



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 “**Computaional Methods**” on date **30/9/2016 to 6-10-2016**, 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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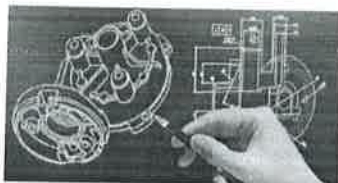
Value Added Course “Computational Methods”
organized by the Department Of Mechanical
Engineering on

Sep 30th 2016



Topics Covered

- Study of fluid flows
- Numerical analysis on fluid flow
- Fundamentals of finite element method



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

Principal
Principal

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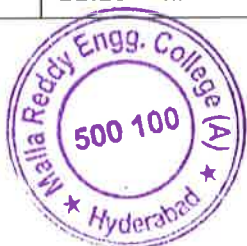


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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course
 on
 "Computational Methods"
 30Sep – 06Oct 2016
 Programme Schedule

Date	Time	Topic	Resource Person
30-09-2016	10:10 – 11.00AM	Introduction to fluid dynamics	Dr. Aerramsetty Srinivas
	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	
01-10-2016	9:30 – 11.00AM	Basic aspects of finite different methods	Dr. Aerramsetty Srinivas
	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	
	9:30 – 11.00AM	Adi Methods in detail	
	11:00 -11:15AM	Tea Break	
	11.15 – 12:45 PM	Errors and stability analysis	



Principal
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03-10-2016	12:45 – 1:30PM	Lunch	Dr. Aerramsetty Srinivas
	1:30 – 2:30 PM	Hyperabolic and elliptic equations	
	2:30 – 2:45PM	Tea Break	
	2:45 -4:00 PM	Stability and fluid flow modelling	
04-10-2016	9:30 – 11.00AM	Conservative property	Dr. Aerramsetty Srinivas
	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	
05-10-2016	9:30 – 11.00AM	2D system of equations	Dr. Akant Kumar Singh
	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	Curvelinear coordinates	
06-10-2016	9:30 – 11.00AM	Curvelinear coordinates	Dr. Akant Kumar Singh
	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	

Srinivas
Coordinator

Reddy
HOD

Srinivas
Principal



Srinivas
Principal
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DEPARTMENT OF MECHANICAL ENGINEERING

S.NO	Roll No	Name of the students	Details of value added courses	Duration
1	16J41D2101	ANGIDI RAJENDER	Computational Methods	08/02/2016-13/02/2016
2	16J41D2102	BEZAWADA SAI TEJA	Computational Methods	08/02/2016-13/02/2016
3	16J41D2103	E DIVYA	Computational Methods	08/02/2016-13/02/2016
4	16J41D2104	G KEERTHI PRIYA	Computational Methods	08/02/2016-13/02/2016
5	16J41D2105	GODA SOUJANYA GUOD	Computational Methods	08/02/2016-13/02/2016
6	16J41D2106	GUDEM SAI NARESHWAR REDDY	Computational Methods	08/02/2016-13/02/2016
7	16J41D2107	KANJARLA VIJAY	Computational Methods	08/02/2016-13/02/2016
8	16J41D2108	KASARAPU MANASWITHA	Computational Methods	08/02/2016-13/02/2016
9	16J41D2109	LAVUDYA HEMANTHRAJ CHOWHAN	Computational Methods	08/02/2016-13/02/2016
10	16J41D2110	MADHURAI GAJANAND ROHIT ABHISHEK	Computational Methods	08/02/2016-13/02/2016
11	16J41D2111	MOHAMMED ABDUL SHARAZ	Computational Methods	08/02/2016-13/02/2016
12	16J41D2112	PABBU BABAKRISHNA	Computational Methods	08/02/2016-13/02/2016
13	16J41D2113	S JOHNSON	Computational Methods	08/02/2016-13/02/2016
14	16J41D2114	SANAM RAVI TEJA	Computational Methods	08/02/2016-13/02/2016
15	16J41D2115	SHABAAZ AHMED SIDDIQUI	Computational Methods	08/02/2016-13/02/2016
16	16J41D2116	SUKHDEV SINGH	Computational Methods	08/02/2016-13/02/2016
17	16J41D2117	VEERAVENNARESH	Computational Methods	08/02/2016-13/02/2016



Raveendh
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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2016-17

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:

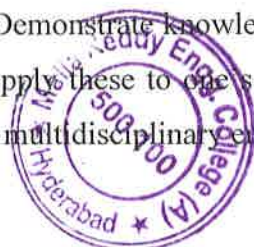
On the first day (**30-09-2016**) of the course Dr.T.Srinivasa Rao, & Dr. Md. K. M. Farookhi have delivered a lecture on Introduction to fluid dynamics, Classification of partial differentiation equation, Finite different conditions, and elementatry and finite different conditions.

On the second day (**01-10-2016**) 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 (**02-10-2016**) the course started with the explanation of hyperabolic and elliptic equations, Stability and fluid flow modeling, and Conservative property.

On fourth day (**03-10-2016**) 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 (**04-10-2016**) 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 sixth day (**05-10-2016**) Demonstrate knowledge and understanding of the engineering and management principles. Apply these to one's own work, as a member and leader in team, to manage projects and in multidisciplinary environments.



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On the final day (06-10-2016) the course started with explanation on Curvilinear coordinates, Scalar transport, Differencing schemes, and Time discretization.

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

V. Sreedhar
Coordinator

Ravi
HOD-ME



Ravi
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STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES

Academic Year

2016-2017

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.siva & 16J41A0356

Year and Semester:

I & I

Academic Year

2016-17

Name of the Value added course offered

Computational lab

Name of the Resource Person(s)

Md.Farookhi

Course Duration

31 hours

Continue



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STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES

Academic Year

2016-2017

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 checked="" type="radio"/> 5	<input 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



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STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES

Academic Year

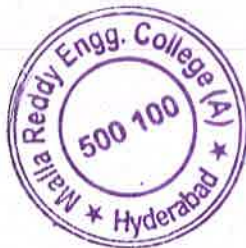
2016-2017

Personal Details Student Feedback **Suggestions**

Any other Suggestions

Course duration should increase

Submit Feedback



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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
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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
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of Mechanical Engineering from 08/02/2016 to 13/02/2016

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Certificate of Completion

This is to certify that Mr./Ms. K JOEL ASHIRVADAM bearing Roll
 No. 15J41D2106 has successfully completed Value Added Course in
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This is to certify that Mr./Ms. K KEERTHISREE bearing Roll
No. 15J41D2107 has successfully completed Value Added Course in
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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



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Certificate of Completion

This is to certify that Mr./Ms. MUKKERA HEMANTH bearing Roll No. 15J41D2109 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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This is to certify that Mr./Ms. VUNDAVALLI RAJA TEJA bearing Roll No. 15J41D2110 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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This is to certify that Mr./Ms. ZAHID IMAM bearing Roll
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This is to certify that Mr./Ms. NEIL MOSES P bearing Roll
 No. 15J41D2112 has successfully completed Value Added Course in
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Certificate of Completion

This is to certify that Mr./Ms. ANGIDI RAJENDER bearing Roll
No. 16J41D2101 has successfully completed Value Added Course in
Computational Method lab conducted by the Department
of Mechanical Engineering from 30/09/2016 to 06/10/2016

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