



# **COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA**

**Accredited By NAAC With 'A' Grade  
(CGPA 3.27)**



# **CRITERIA 1**

## **1.3.2 Number of Students**

### **Undertaking Projects**





Shri Shivaji Education Society, Amravati's

# COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA



Founder President : Late Dr. Panjabrao alias Bhausaheb Deshmukh

At. Post. Babhulgaon (Jh.) NH.6, Tal. Dist. AKOLA (M.S.) 444 104 Phone : 0724 - 2259024, 7387523332

President : Shri. Harshvardhan P. Deshmukh

Principal : Dr. S. K. Deshmukh

Date: 04/05/2023

## Declaration

This is to declare that the information, reports, true copies and numerical data etc

Furnished in this file as supporting documents is verified by IQAC and found correct.

Dr. S. K. Patil

IQAC Coordinator

Dr. S. K. Patil

IQAC Coordinator

College of Engineering and Technology  
Akola

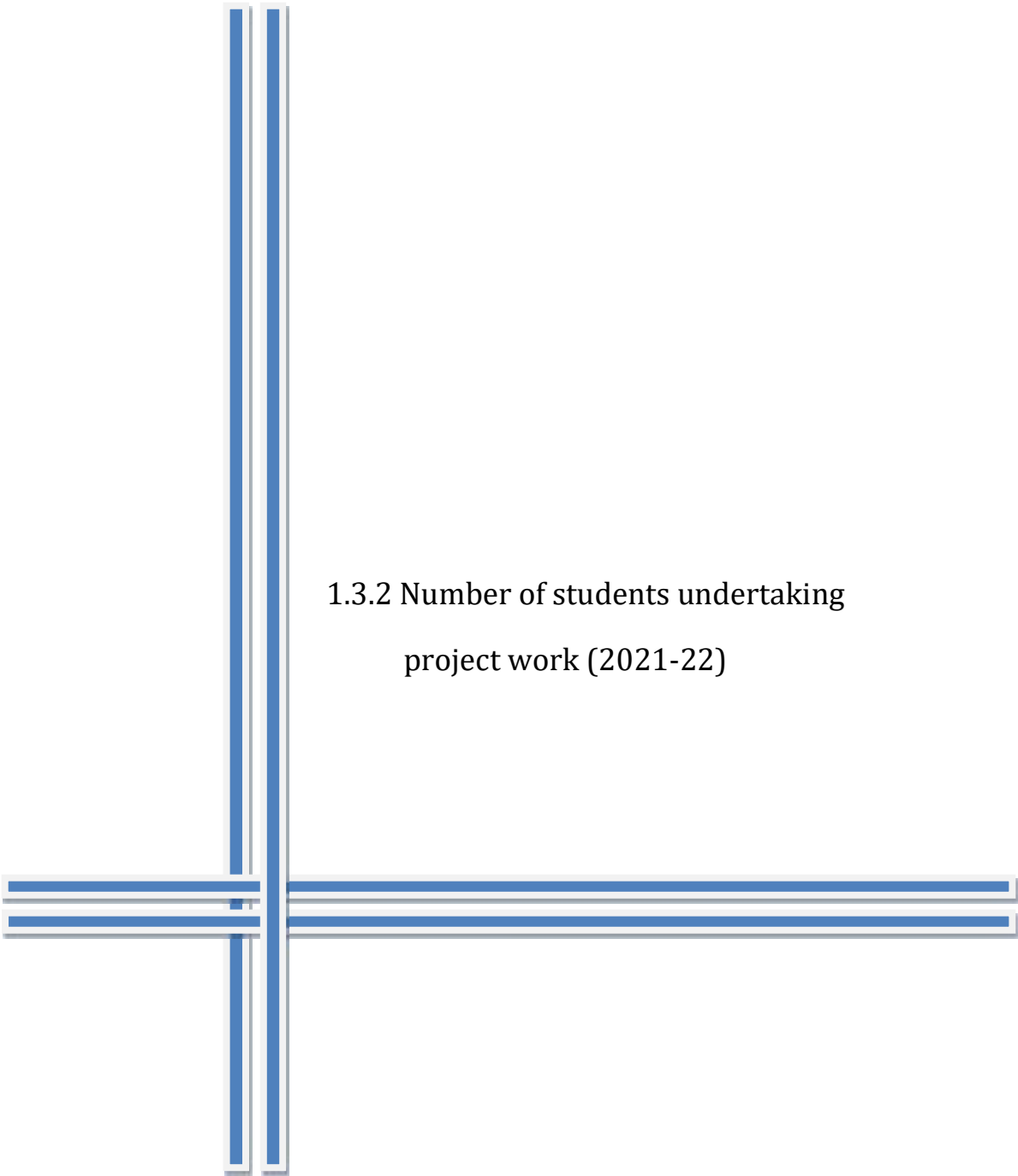


Dr. S. K. Deshmukh

Principal

**Principal**  
**College of Engg.**  
**& Tech., Akola**



A decorative graphic consisting of a vertical and a horizontal line, each made of three parallel blue lines with a light gray shadow, intersecting at the center of the page.

### 1.3.2 Number of students undertaking project work (2021-22)



Shri Shivaji Education Society Amravati's

**COLLEGE OF ENGINEERING AND TECHNOLOGY  
AKOLA**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**



This is to certify that the Project entitled "**Study and Design of Infrared Ray Grain Dryer**", which is being submitted herewith for the award of degree of **BACHELOR OF ENGINEERING**, is the

result of the work completed by our project group members under my supervision and guidance within the four walls of the institute and the same has not been submitted elsewhere for the award of any degree.

