization capabilities.
- Explore open-source CFD solvers like OpenFOAM and CodeSaturne.

TEXT BOOK & REFERENCES:

1. “Computational Fluid Dynamics and Heat Transfer” By P.S. Ghoshdastidar, this book is for beginners and advanced students, and was published in 2017.
2. “An Introduction to Computational Fluid Dynamics: The Finite Volume Method” By Henk Kaarle Versteeg and Weeratunge Malalasekera, this illustrated book was published in 2007.
3. “Introduction to Computational Fluid Dynamics” By Atul Sharma, this book was published in 2021, and is in its first edition.


Dr.M.JEYAKUMAR, M.E.,Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729

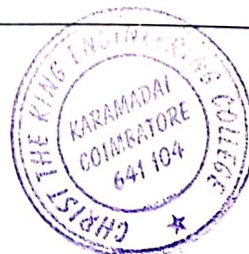
Email: principal@ckec.ac.in

Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING VAME2004 - Overview of CFD process: Pre-processing, Solving, Post-Processing SCHEDULE

S. No	DAY	TIME/SESSION	CONTENT	RESOURCE PERSON
1	03.03.2021	4.00-6.00pm	GEOMETRY DEFINITION & MESH GENERATION	Mr. Hari Prasath R Head of The Department, Department of Mechanical Engineering, Christ the King Engineering College
	04.03.2021	4.00-6.00pm		
	05.03.2021	4.00-7.00pm		
2	06.03.2021	4.00-6.00pm	MATERIAL PROPERTIES	
	08.03.2021	4.00-6.00pm		
	09.03.2021	4.00-7.00pm		
3	10.03.2021	4.00-6.00pm	NUMERICAL SOLUTION	
	11.03.2021	4.00-6.00pm		
	12.03.2021	4.00-7.00pm		
4	13.03.2021	4.00-6.00pm	SOLVER CAPABILITIES	
	15.03.2021	4.00-6.00pm		
	16.03.2021	4.00-7.00pm		
5	17.03.2021	4.00-7.00pm	RESULTS ANALYSIS & VISUALIZATION	
	18.03.2021	4.00-7.00pm		
	19.03.2021	4.00-5.00pm	ASSESSMENT	

Dr. M. Jeyaraj, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chukkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



Mr. Hari Prasath R
HEAD / MECH



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729

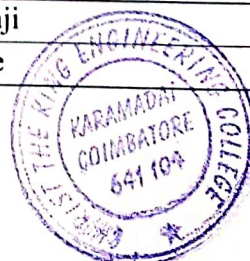
Email: principal@ckec.ac.in

Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING VAME2004 - Overview of CFD process: Pre-processing, Solving, Post-Processing STUDENT REGISTRATION

S.NO.	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE
1	710417114001	Abex Abraham	
2	710417114002	Abinesh A S	
3	710417114005	Arun P	
4	710417114006	Athul Joshuwa	
5	710417114007	Basil E George M	
6	710417114008	Basil James	
7	710417114010	Boopathi Raja S	
8	710417114011	Chandru B	
9	710417114012	Churchil Xavier F	
10	710417114014	Ewain P Biju	
11	710417114015	Franto Nithish A	
12	710417114017	Jackson John George	
13	710417114018	Jebinson J	
14	710417114019	Jersheline T	
15	710417114020	Jobin K Joshy	
16	710417114021	Jude Antony Raj D	
17	710417114022	Karthick.M(23.11.1999)	
18	710417114023	Karthick M(17.07.2000)	
19	710417114024	Karthick N	
20	710417114025	Kavish K M	
21	710417114026	Kevin Christopher S	
22	710417114027	Kisho Jers C J	
23	710417114029	Melvin Raju	
24	710417114031	Mohana Mathan.R	
25	710417114032	Murali Rajan.S	
26	710417114033	Muthaya Muralidharan.P	
27	710417114034	Prem Kumar. S	
28	710417114036	Ravi Shankar.P	
29	710417114037	Rayappan. K	
30	710417114038	Reshin Vince.V	
31	710417114039	Sandeep .P	
32	710417114041	Sebin Joy	
33	710417114042	Sunny Jacob	
34	710417114043	Surya Prakash .S	
35	710417114044	Thabin Saji	
36	710417114045	Tilon Jose	

Dr.M.JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Coimbatore, Tamil Nadu.





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729

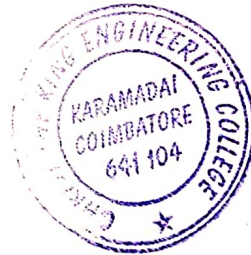
Email: principal@ckec.ac.in

Web: www.ckec.ac.in

37	710417114046	Vetrivel. M	<i>Vetrivel</i>
38	710417114047	Vijay.E	<i>Vijay</i>
39	710417114048	Yuvaraj.C	<i>Yuvaraj</i>
40	710417114301	Diwagar.S	<i>Diwagar</i>
41	710417114302	Earnest Paul Raj.S	<i>Paul Raj</i>
42	710417114303	Esakki Kasi Viswanathan.D.C	<i>Esakki</i>
43	710417114304	Lokesh.K	<i>Lokesh</i>
44	710417114305	Naveen Kumar.R	<i>Naveen</i>
45	710417114701	Gokula Krishnan.S	<i>Gokula</i>
46	710417114702	Pavan Kumar.P	<i>Pavan</i>
47	710417114703	Suyambu Raja Subin.V	<i>Suyambu</i>
48	710417114704	Gokulvasan.D	<i>Gokul</i>
49	710417114705	Rangasamy.S	<i>Rangasamy</i>
50	710417114706	Sujith Kannan.R	<i>Sujith</i>
51	710417114707	Shebin.B	<i>Shebin</i>

