



GLOBAL INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE & Affiliated to JNTUH)

Survey No. 179, Chilkur (V), Moinabad (M), Ranga Reddy Dist. TS.

Phone: 8790101015 / 9959250205

e-mail: principal.giet.u6@gmail.com

JNTUH Code (U6)

CIVIL - CSE - MECH - ECE - EEE - MBA - M.Tech. EAMCET Code- GLOB

Department of Mechanical Engineering

Mr. D V Ramana Rao

B.Tech, M.Tech

Assistant Professor & Head

Lr.No: GIET/ME/Brdg Cour/001/05/2015-16

Date 22/06/2015

To

The Principal
Global Institute of Engineering & Technology
Moinabad

Madam,

Sub: Permission to Conduct Bridge Course for Students of ME-III Semester reg..

This is to get it to your kind notice that we Department of Mechanical Engineering are interested to conduct a Bridge Course On **ANSYS** to the students of ME-III Sem from 29/06/2015 to 03/07/2015, which is undertaken for students benefit as a value addition to curriculum of course.

These classes help students to strengthen their basics and bridge gap between intermediate and engineering. These classes give them a brief idea of Mechanical Engineering.

Kindly accord approval so as to make necessary arrangements for conducting the classes for students of Mechanical Engineering –III Sem – Academic Year: 2015-16.

Thanking you.


H.O.D

HEAD

Department of Mechanical Engg.
Global Institute of Engineering & Technology
Chilkur (V), Moinabad(M), R.R. Dist.T.S.-501504.

Cc to :

Director – for information

Dy. Director- for information

Dean – for information

Head H&S - for information



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Department of Mechanical Engineering

Lr.No: GIET/ME/Brdg Cour/002/05/2015-16

Date 22/06/2015


OFFICE ORDER

Sub : Appointment of Coordinator for Bridge Course Students of ME-III-Reg

This is to state that **Ms.G Tejaswi** is appointed as Coordinator for Bridge Course Classes for students of Mechanical Engineering- III Sem from 29/06/2015 to 03/07/2015. Further you will be responsible for checking the status of classes, strength of students and Syllabus coverage status and all other issues related to the conduct of classes.

It is here by informed to take charge immediately and initiate the work accordingly.

To
Ms.G Tejaswi
Assistant Professor
Department Mechanical Engineering
Global Institute of Engineering & Technology.

Principal

PRINCIPAL 22/6/15
Global Institute of Engg. & Tech
Chilkur (V), Moinabad (M)
R. R. Dist

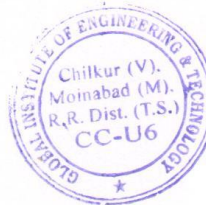
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Secretary :

K.M. ARIFUDDIN B.A., LL.M

Principal:

Lr.No: GIET/ME/Brdg Cour/003(a)/05/2015-16

Date 22/06/2015

To

Mr. Pavan B

Asst. Professor

Dept.of Mechanical Engineering

CMREC Hyderabad.

Respected Sir,

**SUB: Invitation as a Speaker for Bridge Course on 'ANSYS-Reg
Academic Year: 2015-16**

Global Institute of Engineering and Technology is a self financed Non-Minority Institution established in the year 2006 with a vision to promote quality education.

Global Institute of Engineering and Technology is managed by Madina Education and Welfare Society which is a four decades old society. Global Institute of Engineering and Technology offers B.Tech in Civil Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering, Computer Science and Engineering and Masters in Embedded Systems, Electrical Power Engineering, Computer Science and Engineering, Structural Engineering and MBA. GIET is also approved Nodal Center for running skill development courses under Pradhan Mantri Kaushal Vikas Yojana.

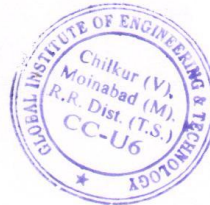
It is to humbly invite you to Speaker for Bridge Course on ANSYS in the Institution for our students of ME-III Sem, which is undertaken for students benefit as a value addition to curriculum of course.

I on behalf of the students of department of Mechanical Engineering request you grace the occasion as Speaker on 29/06/2015 to 03/07/2015 At College Campus Moinabad to take a Session on "ANSYS".