*Session - 2021-2022*

**PROJECT GROUP MEMBERS**

**Mr. Anand Shelokar**

**Mr. Durvij Muley**

**Mr. Uday Rangbhal**

**Mr. Ashwin Girhepunje**

**Mr. Yadhanesh Mahalle**

**Mr. Abhishek Nawasthale**

**Mr. Prathamesh Gole**

**Mr. Vikas Aghao**



*[Signature]*  
Prof. Dr. S.K. Patil

Guide

*[Signature]*  
Prof. S.C. Makwana

Head of Department

**HEAD**

**DEPARTMENT OF  
MECHANICAL ENGINEERING  
C. O. E. T., AKOLA**

*[Signature]*  
Prof. S. S. Paraskar

I/C Project & Seminar



Shri Shivaji Education Society Amravati's  
**COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**2021-2022**

**CERTIFICATE**



*This is to certify that the Project entitled, "IoT BASED SMART PARKING SYSTEM", which is being submitted here with for the award of degree of **BACHELOR OF MECHANICAL ENGINEERING**, is the result of the work completed by our project group members under my supervision and guidance within four walls of the institute and the same has not been submitted elsewhere for the award of any degree.*

**PROJECT GROUP MEMBERS**

**Mr. RITESH V. UMALE**

**Mr. SANKET G. DESHMUKH**

**Mr. KAPIL H. NAGE**

**Mr. DATTARAJ R. KOLHE**


**Mr. MAYUR G. BHAKARE**

**Mr. FURQAN F. ALTAMASH**

**Mr. VISHAL M. KARE**

**Mr. ATEEB A. KHAN**

**Mr. RUSHIKESH V. CHATARKAR**

  
**Prof. S. S. Pataskar**  
I/C Project & Seminar  
Dept. of Mechanical Engg.



  
**Prof. S. C. Makwana**  
Guide & Head  
Dept. of Mechanical Engg.  
**HEAD**  
**DEPARTMENT OF**  
**MECHANICAL ENGINEERING**  
**C. O. E. T., AKOLA**



**COLLEGE OF ENGINEERING AND TECHNOLOGY  
AKOLA**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**



This is to certify that the Project entitled  
"STUDY ON EXHAUST MUFFLER OF IC ENGINE.", which is being submitted here  
with for the award of degree of **BACHELOR OF ENGINEERING**., is the result of the  
work completed by our project group members under my supervision and guidance within  
the four walls of the institute and the same has not been submitted elsewhere for the award  
of any degree.

**PROJECT GROUP MEMBERS**

**Mr. Abhijeet Betwal**

**Mr. Abhishek Ghatole**

**Mr. Ishan Agrawal**

**Mr. Shreyas Mankar**

**Mr. Shrikant Khanderao**

**Mr. Sidhhant Chourpagar**

**Ms. Aishwarya Talekar**

**Ms. Ekta Kurhade**

**Ms. Kirti Daberao**

  
Prof. S.S. Paraskar  
Guide & I/C Project & Seminar



  
Prof. S.C. Makwana  
Head of Department  
**HEAD**  
**DEPARTMENT OF**  
**MECHANICAL ENGINEERING**  
**C. O. E. T., AKOLA**



Shri. Shivaji Education Society Amravati.

**COLLEGE OF ENGINEERING & TECHNOLOGY  
AKOLA.**

**CERTIFICATE**



This is to certify that the project report entitled.


**"DESIGN AND FABRICATON OF SOLAR OPERATED SOYABEAN CUTTER"** which is being submitted here with for the award of degree of **"BACHELOR OF ENGINEERING"** is the result of the work completed by group member under my supervision and guidance within the four walls of the institutes and the same has not been submitted elsewhere for the award of any degree.


Mr. Kamlesh Devda

Mr. Shantanu Thorat

Mr. Shrikant Jamnik

Mr. Pankaj Gaikwad

  
PROF. S. P. DHOKANE  
Guide

  
PROF. S. S. PARASKAR  
I/C Project & Seminar

  
PROF. S. C. MAKWANA  
Head of Department

**HEAD  
DEPARTMENT OF  
MECHANICAL ENGINEERING  
C. O. E. T., AKOLA**





Shri. Shivaji Education Society Amravati's  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**AKOLA**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE**



This is to certify that the project entitled, **"IOT CONTROLLED PICK & PLACE ROBOTIC ARM"**, is being submitted herewith for the award of the degree of **BACHELOR OF MECHANICAL ENGINEERING**, is the result of work completed under my supervision and guidance.

By

**Mr. Rahul Ingle**

**Mr. Premkishor Chandak**

**Mr. Ganesh Ghuge**

**Mr. Dhiraj Ghoare**

**Mr. Rushikesh Thorat**

**Mr. Karan Upadhayay**

**Mr. Mayur Khumkara**

**Mr. Avinash Wankhade**

**Mr. Akash Bahadure**



**Prof. S. R. Thakare**

Guide

Dept. of Mechanical Engg.

**Prof. Dr. S. K. Deshmukh**

Principal, COET, Akola

**Prof. S.S.Paraskar**

I/C Project & Seminar

Dept. of Mechanical Engg.

**Prof. S. C. Makwana**

HOD

Dept. of Mechanical Engg.

**HEAD**  
**DEPARTMENT OF**  
**MECHANICAL ENGINEERING**  
**C. O. E. T., AKOLA**



Shri Shivaji Education Society Amravati's  
**COLLEGE OF ENGINEERING AND TECHNOLOGY,  
AKOLA**  
**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the Project entitled, **"DESIGN & FABRICATION OF SPACE SAVING FOLDABLE ELECTRIC CAR"**, which is being submitted herewith for the award of degree of **BACHELOR OF ENGINEERING.**, is the result of the work completed by under my supervision and guidance within the four walls of the institute and the same has not been submitted elsewhere for the award of any degree.