Dr. M. Jeyakumar

Dr.M.JEYAKUMAR, M.E.,Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chakkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



[Signature]
HOD / MECH



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING VAME2004 - Overview of CFD process: Pre-processing, Solving, Post-Processing

STUDENTS ATTENDANCE LIST

S.No	REGISTER NUMBER	NAME OF THE STUDENT	03.03.2021	04.03.2021	05.03.2021	06.03.2021	08.03.2021
			4-6.00pm	4-6.00pm	4-7.00pm	4-6.00pm	4-6.00pm
1	710417114001	Abex Abraham	Abex	Abex	Abex	Abex	Abex
2	710417114002	Abinesh A S	Abinesh	Abinesh	Abinesh	Abinesh	Abinesh
3	710417114005	Arun P	Arun	Arun	Arun	Arun	Arun
4	710417114006	Athul Joshuwa	Athul	Athul	Athul	Athul	Athul
5	710417114007	Basil E George M	Basil	Basil	Basil	Basil	Basil
6	710417114008	Basil James	Basil	Basil	Basil	Basil	Basil
7	710417114010	Boopathi Raja S	Boopathi	Boopathi	Boopathi	Boopathi	Boopathi
8	710417114011	Chandru B	Chandru	Chandru	Chandru	Chandru	Chandru
9	710417114012	Churchil Xavier F	Churchil	Churchil	Churchil	Churchil	Churchil
10	710417114014	Ewain P Biju	Ewain	Ewain	Ewain	Ewain	Ewain
11	710417114015	Franto Nithish A	Franto	Franto	Franto	Franto	Franto
12	710417114017	Jackson John George	Jackson	Jackson	Jackson	Jackson	Jackson
13	710417114018	Jebinson J	Jebinson	Jebinson	Jebinson	Jebinson	Jebinson
14	710417114019	Jersheline T	Jersheline	Jersheline	Jersheline	Jersheline	Jersheline
15	710417114020	Jobin K Joshy	Jobin	Jobin	Jobin	Jobin	Jobin
16	710417114021	Jude Antony Raj D	Jude	Jude	Jude	Jude	Jude
17	710417114022	Karthick.M(23.11.1999)	Karthick	Karthick	Karthick	Karthick	Karthick
18	710417114023	Karthick M(17.07.2000)	Karthick	Karthick	Karthick	Karthick	Karthick
19	710417114024	Karthick N	Karthick	Karthick	Karthick	Karthick	Karthick
20	710417114025	Kavish K M	Kavish	Kavish	Kavish	Kavish	Kavish
21	710417114026	Kevin Christopher S	Kevin	Kevin	Kevin	Kevin	Kevin
22	710417114027	Kisho Jers C J	Kisho	Kisho	Kisho	Kisho	Kisho
23	710417114029	Melvin Raju	Melvin	Melvin	Melvin	Melvin	Melvin
24	710417114031	Mohana Mathan.R	Mohana	Mohana	Mohana	Mohana	Mohana
25	710417114032	Murali Rajan.S	Murali	Murali	Murali	Murali	Murali
26	710417114033	Muthaya Muralidharan.P	Muthaya	Muthaya	Muthaya	Muthaya	Muthaya
27	710417114034	Prem Kumar. S	Prem	Prem	Prem	Prem	Prem
28	710417114036	Ravi Shankar.P	Ravi	Ravi	Ravi	Ravi	Ravi
29	710417114037	Rayappan. K	Rayappan	Rayappan	Rayappan	Rayappan	Rayappan
30	710417114038	Reshin Vince.V	Reshin	Reshin	Reshin	Reshin	Reshin
31	710417114039	Sandeep .P	Sandeep	Sandeep	Sandeep	Sandeep	Sandeep
32	710417114041	Sebin Joy	Sebin	Sebin	Sebin	Sebin	Sebin
33	710417114042	Sunny Jacob	Sunny	Sunny	Sunny	Sunny	Sunny
34	710417114043	Surya Prakash .S	Surya	Surya	Surya	Surya	Surya
35	710417114044	Thabin Saji	Thabin	Thabin	Thabin	Thabin	Thabin

Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chittikarampalayam Village,
Karamadai, Mettupalayam Taluk,





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

36	710417114045	Tilon Jose	Tilon	Tilon	Tilon	Tilon	Tilon
37	710417114046	Vetrivel. M	Vetr	AB	Vetr	Vetr	Vetr
38	710417114047	Vijay.E	Vij	Vij	Vij	Vij	Vij
39	710417114048	Yuvaraj.C	Yu	Yu	Yu	Yu	Yu
40	710417114301	Diwagar.S	Diya	Diya	Diya	Diya	Diya
41	710417114302	Earnest Paul Raj.S	Raj	Raj	Raj	Raj	Raj
42	710417114303	Esakki Kasi Viswanathan.D.C	Esak	Esak	Esak	Esak	Esak
43	710417114304	Lokesh.K	Lok	AB	Lok	Lok	Lok
44	710417114305	Navcen Kumar.R	Nav	AB	Nav	Nav	Nav
45	710417114701	Gokula Krishnan.S	Gok	Gok	Gok	Gok	Gok
46	710417114702	Pavan Kumar.P	Pav	Pav	Pav	Pav	Pav
47	710417114703	Suyambu Raja Subin.V	Suy	Suy	Suy	Suy	Suy
48	710417114704	Gokulvasan.D	Gok	Gok	Gok	Gok	Gok
49	710417114705	Rangasamy.S	Ran	Ran	Ran	Ran	Ran
50	710417114706	Sujith Kannan.R	Suj	Suj	Suj	Suj	Suj
51	710417114707	Shebin.B	She	She	She	She	She

Infant
D. M. JEYAKUMAR, M.E., Ph.D.
 PRINCIPAL
 CHRIST THE KING ENGINEERING COLLEGE,
 Chikkarampalayam Village,
 Karamadai, Mettupalayam Taluk,
 Coimbatore - 641 104.



