KANDULA SRINIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING (AUTONOMOUS)
Kadapa-516003. AP

(Approved by AICTE, Affiliated to JNTUA, Ananthapuramu, Accredited by NAAC)
(An ISO 9001-2008 Certified Institution)

DEPARTMENT OF MECHANICAL ENGINEERING

Certification Course on

"COMPUTER AIDED ANALYSIS AND SIMULATION"

Resource Person : Sri U. Pradeep Kumar, Assistant Professor, Dept. of ME, KSRMCE

Course Coordinators: D. Merwin Rajesh, Assistant Professor, Dept. of ME, KSRMCE

Date: 19/07/2019 to 06/08/2019

K.S.R.M. COLLEGE OF ENGINEERING

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Lr./KSRMCE/ME/2019-20/ Date: 17-07-2019

To
The Principal,
KSRMCE,
Kadapa.

Sub: Permission to Conduct Certificate Course on "**Computer Aided Analysis and Simulation**" from 19-07-2019 to 06-08-2019 – Reg.

Respected Sir,

The Department of Mechanical Engineering is planning to offer a certification course on "**Computer Aided Analysis and Simulation**" to B. Tech. students. The course will be conducted from 19-07-2019 to 06-08-2019. In this regard, we are requesting you to grant permission to conduct certificate course.

Thanking you

Yours faithfully

(**D. MERWIN RAJESH**),
(Asst. Professor)

Forwarded to Principal sir

Permitted
V. S. S. Murty
17/07/2019

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Lr./KSRMCE/ME/2019-20/

Date: 17-07-2019

CIRCULAR

The Department of Mechanical Engineering is offering a certification course on "**Computer Aided Analysis and Simulation**" from 19-07-2019 to 06-08-2019 to B.Tech students. In this regard, interested students are required to register for the Certification Course.

Course Coordinator

D. Merwin Rajesh,
Department of Mechanical Engineering

HoD

Professor & Head
Department of Mechnical Engineering
K.S.R.M. College of Engineering
KADAPA - 516 003.

Copy to:
IQAC - KSRMCE

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DEPARTMENT OF MECHANICAL ENGINEERING

Certification Course on COMPUTER AIDED ANALYSIS AND SIMULATION

LIST OF PARTICIPANTS

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COORDINATOR

HoD

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KADAPA - 516 003.

SYLLABUS

COMPUTER AIDED ANALYSIS AND SIMULATION

Chapter-1

INTRODUCTION TO FEA AND ANSYS:

Introduction to FEA, Key Assumptions in FEA, Types of Analysis, Important terms and Definitions, Setting the Analysis Preferences, Units in ANSYS, Exiting ANSYS, Self-and Evaluation Test

Chapter-2

BASIC SOLID MODELING:

Solid modeling in ANSYS, Solid modeling methods, Considerations before creating a model for analysis, creating geometric entities, creating and modifying work planes and coordinate systems in ANSYS.

Chapter-3

ADVANCED SOLID MODELING:

Advanced Solid Modeling, Creating complex solid models by performing Boolean operations, modifying the solid model, Deleting solid model entities, importing solid models, importing the IGES file, importing models from Pro/ENGINEER and importing the model from unigraphics.

Chapter-4

FINITE ELEMENT MODELING:

An overview of the Finite element modeling, element attributes, real constants, material properties, multiple attributes, assigning multiple attributes before meshing, assigning default attributes before meshing, modifying attributes after meshing, verifying assigned attributesand element attributes table.

THERMAL ANALYSIS:

Thermal analysis, important terms used in thermal analysis, types of thermal analysis and performing steady-state thermal analysis.

Chapter-5

SOLUTION AND POSTPROCESSOR:

Solution, defining the new analysis type, restarting the analysis, setting solution controls, setting analysis options, solving the analysis problem and post processing the result.

GENERATING THE REPORT OF ANALYSIS:

Starting the ANSYS report generator, capturing images, animations, tables and lists for the report, compiling the report and changing the default settings of the ANSYS report generator. Error estimation in solution, percentage error in energy norm, element energy error, and element stress deviations, maximum and minimum stress bounds.