**Mr. ANKIT B. SADANSHIV**  
**Mr. PRAJWAL N. KATHALE**  
**Mr. HIMMAT R. GARODEKAR**  
**Mr. BHUSHAN G. DANDALE**

**Mr. SHUBHAM A. INGOLE**  
**Mr. NIKHIL S. TELGOTE**  
**Mr. PRANAY A. ATAMBAR**

  
**Prof. M. R. Pundkar**

Guide

  
**Prof. S. S. Paraskar**

U/C Project & Seminar

  
**Prof. S. C. Makwana**

Head of Department  
**HEAD**

**DEPARTMENT OF  
MECHANICAL ENGINEERING  
C. O. E. T., AKOLA**





# Certificate

*This is to certify that the project entitled*

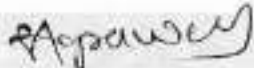
## **"IoT Based Smart Home Automation"**

*is a bonafide work and it is submitted to the Sant Gadge Baba  
Amravati University, Amravati*

**By:**

*Mr. Shaikh Aejaaz    Mr. Habib Rassiwala    Mr. Kunal Agrawal*

*in the partial fulfillment of the requirement for the degree of  
**Bachelor of Engineering in Computer Science & Engineering.**  
during the academic year 2021-22 under my guidance.*

  
**Dr. S. S. Agrawal**  
Guide,  
Dept. of C.S.E.



  
**Dr S. L. Satarkar**  
Head,  
Dept of C.S.E.

**Department of Computer Science & Engineering  
College of Engineering & Technology,  
Akola.**



# Certificate

*This is to certify that the project entitled*

## **“Cotton Plant Disease Prediction & Get Cure Web-App”**

*is a bonafide work and it is submitted to the Sant Gadge Baba Amravati  
University, Amravati*

**By:**

Miss. Vaishnavi G. Kaple      Miss. Payal S. Thorat  
Miss. Mayuri A. Dandale      Miss. Rakhi S. Deshmukh  
Mr. Roshan S. Dhokane

*in the partial fulfillment of the requirement for the degree of Bachelor of  
Engineering in Computer Science & Engineering, during the academic  
year 2021-22 under my guidance.*

*6/6/22*  
**Prof. K. S. Gilda**

Guide,  
Dept. of C.S.E.



*[Signature]*  
**Dr. S. L. Satarkar**

Head,  
Dept. of C.S.E.

**Department of Computer Science & Engineering  
College of Engineering & Technology,  
Akola.**



# Certificate

*This is to certify that the project entitled*

**“Arduino based Fire Detection Alarm System with GSM”**

*is a bonafide work and it is submitted to the Sant Gadge Baba Amravati  
University, Amravati*


**By:**

*Miss. Shweta Dodke*

*Miss. Tejal Gadekar*

*Miss. Vaishali Napte*

*in the partial fulfillment of the requirement for the degree of **Bachelor of  
Engineering in Computer Science & Engineering**, during the academic  
year 2021-22 under my guidance.*

  
**Prof. K. P. Barabde**

Guide,  
Dept of C.S.E.



  
**Dr S. L. Satarkar**

Head,  
Dept of C.S.E.

**Department of Computer Science & Engineering  
College of Engineering & Technology,  
Akola.**



Shri Shivaji Education Society, Amravati's  
College of Engineering and Technology,  
Babhulgaon (Jh.), National Highway No. 6 Akola - 444104



## CERTIFICATE

*This is to certify that project report entitled,*  
**STABILIZATION OF BLACK COTTON SOIL/ MURUM BY  
FLYASH**

*Completed and delivered in a satisfactory manner as partial  
fulfillment towards the degree*

**Bachelor of Engineering (Civil Engineering)**

*Submitted to*

**Sant Gadge Baba Amravati University,  
Amravati, Maharashtra**

*Submitted by*

Mr. Pranav S. Bhawane

Mr. Rajat P. Nimje

Ms. Priyal A. Saraf

Mr. Pushpak S. Ujawane


Mr. Pratik P. Dhait

Mr. Prajval G. Kalne


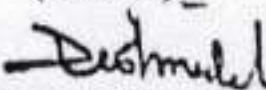
Mr. Pranav R. Wanare

Ms. Prajwal A. Ingle

Mr. Quazi Tabishuddin Q Mustaqueemuddin

  
Prof. P. M. Raut  
(Guide)

  
Prof. Rahul M. Phuke  
Head, Civil Engg. Deptt.  
C. O. E. & T., Akola

  
Prof. R. M. Phuke  
(H.O.D.) -  
  
Dr. S. K. Deshmukh  
(Principal)

Date: 6/6/2022

Place: Akola



Shri. Shivaji Education Society, Amravati's  
COLLEGE OF ENGINEERING AND TECHNOLOGY,  
BABHULGAON, AKOLA (MH.)  
DEPARTMENT OF CIVIL ENGINEERING


## CERTIFICATE


This is to certify that the project entitled "**Highway Failure and Their Maintenance**", which is being submitted herewith for the award the **Bachelor of Engineering** in '**Civil Engineering**' of College of Engineering and Technology, Akola affiliated to Sant Gadge Baba Amravati University, Amravati (MH, India). This is the result of the work completed under my supervision and guidance within the academic year 2021-2022.

Mr. Hrishikesh P. Chandekar  
Mr. Hemantkumar M. Jarande  
Mr. Ashish S. Jadhav  
Mr. Dhananjay M. Yadav

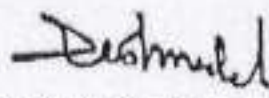
Mr. Jayesh G. Men  
Mr. Devdutta G. Banger  
Mr. Ashish V. Bhilkar  
Mr. Maaz Ahmed Khan

Miss. Harshal Anil Khandare

  
Prof. S.S. Suratkar  
(Guide)

  
Prof. R.M. Phuke  
(H.O.D.)

  
Prof. Rahul M. Phuke  
Head, Civil Engg. Deptt.  
C. O. E. & T., Akola

  
Dr. S.K. Deshmukh  
(Principal)

Plac. Akola  
Date.