[Signature]
HOD, MECH



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729

Email: principal@ckec.ac.in

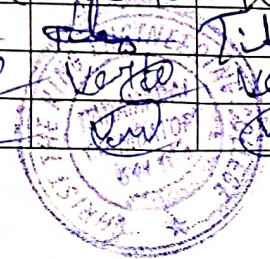
Web: www.ckec.ac.in

S.No	REGISTER NUMBER	NAME OF THE STUDENT	09.03.2021	10.03.2021	11.03.2021	12.03.2021	13.03.2021
			4-7.00pm	4-6.00pm	4-6.00pm	4-7.00pm	4-6.00pm
1	710417114001	Abex Abraham	Abex	Abex	Abex	Abex	Abex
2	710417114002	Abinesh A S	Abinesh	Abinesh	Abinesh	Abinesh	Abinesh
3	710417114005	Arun P	Arun	Arun	Arun	Arun	Arun
4	710417114006	Athul Joshuwa	Athul	Athul	Athul	Athul	Athul
5	710417114007	Basil E George M	Basil	Basil	Basil	Basil	Basil
6	710417114008	Basil James	Basil	Basil	Basil	Basil	Basil
7	710417114010	Boopathi Raja S	S.Raj	S.Raj	S.Raj	S.Raj	S.Raj
8	710417114011	Chandru B	Chandru	Chandru	Chandru	Chandru	Chandru
9	710417114012	Churchil Xavier F	Churchil	Churchil	AB	Churchil	Churchil
10	710417114014	Ewain P Biju	AB	Ewain	Ewain	Ewain	Ewain
11	710417114015	Franto Nithish A	Franto	Franto	Franto	Franto	Franto
12	710417114017	Jackson John George	J Jackson	J Jackson	J Jackson	J Jackson	J Jackson
13	710417114018	Jebinson J	Jebinson	Jebinson	Jebinson	AB	Jebinson
14	710417114019	Jersheline T	Jersheline	Jersheline	Jersheline	Jersheline	Jersheline
15	710417114020	Jobin K Joshy	Jobin	Jobin	Jobin	Jobin	AB
16	710417114021	Jude Antony Raj D	Jude	Jude	Jude	Jude	AB
17	710417114022	Karthick.M(23.11.1999)	Karthick	Karthick	Karthick	Karthick	Karthick
18	710417114023	Karthick M(17.07.2000)	Karthick	Karthick	Karthick	Karthick	Karthick
19	710417114024	Karthick N	Karthick	Karthick	Karthick	Karthick	Karthick
20	710417114025	Kavish K M	Kavish	Kavish	Kavish	Kavish	Kavish
21	710417114026	Kevin Christopher S	Kevin	Kevin	Kevin	Kevin	Kevin
22	710417114027	Kisho Jers C J	AB	Kisho	Kisho	Kisho	Kisho
23	710417114029	Melvin Raju	Melvin	Melvin	Melvin	Melvin	Melvin
24	710417114031	Mohana Mathan.R	Mohana	Mohana	Mohana	Mohana	Mohana
25	710417114032	Murali Rajan.S	Murali	Murali	Murali	Murali	Murali
26	710417114033	Muthaya Muralidharan.P	Muthaya	Muthaya	Muthaya	AB	Muthaya
27	710417114034	Prem Kumar. S	Prem	Prem	Prem	Prem	Prem
28	710417114036	Ravi Shankar.P	Ravi	Ravi	Ravi	Ravi	Ravi
29	710417114037	Rayappan. K	Rayappan	Rayappan	Rayappan	Rayappan	Rayappan
30	710417114038	Reshin Vincv.V	Reshin	Reshin	Reshin	AB	Reshin
31	710417114039	Sandeep .P	Sandeep	Sandeep	Sandeep	Sandeep	Sandeep
32	710417114041	Sebin Joy	Sebin	Sebin	Sebin	Sebin	Sebin
33	710417114042	Sunny Jacob	Sunny	Sunny	Sunny	Sunny	Sunny
34	710417114043	Surya Prakash .S	Surya	Surya	Surya	Surya	Surya
35	710417114044	Thabin Saji	Thabin	Thabin	Thabin	Thabin	Thabin
36	710417114045	Tilon Jose	Tilon	Tilon	Tilon	Tilon	Tilon
37	710417114046	Vetrivel. M	Vetrivel	Vetrivel	Vetrivel	Vetrivel	Vetrivel
38	710417114047	Vijay.E	Vijay	Vijay	Vijay	Vijay	Vijay

[Handwritten signature]

Dr.M.JEYAKUMAR, M.E.,Ph.D.

