



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
(An UGC Autonomous Institution, Affiliated to JNTUH, Hyderabad Accredited 2nd time by NAAC
with 'A' Grade & NBA and Recipient of World Bank Assistance under TEQIP--II S.C. 1.1)
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100
www.mrec.ac.in

Department of Mechanical Engineering

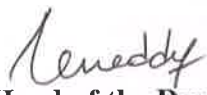
CIRCULAR

Date: 26/01/2016

All the students are hereby informed that Value Added Course on “**computational Methods**” on date **01-2-2016 to 6-2-2016**, is being organized by the mechanical engineering department. The resource person for the course is “**Dr.T.Srinivasa Rao, & Dr. Md. K. M. Farookhi**”.

Students are advised to register their names to the programme coordinator “Dr.A.Raveendra”, on or before 29/01/2016 and utilize this opportunity to enhance their skills by attending the programme.

The detailed schedule of the programme will be displayed in the notice board.


Head of the Department

Copy to:

- 1) Circulation in Students classroom
- 2) All HOD's
- 3) Notice Boards
- 4) PA to principal for filing.




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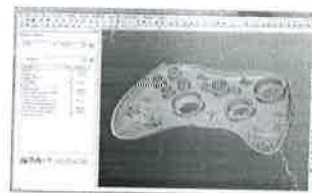
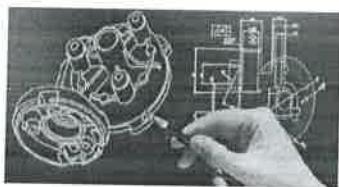
Value Added Course “Computational Methods”
organized by the Department Of Mechanical
Engineering on

Feb 8th 2016



Topics Covered

- Study of fluid flows
- Numerical analysis on fluid flow
- Fundamentals of finite element method
- User interface of Ansys Fluent



Organizing committee

Dr. B. L. Jaiswal, Professor, ME
Mr. K.Srinivasa Rao Assoc. Prof., ME

Resource person

Dr.T.Srinivasa Rao
Dr. Md. K. M. Farookhi



Rao
Principal
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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course
on
“Computational Methods”
08 – 13, Feb 2016
Programme Schedule

Date	Time	Topic	Resource Person
08-02-2016	10:10 – 11.00AM	Introduction to fluid dynamics	Dr. V.Bharathi
	11:00 -11:15AM	Tea Break	
	11.15 – 12:45 PM	Classification of partial differentiation equation	
	12:45 – 1:30PM	Lunch	
	1:30 – 2:30 PM	Finite different conditions	
	2:30 – 2:45PM	Tea Break	
	2:45 -4:00 PM	Elementatry and finite different conditions	
09-02-2016	9:30 – 11.00AM	Basic aspects of finite different methods	Dr. V.Bharathi
	11:00 -11:15AM	Tea Break	
	11.15 – 12:45 PM	Consistency and its methods	
	12:45 – 1:30PM	Lunch	
	1:30 – 2:30 PM	Convergence and its methods	
	2:30 – 2:45PM	Tea Break	
	2:45 -4:00 PM	Explicit methods	
10-02-2016	9:30 – 11.00AM	Adi Method in detail	
	11:00 -11:15AM	Tea Break	
	11.15 – 12:45 PM	Errors and stability analysis	
	12:45 – 1:30PM	Lunch	



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	1:30 – 2:30 PM	Hyperbolic and elliptic equations	Dr. V.Bharathi
	2:30 – 2:45PM	Tea Break	
	2:45 -4:00 PM	Stability and fluid flow modelling	
11-02-2016	9:30 – 11.00AM	Conservative property	Dr. Harsha Vardhana
	11:00 -11:15AM	Tea Break	
	11.15 – 12:45 PM	Navier stokes equation	
	12:45 – 1:30PM	Lunch	
	1:30 – 2:30 PM	Introduction to staggered grid	
	2:30 – 2:45PM	Tea Break	
	2:45 -4:00 PM	Simple methods for pressure linked equations	
12-02-2016	9:30 – 11.00AM	2D system of equations	Dr. Harsha Vardhana
	11:00 -11:15AM	Tea Break	
	11.15 – 12:45 PM	Mac formulation	
	12:45 – 1:30PM	Lunch	
	1:30 – 2:30 PM	Overall strategy for solving governing equations	
	2:30 – 2:45PM	Tea Break	
	2:45 -4:00 PM	Curvilinear coordinates	
13-02-2016	9:30 – 11.00AM	Curvilinear coordinates	Dr. Harsha Vardhana
	11:00 -11:15AM	Tea Break	
	11.15 – 12:45 PM	Scalar transport	
	12:45 – 1:30PM	Lunch	
	1:30 – 2:30 PM	Differencing schemes	
	2:30 – 2:45PM	Tea Break	
	2:45 -4:00 PM	Time discretization	


Coordinator


HOD


Principal




Principal
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DEPARTMENT OF MECHANICAL ENGINEERING