Shri Shivaji Education Society, Amravati's  
**COLLEGE OF ENGINEERING AND TECHNOLOGY,  
AKOLA**

Babhulgaon (Jh.), National Highway No. 6, Akola - 444001

**DEPARTMENT OF CIVIL ENGINEERING**



**CERTIFICATE**


*This is to certify that the project report entitled,  
**DESIGN AND ANALYSIS OF A SCHOOL BUILDING**  
Has been duly completed and delivered under my supervision and  
guidance within the institute during the academic year 2021-2022 in  
satisfactory manners partial fulfillment towards the Bachelor Degree  
**BACHELOR OF ENGINEERING***


*Submitted to Sant Gadge Baba Amravati University,  
Amravati, Maharashtra.*

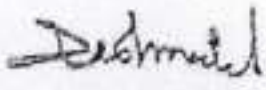
Submitted By

Mr. Dhruv .P. Khune  
Mr. Harshwardhan .D. Borokar  
Mr. Hrithik .R. Dhore  
Mr. Gaurav .P. Kale  
Ms. Kirti .M. Rathod

Ms. Diya .K. Bache  
Ms. Himanshi .D. Sharma  
Ms. Janhavi .M. Kulkarni  
Ms. Komal .P. Sadar  
Mr. Nitin Zagade

  
Prof. R. K. Watile  
(Guide)

  
Prof. R. M. Phuke  
(HOD Civil Department)

  
Dr. S. K. Deshmukh  
(Principal COETA)

  
Prof. Rahul M. Phuke  
Head, Civil Engg. Deptt.  
C. O. E. & T., Akola

(External Examiner)



Department of Chemical Engineering



**CERTIFICATE**

This is to certify that,  
**Ms.PRAGATI MESHRAM**  
**MS. ACHAL KOTANGALE**  
**Mr. SAYYED AWAIS ALI**  
**Mr. SYED ZUBAIR .A**

Final Year Chemical Engineering

Has submitted their Major Project Report on

**EFFECTS OF DIFFERENT TYPES OF REINFORCEMENT ON THE  
PROPERTIES OF UNSATURATED POLYESTER RESIN COMPOSITE**

*During the academic session 2021-22 in a satisfactory manner for the partial fulfillment of  
the requirement for the Degree of*

**Bachelor of Technology (Chemical Engineering)**

GUIDE  
Dr. P.V.Thorat



  
H.O.D.  
Dr. P.V.Thorat

**Department of Chemical Engineering**  
Shri Shivaji Education Society, Amravati's  
College of Engineering & Technology, Akola  
Session 2021-22



# **CERTIFICATE**

**This is to certify that We have completed a Project**

**On**

**"PRODUCTION OF THIAMETNOXAM"**

**During the academic session 2021 – 2022 in a satisfactory manner for the  
partial fulfillment of the requirement for the Degree of**

**BACHELOR OF TECHNOLOGY**

**(CHEMICAL ENGINEERING)**

**Under affiliation of Sant Gadge Baba Amravati University, Amravati**



  
**Dr. S . N. NEMADE**

**Guide**

  
**Dr. P. V. THORAT**

**H.O.D**

**DEPARTMENT OF CHEMICAL ENGINEERING  
COLLEGE OF ENGINEERING & TECHNOLOGY, BABHULGAON,  
AKOLA**

**SESSION 2021 – 2022**



**SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI.**

College of Engineering & Technology, Babhulgaon (Jh), Akola (M.H).444104

**Department of Chemical Engineering**



**CERTIFICATE**

This is to certify that,

- 1)AMEER MAVIYA      2)VAIBHAV SANGAVE      3)BHAGWAT HARKAL  
4)WASIM IQBAL      5)DANISH PATHAN

(B. Tech. Chemical Final Year)

Has submitted his Thesis Report on

**"MANUFACTURING OF SOAP USING ENZYME"**

During the academic session 2021-2022 in a satisfactory manner for  
the partial fulfillment of the requirement for the

Degree of Bachelor of Technology (Chemical Engineering)


Under affiliation of Sant Gadge Baba Amravati University, Amravati.

  
**Dr. S V KHEDKAR**

Guide

Date: 06/06/2022

Session: 2021 - 2022

  
**Dr. P. V. THORAT**

Head of the Department

Place: C.O.E. & T., Akola





SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI.  
College of Engineering & Technology, Babhulgaon (Jh), Akola (M.S)444104.

Department of Chemical Engineering



## **CERTIFICATE**

Mr. Nikhil Kant

Mr. Arya Lodh

Mr. Shubham Zatale


(B. Tech. Chemical Final Year)

Has submitted his Thesis Report on

**"Recycling and Applications of used Lubricating Oil "**

During the academic session 2021-2022 in a satisfactory manner for the  
partial fulfillment of the requirement for the

Degree of Bachelor of Technology (Chemical Engineering) Under  
affiliation of Sant Gadge Baba Amravati University, Amravati.


  
Dr. D. P. Sakarkar

Guide

04/6/22

Date: / /2022  
Place: C.O.E. & T., Akola



  
DR. N. V. THORAT  
HOD

Session: 2021-2022



# CERTIFICATE



This is to certify that,

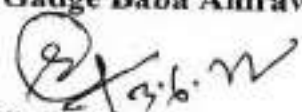
Sanchit Sanjay Bire  
Sakshi Satish Bokade  
Renuka Chandrashekhhar Rajvaidya  
Yashodeep Bhagwantrao Salunkhe

(Final Year B. Tech Chemical Engineering)

Has Completed Major Project On

**"FORMULATION OF HERBAL OINTMENT FROM KHANDU  
CHAKKA (*Ehretia laevis roxb*) EXTRACT"**

In the fulfilment of Degree of B.Tech. (Chemical Engineering) by Sant  
Gadge Baba Amravati University, Amravati in the session 2021-22.