PRINCIPAL





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

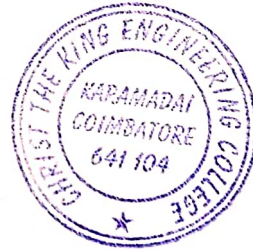
Ph: +91 91500 76729

Email: principal@ckec.ac.in

Web: www.ckec.ac.in

39	710417114048	Yuvaraj.C	<i>Yuvaraj C</i>	<i>Yuvaraj C</i>	<i>Yuvaraj C</i>	AB	<i>Yuvaraj C</i>
40	710417114301	Diwagar.S	<i>Diwagar S</i>	AB	<i>Diwagar S</i>	<i>Diwagar S</i>	<i>Diwagar S</i>
41	710417114302	Earnest Paul Raj.S	<i>Earnest Paul Raj S</i>	B	<i>Earnest Paul Raj S</i>	AB	B
42	710417114303	Esakki Kasi Viswanathan.D.C	<i>Esakki Kasi</i>	AB	<i>Esakki Kasi</i>	<i>Esakki Kasi</i>	<i>Esakki Kasi</i>
43	710417114304	Lokesh.K	<i>Lokesh K</i>	<i>Lokesh K</i>	<i>Lokesh K</i>	<i>Lokesh K</i>	<i>Lokesh K</i>
44	710417114305	Naveen Kumar.R	<i>Naveen Kumar R</i>	<i>Naveen Kumar R</i>	<i>Naveen Kumar R</i>	<i>Naveen Kumar R</i>	<i>Naveen Kumar R</i>
45	710417114701	Gokula Krishnan.S	<i>Gokula Krishnan S</i>	<i>Gokula Krishnan S</i>	<i>Gokula Krishnan S</i>	<i>Gokula Krishnan S</i>	<i>Gokula Krishnan S</i>
46	710417114702	Pavan Kumar.P	<i>Pavan Kumar P</i>	<i>Pavan Kumar P</i>	<i>Pavan Kumar P</i>	<i>Pavan Kumar P</i>	<i>Pavan Kumar P</i>
47	710417114703	Suyambu Raja Subin.V	<i>Suyambu Raja Subin V</i>	<i>Suyambu Raja Subin V</i>	<i>Suyambu Raja Subin V</i>	<i>Suyambu Raja Subin V</i>	<i>Suyambu Raja Subin V</i>
48	710417114704	Gokulvasan.D	<i>Gokulvasan D</i>	<i>Gokulvasan D</i>	<i>Gokulvasan D</i>	<i>Gokulvasan D</i>	<i>Gokulvasan D</i>
49	710417114705	Rangasamy.S	<i>Rangasamy S</i>	<i>Rangasamy S</i>	<i>Rangasamy S</i>	<i>Rangasamy S</i>	<i>Rangasamy S</i>
50	710417114706	Sujith Kannan.R	<i>Sujith Kannan R</i>	<i>Sujith Kannan R</i>	<i>Sujith Kannan R</i>	<i>Sujith Kannan R</i>	<i>Sujith Kannan R</i>
51	710417114707	Shebin.B	<i>Shebin B</i>	<i>Shebin B</i>	<i>Shebin B</i>	<i>Shebin B</i>	<i>Shebin B</i>

M. Jeyakumar
Dr.M.JEYAKUMAR, M.E.,Ph.D.
 PRINCIPAL
 CHRIST THE KING ENGINEERING COLLEGE,
 Chikkarampalayam Village,
 Karamadai, Mettupalayam Taluk,
 Coimbatore - 641 104.



[Signature]
 HOD, MECH



CHRIST THE KING ENGINEERING COLLEGE

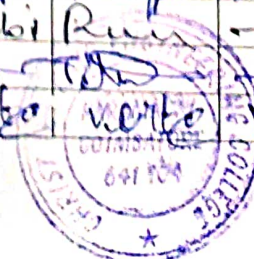
Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

S.No	REGISTER NUMBER	NAME OF THE STUDENT	15.03.2021	16.03.2021	17.03.2021	18.03.2021	19.03.2021
			4-6.00pm	4-7.00pm	4-7.00pm	4-7.00pm	4-5.00pm
1	710417114001	Abex Abraham	Abex	Abex	Abex	Abex	Abex
2	710417114002	Abinash A S	Abinash	Abinash	Abinash	Abinash	Abinash
3	710417114005	Arun P	Arun	Arun	Arun	Arun	Arun
4	710417114006	Athul Joshuwa	Athul	Athul	Athul	Athul	Athul
5	710417114007	Basil E George M	Basil	Basil	Basil	Basil	Basil
6	710417114008	Basil James	Basil	Basil	Basil	Basil	Basil
7	710417114010	Boopathi Raja S	Boopathi	Boopathi	Boopathi	Boopathi	Boopathi
8	710417114011	Chandru B	Chandru	Chandru	Chandru	Chandru	Chandru
9	710417114012	Churchil Xavier F	Churchil	Churchil	Churchil	Churchil	Churchil
10	710417114014	Ewain P Biju	Ewain	Ewain	Ewain	Ewain	Ewain
11	710417114015	Franto Nithish A	Franto	Franto	Franto	Franto	AB
12	710417114017	Jackson John George	Jackson	Jackson	Jackson	Jackson	AB
13	710417114018	Jebinson J	Jebinson	Jebinson	Jebinson	Jebinson	Jebinson
14	710417114019	Jersheline T	Jersheline	Jersheline	Jersheline	AB	Jersheline
15	710417114020	Jobin K Joshy	Jobin	Jobin	Jobin	Jobin	Jobin
16	710417114021	Jude Antony Raj D	Jude	Jude	Jude	Jude	Jude
17	710417114022	Karthick.M(23.11.1999)	Karthick	Karthick	AB	Karthick	Karthick
18	710417114023	Karthick M(17.07.2000)	Karthick	Karthick	Karthick	Karthick	Karthick
19	710417114024	Karthick N	Karthick	Karthick	Karthick	AB	Karthick
20	710417114025	Kavish K M	Kavish	Kavish	Kavish	Kavish	Kavish
21	710417114026	Kevin Christopher S	Kevin	Kevin	Kevin	Kevin	Kevin
22	710417114027	Kisho Jers C J	Kisho	Kisho	Kisho	Kisho	Kisho
23	710417114029	Melvin Eaju	Melvin	Melvin	Melvin	Melvin	Melvin
24	710417114031	Mohana Mathan.R	Mohana	Mohana	Mohana	AB	Mohana
25	710417114032	Murali Rajan.S	Murali	Murali	Murali	AB	Murali
26	710417114033	Muthaya Muralidharan.P	Muthaya	Muthaya	AB	Muthaya	Muthaya
27	710417114034	Prem Kumar. S	Prem	Prem	Prem	Prem	Prem
28	710417114036	Ravi Shankar.P	Ravi	Ravi	Ravi	Ravi	Ravi
29	710417114037	Rayappan. K	Rayappan	Rayappan	Rayappan	Rayappan	Rayappan
30	710417114038	Reshin Vince.V	Reshin	AB	Reshin	Reshin	Reshin
31	710417114039	Sandeep .P	Sandeep	Sandeep	Sandeep	Sandeep	Sandeep
32	710417114041	Sebin Joy	Sebin	Sebin	AB	Sebin	Sebin
33	710417114042	Sunny Jacob	Sunny	Sunny	Sunny	Sunny	Sunny
34	710417114043	Surya Prakash .S	Surya	Surya	Surya	Surya	Surya
35	710417114044	Thabin Saji	Thabin	Thabin	Thabin	Thabin	Thabin
36	710417114045	Tilon Jore	Tilon	Tilon	Tilon	Tilon	Tilon
37	710417114046	Vetrivel. M	Vetrivel	Vetrivel	Vetrivel	Vetrivel	Vetrivel

