

One Week Faculty Development Program
on "BASICS IN COMPUTATIONAL FLUID
DYNAMICS"

10-12-2018 to 15-12-2018

"BASICS IN COMPUTATIONAL FLUID DYNAMICS"



About VEMUIT

VEMU Institute of Technology is one of the best and finest engineering colleges in Chittoor District, Andhra Pradesh. Beginning its quality inputs in 2008, it has attained ISO 2015 9001 certification for quality management within a short span of time. The institution's progress and contribution to the field of technical education for over one decade has resulted in accreditation by NAAC in the year 2017. Recognized under 2(F) and 12(B) of UGC Act, Permanent Affiliation with JNTUA (Anantapuramu). Recently, three UG programs got accredited with NBA. It is located in P. Kothakota, near to Tirupati on the Chittoor Highway in a beautiful 16-acre campus.

Department of Mechanical Engineering :

The department offers B Tech in Mechanical Engineering, and M Tech in Machine Design. The department has highly qualified faculty members, state of art laboratories and infrastructures. Continuing Education programs and customized training workshops are being organized by industry personnel on regular basis.

Participants:

All Faculty members in Mechanical Engineering

Important Dates :

Training Starting Date : 10 - 12 - 2019

Training Ending Date : 15 - 12 - 2019


Resource Person :

Mr. G.M. Raja Mahendra, and Mr. BRMV Krishna, Senior Simulation Engineer, Yucan Technologies, Bangalore

Summary:

The FDP was started with Inaugural session on day 1. Honorable Principal and HOD attended the inaugural session along with the resource persons. On Day 1, Mr. BRMV Krishna started the session with introduction to Fluid Statics, Kinematics and Dynamics. Later he discussed the basics of CFD and introduced FLUENT to the participants.

Fluid Flow Modelling i.e., both pressure distribution and velocity distribution was discussed thoroughly during the second day of the FDP. Enough practice was given to understand the concepts. Third day's session is about Turbulence Modelling. He discussed the importance of turbulence in fluid flow and numerous examples were discussed and practiced. Introduction to Aerodynamics Modelling was given by Mr. G. M. Raja Mahendra on 4th day of the FDP. He discussed the significance of Aerodynamics in Mechanical applications and adequate practice is given to the participants. Day 5 session started with the brief introduction on various modes of heat transfer. Conduction Modelling and Convection Modelling was discussed during the day. Applications of Conduction and Convection was also discussed. On final day of FDP, Radiation Modelling was discussed and the applications of radiation is related to it is described. The FDP was concluded with Valedictory Session. Dr. V. Venu Gopal and Mr. K. Balaji, faculty of ME Department acted as Co-Ordinator and Co-coordinator respectively.


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Vemu Institute of Technology
P. KOTHAKOTA - 517 112



VEMU INSTITUTE OF TECHNOLOGY

REGISTRATION FORM
FACULTY DEVELOPMENT PROGRAMME ON

BASICS IN COMPUTATIONAL FLUID DYNAMICS
(CFD)

Name : Mr/Ms
Designation :
Department :
Institution :
Gender : Male/Female
Date of Birth & Age :
Educational Qualification :
Mobile No. :
Email :
Accommodation Needed : Yes/No
Place :
Date :

Signature

ORGANISING COMMITTEE :

Prof. G. Sudarasana Reddy, Professor
Mr. V. V. Ramana, M.Tech.,(Ph.D), Assoc. Professor
Mr. G.Suresh, M.Tech., Assoc. Professor
Mr. M.Sudarsanam, M.Tech.,(PhD), Assoc. Professor
Mr. B.W.Sandeep Kumar, M.Tech.,(PhD), Assoc. Prof.
Mr. M.Venkatesulu, M.Tech.,(PhD), Assoc. Prof.
Mr. M.Dora Babu, M.Tech., Associate Professor
Ms. Y.Bhargavi, M.Tech.,(PhD), Associate Professor
Mr. S.P.Bhanumurthy, M.Tech.,(PhD), Assoc. Prof.
Mr. P.Bhaskara, M.Tech., Assistant Professor
Mr. A.GiriBabu, M.Tech., Assistant Professor
Mr. M.Jeevan Prasad, M.Tech., Assistant Prof.
Mrs. K. Ramya Sree, M.Tech., Assistant Prof.
Mr. V.V.Anantha Chakravarthy, M.Tech., Asst.Prof.
Mr. P. Kumar, M.Tech.,(Ph.D), Assistant Professor
Mr. K.V. Sarath Babu, M.Tech., Assistant Professor
Mr. M.Sankar, M.Tech, Assistant Professor
Mr. P.Ramu, M.Tech, Assistant Professor
Mr. T.Elamaran, M.Tech, Assistant Professor
Mr. N.Sandeep Rajan, M.Tech, Assistant Professor
Mrs. P.Kalai Selvi, M.Tech, Assistant Professor
Mrs. M. Sruthi, M.Tech., Assistant Professor

FACULTY DEVELOPMENT PROGRAMME

ON

BASICS IN COMPUTATIONAL FLUID DYNAMICS

(CFD)