  
Dr. G. S. Zamre

Guide



  
Dr. R. V. Thorat

H.O.D.

**SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S  
COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA.**

Department of Chemical Engineering

Academic Year: 2021-2022



SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI.  
College of Engineering & Technology, Babhulgaon (Jh), Akola (M.S)444104.

Department of Chemical Engineering



## **CERTIFICATE**

Mr. Vinit Deshmukh  
Mr. Pratik Thakre  
Ms. Shanika Paswan  
Ms. Bhagyashree kalpande  
Mr. Sagar Dethe

(B. Tech. Chemical Final Year)

Has submitted his Thesis Report on

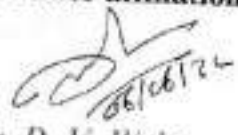
"Catalytic Conversion of Carbon Dioxide C-Feedstock"

During the academic session 2021-2022 in a satisfactory manner for

the partial fulfillment of the requirement for the

Degree of Bachelor of Technology (Chemical Engineering)


Under affiliation of Sant Gadge Baba Amravati University, Amravati.

  
Dr. D. V. Wele

Guide

Date: 06 / 06 / 2022  
Place: C.O.E. & T., Akola



  
Dr. P. V. Thorat

HOD

Session: 2021-2022



# CERTIFICATE



this is certify that,

**Mr. Keshav Bagale**  
**Mr. Rohit Ghawale**  
**Mr. Abhay Dewar**  
**Mr. Khan Hasan Aejaaz**


(B. Tech Chemical Engineering Final Year)  
has submitted his major project report on,

**study on methods of capturing CO<sub>2</sub> from environment**

during the academic year 2021-22 in a satisfactory manner for the partial fulfillment of requirement for the degree of Bachelor of Technology in Chemical Engineering, under the affiliation of **Sant Gadge Baba Amravati University, Amravati.**

  
Prof. R. S. Jadhao  
Guide



  
Dr. P. V. Thorat  
H.O.D

DEPARTMENT OF CHEMICAL ENGINEERING  
COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA  
SESSION 2021-2022



# CERTIFICATE



This is to certify that,

*Mr. Pratik D. Chouhan*

*Mr. Prakash V. Hatekar*

*Mr. Shrikant A. Khanzode*

*Mr. Shubham R. Kondawar*

*Mr. Ankush N. Rathod*

*Mr. Vaibhav S. Yesansure*

(Fourth Year B. Tech Chemical Engineering)

**Has Completed Major Project On**

**"EXTRACTION OF ETHANOL FROM BANANA PEEL"**

**In the partial fulfilment of Degree of B.Tech.(Chemical Engineering)  
by Sant Gadge Baba Amravati University, Amravati in the session  
2021-22.**

*[Signature]*  
**Dr. S.N. Nemade**

Guide

*[Signature]*  
**Dr. A.P. Gawande**

Co-Guide



*[Signature]*  
**Dr. P.V. Thorat**  
H.O.D

**SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S  
COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA.  
Department of Chemical Engineering**

**Academic Year: 2021-2022**



# CERTIFICATE

**COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA.**



This is to certify that the Project Report Entitled  
"Feasibility study for a solar PV power system for College of  
Engineering and Technology, Akola."

Has been successfully submitted by

**Ms. Pranjali Alat**

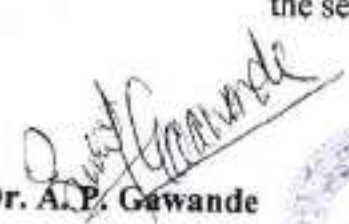
**Mr. Mohd Sufiyan**

**Ms. AnujaGiri**

**Mr. Aves -Ur- Rehman**

**Mr. Tauqeer Ahmad Shaikh**

Under my guidance, For the partial fulfillment of Degree of B.Tech. in  
Chemical Engineering by Sant Gadge Baba Amravati University, Amravati in  
the session 2021-22.

  
**Dr. A.P. Gawande**

**GUIDE**



  
**Dr. P. V. THORAT**

**H.O.D**

**YEAR (2021-22)**



# CERTIFICATE



This is to certify that,

Mr. Aman S. Tayde

Mr. Rohitkumar A. Shahare

Mr. Amol B. Uparwat

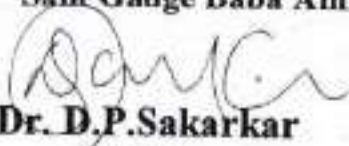
Mr. Bhushan V. Palaspagar

(Fourth Year B. Tech Chemical Engineering)

Has Completed Major Project On

## ***STUDY ON SYNTHESIS OF SUNSCREEN (DIBENZALACETONE)***

In the partial fulfilment of Degree of B.Tech. (Chemical Engineering) by  
Sant Gadge Baba Amravati University, Amravati in the session 2021-22.

  
**Dr. D.P. Sakarkar**  
Guide

  
**Dr. P.V. Thorat**  
H.O.D

**SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S  
COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA.**  
Department of Chemical Engineering  
Academic Year: 2021-2022





## CERTIFICATE

This is to certify that,

**Mr. Prathmesh D. Alaspure**

**Mr. Pralay D. Waghmare**

**Mr. Aniket D. Patil**

**Mr. Akash Meshram**

(B.Tech Chemical Engineering, Final Year)

Has submitted his major project report on

**Synthesis and characterization of bio-fuel from Algae**

During the academic session 2021-22 in a satisfactory manner for the partial fulfillment of the requirement for the Degree of Bachelor of Technology (Chemical Engineering). Under the affiliation of **Sant Gadge Baba Amravati**