It is humbly requested to accept our invitation.

Thank you for your time and consideration.

Yours sincerely



Principal

Principal

Global Institute of Engg. & Tech

Chilkur (V), Moinabad (M)

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Principal:

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Date 22/06/2015

To

Mr. Dayanand Reddy
MD, Vasantha tools crafts Pvt.Limited
Hyderabad.

Respected Sir,

**SUB: Invitation as a Speaker for Bridge Course on 'ANSYS-Reg
Academic Year: 2015-16**

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Department of Mechanical Engineering

Mr. D V Ramana Rao
B.Tech , M.Tech
Assistant Professor & Head

Lr.No: GIET/ME/Brdg Cour/006/07/2015-16

Date 26/06/2015

CIRCULAR

All the students of ME-III Sem are informed to express their interest by enrolling their name for the One week Bridge course on “ANSYS” starting from 29/06/2015 to 03/07/2015 . The detailed syllabus for the course is attached for your information. Concerned mentors are instructed to submit the list of students enrolled within two days to the undersigned. For further information, you can contact the Course Coordinator.


H.O.D

HEAD

Department of Mechanical Engg.
Global Institute of Engineering & Technology
Chilkur (V), Moinabad(M), R.R. Dist.T.S.-501504.

Cc to :

Principal – for information
IQAC- for information
Mentor— for information
Head H&S - for information
Notice board
File



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Secretary :

K.M. ARIFUDDIN B.A., LL.M

Principal:

Lr.No: GIET/ME/Brdg Cour/004(a)/05/2015-16

Date 03/07/2015

To

Mr. Dayanand Reddy

MD, Vasantha tools crafts Pvt.Limited

Hyderabad.

SUB: Thanking for accepting invitation as a Speaker- Reg.

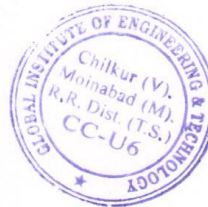
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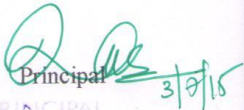
With all our due respect, we would like to thank you for your kind acceptance of invitation as a Speaker for Bridge Course on "ANSYS". Presence of a Speaker like you certainly will enhance the moral of our students and give them a new perspective on this topic.

It would be a pleasure to have you with us in this course and for our students to extract maximum possible information. Hope you will have a great time with us.

Thanking you.

Yours Sincerely



Principal  3/7/15

PRINCIPAL
Global Institute of Engg. & Tech
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Principal:

Lr.No: GIET/ME/Brdg Cour/004(b)/06/2015-16

Date 03/007/2015

To

Mr. Pavan B

Asst. Professor

Dept.of Mechanical Engineering

CMREC Hyderabad.

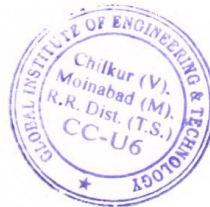
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Yours Sincerely


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Department of Mechanical Engineering

COURSE SYLLABUS FOR “ANSYS”

S.no	Topics to delivered	Duration Class work +Lab Practice (in hours)
1	Introduction to Finite Element Analysis	6
2	Introduction to ANSYS	6
3	Difference Between FDM FEM And FEA	6
4	General procedure in FEM	6
5	Working in ANSYS	6


Coordinator


H.O.D

HEAD
Department of Mechanical Engg.
Global Institute of Engineering & Technology
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EAMCET Code– GLOB