10.12.2019 to 15.12.2019

Organized by

Department of Mechanical Engineering



VEMU INSTITUTE OF TECHNOLOGY

(Affiliated to JNTUA Anantapuramu)

P.Kothakota, Tirupati – Chittoor Highway,
Chittoor District, Andhra Pradesh – 517112

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CHITTOOR – TIRUPATHI HIGHWAY, NEAR PAKALA, CHITTOOR-517112
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DEPARTMENT OF MECHANICAL ENGINEERING

AONE-WEEK FACULTY DEVELOPMENT PROGRAM ON

BASICS IN COMPUTATIONAL FLUID DYNAMICS

Venue: ME Seminar Hall

Schedule (Time Table)


Dates: 10-15, Dec 2018

Time	9.30–11.00		11.15-1:00		1.30-3.00		3.15-4.45
Date & Day							
10-12-2018 (Monday)	Inauguration	T E A B R E A K	Introduction to Fluid Statics, Kinematics & Dynamics	L U N C H B R E A K	Basics of CFD	T E A B R E A K	Introduction to FLUENT
11-12-2018 (Tuesday)	Introduction to Fluid Flow Modelling		Practice Session		Fluid Flow Modelling		Practice Session
12-12-2018 (Wednesday)	Introduction to Turbulence Modelling		Practice Session		Turbulence Modelling		Practice Session
13-12-2018 (Thursday)	Introduction to Aerodynamics Modelling		Practice Session		Aerodynamics Modelling		Practice Session
14-12-2018 (Friday)	Introduction to Heat Transfer Modelling		Conduction Modelling		Practice Session		Practice Session
15-12-2018 (Saturday)	Convection Modelling		Practice Session		Radiation Modelling		Feedback, Test & Valedictory

Name and Address of the Resource Persons:

Mr. BRMV KRISHNA, Senior Simulation Engineer, Yucan Technologies, Bangalore.

Mr. G. M. RAJA MAHENDRA, Simulation Engineer, Yucan Technologies, Bangalore.


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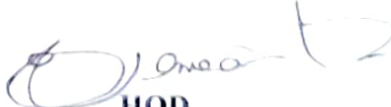
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PARTICIPANTS LIST

Title: **BASICS IN COMPUTATIONAL FLUID DYNAMICS**

Resource Person: **Mr. BRMV KRISHNA, Senior Simulation Engineer, Yucan Technologies, Bangalore.**

SL.NO	NAME OF THE FACULTY
1	Dr. K V N V N RAO
2	Mr. VEERAMGARI VENKATA RAMANA
3	Mr. G SURESH
4	Mr. M.VENKATESALU
5	Ms. Y. BHARGAVI
6	Mr. M DORABABU
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27	Mr. A. THRIVIKRAM 7


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3	Mr. G SURESH	<i>G Suresh</i>	<i>G Suresh</i>
4	Mr. M.VENKATESULU	<i>M. Venkatesulu</i>	<i>M. Venkatesulu</i>
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14	Mr. B R SATHEESH RAJA	<i>B. R. Satheesh Raja</i>	<i>B. R. Satheesh Raja</i>
15	Mr. M. JEEVAN PRASAD	<i>M. Jeevan Prasad</i>	<i>M. Jeevan Prasad</i>
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24	Dr. V. VENU GOPAL	<i>Venu Gopal</i>	<i>Venu Gopal</i>
25	Mr. S. P BHANU MURTHY	<i>S. P. Bhanu Murthy</i>	<i>S. P. Bhanu Murthy</i>
26	Mr. P. AJAY KUMAR	<i>Ajay Kumar</i>	<i>Ajay Kumar</i>
27	Mr. A. THIRIVIKRAM	<i>Thirivikram</i>	<i>Thirivikram</i>