Learning References

1. https://www.ansys.com/academic/terms-and-conditions
2. https://www.featuredcustomers.com/vendor/ansys/testimonials
3. https://www.featuredcustomers.com/vendor/ansys
4. http://research.me.udel.edu/~lwang/teaching/MEx81/ansys56manual.pdf
5. https://www.afs.enea.it/project/neptunius/docs/fluent/html/ug/node971.htm
6. https://www.afs.enea.it/project/neptunius/docs/fluent/html/ug/node332.htm

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SCHEDULE

DEPARTMENT OF MECHANICAL ENGINEERING

Certification course on

"COMPUTER AIDED ANALYSIS AND SIMULATION"

Date	Timing	Resource Person	Topic to be covered
19-07-2019	4 PM to 6 PM	U. Pradeep Kumar	Introduction to FEA, Key Assumptions in FEA
20-07-2019	4 PM to 6 PM	U. Pradeep Kumar	Types of Analysis, Important terms and Definitions, Setting the Analysis Preferences
22-07-2019	4 PM to 6 PM	U. Pradeep Kumar	Units in ANSYS, Exiting ANSYS, Self- and Evaluation Test
23-07-2019	4 PM to 6 PM	U. Pradeep Kumar	Solid modeling in ANSYS, Solid modeling methods
24-07-2019	4 PM to 6 PM	U. Pradeep Kumar	Considerations before creating a model for analysis, creating geometric entities, creating and modifying work planes
25-07-2019	4 PM to 6 PM	U. Pradeep Kumar	coordinate systems in ANSYS
26-07-2019	4 PM to 6 PM	U. Pradeep Kumar	Advanced Solid Modeling, Creating complex solid models by performing Boolean operations,
29-07-2019	4 PM to 6 PM	U. Pradeep Kumar	modifying the solid model, Deleting solid model entities, importing solid models, importing the IGES file
30-07-2019	4 PM to 6 PM	U. Pradeep Kumar	mporting models from Pro/ENGINEER and importing the model from unigraphics
31-07-2019	4 PM to 6 PM	U. Pradeep Kumar	Finite element modeling, element attributes, real constants, material properties, multiple attributes, assigning multiple attributes before meshing, assigning default attributes before meshing,
01-08-2019	4 PM to 6 PM	U. Pradeep Kumar	modifying attributes after meshing, verifying assigned attributesand element attributes table.
02-08-2019	4 PM to 6 PM	U. Pradeep Kumar	Thermal analysis, important terms used in thermal analysis, types of thermal analysis and performing steady-state thermal analysis
03-08-2019	4 PM to 6 PM	U. Pradeep Kumar	Solution, defining the new analysis type,

			restarting the analysis, setting solution controls, setting analysis options, solving the analysis problem and post processing the result
05-08-2019	4 PM to 6 PM	U. Pradeep Kumar	Starting the ANSYS report generator, capturing images, animations, tables and lists for the report, compiling the report and changing the default settings of the ANSYS report generator
06-08-2019	4 PM to 6 PM	U. Pradeep Kumar	Error estimation in solution, percentage error in energy norm, element energy error, and element stress deviations, maximum and minimum stress bounds

Course Coordinator

HoD

Professor & Head
Department of Mechanical Engineering
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Report of
Value Added Course on "COMPUTER AIDED ANALYSIS AND SIMULATION"
From 19th July 2019 to 06th August 2019

Target Group	:	**B.Tech Students**
Details of Participants	:	**70 Students**
Co-coordinator(s)	:	**Sri D.Merwin Rajesh**
Resource Person	:	**Sri U.Pradeep Kumar**
Organizing Department	:	**Mechanical Engineering**
Venue	:	**Seminar Hall, Mechanical Department**

Description:

The Department of Mechanical Engineering conducted a certification course on "COMPUTER AIDED ANALYSIS AND SIMULATION" 19th July 2019 to 06th August 2019. The course duration was 30 hours .The course Resource Persons are Sri U.Pradeep Kumar, Assistant Professor and Sri D.Merwin Rajesh, Assistant Professor Department Mechanical Engineering, KSRMCE.

The main objective of this course is COMPUTER AIDED ANALYSIS AND SIMULATION is mainly using Ansys Software.