S. Jeyan
Dr.M.JEYANUMAR, M.E., Ph.D.
 PRINCIPAL
 CHRIST THE KING ENGINEERING COLLEGE,
 KARAMADAI, COIMBATORE - 641104





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

38	710417114047	Vijay.E	<i>Vijay</i>	<i>Vijay</i>	<i>Vijay</i>	<i>Vijay</i>	<i>Vijay</i>
39	710417114048	Yuvaraj.C	<i>Yuvaraj</i>	<i>AB</i>	<i>Yuvaraj</i>	<i>Yuvaraj</i>	<i>Yuvaraj</i>
40	710417114301	Diwagar.S	<i>Diwagar</i>	<i>Diwagar</i>	<i>AB</i>	<i>Diwagar</i>	<i>Diwagar</i>
41	710417114302	Earnest Paul Raj.S	<i>Paul</i>	<i>Paul</i>	<i>AB</i>	<i>AB</i>	<i>Paul</i>
42	710417114303	Esakki Kasi Viswanathan.D.C	<i>Esakki</i>	<i>Esakki</i>	<i>AB</i>	<i>Esakki</i>	<i>Esakki</i>
43	710417114304	Lokesh.K	<i>Lokesh</i>	<i>Lokesh</i>	<i>Lokesh</i>	<i>Lokesh</i>	<i>Lokesh</i>
44	710417114305	Naveen Kumar.R	<i>Naveen</i>	<i>Naveen</i>	<i>Naveen</i>	<i>AB</i>	<i>AB</i>
45	710417114701	Gokula Krishnan.S	<i>AB</i>	<i>Gokula</i>	<i>Gokula</i>	<i>Gokula</i>	<i>Gokula</i>
46	710417114702	Pavan Kumar.P	<i>Pavan</i>	<i>Pavan</i>	<i>Pavan</i>	<i>Pavan</i>	<i>Pavan</i>
47	710417114703	Suyambu Raja Subin.V	<i>Suyambu</i>	<i>Suyambu</i>	<i>Suyambu</i>	<i>Suyambu</i>	<i>Suyambu</i>
48	710417114704	Gokulvasan.D	<i>Gokul</i>	<i>Gokul</i>	<i>Gokul</i>	<i>Gokul</i>	<i>Gokul</i>
49	710417114705	Rangasamy.S	<i>Rangasamy</i>	<i>Rangasamy</i>	<i>AB</i>	<i>Rangasamy</i>	<i>Rangasamy</i>
50	710417114706	Sujith Kannan.R	<i>Sujith</i>	<i>Sujith</i>	<i>Sujith</i>	<i>Sujith</i>	<i>AB</i>
51	710417114707	Shebin.B	<i>Shebin</i>	<i>Shebin</i>	<i>Shebin</i>	<i>Shebin</i>	<i>Shebin</i>

Signature
Dr.M.JEYAKUMAR, M.E., Ph.D.
 PRINCIPAL
 CHRIST THE KING ENGINEERING COLLEGE,
 Chikkarampalayam Village,
 Karamadai, Mettupalayam Taluk,
 Coimbatore - 641 104.



Signature
HOD, MECH



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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


Ph: +91 91500 76729

Email: principal@ckec.ac.in

Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING VAME2004 - Overview of CFD process: Pre-processing, Solving, Post-Processing MULTIPLE CHOICE QUESTION