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		FN	AN
1	Dr. K V N V N RAO	<i>KVN</i>	<i>KVN</i>
2	Mr. VEERAMGARI VENKATA RAMANA	<i>V. Venka</i>	<i>V. Venka</i>
3	Mr. G SURESH	<i>G. Suresh</i>	<i>G. Suresh</i>
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7	Mrs. K RAMYA SREE	<i>K. Ramya</i>	<i>K. Ramya</i>
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9	Mr. K BALAJI	<i>K. Balaji</i>	<i>K. Balaji</i>
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11	Mr. V V ANANTHA CHAKRAVARTHY	<i>V. Ananta</i>	<i>V. Ananta</i>
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3	Mr. G SURESH	G Suresh	G Suresh
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2	Mr. VEERAMGARI VENKATA RAMANA	<i>V. Veer</i>	<i>V. Veer</i>
3	Mr. G SURESH	<i>G. Suresh</i>	<i>G. Suresh</i>
4	Mr. M.VENKATESULU	<i>M. Venkatesulu</i>	<i>M. Venkatesulu</i>
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11	Mr. V V ANANTHA CHAKRAVARTHY	<i>V. V. Anantha Chakravarthy</i>	<i>V. V. Anantha Chakravarthy</i>
12	Mr. P BHASKARA	<i>P. Bhaskara</i>	<i>P. Bhaskara</i>
13	Mrs. SREERAMULA VENNELA	<i>S. Vennela</i>	<i>S. Vennela</i>
14	Mr. B R SATHEESH RAJA	<i>B. R. Satheesh Raja</i>	<i>B. R. Satheesh Raja</i>
15	Mr. M. JEEVAN PRASAD	<i>M. Jeevan Prasad</i>	<i>M. Jeevan Prasad</i>
16	Mr. M. SHANKAR	<i>M. Shankar</i>	<i>M. Shankar</i>
17	Mr. M. KUMAR	<i>M. Kumar</i>	<i>M. Kumar</i>
18	Mr. P. RAMU	<i>P. Ramu</i>	<i>P. Ramu</i>
19	Mrs. POORNIMA	<i>Poornima</i>	<i>Poornima</i>
20	Mrs. KALAISELVI	<i>Kalaiselvi</i>	<i>Kalaiselvi</i>
21	Mr. A. NAGESWARA REDDY	<i>A. Nageswara Reddy</i>	<i>A. Nageswara Reddy</i>
22	Mr. G. RAMESH	<i>G. Ramesh</i>	<i>G. Ramesh</i>
23	Mr. N. MAHESH	<i>N. Mahesh</i>	<i>N. Mahesh</i>
24	Dr. V. VENU GOPAL	<i>V. Venu Gopal</i>	<i>V. Venu Gopal</i>
25	Mr. S. P BHANU MURTHY	<i>S. P. Bhanu Murthy</i>	<i>S. P. Bhanu Murthy</i>
26	Mr. P. AJAY KUMAR	<i>P. Ajay Kumar</i>	<i>P. Ajay Kumar</i>
27	Mr. A. THRIVIKRAM	<i>A. Thrivikram</i>	<i>A. Thrivikram</i>

[Signature]

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P. KOTHAKOTA - 517 112



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DEPARTMENT OF MECHANICAL ENGINEERING

Summary Report on One Week Faculty Development Program on “BASICS IN COMPUTATIONAL FLUID DYNAMICS”

Date :10-12-2018 to 15-12-2018

Resource Person:Mr. G.M. Raja Mahendra, and Mr. BRMV Krishna, Senior Simulation Engineer, Yucan Technologies, Bangalore.

Summary:

The FDP was started with Inaugural session on day 1. Honourable Principal and HOD attended the inaugural session along with the resource persons.

On Day 1, Mr. BRMV Krishna started the session with introduction to Fluid Statics, Kinematics and Dynamics. Later he discussed the basics of CFD and introduced FLUENT to the participants.

Fluid Flow Modelling i.e., both pressure distribution and velocity distribution was discussed thoroughly during the second day of the FDP. Enough practice was given to understand the concepts.

Third day's session is about Turbulence Modelling. He¹ discussed the importance of turbulence in fluid flow and numerous examples were discussed and practiced.

Introduction to Aerodynamics Modelling was given by Mr. G. M. Raja Mahendra on 4th day of the FDP. He discussed the significance of Aerodynamics in Mechanical applications and adequate practice is given to the participants.

Day 5 session started with the brief introduction on various modes of heat transfer. Conduction Modelling and Convection Modelling was discussed during the day. Applications of Conduction and Convection was also discussed.

On final day of FDP, Radiation Modelling was discussed and the applications of radiation is related to it is described. The FDP was concluded with Valedictory Session.

Dr. V. Venu Gopal and Mr. K. Balaji, faculty of ME Department acted as Co-ordinator and Co-coordinator respectively.



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VEMU INSTITUTE OF TECHNOLOGY

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(ACCREDITED BY NAAC)

P.Kothakota, Chittoor Dist., A.P. - 517 112.



DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

This is to certify that [✓]Mr./Mrs./Ms. K. Balaji
from Vemu Institute of Technology has actively participated
in One Week Faculty Development programme on "BASICS IN COMPUTATIONAL FLUID DYNAMICS"
Organized by the Department of Mechanical Engineering, VEMU INSTITUTE OF TECHNOLOGY,
P.Kothakota, Chittoor Dist, Andhra Pradesh -517112 from 10-12-2018 to 15-12-2018.

PRINCIPAL

Vemu Institute of Technology

P. KOTHAKOTA - 517 112

CO-ORDINATOR

HOD-ME

PRINCIPAL

VEMU INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu)

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DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

This is to certify that Mr./Mrs./Ms. Sivaramula Vennela
from Vemu Institute of Technology has actively participated
in One Week Faculty Development programme on "BASICS IN COMPUTATIONAL FLUID DYNAMICS"
Organized by the Department of Mechanical Engineering, **VEMU INSTITUTE OF TECHNOLOGY,**
P.Kothakota, Chittoor Dist, Andhra Pradesh -517112 from 10-12-2018 to 15-12-2018.


CO-ORDINATOR


HOD-ME


PRINCIPAL

Vemu Institute of Technology,
P. KOTHAKOTA - 517 112


PRINCIPAL