ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Permanently Affiliated to JNTUK, Kakinada * Approved by AICTE, New Delhi * Accredited by NAAC
Recognized by UGC Under section 2(f) and 12 (B) of UGC Act 1956
ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

Department of Mechanical Engineering

Date: 18.01.2021.

To
The principal
Aditye College of Engineering & Technology
Surampalem

Respected sir,

[Through Head of the Department]

Sub: Request for your approval to organize a certification course on "Design and Simulation using Ansys Workbench" – reg.

It's our greatest pleasure to bring to your kind notice that, we the Department of Mechanical Engineering would like to train our 3r^{d}year B.Tech students in the **Design and Simulation using Ansys Workbench** adapted initially, with the help of our staff; as the present world is moving over the software design & simulations and also is a part of the Mechanical Engineering. It will be more helpful to the students in theoretical and technical point of view. In this regard we are requesting your permission for further proceedings.

Resource Person	:	Mr. Y V S Yeswanth
		Assistant Professor
		N E C
Honorarium	:	Rs. 10000/-

Forwarded to Principal.
18/01/21

Pramod kumar
Course Coordinator

PRINCIPAL
Aditya College of
Engineering & Technology
SURAMPALEM- 533

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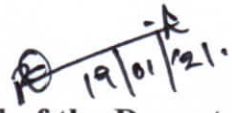ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

Department of Mechanical Engineering

Date: 19.01.2021.

CIRCULAR

All the 3rd year students are here by informed that a ten days program is arranged to enhance the knowledge on **Design and Simulation using Ansys Workbench,** as per the schedule from 01st February, 2021. All interested students can attend the program and utilize the opportunity. The schedule is attached.

Course Coordinator: Dr. Pramod Kumar
+917903406446

Head of the Department

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Department of Mechanical Engineering

Design and Simulation using Ansys Workbench Syllabus

1. Introduction to ANSYS workbench
2. Geometry design in workbench
3. Meshing methods
4. Post processing Techniques
5. Heat transfer problems
6. Fluid flow problems
7. Fluent problems practicing
8. Conjugate heat transfer through pipes

Course Coordinator

19|..|'21.

Head of the Department

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Department of Mechanical Engineering

Schedule of Design and Simulation using Ansys Workbench Syllabus:

Day-1:

FN   Inauguration of the Program and speakers talk about the objectives of the event

AN   Introduction to Ansys workbench interface

Day-2:

FN   Design using design modeler in workbench

AN   Practice on Design using design modeler in workbench

Day-3:

FN   Meshing techniques & methods implementation

AN   Heat transfer problem under steady state

Day-4:

FN   Transient heat transfer problems

AN   Laminar flow problems in Fluent

Day-5:

FN   Turbulent flow problems in Fluent

AN   Combined fluid flow and thermal problem in Fluent

Day-6:

FN   Static structural analysis on Cantilever beam

AN   Transient structural analysis on Cantilever beam and comparison of results

Day-7:

FN   Fluid flow problem using Ansys workbench

AN   Conjugate heat transfer problem using Ansys workbench.

Day-8:

FN   Radiation problem in steady state thermal

AN   Radiation between the two surfaces in steady state thermal

Day-9:

FN   Fluent practice for mixed flow through pipes

AN   Flow through nozzles

Day-10:

FN   Practice session & doubts clarification.

AN   Valedictory

Course Coordinator

Head of the Department

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