It provides an Analysis and simulation software ANSYS for the students Familiar in Analysis and simulation. Computing has completely changed the world in the past decade and its power is continually increasing.

CAD software is frequently used by different types of engineers and designers. CAD software can be used to create two-dimensional (2-D) drawings or three-dimensional (3-D) models. CAD allows experts to create more accurate design representations. CAD replaced manual design drafting, allowing design development alteration and optimization.

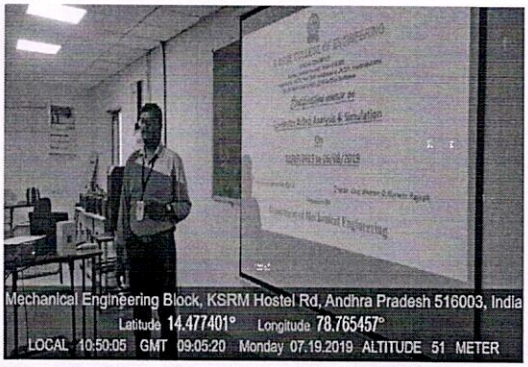
CAM is Computer-aided manufacturing reduces the dependency on manual labour for any production process. A technological approach helps control machines, other equipment and software with ease. It reduces set-up time, minimises training, improves cost-efficiency and reduces errors in production operations.

CAE is the use of computer software to simulate performance in order to improve product designs or assist in the resolution of engineering problems for a wide range of industries. CAE involves computers to perform much of the iteration of synthesis and analysis in the design procedure. Digital prototyping refers to a computer-generated realistic prototype model near or at the final state of the product.

On final Day last session Value added course is Ended with oath of thanks and certificate distribution by coordinator & HOD to the Participants. Feedback from participants are collected.

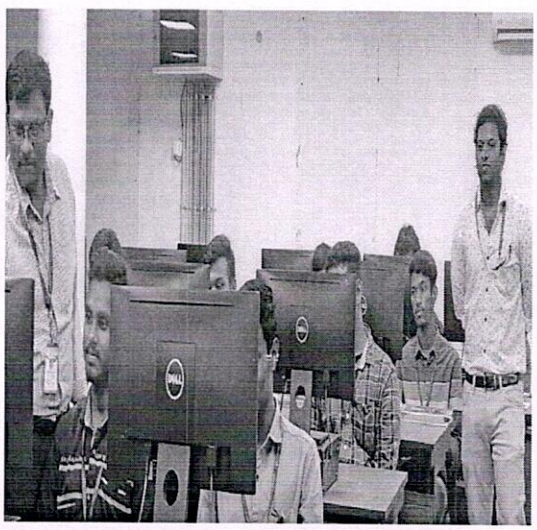
Photos

The pictures taken during the course are given below:



Inaguration of Programme

Students Particing during to the course



Students Practicing and clarifying their doubts

Certificate distribution to the students

Coordinators

HoD

Professor & Head
Department of Mechanical Engg.
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Certification Course on

"COMPUTER AIDED ANALYSIS AND SIMULATION"

19/07/2019 to 06/08/2019

ORGANIZED BY

DEPARTMENT OF MECHANICAL ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

Attendance Sheet of Certification Course on
COMPUTER AIDED ANALYSIS AND SIMULATION
from 19th July 2019 to 6th August 2019