Department of Mechanical Engineering

LIST OF STUDENTS ENROLLED FOR BRIDGE COURSE

ACADEMIC YEAR: 2015-2016

S.No	Roll no	Name of the student	Year	Dept
1	14U61A0301	ABDUL RAHAMAN SK	II	ME
2	14U61A0302	ABHISHEK DAS	II	ME
3	14U61A0303	AFTAB ALAM	II	ME
4	14U61A0304	CHIRANJIT MONDAL	II	ME
5	14U61A0305	HABEEB AHMED SHOAIB	II	ME
6	14U61A0306	M A SAUD SIDDIQUI	II	ME
7	14U61A0307	MD ABDUL AHMED	II	ME
8	14U61A0308	MD AFREED	II	ME
9	14U61A0309	MD EMDADUL SK	II	ME
10	14U61A0310	MD KAIFY SHADAB	II	ME
11	14U61A0311	MD KAMRAN KHAN	II	ME
12	14U61A0312	MD NURUDDIN KHAN HAYAT FAROOQUE	II	ME
13	14U61A0313	MD SOHEL HASSAN SARDAR	II	ME
14	14U61A0314	MD TUFAIL HUSSAIN	II	ME
15	14U61A0315	MOHAMMED KHASIM HUSSAIN	II	ME
16	14U61A0316	MOHAMMED ABDUL KHADER	II	ME
17	14U61A0317	MOHAMMED FAREED KHAN	II	ME
18	14U61A0318	MOHAMMAD GHOUSE KHAN	II	ME
19	14U61A0319	MOHAMMED MUDASSIRALI	II	ME
20	14U61A0320	MOHAMMED QUTUBUDDIN	II	ME
21	14U61A0321	MOHAMMED YOUSHA MIRZA	II	ME
22	14U61A0322	MOHAMMED ZAKRIYA	II	ME
23	14U61A0323	MOHD AMIR ALI KHAN	II	ME
24	14U61A0324	MOHD DAUD	II	ME
25	14U61A0325	MOHD KAZIM AHMED	II	ME
26	14U61A0326	MOHD NAVEED	II	ME


HEAD
Department of Mechanical Engg
Global Institute of Engineering & Tec
(V), Moinabad(M), R.R. Dist.T

27	14U61A0327	MOHD RASHEED	II	ME
28	14U61A0328	MOHD SOHAIL	II	ME
29	14U61A0329	MOHD TALHA	II	ME
30	14U61A0330	MUJAHEDUL ISLAM	II	ME
31	14U61A0331	NIHAL KHURSHID	II	ME
32	14U61A0332	NURUL HASSAN MALLIK	II	ME
33	14U61A0333	PRIYAJIT CHATTERJEE	II	ME
34	14U61A0334	SADIQUE	II	ME
35	14U61A0335	SOHIB AHMED	II	ME
36	14U61A0336	SYED ALI MOHAMMED	II	ME
37	14U61A0337	SYED ASAD UDDIN	II	ME
38	14U61A0338	SYED MUJEEB UDDIN	II	ME
39	14U61A0339	SYED WASIFULLAH HUSSAINI	II	ME
40	14U61A0340	ZAID DANISH	II	ME


Coordinator


H.O.D

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Department of Mechanical Engg.
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Department of Mechanical Engineering

Attendance Sheet of Bridge course on " ANSYS"