**University, Amravati.**

  
Guide

**Dr. D. V. Wele**



  
HOD

**Dr. P. V. Thorat**

**Department of Chemical Engineering**

**Shri Shivaji Education Society's College of Engineering and  
technology, Akola**

**Session: 2021-22**





**CERTIFICATE**

This is to certify that,

**Mr. Mahadev P. Dinkar**

**Mr. Sanket S. Pokale**

**Mr. Samyak M. Gajbhiye**

**Mr. Dhiraj R. Khanzode**

**Ms. Prachi R. Ingle**

(B. Tech Chemical Engineering, Final Year)

Has submitted his major project report on

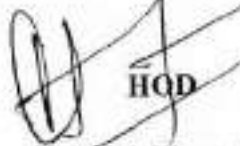
**Medium-density-fiber-boards from Wood [MDF]**

During the academic session 2021-22 in a satisfactory manner for the partial fulfillment of the requirement for the Degree of Bachelor of Technology (Chemical Engineering). Under the affiliation of Sant Gadge Baba Amravati University,

Amravati.

Guide  
  
Dr. D.C. Kothari



  
HOD  
Dr. P. V. Thorat

Department of Chemical Engineering

Shri Shivaji Education Society's College of Engineering and Technology, Akola

Session: 2021-22



# **CERTIFICATE**



**This is to certify that**

**Mr. Aditya Sonare**

**Mr. Yuvraj Khanorkar**

**Mr. Rohit Sonone**

**Mr. Nikhil Patil**

**[Third year B. Tech Chemical Engg.]**

**Has Submitted A Minor Project Report**

**On**

**“Production Of Banana Powder By Drying Process”**

**In partial fulfillment of Degree of B.Tech (Chemical Engg.) By Sant Gadge Baba Amravati University, Amravati During the academic year 2021-2022 in my supervision and guidance.**

**GUIDE AND HOD:-**

**DR. P. V. Thorat**



**Department of Chemical Engineering  
Shri Shivaji Education Society, Amravati's  
College of Engineering & Technology, Akola  
2021-2022**



**COLLEGE OF ENGINEERING & TECH.  
AKOLA**

**CERTIFICATE**


**THIS IS TO CERTIFY THAT THESIS REPORT ENTITLED  
"EXTRACTION OF ESSENTIAL OIL USING  
STEAM DISTILLATION"**

**SUBMITTED BY**


**MR. RAJESHKUMAR G. PANDEY  
MR. DNYANESHWAR B. SANGALE  
MR. ANKIT S. KUSHWAHA  
MR. VRUSHABHA P. JAMBHULKAR**

**SIX SEM. B-TECH CHEMICAL ENGINEERING**

**It is approved in partial fulfilment of B-TECH in Chemical Engineering in  
COLLEGE OF ENGINEERING & TECH. AKOLA**

  
**DR. S. V. KHEDKAR**  
(GUIDED BY)



  
**DR. P. V. THORAT**  
(HEAD OF DEPT.)



# Certificate



This is to certify that

1] Pavan B. Chavan  
3] Vishal R. Chavan

2] Sudhant S. Kamble  
4] Swarup V. Borle

5] Krunal V. Wankhade

[Third year B. Tech Chemical Engineering.]

Has Submitted A Minor Project Report

On

**"GENERATION OF ELECTRICITY BY USING GASIFICATION PROCESS"**

In partial fulfillment of Degree of B.Tech (Chemical Engg.) By SantGadge Baba  
Amravati University, Amravati During the academic year 2021-2022 in my  
supervision and guidance.

Dr. G. S. Zamre

(Guide)

Dr. P. V. Thorat

(H.O.D)



SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S  
COLLEGE OF ENGINEERING & TECHNOLOGY, AKOLA.  
Department Of Chemical Engineering  
Academic Year :2021-2022



# **\* CERTIFICATE \***



**This is to certify that**

**Ku. Sejal S. Patil**

**Ku. Darshana B. Wakode**

*M2. Adesh Rupnayan*

*K4. Vaishnavi Bhande*

**B. E. Third Yr. Chemical Engineering**

**Has delivered PROJECT entitled**

**"WATERMELON SEED OIL: ITS EXTRACTION, ANALYTICAL  
STUDIES AND UTILIZATION IN COSMETIC INDUSTRIES"**

**During the academic session 2021-2022 in a satisfactory manner in the  
partial fulfillment of the requirement for the**

**degree of**

**"B.E." In CHEMICAL ENGINEERING.**


**Of Sant Gadge Baba Amravati University**

**Under the guidance and Supervision**

  
**Dr., D.V. Wele**

**GUIDE**



  
**Dr. P.V. Thorat**

**H.O.D**

**DEPARTMENT OF CHEMICAL ENGINEERING,  
COLLEGE OF ENGINEERING & TECHNOLOGY, AKOLA**

**2021-22**



## CERTIFICATE



This is to certify that,

Mr. ROHIT RAIBOLE

Mr. RUTVIK RAUT

Mr. TEJAS BOROKAR

Mr. PAVAN SHINDE

(B.Tech Third Year Chemical Engineering)

Has submitted the Project Report On

*"COMPARATIVE STUDY OF CO<sub>2</sub> ABSORPTION BY SOLVENT WITH  
DIFFERENT FLOW RATE USING SIEVE PLATE COLUMN"*

During the academic session 2021-2022 in a satisfactory manner for the partial  
fulfillment of the requirement for the

Degree of Bachelor of Technology (Chemical Engineering)

Under the affiliation of Sant Gadge Baba Amravati University, Amravati.

Dr. G.S. ZAMRE

(GUIDE)



Dr. P.V. THORAT

(H.O.D)

Shri Shivaji Education Society, Amravati's

College of Engineering & Technology, Akola

Department of Chemical Engineering,

Session 2021-2022.