LIST OF PARTICIPANTS

S. No.	Roll No.	Name of the Student	19/7	20/7	22/7	23/7	24/7	25/7	26/7	29/7	30/7	31/7	01/8	02/8	03/8	05/8	06/8
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2	169Y1A0304	BHADUR YASEEN AHMED	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
3	169Y1A0305	BOMMISETTY CHOWDAIAH	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
4	169Y1A0306	BOMMU RAMA KRISHNA REDDY	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
5	169Y1A0307	BOPATHI JAGAN MOHAN REDDY	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
6	169Y1A0308	BOREDDY PRASANNA KUMAR REDDY	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
7	169Y1A0309	BUTCHER KHALEELULLAH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A
8	169Y1A0310	CHAMMIREDDY CHAMMIREDDY	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
9	169Y1A0312	DAMODAR ABDAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	169Y1A0315	G VISHNUVARDAN REDDY	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
11	169Y1A0316	GANDAM PRANAY KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	169Y1A0317	GONDIPALLE NAVEEN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	169Y1A0318	GOPAVARAM RAKESH REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
14	169Y1A0319	KAMMA SUMANTH CHOWDARY	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
15	169Y1A0320	KANDULA KIRAN REDDY	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
16	169Y1A0321	KATIKA KHAJA MYNUDDIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	169Y1A0322	KODURU NAVEEN	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
18	169Y1A0323	KODURU SREEDHAR REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	169Y1A0324	KOROLLU ANANTHA KRISHNA	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
20	169Y1A0325	KRISTIPATI VIJAYA VARDHAN REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	169Y1A0326	KUPPAM SAI MANIKANTA	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
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23	169Y1A0328	MANDADI V L N S KARTHIKEYA SHARMA	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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27	169Y1A0345	PENUGONDA VENKATESH	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
28	169Y1A0346	PENUMALA VISHNU GOPAL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A
29	169Y1A0348	RACHAKUNTA HARI KRISHNA	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	169Y1A0349	RAKESH JONNAGIRI	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
31	169Y1A0350	RAMAVATH RAMA NAIK	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
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38	169Y1A0370	Y YUGANDHAR REDDY	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
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70	179Y5A0338	SANGATI LAKSHMI REDDY	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P

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KADAPA - 516 003.

COMPUTER AIDED ANALYSIS AND SIMULATION

ABOUT ANSYS

- Engineering simulation software founded by software engineer John Swanson.
- Developed a range of computer-aided engineering (CAE) Products, it is perhaps best known for its ANSYS mechanical and ANSYS multiphysics products.
- Ansys mechanical and ANSYS multiphysics software are non exportable analysis tools.
- These are general purpose finite element modeling packages for numerically solving mechanical problems, including static/dynamic structural analysis both linear/non linear), heat transfer and fluid problems

About Analysis

Process of analyzing a structure to the externally applied loads(Pressure, Force, Temperature)

Basic Terminologies-Structural analysis

- Stress
- Strain
- Poisson ratio
- Hook's law
- Young's modulus
- Bending moment
- Shear force
- Stress strain curve for various materials
- Linear
- Nonlinear
- Isotropic vs. anisotropic vs. orthotropic

GLOBAL & LOCAL AXES

GLOBAL :

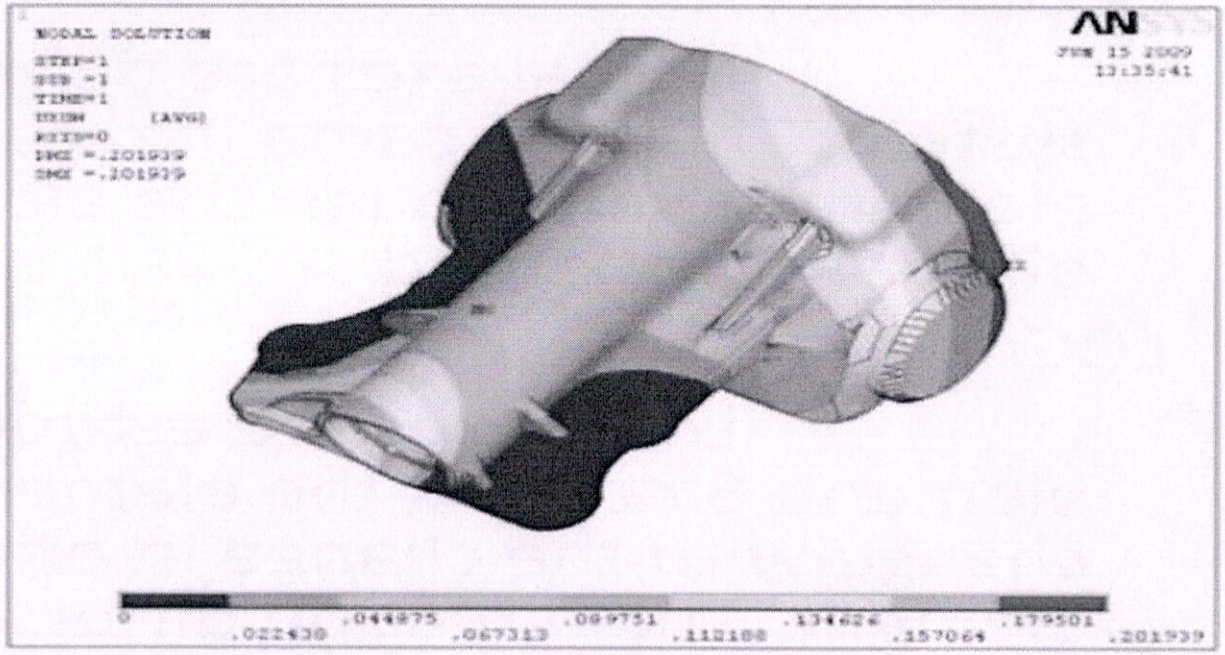
Global axes are defined for the entire system. They are same in direction for all the elements even though the elements are differently oriented