S. NO	H.T.No	NAME OF THE PARTICIPANT	Year	Dept	29/06/2015	30/6/2015	07-01-2015	07-02-2015	07-03-2015	Total	Percentage
1	14U61A0301	ABDUL RAHAMAN SK	II	ME	6	6	6	6	6	30	100
2	14U61A0302	ABHISHEK DAS	II	ME	6	6	6	6	6	30	80
3	14U61A0303	AFTAB ALAM	II	ME	6	6	6	6	0	24	80
4	14U61A0304	CHIRANJIT MONDAL	II	ME	6	6	6	6	6	30	80
5	14U61A0305	HABEEB AHMED SHOAB	II	ME	6	6	6	6	6	30	100
6	14U61A0306	M A SAUD SIDDIQUI	II	ME	6	6	6	6	6	30	80
7	14U61A0307	MD ABDUL AHMED	II	ME	6	0	6	6	6	24	80
8	14U61A0308	MD AFREED	II	ME	6	6	6	6	0	24	80
9	14U61A0309	MD EMDADUL SK	II	ME	6	6	6	6	6	30	100
10	14U61A0310	MD KAIFY SHADAB	II	ME	6	6	6	6	6	30	100
11	14U61A0311	MD KAMRAN KHAN	II	ME	6	0	6	6	6	24	80
12	14U61A0312	MD NURUDDIN KHAN HAYAT FAROOQUE	II	ME	6	6	6	6	6	30	80
13	14U61A0313	MD SOHEL HASSAN SARDAR	II	ME	6	6	6	0	6	24	80
14	14U61A0314	MD TUFAIL HUSSAIN	II	ME	6	6	6	6	6	30	100
15	14U61A0315	MOHAMMED KHASIM HUSSAIN	II	ME	6	6	6	6	6	30	80
16	14U61A0316	MOHAMMED ABDUL KHADER	II	ME	6	6	6	6	6	30	100
17	14U61A0317	MOHAMMED FAREED KHAN	II	ME	6	6	0	6	6	24	80
18	14U61A0318	MOHAMMAD GHOUSE KHAN	II	ME	6	6	0	6	6	24	80
19	14U61A0319	MOHAMMED MUDASSIRALI	II	ME	6	6	0	6	6	24	80
20	14U61A0320	MOHAMMED QUTUBUDDIN	II	ME	6	6	0	6	6	24	80
21	14U61A0321	MOHAMMED YOUSHA MIRZA	II	ME	6	6	6	6	6	30	100
22	14U61A0322	MOHAMMED ZAKRIYA	II	ME	6	6	6	6	6	30	100
23	14U61A0323	MOHD AMIR ALI KHAN	II	ME	6	6	6	6	6	30	100
24	14U61A0324	MOHD DAUD	II	ME	6	6	0	6	6	24	80
25	14U61A0325	MOHD KAZIM AHMED	II	ME	6	6	6	6	6	30	100
26	14U61A0326	MOHD NAVEED	II	ME	6	6	0	6	6	24	80
27	14U61A0327	MOHD RASHEED	II	ME	6	6	6	6	6	30	100
28	14U61A0328	MOHD SOHAIL	II	ME	6	6	6	6	6	30	100
29	14U61A0329	MOHD TALHA	II	ME	6	6	6	6	6	30	100
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37	14U61A0337	SYED ASAD UDDIN	II	ME	6	6	6	6	6	30	100
38	14U61A0338	SYED MUJEEB UDDIN	II	ME	6	6	6	6	6	30	100
39	14U61A0339	SYED WASIFULLAH HUSSAINI	II	ME	6	6	6	6	6	30	100
40	14U61A0340	ZAID DANISH	II	ME	6	6	0	6	6	24	80

K. Teja
Coordinator

[Signature]
H.O.D

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Department of Mechanical Engineering

Bridge Course


On

ANSYS

(29th June to 03rd July 2015)

PROGRAMME SCHEDULE

	Forenoon (FN)		Afternoon(AN)
Day1	INAUGURATION	Introduction to Finite Element Analysis Mr. Dayanand Reddy MD Vasantha tools crafts Pvt.Limited Hyderabad.	Introduction to Finite Element Analysis Lab Practice
Day2	Introduction to ANSYS Mr. Pavan B Asst. Professor Dept.of Mechanical Engineering CMREC Hyderabad.		ANSYS Lab Practice
Day3	Difference Between FDM FEM And FEA Mr. Dayanand Reddy MD Vasantha tools crafts Pvt.Limited Hyderabad.		
Day4	General procedure in FEM Mr. Pavan B Asst. Professor Dept.of Mechanical Engineering CMREC Hyderabad.		General procedure in FEM Lab Practice
Day5	Working in ANSYS Mr. Dayanand Reddy MD Vasantha tools crafts Pvt.Limited Hyderabad.		Working in ANSYS Lab Practice


Co-Ordinator
Ms.G Tejaswi
Assistant Professor
Department of ME



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Department of Mechanical Engineering

Bridge Course On ANSYS

(29th June - 3rd July 2015)

FEEDBACK FORM

Please evaluate your rating of the course by placing a tick in the appropriate box.