## CERTIFICATE



**This is to certify that**

**Mr Niket vijay mankar      Mr. Swarup dange**  
**Mr. Gyanang rajkhwa      Mr. Indramohan sangle**

This is to certify that the Project Report entailed, "**Optimization of hydrodynamic parameters of double pipe finned tube heat exchanger**", have been duly completed under my guidance, in satisfactory manner for a partial fulfilment of the course in Chemical Engineering.

---

**Principal**

**College of Engineering and technology, Akola**

**H.O.D.**

**Dr. P. V. Thorat**

**College of Engineering and technology, akola**

**Guided By**

**Dr. D. V. Wele**



**College of Engineering and technology, akola**

**Department of Chemical Engineering**

**2021-2022**





## CERTIFICATE

This is to certify that the project entitled **“High Temperature Plastics”** which is being submitted herewith for the award of Degree of Bachelor of Engineering is the result of the work completed under our supervision and guidance within the institute during the academic year 2021-2022.

**Mr. Aditya U Nalkande**

**Mr. Shaikh Fuzailuddin**

**Mr. Adnan Khan**

**Mr. Chetan Chavhan**

Dr. D.P. Sakarkar.

(Guide)

Dr. P.V. Thorat

(Head, Chemical Dept.)

04/06/22

Date : / /2022

Place: C.O.E.T, Akola





# Certificate



This is to certify that

**Mr. Abhijeet Rathod**

**Miss. Nikita Dongare**

**Miss. Abha Meshram**

**Miss. Ritika Dongare**


**[Third year B. Tech Chemical Engg.]**

**Has Submitted A Minor Project Report**


**On**

***"Water Purification by using Membrane separation Technology"***

**In partial fulfillment of Degree of B.Tech (Chemical Engg.) By Sant Gadge  
Baba Amravati University, Amravati During the academic year 2021-2022 in  
my supervision and guidance.**

  
**Dr. S.N. Nemade**  
**(guide)**



  
**Dr. P.V. Thorat**  
**(HOD)**

**Department of Chemical Engineering  
Shri Shivaji Education Society, Amravati's  
College of Engineering & Technology, Akola.  
2021-2022**



**College of Engineering and Technology, Akola**  
**Department of Chemical Engineering**



**CERTIFICATE**

*This is to certify that*

**Mr. Maaz Ashar**  
**Mr. Sufiyan Shaikh**  
**Mr. Nouman Shaikh**  
**Mr. Muhammad Awais**  
(B.Tech. Chemical Third Year)

*has submitted his/her Thesis Report on*

**"Synthetic Fuels by Coal Liquefaction"**

*during the academic session 2021-22 in a satisfactory manner for the*  
*partial fulfillment of the requirement for the Degree of*

**BACHELOR OF TECHNOLOGY**  
**(Chemical Engineering)**

*Under the supervision of*

*Guided By*

**Prof. R.S. JADHAO**

*H.O.D.*

**Dr. P.V.Thorat**





# CERTIFICATE



This is to certify that

Mr. Akshay Khadse

Mr. Shardul Pachpor

Miss. Swara Bodkhe

Miss. Kasturi Bahekar

[Third year B. Tech Chemical Engg.]

Has Submitted A Minor Project Report On

**“Formation of Perfume from Lemongrass”**

In partial fulfillment of Degree of B.Tech (Chemical Engg.) By Sant Gadge Baba Amravati University, Amravati During the academic year 2021-2022 in my supervision and guidance.

GUIDE

DR. A. P. GAWANDE



HOD

DR. P. V. Thorat

**Department of Chemical Engineering**  
**Shri Shivaji Education Society, Amravati's**  
**College of Engineering & Technology, Akola**  
**2021-2022**



# CERTIFICATE



This is to certify that

Mr. PRATIK TAMBUSKAR

Mr. VISHAL JUWAR

Miss. PRANITA BHAGAT

Miss. NUPUR WALTHARE

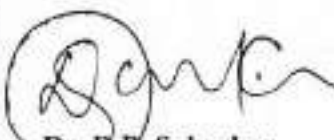
[Third Year B. Tech. Chemical Engineering.]

Has Submitted A Minor Project Report

On

**"CONSTRUCTION OF WETLAND FOR WASTE WATER TREATMENT"**

In partial fulfillment of Degree of B. Tech (Chemical Engg.) By Sant  
Gadge Baba Amravati University, Amravati During the academic  
year 2021-2022 in my supervision and guidance.

  
Dr. B.P. Sakarkar  
Guide



  
Dr. P.V. Thorat  
H.O.D.

Department of Chemical Engineering  
Shri Shivaji Education Society, Amravati's  
College of Engineering & Technology, Akola.  
2021-2022





## **CERTIFICATE**

This is to certify those following students of  
Third Year B. Tech Chemical Engineering

Ms. Nupur Garpade

Mr. Deep Wasekar

Ms. Shruti Deshpande

Mr. Dhammasheel Bhiogade

**Has Completed Minor Project on**


### **Comparative Study of Refined And Cold Pressed Edible Oil**

Under my Guidance of partial fulfilment of Degree of B.Tech. in Chemical  
Engineering by Sant Gadge Baba Amravati University, Amravati in the  
session 2021-22.

  
DR. A.P. GAWANDE

**GUIDE**



  
DR. P. V. THORAT

**H.O.D**

**SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S  
COLLEGE OF ENGINEERING AND TECHNOLOGY, AKOLA.**

**Department of Chemical Engineering**


**Academic Year: 2021-2022**



## CERTIFICATE


This is to certify that the project entitled "**Bio CNG Plant Spectrum For Renewable Energy**" which is being submitted herewith for the award of Degree of Bachelor of Engineering is the result of the work completed under our supervision and guidance within the institute during the academic year 2021-2022.


**Mr. Rushikesh Sutar.**  
**Mr. Shubham Chaudhari.**  
**Mr. Ujjwal Rangari.**  
**Miss. Megha Tayade.**  
**Miss. Mayuri Jaybhaye.**

  
Dr. D. C. Kothari.  
(Guide)

Dr. P.V. Thorat  
(Head, Chemical Dept.)