LOCAL :

Local axes are established in an element. Since it is the element level, they change with the change in orientation of the element. The direction differs from element to element

Need for Analysis

- To reduce product development cycle time
- To reduce the cost of product
- Idle time reduction
- Better design and Alternate materials
- To reduce material wastage



Types of Methods

- Mathematical approach
- Physical model
- Numerical method

Introduction to FEM & FEA

- FEM-Finite element method
- FEA –Finite element analysis

FEM

- Finite element method of structural analysis was created by academic and industrial researches during 1959's and 1960's
- Theoretical approach.
- Examples

Euler's rule, LaGrange method,

Newton raphson method, Fourier series

Nature of FEM

- Force method (Forces unknown)
  - Strain energy method
  - Consistent deformation method
  - Matrix flexibility method
  - Clayperons theorem of 3 moments
- Displacement method (Displacements unknown)
  - Kanis method
  - Slope deflection method
  - Matrix stiffness method
  - Moment distribution method
  - FEM

FEA

FEA-

simulate loading conditions on design & determine design response to these conditions

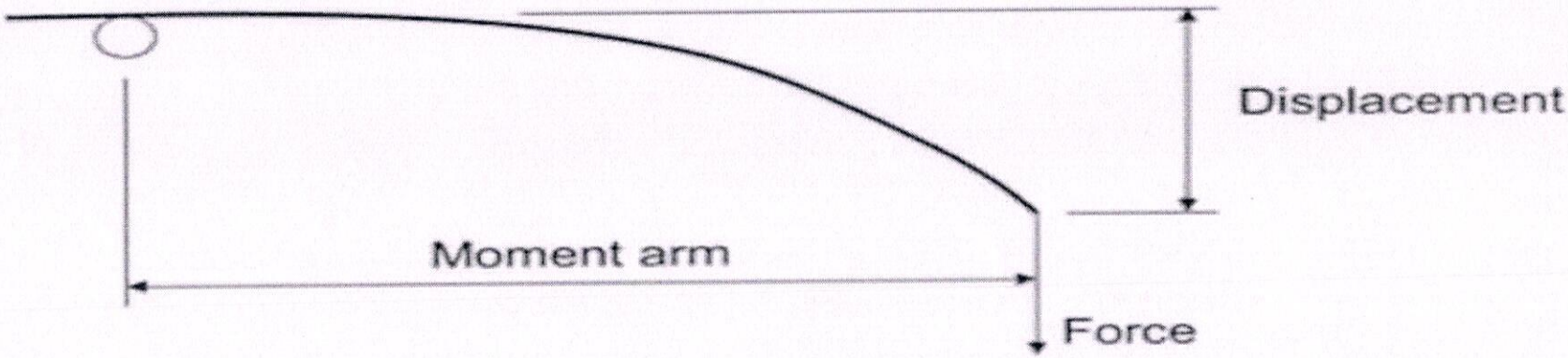
The design is modeled using discrete elements called elements

The sum of response of all elements in the model gives the response of design

Problem types in FEA

- Boundary value problem-static and steady state analysis
- Initial value problem-fluid flow
- Eigen value problem-Modal analysis, vibration and natural frequency
- Boundary initial value problem-forced vibration, transient and dynamic analysis