1. Poor 2. Satisfactory 3. Good 4. Very good 5. Excellent

Branch and Year: *Mechanical IInd year*

Date: *03/07/2015*

ASPECTS	RATING				
	Excellent 5	Very good 4	Good 3	Satisfactory 2	Poor 1
Relevance of contents	<input checked="" type="checkbox"/>				
Trainer was knowledgeable and skillful		<input checked="" type="checkbox"/>			
Quality of input provided		<input checked="" type="checkbox"/>			
Quality of presentations			<input checked="" type="checkbox"/>		
Adherence to the time schedule		<input checked="" type="checkbox"/>			
Opportunity given to participant to clear doubts		<input checked="" type="checkbox"/>			
Identify ways to build on current skills and knowledge	<input checked="" type="checkbox"/>				
Overall learning experience		<input checked="" type="checkbox"/>			
How has the course enhanced your skills or understanding of this topic?					
<i>Very good.</i>					
Specify problems faced by you during the course?					
<i>-</i>					
Any Other Comments:					
<i>No.</i>					

[Signature]
HEAD

Department of Mechanical Engg.
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Bridge Course

On

ANSYS

(29th June - 3rd July 2015)

FEEDBACK FORM

Please evaluate your rating of the course by placing a tick in the appropriate box.

1. Poor 2. Satisfactory 3. Good 4. Very good 5. Excellent

Branch and Year: *MECHANICAL (II-Year)*

Date: *3/7/2015*

ASPECTS	RATING				
	Excellent 5	Very good 4	Good 3	Satisfactory 2	Poor 1
Relevance of contents	<input checked="" type="checkbox"/>				
Trainer was knowledgeable and skillful	<input checked="" type="checkbox"/>				
Quality of input provided	<input checked="" type="checkbox"/>				
Quality of presentations	<input checked="" type="checkbox"/>				
Adherence to the time schedule		<input checked="" type="checkbox"/>			
Opportunity given to participant to clear doubts	<input checked="" type="checkbox"/>				
Identify ways to build on current skills and knowledge	<input checked="" type="checkbox"/>				
Overall learning experience	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
How has the course enhanced your skills or understanding of this topic?					
<i>Awesome</i>					
Specify problems faced by you during the course?					
<i>- NO -</i>					
Any Other Comments:					
<i>- Nothing.</i>					

[Signature]
HEAD

Department of Mechanical Engg.
Global Institute of Engineering & Technology
Chilkur (V), Moinabad (M), R.R. Dist. T.S. 501504.

Bridge Course
On
ANSYS

ATTENDANCE SHEET

S.No	Roll Number	Name of the Participant	Programme	Year	ATTENDANCE															
					Day-1 (29/06/2015)		Day-2 (30/06/2015)		Day-3 (01/07/2015)		Day-4 (2/07/2015)		Day-5 (07-03-2015)							
					FN	AN	FN	AN	FN	AN	FN	AN	FN	AN						
1	14U61A0301	ABDUL RAHAMAN SK	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	14U61A0302	ABHISHEK DAS	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	14U61A0303	AFTAB ALAM	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	14U61A0304	CHIRANJIT MONDAL	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	14U61A0305	HABEEB AHMED SHOAB	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	14U61A0306	M.A SAUD SIDDIQUI	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	14U61A0307	MD ABDUL AHMED	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	14U61A0308	MD AFREED	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	14U61A0309	MD EMDADUL SK	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	14U61A0310	MD KAIFY SHADAB	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	14U61A0311	MD KAMRAN KHAN	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	14U61A0312	MD NURUDDIN KHAN HAYAT	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	14U61A0313	FAROOQUE	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	14U61A0314	MD SOHEL HASSAN SARDAR	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	14U61A0315	MD TUFAIL HUSSAIN	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	14U61A0316	MOHAMMED KHASIM HUSSAIN	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	14U61A0317	MOHAMMED ABDUL KHADER	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	14U61A0318	MOHAMMED FAREED KHAN	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	14U61A0319	MOHAMMAD GHOUSE KHAN	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	14U61A0320	MOHAMMED MUDASSIRALI	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	14U61A0321	MOHAMMED QUTUBUDDIN	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	14U61A0322	MOHAMMED YOUSHA MIRZA	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	14U61A0323	MOHAMMED ZAKRIYA	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	14U61A0324	MOHD AMIR ALI KHAN	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25	14U61A0325	MOHD DAUD	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26	14U61A0326	MOHD KAZIM AHMED	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	14U61A0327	MOHD NAVEED	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	14U61A0328	MOHD RASHEED	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	14U61A0329	MOHD SOHAIL	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	14U61A0330	MOHD TALHA	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	14U61A0331	MUJAHEDUL ISLAM	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	14U61A0332	NIHAL KHURSHID	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33	14U61A0333	NIHAL HASSAN MALLIK	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34	14U61A0334	NUJUL HASSAN MALLIK	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	14U61A0335	PRIYAJIT CHATTERJEE	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	14U61A0336	SADIQUE	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
37	14U61A0337	SOHIB AHMED	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	14U61A0338	SYED ALI MOHAMMED	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
39	14U61A0339	SYED ASAD UDDIN	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40	14U61A0340	SYED MUJEEB UDDIN	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
		SYED WASIFULLAH HUSSAINI	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
		ZAID DANISH	B.Tech	II	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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GLOBAL INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE & Affiliated to JNTUH)