S.NO	Roll No	Name of the students	Details of value added courses	Duration
1	15J41D2101	B SAMPATH	Computational Methods	08/02/2016-13/02/2016
2	15J41D2102	B SANTHOSH	Computational Methods	08/02/2016-13/02/2016
3	15J41D2103	BANOTH DINESH NAIK	Computational Methods	08/02/2016-13/02/2016
4	15J41D2104	GOPI KUNCHAM	Computational Methods	08/02/2016-13/02/2016
5	15J41D2105	JADI SUMALATHA	Computational Methods	08/02/2016-13/02/2016
6	15J41D2106	K JOEL ASHIRVADAM	Computational Methods	08/02/2016-13/02/2016
7	15J41D2107	KUNAMALLA KEERTHISREE	Computational Methods	08/02/2016-13/02/2016
8	15J41D2108	MANDALA VAMAN REDDY	Computational Methods	08/02/2016-13/02/2016
9	15J41D2109	MUKKERA HEMANTH	Computational Methods	08/02/2016-13/02/2016
10	15J41D2110	VUNDAVALLI RAJA TEJA	Computational Methods	08/02/2016-13/02/2016
11	15J41D2111	ZAHID IMAM	Computational Methods	08/02/2016-13/02/2016
12	15J41D2112	NEIL MOSES P	Computational Methods	08/02/2016-13/02/2016



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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2015-16

A SUMMARY REPORT

Value added course name: “Computational Methods”

Value added course Instructor: **Dr.T.Srinivasa Rao, & Dr. Md. K. M. Farookhi**

Course Summary Report:

On the first day (08-02-2016) of the course Dr.T.Srinivasa Rao, & Dr. Md. K. M. Farookhi have delivered a lecture on Introduction to fluid dynamics, Classification of partial differentiation equation, Finite different conditions, and elementatry and finite different conditions.

On the second day (09-02-2016) the course started with the explanation of Consistency and its methods, Consistency and its methods, explicit methods, adi Method in detail, and Errors and stability analysis. On the third day (10-02-2016) the course started with the explanation of hyperabolic and elliptic equations, Stability and fluid flow modeling, and Conservative property.

On fourth day (11-02-2016) the instructor has delivered a lecture on Conservative property, Navier stokes equation, Introduction to staggered gird, Simple methods for pressure linked equations.

On the fifth day (12-02-2016) of the course Dr. Akant Kumar Singh has delivered a good lecture on 2D system of equations, Mac formulation, Overall strategy for solving governing equations, and curvilinear coordinates.

On the final day (13-02-2016) the course started with explanation on Curvilinear coordinates, Scalar transport, Differencing schemes, and Time discretization.



Ravish
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On the whole the total course was very much interested and informative and also very useful at the basic Engineering level.

Coordinator

Seneedy
HOD-ME



Raush
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Certificate of Completion

This is to certify that Mr./Ms. MANDALA VAMAN REDDY bearing Roll
No. 15J41D2108 has successfully completed Value Added Course in
Computational Methods conducted by the Department
of Mechanical Engineering from 08/02/2016 to 13/02/2016

Raneedu
COORDINATOR



Neeruddy
HOD

Ravi
Principal
Malla Reddy Engineering College
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Ravi
PRINCIPAL



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Certificate of Completion

This is to certify that Mr./Ms. GOPI KUNCHAM bearing Roll
No. 15J41D2104 has successfully completed Value Added Course in
Computational Methods conducted by the Department
of Mechanical Engineering from 08/02/2016 to 13/02/2016



R. Reddy
Principal
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Raneedu
COORDINATOR

N. Reddy
HOD

J. Reddy
PRINCIPAL



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Certificate of Completion

This is to certify that Mr./Ms. JADI SUMALATHA bearing Roll
No. 15J41D2105 has successfully completed Value Added Course in
Computational Methods conducted by the Department
of Mechanical Engineering from 08/02/2016 to 13/02/2016



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COORDINATOR

Neeraj
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Jadi
PRINCIPAL



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Certificate of Completion

This is to certify that Mr./Ms. B SAMPATH bearing Roll
No. 15J41D2101 has successfully completed Value Added Course in
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of Mechanical Engineering from 08/02/2016 to 13/02/2016

Raneedu
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Nuneddy
HOD

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STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES

Academic Year

2015-2016

Personal Details Student Feedback Suggestions

Dear Student,

You are required to give your feedback on the following aspects. Please tick in the respective column. Please use the following criteria for giving feedback: 5- Excellent, 4- Very Good, 3- Good, 2- Satisfactory, 1-Poor

Name of the Student and Roll No

M.Srikanth & 15J41A0356

Year and Semester:

I I & I

Academic Year

2015-16

Name of the Value added course offered

Computational methods lab

Name of the Resource Person(s)

Md.Farookhi

Course Duration

31 hours



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STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES

Academic Year

2015-2016

Personal Details Student Feedback Suggestions

Please use the following criteria for giving feedback: 5- Excellent, 4- Very Good, 3- Good, 2- Satisfactory, 1-Poor	Excellent	Very Good	Good	Fair	Fair
Course content	<input checked="" type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Skill development	<input type="radio"/> 5	<input checked="" type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Motivation	<input checked="" type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Regularity and punctuality of teacher	<input type="radio"/> 5	<input checked="" type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Coverage of content	<input checked="" type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Interaction	<input type="radio"/> 5	<input checked="" type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Individual attention	<input type="radio"/> 5	<input checked="" type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1
Outcome(s)	<input checked="" type="radio"/> 5	<input type="radio"/> 4	<input type="radio"/> 3	<input type="radio"/> 2	<input type="radio"/> 1

Continued



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STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES

Academic Year

2015-2016

Personal Details

Student Feedback

Suggestions

Any other Suggestions

Course duration should increase

Submit Feedback



Ravi
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