



C. A. Y. M. E. Trust's

**SIDDHANT COLLEGE OF ENGINEERING.**

(Approved by AICTE, Recognized by Govt. of Maharashtra and Affiliated to S.P. Pune University & MSBTE)

At. Post - Sudumbare, Tal. - Maval, Dist. - Pune, PIN - 412 109. ☎ 02114-661904.

Website: - [www.siddhantcoe.edu.in](http://www.siddhantcoe.edu.in)

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In today's globalized era, development of appropriate and effective Skill sets is the basic necessity for sound employment and can even lead to entrepreneurship. Indeed, it is the need of the hour for the economic development of 21st Century India and Industry 4.0. Today, everyone must be imparted vocational education as a part of the curriculum. Education is the proper tool through which skill development is possible. It can make the all-round development of the individual. Vocational classes should be imparted as a part of the curriculum. By doing so, the cost of skill development can be reduced.

Mechanical Engineering Department has always been at front to propagate the skill set and to run and implement appropriate training sessions for its students, teaching and non-teaching staff.

With this demanding need of hour and accomplishing motive, the Mechanical Engineering Department of Siddhant College of Engineering has formed the 'कौशल्य विकास सेल' [Skill Development Unit].

**Objectives of Skill Development Unit.**

1. To provide the effective platform to inculcate and sharpen their engineering software and /or real time skills.
2. To comprehend the notion of developing and modifying an engineering product design & development.
3. To provide an opportunity to learn various aspects of entrepreneurship through real life exposure.

The directive and monitoring council has been formed for this unit. The roles & responsibilities have also been defined.

Sr. No.	Name of Person and designation.	Roles / Responsibilities.
01.	Dr. R. A. Khandagale. <i>Principal SCOE.</i>	Chief Director.
02.	Dr. P. A. Makasare. <i>HOD Mechanical Engg. Dept.</i>	Program Head-Engineering.
03.	Prof. Nanda Kulkarni. <i>In charge; Siddhant Polytechnic.</i>	Program Head-Polytechnic.

कौशल्य विकास सेल' [Skill Development Unit]. योग कर्मसु कौशलम् .....

Sr. No.	Name of Person and designation.	Roles / Responsibilities.
04.	Prof. R. R. Kulkarni. Assistant Professor. [M E D Engg.]	Subject Expert.
05.	Prof. B. B. Kedar. Assistant Professor. [M E D Engg.]	Subject Expert.
06.	Prof. Sagar Upendra Deshpande Assistant Professor. [M E D Engg. 9890714842]	Program Coordinator.

This council will monitor and direct the effective and smooth running of the programs conducted under the banner of this unit.

*Khandagale*  
29/4/22

Dr. R. L. Khandagale

Principal.

Siddhant College of Engineering.

Principal

Siddhant College of Engineering  
Sudumbare, Pune - 412 109



Dr.


कौशल्य विकास सेल' [Skill Development Unit].

योग कर्मसु कौशलम .....

Date: 21<sup>st</sup> March 2022.

To,  
The Principal,  
Siddhant College of Engineering,  
Sudumbare; Pune.

Through: Head; Mechanical Engineering Department.

  
22.3.22

Subject: Starting a batch for CAE Course at Mechanical Engineering Department.

Respected sir,

As mentioned in above cited subject, CAE along with CAD has become an important skillset in demand for the mechanical engineer and thus I am willing to start a CAE course batch for our students at CAD lab of the Mechanical Engineering Department. The students of T E Mechanical and Third year Diploma will be the participant for this course and being pilot project we will limit the entries to the count of 10.

This course will have 36 hours duration and CAD & CAE aspects will be covered with real-time hands-on practical sessions for the students. I have attached the entire break up of this content.

The *Ansys Student version* is the software which will be utilized for the course and practical projects will be analyzed by the participants. A certificate of completion will also be issued to the students.

I am very much sure that this course will prove beneficial to the students as they will be more competent and skill acquired engineer to suit for the industrial career, thus I am requesting you kindly give your nod to this endeavor.

Thanking you.