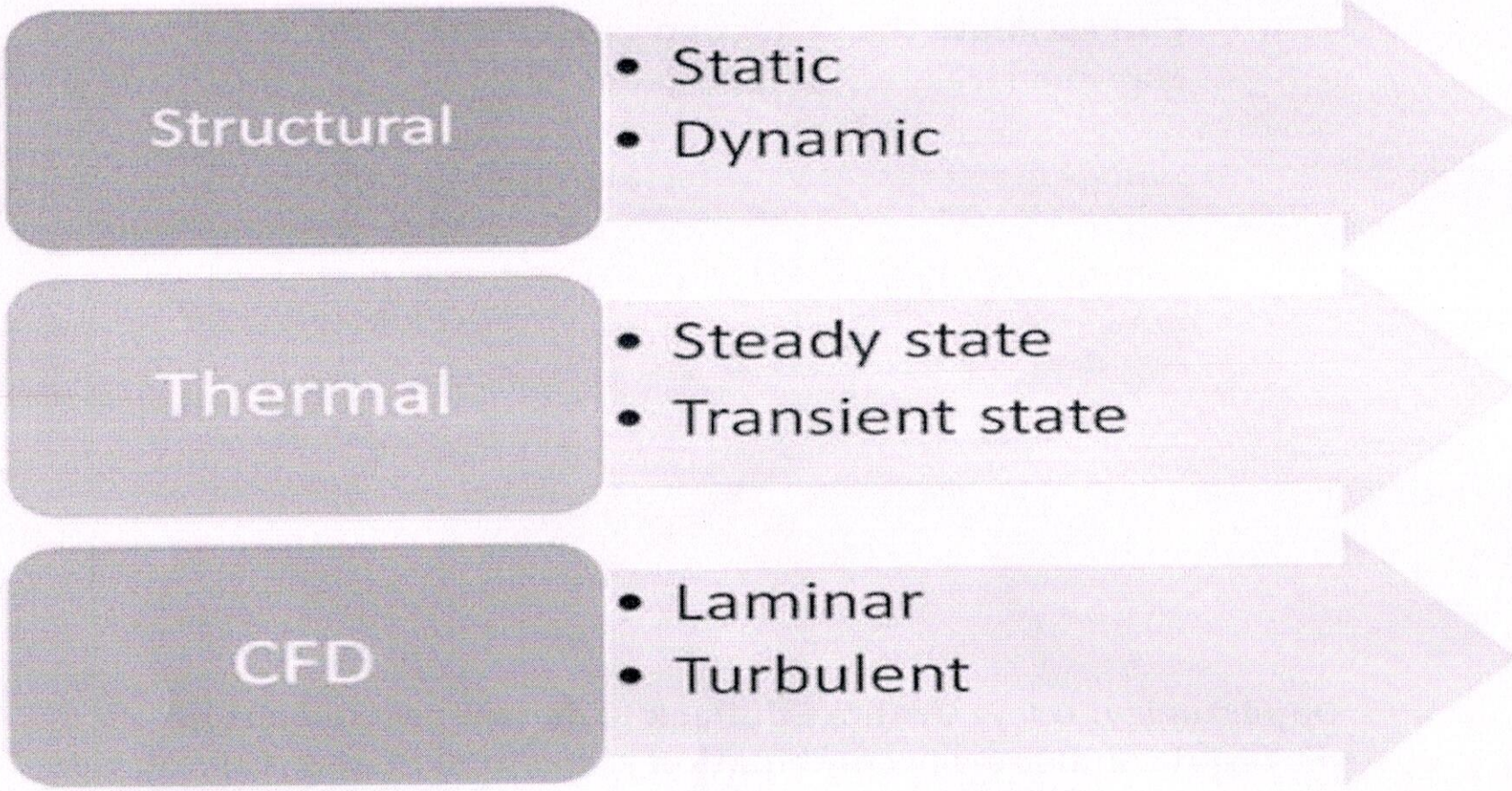
Geometric Nonlinearity



Advanced Solution Options

```
01   EQSLV, Lab, TOLER, MULT
02   SOLCONTROL, Key1, Key2
03   NEQIT, NEQIT
04   CNVTOL, Lab, VALUE, TOLER, NORM, MINREF
05   NROPT, Option,, Adptky
06   LNSRCH, Key
07   PRED, Sskey, --, Lskey
08   SSTIF, Key
09   PSTRES, Key
10   CUTCONTROL, Lab, VALUE, Option
11   TIMINT, Key, Lab
12   TINTP, GAMMA, ...
13   NCNV, KSTOP, DLIM, ITLIM, ETLIM, CPLIM
```

