
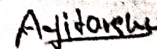
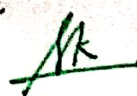


Course																					
Course -Ansys																					
Course Code																					
Duration 60 hrs																					
S.NO.	Name of Student	Student ID	COURSE	Year	February 2020								March 2020								
					3	4	5	6	7	10	12	13	14	18	19	25	27	2	3	5	6
1	AAZAD KHAN	1850309022	B.TECH.	19-20	P	P	P	P	P	A	P	P	P	P	P	P	A	A	P	P	P
2	ABDUL QUADIR	1710309024	B.TECH.	19-20	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P
3	ABDUL WAHID	1850309008	B.TECH.	19-20	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P
4	ADITYA GUPTA	1710309002	B.TECH.	19-20	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P
5	AKSHAY KUMAR YADAV	1710309027	B.TECH.	19-20	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
6	AMIT KUMAR SAXENA	1850309020	B.TECH.	19-20	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
7	ANKUSH KUMAR	1710309001	B.TECH.	19-20	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	A	P
8	ATIF ALAM	1710309021	B.TECH.	19-20	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A
9	HARSHIT UPADHYAY	1710309006	B.TECH.	19-20	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P
10	JAGTAR SINGH	1710309009	B.TECH.	19-20	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P
11	JITENDRA	1850309019	B.TECH.	19-20	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P
12	KARAN SABHARWAL	1850309003	B.TECH.	19-20	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P
13	MOHAMMAD ASIF	1850309021	B.TECH.	19-20	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A
14	MOHD MANZAR ABBAS JAFRI	1710309005	B.TECH.	19-20	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P
15	MOHD MOHSIN	1850309004	B.TECH.	19-20	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	A	P
16	MOHD MUKEES	1850309006	B.TECH.	19-20	P	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P
17	MOHD MUSHEER	1850309012	B.TECH.	19-20	P	A	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P
18	MOHD NAVED	1850309005	B.TECH.	19-20	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	A	P
19	MOHD SHADAN	1850309009	B.TECH.	19-20	P	A	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
20	MOHD SHIMAIL	1850309014	B.TECH.	19-20	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P
21	MOHD WAMIQ	1850309016	B.TECH.	19-20	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
22	MOHIT TIWARI	1710304008	B.TECH.	19-20	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	A
23	MORDHUJ	1710309004	B.TECH.	19-20	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P
24	NIKHIL SRIVASTAVA	1710309018	B.TECH.	19-20	P	P	A	P	P	P	A	P	P	P	P	A	P	P	P	P	A
25	PRAKHAR KUMAR	1850309013	B.TECH.	19-20	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A
26	PRASHANT SINGH BHANDARI	1710309020	B.TECH.	19-20	P	P	P	A	P	P	P	A	P	P	P	P	P	P	A	P	A
27	RAMKRISHNA SHARMA	1710309011	B.TECH.	19-20	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
28	RAVINDRA GAUTAM	1850309001	B.TECH.	19-20	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
29	RUMAN MALIK	1850309017	B.TECH.	19-20	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P


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Ansys Syllabus

Objective


The entire objective of the 60 hrs this program is to develop the basics of the students designing and analysis


Course outcomes

- Carry out the basic end-to-end static structural analysis process in Ansys Mechanical.
- Describe several of the considerations that are important in the planning of a useful and appropriate analysis model.
- Demonstrate a basic understanding of viewing control, entity selection, geometry import, material property definition and assignment, coordinate systems, mesh control, contact regions, simple loads, supports and results display.
- Appreciate the importance of model validation and several common techniques that may be used to achieve it.

Introduction to FEA and Ansys

- Introduction to FEA
- General working of FEA
- Nodes, element and elements shapes
- General procedure of conducting finite element analysis
- FEA through ansys
- Effective utilization of FEA
- FEA software
- Advantages and limitations of FEA software
- Key assumptions in FEA
- Assumptions related to geometry
- Assumptions related to materials properties
- Assumptions related to boundary conditions
- Assumptions related to fasteners
- Types of analysis
- Structure analysis
- Thermal analysis
- Fluid flow analysis
- Electromagnetic field analysis
- Coupled field analysis
- Important term and definitions


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- Strength
- Load
- Stress
- Strain
- Elastic limit
- Ultimate strength
- Factor of safety
- Lateral strain and Poisson's ratio
- Bulk modulus
- Creep
- Engineering materials
- Introduction to ANSYS
- System requirement
- Getting started with ANSYS
- Interactive mode
- Launcher window
- Command window icon
- Raise hidden icon
- Reset picking
- Contact manager


