



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)

E-mail:engineeringprincipal@gmail.com

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 कौशलम .....

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.

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*Khandagale*  
29/04/22

Dr. R. L. Khandagale

Principal.

Siddhant College of Engineering.

Principal

Siddhant College of Engineering  
Sudumbare, Pune - 412109



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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.

*S*  
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,

*[Signature]*

Mr. Sagar Upendra Deshpande.

Course Coordinator.

Mechanical Engineering Dept.

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

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

<b>Day.</b>	<b>Contents.</b>	<b>Time in Hours.</b>
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	1/09/2022	2/09/2022	3/09/2022	4/09/2022	5/09/2022	6/09/2022	7/09/2022	8/09/2022	9/09/2022	10/09/2022
1	AKSHAY RAMLING MANE	Present									
2	ABHISHEK KUMAR YADAV	Present									
3	SANKET SANDEEP PATIL	Present									
4	Manish Umesh Mawga	Present									
5	Avinash H. Satale	Present									
6	ADESH B. Gaik	Present									

Sr. No.	Name of the Student	19/09/2022	01/10/2022	02/10/2022	03/10/2022	04/10/2022	05/10/2022	06/10/2022	07/10/2022	08/10/2022	09/10/2022
1	AKSHAY RAMLING MANE	Present									
2	ABHISHEK YADAV	Present									
3	SANKET PATIL	Present									
4	MANISH MOURYA	Present									
5	AVINASH SATALE	Present									
6	ADESH Gaik	Present									

Coordinator.

Mr. Sagar Upendra Deshpande

Head.

Dr. P.A. Makasare

Name	Mobile	E-mail
① ABHISHEK KUMAR YADAV	9532350173	20abhishek07@gmail.com
② AKSHAY Romil Mehta	9370856744	akshayme2001@gmail.com
③ PATIL SANKET SANDEEP	7219648855	sanketsPatil654@gmail.com
④ Avinash Harishcha ndra Satale	9284910940	avinash.satale.7383 @gmail.com.
⑤ Manish Umesh Mawya	8010818572	manishmawya3612 @gmail.com.



CAYM Education Trust's

# SIDDHANT COLLEGE OF ENGINEERING.

Approved by AICTE, New Delhi, and Affiliated Savitribai Phule Pune University.

## 'कौशल्य विकास सेल'

CERTIFICATE

This is to certify that Mr. **Sanket Patil** has successfully completed the course on '**Fundamentals of C. A. E. with ANSYS 2022**' [Student Version.], from 23<sup>rd</sup> March to 11<sup>th</sup> of May 2022 at Mechanical engineering Department and कौशल्य विकास सेल of Siddhant College of Engineering.

We wish him good fortune in the professional endeavor.

**Prof. S. U. Deshpande**  
Course Coordinator.

**Dr. P. A. Makasare**  
H O D

**Dr. R. L. Khandagale**  
Principal.

**Mr. R. S. Yadav**  
President, SGI



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## 'कौशल्य विकास सेल'

CERTIFICATE

This is to certify that Mr. **Abhishek Kumar Yadav** has successfully completed the course on '**Fundamentals of C. A. E. with ANSYS 2022**' [Student Version.], from **23<sup>rd</sup> March** to **11<sup>th</sup> of May 2022** at Mechanical engineering Department and कौशल्य विकास सेल of Siddhant College of Engineering.

We wish him good fortune in the professional endeavor.

**Prof. S. U. Deshpande**  
Course Coordinator.

**Dr. P. A. Makasare**  
H O D

**Dr. R. L. Khandagale**  
Principal.

**Mr. R. S. Yadav**  
President, SGI



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## 'कौशल्य विकास सेल'

### CERTIFICATE

This is to certify that Mr. **Akshay Mane** has successfully completed the course on '**Fundamentals of C. A. E. with ANSYS 2022**' [Student Version.], from 23<sup>rd</sup> March to 11<sup>th</sup> of May 2022 at Mechanical engineering Department and कौशल्य विकास सेल of Siddhant College of Engineering.

We wish him good fortune in the professional endeavor.

**Prof. S. U. Deshpande**  
**Course Coordinator.**

**Dr. P. A. Makasare**  
**H O D**

**Dr. R. L. Khandagale**  
**Principal.**

**Mr. R. S. Yadav**  
**President, SGI**



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**'कौशल्य विकास सेल'**

**CERTIFICATE**

This is to certify that Mr. **Avinash Satale** has successfully completed the course on '**Fundamentals of C. A. E. with ANSYS 2022**' [Student Version.], from **23<sup>rd</sup> March** to **11<sup>th</sup> of May 2022** at Mechanical engineering Department and कौशल्य विकास सेल of Siddhant College of Engineering.

We wish him good fortune in the professional endeavor.

**Prof. S. U. Deshpande**  
**Course Coordinator.**

**Dr. P. A. Makasare**  
**H O D**

**Dr. R. L. Khandagale**  
**Principal.**

**Mr. R. S. Yadav**  
**President, SGI**



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**‘कौशल्य विकास सेल’**

**CERTIFICATE**

This is to certify that Mr. **Manish Mourya** has successfully completed the course on '**Fundamentals of C. A. E. with ANSYS 2022**' [Student Version.], from **23<sup>rd</sup> March** to **11<sup>th</sup> of May 2022** at Mechanical engineering Department and **कौशल्य विकास सेल** of Siddhant College of Engineering.

We wish him good fortune in the professional endeavor.

**Prof. S. U. Deshpande**  
Course Coordinator.

**Dr. P. A. Makasare**  
H O D

**Dr. R. L. Khandagale**  
Principal.

  
**Mr. R. S. Yadav**  
President, SGI