1. What does geometry mean?
 - a) **Measurement of land**
 - b) Measurement of physical objects
 - c) Measurement of velocity
 - d) Measurement of pressure
2. Which of the following defines a mesh plot?
 - a) Vector representation of the mesh lines
 - b) Scalar representation of the mesh lines
 - c) **Graphical representation of the mesh lines**
 - d) Numerical representation of the mesh lines
3. Which of the following is a basic classification of Engineering Materials?
 - a) Metals
 - b) Non-Metals
 - c) **Both Metals & Non-Metals**
 - d) None of the mentioned
4. Which of the following is not a property of engineering materials?
 - a) Mechanical properties
 - b) Chemical properties
 - c) **Polymorphism**
 - d) Electrical properties
5. The solution of the equation ($\frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2}$) with the boundary conditions ($u(x, 0) = 3\sin(n\pi x)$), ($u(0, t) = 0$), and ($u(1, t) = 0$), where ($0 < x < 1$) is:
 - a) ($u(x, t) = 3 \sum_{n=1}^{\infty} e^{-\pi^2 t} \sin(n\pi x)$)
 - b) ($u(x, t) = 3 \sum_{n=1}^{\infty} \frac{e^{-n^2\pi^2 t}}{\pi} \sin(n\pi x)$)
 - c) ($u(x, t) = \sum_{n=1}^{\infty} \frac{e^{-n^2\pi^2 t}}{\pi} \sin(n\pi x)$)
 - d) ($u(x, t) = 3 \sum_{n=1}^{\infty} \frac{e^{-n^2\pi^2 t}}{\pi} \sin(n\pi x)$)
6. In a free space, a plane wave with ($z \leq 0$) electric field ($E_i = 40 \cos(10^8 t - \beta z) \hat{a}_x$, V/m) is incident normally on a lossless medium ($\epsilon = 2\epsilon_0$) and ($\mu = 5\mu_0$) in the region ($z \leq 0$). The reflected electric field component is:
 - a) ($-40\epsilon_0 \cos(10^8 t - \frac{1}{3}z) \hat{a}_y$, V/m)
 - b) ($-9\epsilon_0 \cos(10^8 t + \frac{1}{3}z) \hat{a}_y$, V/m)
 - c) ($-1.6\epsilon_0 \cos(10^8 t + \frac{4}{3}z) \hat{a}_y$, V/m)
 - d) ($-9\epsilon_0 \cos(10^8 t - \frac{4}{3}z) \hat{a}_y$, V/m)


Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL

CHRIST THE KING ENGINEERING COLLEGE,
Chikkaraupalayam Village,
Karamadai, Metupalayam Taluk,
Coimbatore - 641104.





CHRIST THE KING ENGINEERING COLLEGE

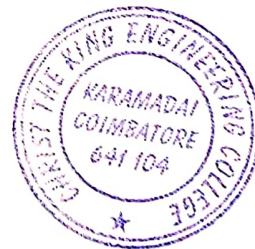
Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

7. Numerical techniques more commonly involve:
- Elimination method
 - Reduction method
 - Iterative method**
 - Direct method
8. Which of the following is an iterative method?
- Gauss Seidel**
 - Gauss Jordan
 - Factorization
 - Gauss Elimination
9. Which of the following is the advantage of using the Gauss Jordan method?
- Additional Calculations
 - No labor of back substitution**
 - More operations involved
 - Elimination is easier
10. Which are pros of data visualization?
- It can be accessed quickly by a wider audience.**
 - It can misrepresent information.
 - It can be distracting.
 - None of the above

Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.





CHRIST THE KING ENGINEERING COLLEGE

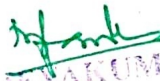
Karamadai, Coimbatore - 641104

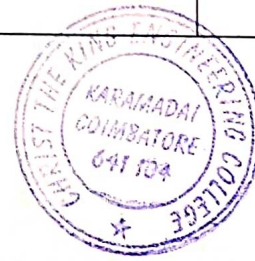
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING VAME2004 - Overview of CFD process: Pre-processing, Solving, Post-Processing STUDENTS ASSESSMENT MARKS

S.NO	REG.NO	NAME OF THE STUDENT	MARKS 10
1	710417114001	Abex Abraham	9
2	710417114002	Abinesh A S	9
3	710417114005	Arun P	8
4	710417114006	Athul Joshuwa	8
5	710417114007	Basil E George M	8
6	710417114008	Basil James	8
7	710417114010	Boopathi Raja S	9
8	710417114011	Chandru B	9
9	710417114012	Churchil Xavier F	8
10	710417114014	Ewain P Biju	7
11	710417114015	Franto Nithish A	8
12	710417114017	Jackson John George	8
13	710417114018	Jebinson J	6
14	710417114019	Jersheline T	7
15	710417114020	Jobin K Joshy	7
16	710417114021	Jude Antony Raj D	8
17	710417114022	Karthick.M(23.11.1999)	8
18	710417114023	Karthick M(17.07.2000)	9
19	710417114024	Karthick N	9
20	710417114025	Kavish K M	9
21	710417114026	Kevin Christopher S	8
22	710417114027	Kisho Jers C J	6
23	710417114029	Melvin Raju	6


Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chakkarcampalayan Village,
Marampalayam Taluk,





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

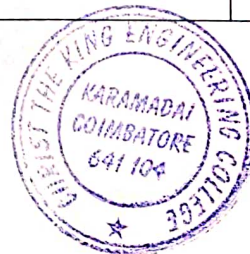
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

24	710417114031	Mohana Mathan.R	7
25	710417114032	Murali Rajan.S	7
26	710417114033	Muthaya Muralidharan.P	8
27	710417114034	Prem Kumar. S	8
28	710417114036	Ravi Shankar.P	9
29	710417114037	Rayappan. K	6
30	710417114038	Reshin Vince.V	7
31	710417114039	Sandeep .P	8
32	710417114041	Sebin Joy	9
33	710417114042	Sunny Jacob	9
34	710417114043	Surya Prakash .S	9
35	710417114044	Thabin Saji	8
36	710417114045	Tilon Jose	8
37	710417114046	Vetrivel. M	6
38	710417114047	Vijay.E	7
39	710417114048	Yuvaraj.C	7
40	710417114301	Diwagar.S	7
41	710417114302	Earnest Paul Raj.S	8
42	710417114303	Esakki Kasi Viswanathan.D.C	8
43	710417114304	Lokesh.K	8
44	710417114305	Naveen Kumar.R	8
45	710417114701	Gokula Krishnan.S	6
46	710417114702	Pavan Kumar.P	7
47	710417114703	Suyambu Raja Subin.V	7
48	710417114704	Gokulvasan.D	6
49	710417114705	Rangasamy.S	6
50	710417114706	Sujith Kannan.R	8
51	710417114707	Shebin.B	8