Basic solid modeling

- Solid modeling in ANSYS
- Solid modeling and direct generation
- Solid modeling method
- Bottom up construction
- Consideration before creating a model for analysis
- Details required
- Symmetry
- Creating geometric entities

Thermal analysis

- Important terms used in thermal analysis
- Heat transfer mode
- Thermal gradient
- Thermal flux
- Bulk temperature
- Film coefficient


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- Emissivity
- Thermal conductivity
- Specific heat
- Types of thermal analysis
- Steady state thermal analysis
- Solving the analysis problems


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VALUE ADDED COURSE
(Ansys for Mechanical Engineering)

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Program:-B. TECH.



03:00 PM TO 05:00 PM



1 Sept 2019 - 30 Oct
2019

HOD:

MR. Ajitanshu Vaidya
Invertis University
Bareilly-243123, UP

Faculty of Engineering & Technology

Invertis University
Bareilly-243123, UP

KEY SPEAKER Registrar
Mrs. Ritu Gupta
Invertis University
Bareilly

*VALUE ADDED COURSE (Autocad Mechanical Engineering).



PROGRAM OVERVIEW:

The objective of this course is to make the students aware and to learn how Ansys software really works. They have got the opportunity to gain and developed their technical skills by the learning of Ansys and its various features and commands.

Atthor
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Bareilly

Department of Mechanical Engineering

25 January 2019

CIRCULAR

VALUE ADDED COURSE (Ansys in Mechanical Engineering) - B.Tech. ME

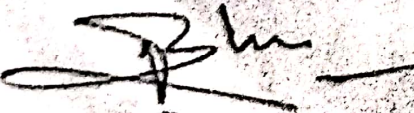
Students of B. Tech. (ME) all years are hereby informed that value added course "Ansys in Mechanical Engineering" is scheduled from 1 February 2020 in your respective classroom, Academic Block-II.

Schedule:


- Time Slot: 03:00 PM to 05:00 PM
- Duration: 2 hrs

Program Overview:


The objective of the program is to introduce the basic concept of Ansys and its applications, challenges and its importance to enable the students how to approach for solving the engineering problems using Auto cad simulation.


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Mr. Ajitanshu
Head of Mechanical Engineering
Faculty of Engineering & Technology
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Bareilly-243123, UP

VALUE ADDED COURSE				
Course name	Ansys			
Course code				
Duration	60 Hrs			
S.No.	Student Roll No.	Student name	Year	Program
1	1850309022	AAZAD KHAN	2019-20	B.Tech.
2	1710309024	ABDUL QUADIR	2019-20	B.Tech.
3	1850309008	ABDUL WAHID	2019-20	B.Tech.
4	1710309002	ADITYA GUPTA	2019-20	B.Tech.
5	1710309027	AKSHAY KUMAR YADAV	2019-20	B.Tech.
6	1850309020	AMIT KUMAR SAXENA	2019-20	B.Tech.
7	1710309001	ANKUSH KUMAR	2019-20	B.Tech.
8	1710309021	ATIF ALAM	2019-20	B.Tech.
9	1710309006	HARSHIT UPADHYAY	2019-20	B.Tech.
10	1710309009	JAGTAR SINGH	2019-20	B.Tech.
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14	1710309005	MOHD MANZAR ABBAS JAFRI	2019-20	B.Tech.
15	1850309004	MOHD MOHSIN	2019-20	B.Tech.
16	1850309006	MOHD MUKEES	2019-20	B.Tech.
17	1850309012	MOHD MUSHEER	2019-20	B.Tech.
18	1850309005	MOHD NAVED	2019-20	B.Tech.
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20	1850309014	MOHD SHIMAIL	2019-20	B.Tech.
21	1850309016	MOHD WAMIQ	2019-20	B.Tech.
22	1710304008	MOHIT TIWARI	2019-20	B.Tech.
23	1710309004	MORDHUJ	2019-20	B.Tech.
24	1710309018	NIKHIL SRIVASTAVA	2019-20	B.Tech.
25	1850309013	PRAKHAR KUMAR	2019-20	B.Tech.
26	1710309020	PRASHANT SINGH BHANDARI	2019-20	B.Tech.
27	1710309011	RAMKRISHNA SHARMA	2019-20	B.Tech.
28	1850309001	RAVINDRA GAUTAM	2019-20	B.Tech.
29	1850309017	RUMAN MALIK	2019-20	B.Tech.


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