ANSYS- TOPICS



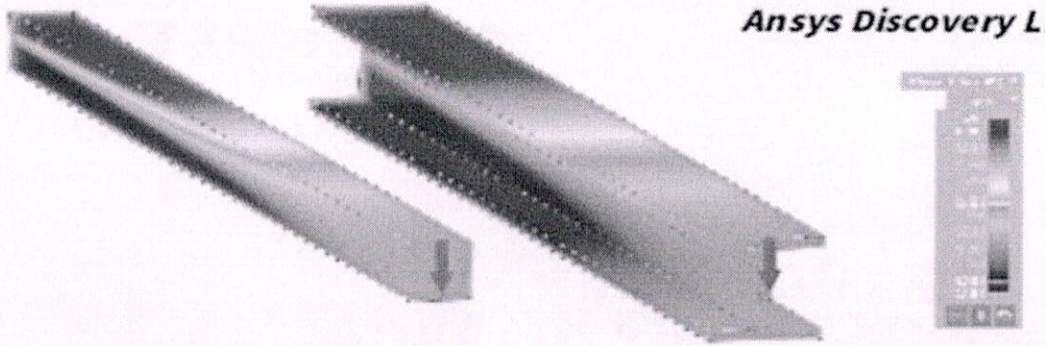
Finite Element Simulations

- Can estimate the deflection caused by certain load
- Map the stress within the geometry caused by this load

Provided the necessary material properties are given

Simulation of stress in beams (same area) for fixed material choice

Ansys Discovery Live



Opportunity: Using Granta EduPack to screen and select top material candidates in combination with Finite Element simulation to optimize geometry, engineers and designers can reduce the number of material candidates to consider in structural design.

Static analysis

- Analysis of a structure for various loads under static condition i.e. component under rest when loads are applied

Examples
Holding devices-Clamp or fixture analysis

Types
- Linear analysis
- Non linear analysis

Dynamic analysis

- Analysis of a structure for various loads under Dynamic condition i.e. component is in motion when loads are applied or time varying loads

Examples

Suspension systems of a vehicle

Types

Linear analysis

Non linear analysis

Structural analysis-Design consideration

- Change design
- Alternate material

Thermal analysis

- To determine the temperature distribution occurring in the model

Modes of heat transfer

Conduction

Convection

Radiation

FEM

- Nodes
- Elements

Types of elements

1D-Line element(Min 2 nodes)

2D-Plane element (Area-Min 4 node)

3D-Solid element (Volume-min 8 nodes)

EXAMPLES FOR FINITE ELEMENT

ONE DIMENSIONAL ELEMENTS :

- TRUSS ELEMENTS
- BAR, BEAM ELEMENTS

TWO DIMENSIONAL ELEMENTS :

- TRIANGULAR ELEMENTS
- RECTANGULAR ELEMENTS

THREE DIMENSIONAL ELEMENTS

- TETRAHEDRAL ELEMENTS
- HEXAHEDRAL ELEMENTS

Meshing-Importance & drawbacks

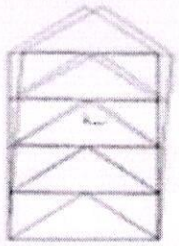
- Why should we mesh
- Element quality
- Problems associated with meshing

FEM/ANSYS

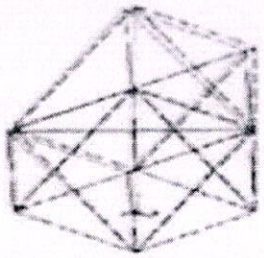
Section1:
Structural

By completing this section you will learn basic structural analysis using ANSYS.