[Handwritten signature]

Dr.M.JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarunpalayath Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



[Handwritten signature]
HOD / MECH



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING

VAME2004 - OVERVIEW OF CFD PROCESS: PRE-PROCESSING, SOLVING, POST-PROCESSING

MULTIPLE CHOICE QUESTION

Name : *Mohin Raju*
Register No. : *710417114029*
Year / Sem : *IV / VII*
Academic Year : *2020-21*

1. What does geometry mean?

- a) Measurement of land
- b) Measurement of physical objects
- c) Measurement of velocity
- d) Measurement of pressure



2. Which of the following defines a mesh plot?

- a) Vector representation of the mesh lines
- b) Scalar representation of the mesh lines
- c) Graphical representation of the mesh lines
- d) Numerical representation of the mesh lines



3. Which of the following is a basic classification of Engineering Materials?

- a) Metals
- b) Non-Metals
- c) Both Metals & Non-Metals
- d) None of the mentioned



4. Which of the following is not a property of engineering materials?

- a) Mechanical properties
- b) Chemical properties
- c) Polymorphism
- d) Electrical properties



M. Jeyakumar
Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.

5. The solution of the equation $(\frac{\delta u}{\delta t} = \frac{\delta^2 u}{\delta x^2})$ with the boundary conditions $(u(x, 0) = 3 \sin(n\pi x))$, $(u(0, t) = 0)$, and $(u(1, t) = 0)$, where $(0 < x < 1)$ is:

- a) $(u(x, t) = \sum_{n=1}^{\infty} e^{-\pi^2 t} \sin(n\pi x))$
- b) $(u(x, t) = \sum_{n=1}^{\infty} \frac{1}{n^2} e^{-n^2 \pi^2 t} \sin(n\pi x))$





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

c) $(u(x, t) = \sum_{n=1}^{\infty} \frac{\pi e^{-n^2 \pi^2 t}}{\sin(n \pi x)})$ ✓

d) $(u(x, t) = 3 \sum_{n=1}^{\infty} \frac{\pi e^{-n^2 \pi^2 t}}{\sin(n \pi x)})$ ✓

6. In a free space, a plane wave with $(z \leq 0)$ electric field $(E_i = 40 \cos(10^8 t - \beta z) \hat{a}_x, \text{V/m})$ is incident normally on a lossless medium $(\epsilon = 2\epsilon_0)$ and $(\mu = 5\mu_0)$ in the region $(z \leq 0)$. The reflected electric field component is:

a) $(-40 \epsilon_0 \cos(10^8 t - \frac{1}{3} z) \hat{a}_y, \text{V/m})$

b) $(-9 \epsilon_0 \cos(10^8 t + \frac{1}{3} z) \hat{a}_y, \text{V/m})$ ✓

c) $(-1.6 \epsilon_0 \cos(10^8 t + \frac{4}{3} z) \hat{a}_y, \text{V/m})$

d) $(-9 \epsilon_0 \cos(10^8 t - \frac{4}{3} z) \hat{a}_y, \text{V/m})$

7. Numerical techniques more commonly involve:

a) Elimination method

b) Reduction method

c) Iterative method ✓

d) Direct method

8. Which of the following is an iterative method?

a) Gauss Seidel

b) Gauss Jordan

c) Factorization

d) Gauss Elimination ✓

9. Which of the following is the advantage of using the Gauss Jordan method?

a) Additional Calculations ✓

b) No labor of back substitution

c) More operations involved ✓

d) Elimination is easier

10. Which are pros of data visualization?

a) It can be accessed quickly by a wider audience. ✓

b. It can misrepresent information.

c. It can be distracting.

d. None of the above



6/10

Dr. M. Jeyakumar
HOD / MECH

M. Jeyakumar
Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729

Email: principal@ckec.ac.in

Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING

STUDENT FEEDBACK FORM

Name of the value added course: *Overview of CFD process.*
Name of the student: *Lokesh. K*
Register Number: *TI0417114304*
Year / Semester: *IV/VIII*
Batch: *2017-2021*
Course Coordinator: *Mr. Prabhu .C*
Academic Year: *2020-2021*

Sl.No.	Criteria	Rating				
		Excellent	Good	Average	Satisfactory	Poor
1.	Course content		✓			
2.	Individual attention	✓				
3.	Level of the course		✓			
4.	Regularity and knowledge of faculty			✓		
5.	Coverage of syllabus	✓				
6.	Interaction		✓			
7.	Outcome	✓				
	Total	15	12	3		
	Remarks	Good				

EXCELLENT-5

GOOD-4

AVERAGE-3

SATISFACTORY-2

POOR-1


Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.


Signature of the student





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING

POST EVENT REPORT

Course code	VAME2004
Name of the course	OVERVIEW OF CFD PROCESS: PRE-PROCESSING, SOLVING, POST-
Duration of the course	35 Hours
Academic year	2020-2021
Period of the course	15 Days
Coordinator & Faculty handling the course	Mr. Prabhu C Mr. Hari Prasath R
Number of the students registered	50
Number of the students completed	50
% of students completed the course	100%
Details of the course	Certainly! The overview of the Computational Fluid Dynamics (CFD) process involves three main stages: pre-processing (geometry creation and meshing), solving (solving governing equations over a meshed model), and post-processing (analyzing predicted physical quantities qualitatively and quantitatively)