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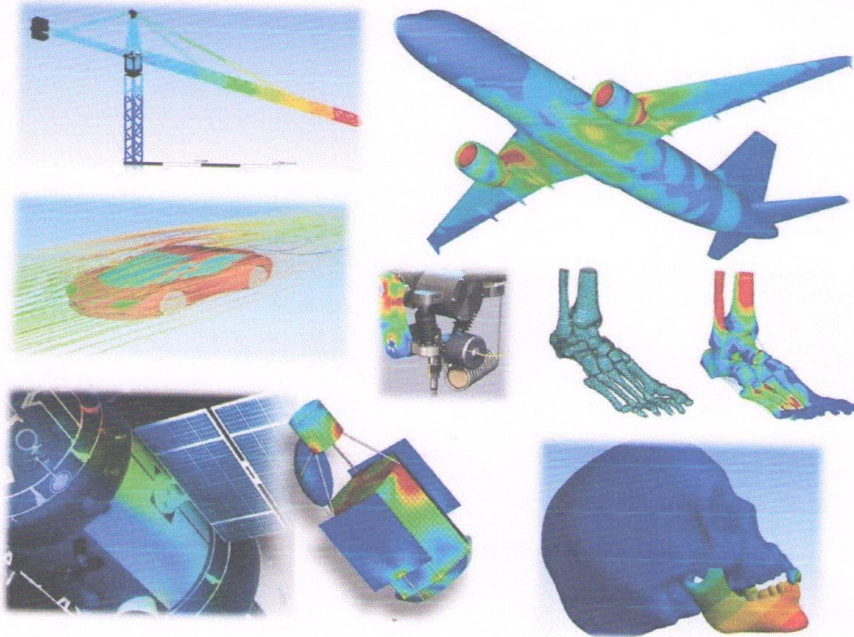
e-mail: principal.giet.u6@gmail.com

JNTUH Code(U6) CIVIL - CSE - MECH - ECE - EEE - MBA - M.Tech.

EAMCET Code- GLOB

Department of Mechanical Engineering

Bridge Course On "ANSYS"




HEAD

Department of Mechanical Engg.
Global Institute of Engineering & Technology
Chilkur (V), Moinabad (M), R.R. Dist.T.S.-501504.

About Bridge Course: The Bridge Course is aimed to act as a buffer for the new entrants, with an objective to provide adequate time for the transition to hard-core engineering courses. During this interaction of bridge course week with the faculty and their classmates, the students will be equipped with the knowledge and the confidence needed to take on bigger challenges as future engineers of this country.

Objectives:

- To act as a buffer for the new entrants.
- To provide adequate time for the transition to hard-core engineering courses.
- Focus on fostering a strong sense of ethical judgment and moral fortitude.
- Applications based self-learning and intermingling of a large cross section of students from vastly varying backgrounds.
- A breather, to prepare themselves before courses for first year engineering commence.
- The students will be equipped with the knowledge and the confidence needed to take on bigger challenges.
- Nurture a deeper understanding of the local and global world and our place in it as concerned citizens of the world.
- Interactive and Active Learning by Doing have been weaved into the Bridge Course.
- Active learning with the help of other students

Chapter1: Introduction to Finite Element Analysis

What is FEA?