  
(External examiner)  
Dr. P. R. Tayade.

  
Dr. S.K. Deshmukh  
(Principal)



# Certificate



This is to certify that

Mr. Vaibhav Nikas

Miss. Prajakta Darunde

Mr. Samyak Patil

Miss. Aachal Sonone

Mr. Vishal Vyavahare

[Third year B. Tech Chemical Engg.]

Has Submitted A Minor Project Report

On

**"MANUFACTURING OF RUBBER TILES BY USING WASTE TYRES"**

In partial fulfillment of Degree of B.Tech (Chemical Engg.) By Sant Gadge  
Baba Amravati University, Amravati During the academic year 2021-2022 in  
my supervision and guidance.

  
Prof. R. S. Jadhao

(Guide)



  
Dr. P. V. Thorat

(H.O.D)

Department of Chemical Engineering  
Shri Shivaji Education Society, Amravati's  
College of Engineering & Technology, Akola.  
2021-2022



## PROJECT CERTIFICATE

This is to certify that the architectural design dissertation project entitled **BRIDGING THE GAP – POTTERY COMMUNITY CENTRE AT JAIPUR, RAJASTHAN** is a bonafide work of a student of School of Architecture, C.O.E.T.A **KAJAL SUBHASH KANKARIYA**, completed during the academic year **2021-2022**, towards the accomplishment of Bachelor of Architecture, awarded by SGBAU.

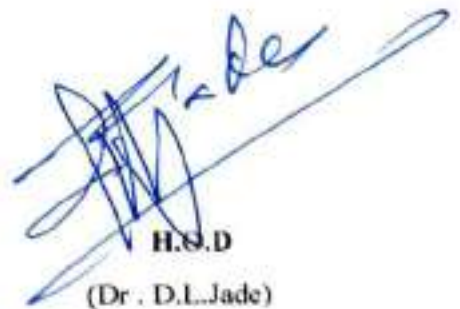
Date – 03/08/2022

Place - Akola



**Thesis Guide**

(Dr . Sudhir dhomne)  
(Dr. . Gulfam shaikh)



**H.S.D**  
(Dr . D.L.Jade)



**Principle**

(Dr S.k.Deshmukh)



## PROJECT CERTIFICATE

This is to certify that the architectural design dissertation project entitled **DANCE GURUKUL** AT LONAR, MAHARASHTRA is a bonafide work of a student of School of Architecture, C.O.E.T.A. **KADHA** SUSHILKUMAR BAGANI, completed during the academic year 2019-2020, towards the accomplishment of Bachelor of Architecture, awarded by SGBAU.

Date - 03/08/2022

Place - Akola

**Thesis Guide**

(Prof. Dilip Jade)  
(Prof. Raja Shambharkar)



**H.O.D**

(Prof. Dilip Jade)



**Principle**

Dr. (Prof. S.K. Deshmukh)



## PROJECT CERTIFICATE

This is to certify that the architectural design dissertation project entitled AUTOMOBILE EXPERIENCE AND LEISURE CENTER is a bonafide work of a student of School of Architecture, C.O.E.T.A SAYALI SUNIL JADHAV, completed during the academic year 2021-2022, towards the accomplishment of Bachelor of Architecture, awarded by SGBAU.

ate -

lace - Akola



**GUIDED BY**

PROF. AR. JAYANT INGOLE



**H.O.D.**

PROF. AR. DILIP JADE



**Principle**

(Dr.S.k.Deshmukh)



# Certificate

The Thesis titled "**AGRICULTURE RESEACH CENTER**" submitted by **Mahima Patil** for the partial fulfillment of B.Arch degree, has been carried out at the School of Architecture, C.O.E.T, Akola. The work is comprehensive, complete and fit for evaluation.



Prof. Ar. Dilip Jade  
Guide



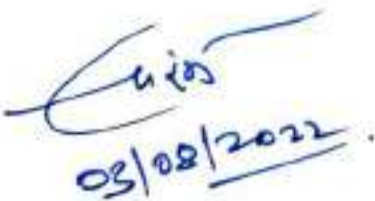
Prof. Ar. Jayant Ingole  
Guide



Prof. Ar. Dilip Jade  
H.O.D



Prof. S. K. Deshmukh  
Principal



03/08/2022



# Certificate

The Thesis titled "**Post-Apocalyptic Architecture at Devanampattinam, Tamil Nadu**" submitted by *Shahaji Jawade* for the partial fulfillment of B.Arch degree, has been carried out at the School of Architectre, C.O.E.T, Akola. The work is comprehensive, complete and fit for evaluation



**Prof. Ar. Jayant Ingole**

Guide



**Prof. Ar. Anand Pande**

Guide



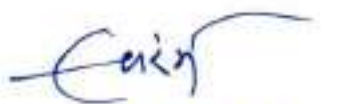
**Prof. Ar. D.L. Jade**

H.O.D



**Prof. S.K. Deshmukh**

Principal

  
03/08/2022...



2022

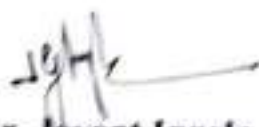


## Certificate

The Thesis titled "Cultural Heritage Center , *Cultural Center of Vidarbha Region at Ramtek, Nagpur.*" submitted by *Aniket S. Dhoke* for the partial fulfillment of B.Arch degree, has been carried out at the School of Architecture, C.O.E.T, Akola. The work is comprehensive, complete and fit for evaluation.



**Prof. Ar. Anand Pande**  
Guide



**Prof. Ar. Jayant Ingole**  
Guide



**Prof. Ar. D.L. Jade**  
H.O.D



**Prof. S.K. Deshmukh**  
Principal



2024-22