Dr. M. JAYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

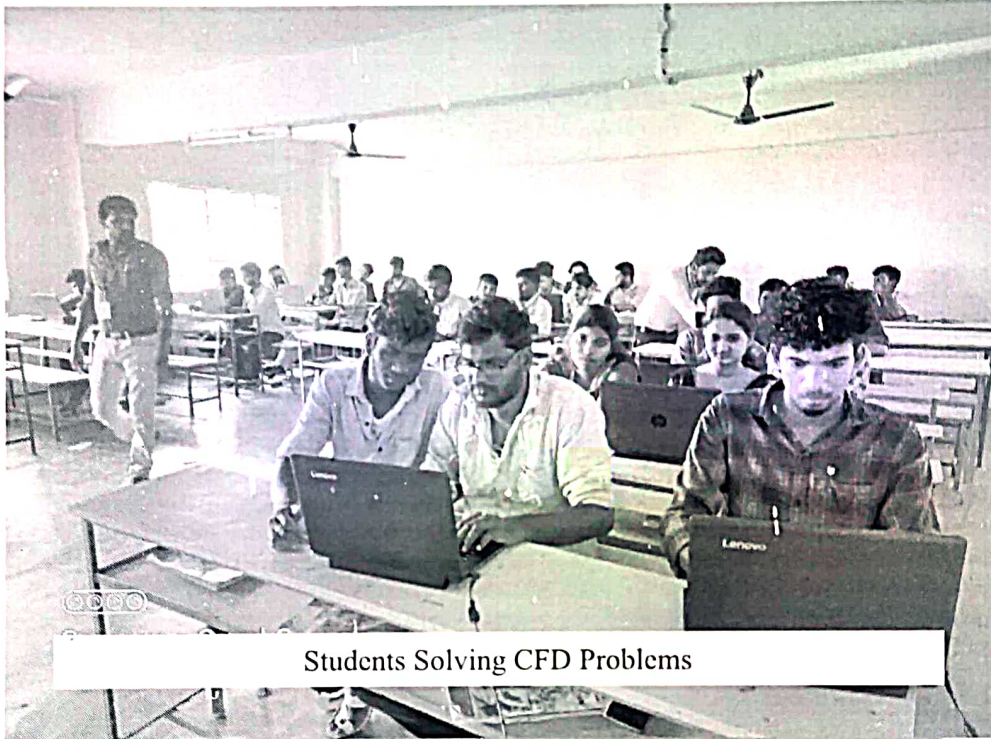
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Ph: +91 91500 76729

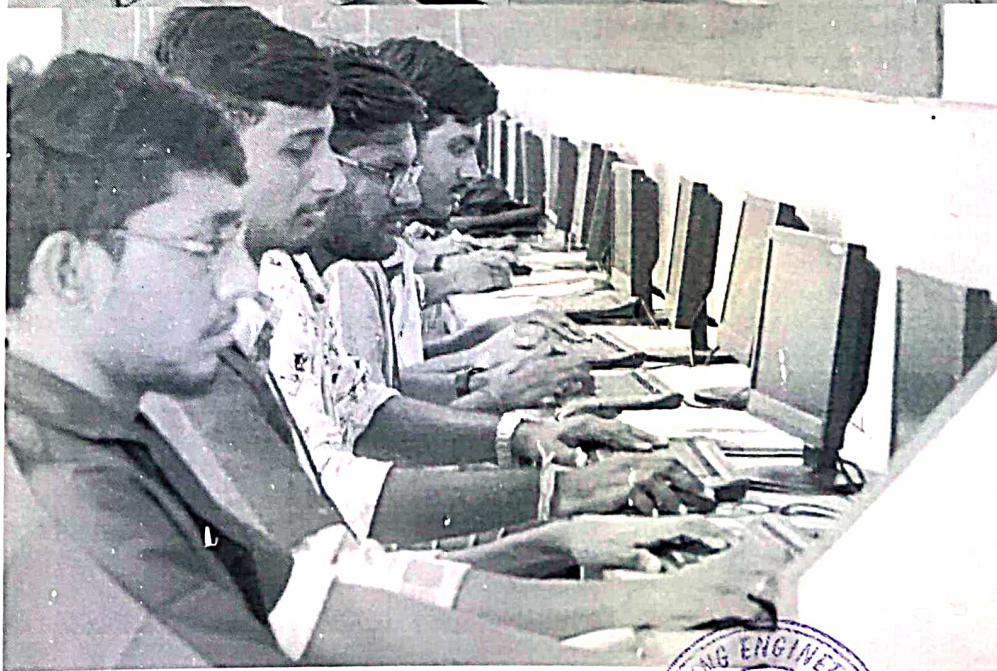
Email: principal@ckec.ac.in

Web: www.ckec.ac.in

PHOTOS



Students Solving CFD Problems



Signature
Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.





CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

CERTIFICATE



DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course on

"OVERVIEW OF CFD PROCESS: PRE-PROCESSING, SOLVING, POST-PROCESSING"

CERTIFICATE OF COMPLETION

This is to certify thatRANGASAMY.....S.....[SIGNATURE].....
of IV Year has successfully completed the Value Added Course on "Overview of CFD process: Pre-processing, solving, post-processing" conducted by the Department of Mechanical Engineering at Christ The King Engineering College from 03.03.2021 to 19.03.2021.


HOD / MECH


PRINCIPAL




DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course on

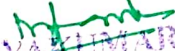
"OVERVIEW OF CFD PROCESS: PRE-PROCESSING, SOLVING, POST-PROCESSING"

CERTIFICATE OF COMPLETION

This is to certify thatATHUL.....JASWANA.....[SIGNATURE].....
of IV Year has successfully completed the Value Added Course on "Overview of CFD process: Pre-processing, solving, post-processing" conducted by the Department of Mechanical Engineering at Christ The King Engineering College from 03.03.2021 to 19.03.2021.


HOD / MECH


PRINCIPAL


Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarempalayam Village,
Karamadai, Mettupalayam Taluk,