Finite Element Analysis is a way to simulate loading conditions on a design and determine the design's response to those conditions.

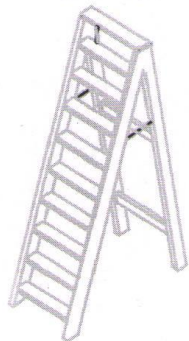
The design is modeled using discrete building blocks called **elements**. Each element has exact equations that describe how it responds to a certain load. The "sum" of the response of all elements in the model gives the total response of the design. The elements have a finite number of unknowns, hence the name **finite elements**.

The **finite element model**, which has a finite number of unknowns, can only approximate the response of the physical system, which has infinite unknowns.

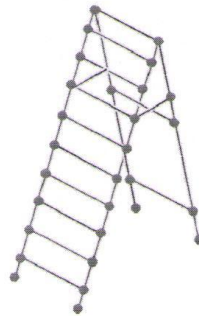
So the question arises: How good is the approximation?

Unfortunately, there is no easy answer to this question. It depends entirely on what you are simulating and the tools you use for the simulation. We will, however, attempt to give you guidelines throughout this training course.

Physical System



F.E. Model



Most often the mathematical models result in algebraic, differential or integral equations or combinations thereof. Seldom these equations can be solved in closed form (Exact form), and hence numerical methods are used to obtain solutions. Finite difference method is a classical method that provides approximate solutions to differential equations with reasonable engineering accuracy. There are other methods of solving mathematical equations that are taught in traditional numerical methods courses. Finite Element Method is one of the numerical methods of solving differential equations. The FEM originated in the area of structural mechanics, and has been extended to other areas of solid mechanics and later to other fields such as heat transfer, fluid dynamics and electromagnetic devices. In fact FEM has been recognized as a powerful tool for solving partial differential equations and integral-differential equations. And in the near future it may become the numerical method of choice in many engineering and applied science areas. One of the reasons for Fem.'s popularity is that the method results in computer programs versatile in nature that can be used to solve many practical problems with least amount of training. Obviously there is a

danger in using computer programs without proper understanding of the theory behind them, and that is one of the reactions to have a thorough understanding of the theory behind the Finite Element Method.

Brief History of the FEM

Academic and industrial researchers created the finite element method of structural analysis during the 1950s and 1960s. The underlying theory is over 100 years old, and was the basis for pen-and-paper calculations in the evaluation of suspension bridges and steam boilers.

1. 1943 Courant (Variational Methods)
2. 1960 Clough ("Finite Element", plane problems)
3. 1970 Applications on mainframe computers
4. 1980 Microcomputers, pre- and postprocessors
5. 1990 Analysis of large structural systems
6. 1996 Partition of unity method (PUM) Melenk and Babuska
7. 1996 h-p Cloud Method of Duarte and Oden
8. 1996 Meshless methods by Belytschko et.al

Why is FEA needed?

- To reduce the amount of prototype testing – Computer simulation allows multiple “what-if” scenarios to be tested quickly and effectively.
- To simulate designs that are not suitable for prototype testing – Example: Surgical implants, such as an artificial knee.
- The bottom line:
 - Cost savings
 - Time savings... reduce time to market!
 - Create more reliable, better-quality designs

FEM TO DESIGNERS:

- Easily applied to complex, irregular shaped objects composed of several different materials and having complex boundary conditions.
- Applied to steady state time dependent, Eigen Value problems.
- Applicable to linear and non-linear problems.
- Number of general-purpose FEM packages are available.
- FEM can be coupled to CAD programs to facilitate Solid modeling and mesh generations.
- Many FEM software packages feature GUI interfaces, automeshers and sophisticated post processors and graphics to speed the analysis and makes Pre and post processing more user friendly.

FEM TO DESIGN ORGANISATION:

- Reduced Testing and Redesign costs thereby shortening of product development cycle.
 - Identify issues in designs before tooling is committed.
 - Refine components before dependencies to other components prohibit change.
 - Optimize performance before prototyping.
 - Discovers design problems before litigations.
 - Allows more time for designers to use engineering judgment and less time for further thinking.
-