- Truss Structure



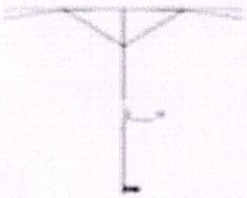
- Truss Structure



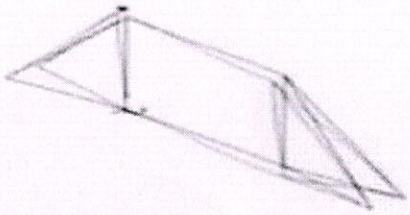
- 2D Bracket

- 3D Solid

- Beam Structure



- Beam Structure



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Certificate of Completion

This to certify that Mr/Ms. **M.VIJAYA KUMAR** Bearing the Roll Number **179Y5A0324** has Successfully Completed Value Added Course on "**COMPUTER AIDED ANALYSIS AND SIMULATION**" from **19/07/19 to 06/08/19,**
Organized by Department of Mechanical Engineering, KSRMCE, Kadapa.

COORDINATOR

HOD

V. S. S. Murty
PRINCIPAL

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This to certify that Mr/Ms. **B.KARIMULLA** Bearing the Roll Number **169Y1A0303** has Successfully Completed Value Added Course on "**COMPUTER AIDED ANALYSIS AND SIMULATION**" from **19/07/19 to 06/08/19**,

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This to certify that Mr/Ms. **S.LAKSHMI REDDY** Bearing the Roll Number **179Y5A0338** has Successfully Completed Value Added Course on **"COMPUTER AIDED ANALYSIS AND SIMULATION"** from **19/07/19 to 06/08/19**, Organized by Department of Mechanical Engineering, KSRMCE, Kadapa.

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DEPARTMENT OF MECHANICAL ENGINEERING

FEEDBACK of
Certification Course on
COMPUTER AIDED ANALYSIS AND SIMULATION
from 19th July 2019 to 6th August 2019

LIST OF PARTICIPANTS

S. No.	Roll No.	Name of the Student	Is the Course content meet your expectation	Is the lecture sequence well planned	Is the level of course high	Is the course exposed you to the new knowledge and practices	Rate the Knowledge of the Speaker	Rate the value of Course in increasing your skills	Any Issues
1	169Y1A0303	BEPARI KARIMULLA	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
2	169Y1A0304	BHADUR YASEEN AHMED	Good	Excellent	Satisfactory	Excellent	Excellent	Excellent	
3	169Y1A0305	BOMMISETTY CHOWDAIAH	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
4	169Y1A0306	B RAMA KRISHNA REDDY	Excellent	Satisfactory	Excellent	good	Excellent	good	
5	169Y1A0307	B JAGAN MOHAN REDDY	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
6	169Y1A0308	B PRASANNA KUMAR REDDY	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
7	169Y1A0309	BUTCHER KHALEELULLAH	Satisfactory	Excellent	Excellent	Excellent	good	Excellent	
8	169Y1A0310	C CHAMMIREDDY	Excellent	Excellent	Satisfactory	Excellent	Excellent	good	
9	169Y1A0312	DAMODAR ABDAS	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
10	169Y1A0315	G VISHNUVARDAN REDDY	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
11	169Y1A0316	GANDAM PRANAY KUMAR	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
12	169Y1A0317	GONDIPALLE NAVEEN	Excellent	Good	Excellent	Excellent	Excellent	Excellent	
13	169Y1A0318	GOPAVARAM RAKESH REDDY	Excellent	Excellent	Excellent	Excellent	good	Excellent	
14	169Y1A0319	K SUMANTH CHOWDARY	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
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18	169Y1A0323	KODURU SREEDHAR REDDY	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
19	169Y1A0324	K ANANTHA KRISHNA	Excellent	Excellent	Excellent	Satisfactory	Excellent	Excellent	
20	169Y1A0325	K VIJAYA VARDHAN REDDY	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	

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22	169Y1A0327	M SIVAPRASAD REDDY	Excellent	Satisfactory	Excellent	Excellent	Excellent	Excellent	
23	169Y1A0328	M V L N S KARTHIKEYA SHARMA	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
24	169Y1A0329	MANDLI TRILOKANATH	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
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27	169Y1A0345	PENUGONDA VENKATESH	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	
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70	179Y5A0338	SANGATI LAKSHMI REDDY	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	

COORDINATOR

HoD

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