Sincerely,



Mr. Sagar Upendra Deshpande.  
Course Coordinator.  
Mechanical Engineering Dept.

permitted to take  
course on Ansys software  
for students of mech degree & diploma  
Khandogde  
25/3/2022



CAYMET's  
**Siddhant College of Engineering**  
**Mechanical Engineering Department.**

Day.	Contents.	Time in Hours.
01	Introduction; Significance of CAE & CAD in Mechanical Engineering.	1.5
02	Ansys Design Modeller of Ansys & its Graphic User Interface.	1.5
03	Study of Planes.- Creation of Primary & Auxiliary plane	1.5
04	Creating 2 dimensional Geometries 1. Basic Shapes. [With practical hands-on Assignments.]	1
	Creating 2 dimensional Geometries 2. Line from Sketch, Face Split. [With practical hands-on Assignments.]	1.5
05	Creating 3 dimensional Geometries 1. Basic Shapes & Primitives. Chamfer, Blend and other minor operations.	1.5
06	Creating 3 dimensional Geometries 2. Extrude, Revolve Sweep Skin Loft. [With practical hands-on Assignments.]	1.5
07	Editing 3 dimensional Geometries 1. Body Transformation. [With practical hands-on Assignments.]	1
08	Editing 3 dimensional Geometries 2. Body Transformation. [With practical hands-on Assignments.]	1
09	Meshing. – 1. Philosophy of Meshing.	1.5
10	Meshing. – 2. Elements and its sizes. [With practical hands-on Assignments.]	1
11	Meshing. – 3. Types of Meshing available in Ansys. [With practical hands-on Assignments.]	1.5
12	Introduction to Ansys Static Structural Analysis. I	1.5
13	Types of Supports and Loadings in Static Structural Analysis. II	1.5
14	Practical hands-on Assignments 3. Simply Supported Beam.	1.5
15	Practical hands-on Assignments 4. Shear Force & Bending Moment Diagram of Simply Supported & Cantilever beam.	1.5
16	Practical hands-on Assignments 5. Disc Brake & Shaft. Material Assignment for Components.	1.5
17	Practical hands-on Assignments 6. Circumferential Stress in Cylinder.  Grid independence Study.	1.5
18	Introduction to Ansys Steady State Thermal Analysis. I	1
19	Practical hands-on Assignments 2. Composite Wall.	1.5
20	Practical hands-on Assignments 3. Composite Cylinder.	1.5

Sr. No.	Content.	Time in Hours.
21	Practical hands-on Assignments 3. Composite Sphere.	1.5
22	Introduction to Thermo-Static Structural Analysis. I	1.5
23	Practical hands-on Assignments 2. Disc Brake with Heat generation.	1.5
24	Practical hands-on Assignments 3. Coil Radiation.	1
25	Introduction to Computational Fluid Dynamics. I	1.5
26	Introduction to Computational Fluid Dynamics. II	1



Mr. Sagar Upendra Deshpande.  
Course Coordinator.



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C A E Session Attendance.

Sr. No.	Name of the Student	15/10/22	20/10/22	30/10/22	4/11/22	5/11/22	6/11/22	7/11/22	8/11/22	9/11/22	10/11/22
1	AKSHAY RAMLING MANE	<del>Present</del>	—	Present	—	Absent	—	Present	Present	Absent	Present
2	ABHISHEK KOMAR YADAV	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
3	SAHIL SANDEEP PATIL	Absent	Absent	—	—	—	—	Present	Present	Present	Present
4	Manish Umesh Mougga	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	Avinash H. Satale	<del>Present</del>	<del>Present</del>	<del>Present</del>	—	<del>Present</del>	—	<del>Present</del>	Present	Present	Present
6	Aadav B. Gade	—	—	Gade	—	—	—	—	—	—	—

Sr. No.	Name of the Student	19/11/22	02/12/22	02/12/22	04/12/22	04/12/22	05/12/22	05/12/22	06/12/22	06/12/22	10
1	AKSHAY RAMLING MANE	Present	Present	Present	Present	Present	Present	Present	Present	Present	6.
2	ABHISHEK YADAV	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	
3	SAHIL PATIL	—	Present	Present	Present	Present	Present	Present	Present	Present	
4	MANISH MOURYA	Present	Present	Present	Present	Present	Present	Present	Present	Present	
5	AVINASH SATALE	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	<del>Present</del>	
6	ADESH GADU	Gade	—	—	—	—	—	—	—	—	

Coordinator.

Mr. Sagar Upendra Deshpande

Head.

Dr. P. A. Makasare



	Name	Mobile	E-mail
1	ABHISHEK KUMAR YADAV	9532350173	20abhishek07@gmail.com
2	AKSHAY Ramling Mane	9370856744	akkimane2001@gmail.com
3	PATIL SANKET SANDEEP	7219648855	sanketSPatil654@g.c
4	Avinash Harishcha -ndra Satale	9284910940	avinash satale 7383 @gmail.com.
5	Manish Umesh Mounya	8010818572	manishmounya3612 @gmail.com.