

**"Techno-Social Excellence"**  
**Marathwada Mitramandal's**  
**Institute of Technology**  
**Lohgaon, Pune**

**Department : Mechanical Engineering**

Course Code : 202052

Title of Course : Project Based Learning-II

Sr No	Title of Project	Name of Students	Page no
1	crank and slotted lever mechanism	<b>SMA107 PATHAVE SUNIL SOMANATH</b>	<u>2</u>
2		SMA102 DHONGADE HARSHAD D	
3		SMA103 GHODE DASHARATH TULSHIRAM	
4		SMA104 GODE PRAVIN YUVRAJ	
5		SMA114 VISHAL BALASAHEB GAIKWAD	
6		SMA119 DONGARE SATVIK SANTOSH	
7	Development of guided blade vane compressor	<b>SMA101 BIRADAR MAGARDHWAJ MAR</b>	<u>4</u>
8		SMA110 GAIKWAD ROHIT BALASAHEB	
9		SMA112 PANMAND VAISHNAV ARJUN	
10		SMA113 BANSODE SOHAN DATTA	
11		SMA115 DALVI ARYAN RAJARAM	
12		SMA117 YELWANDE ADITYA P	
13	Fluid Flow Analysis through Convergent Divergent Nozzle	<b>SMA118 KHATTRI OMKAR</b>	<u>5</u>
14		SMA121 PATIL SARANG DEVIDAS	
15		SMA123 GADGE SHUBHAM DAMODAR	
16		SMA125 VAISHNAVI S NANGRALE	
17		SMA131 AHIRE KAJAL RAJENDRA	
18	SMA148 TUSHAR HIRALAL SONKUSALE		
19	Fabrication of low cost solar pump from scrap	<b>SMA147 SHIRKE SATYAM RAJENDRA</b>	<u>6</u>
20		SMA122 DESHMUKH ABHISHEK VILAS	
21		SMA141 KURUMKAR PRATIK RAJENDRA	
22		SMA142 GAWADE ANIKET SANJAY	
23		SMA144 PISHTE SUYASH SHRIKANT	
24		SMA120 CHAVAN SHIVANI SANJAY	
25	Wheel Support for Punctured Vehicle	<b>SMA126 GARAD KRUSHNA JAGDISH</b>	<u>7</u>
26		SMA128 KUSHWAH MAHESH HARKISING	
27		SMA129 THETE ONKAAR BHARAT	
28		SMA138 ROHIT HARI NAIKNAWARE	
29		SMA139 BHAGAT KISHOR RAJABHAU	
30		SMA140 BHABAL SOHAM VILAS	
31	Heating and humidification apparatus	<b>SMA145 JADHAV VAIBHAV S</b>	<u>9</u>
32		SMA146 DHALE CHANDRAKANT B	
33		SMA149 PHAND DHANASHRI D	
34		SMA150 GHOGARE OM KALYANRAO	
35		SMA151 SHINDE ASHISH SHIVAJI	
36		SMA152 BANSODE RAHUL BAJIRAO	
37	Oscillating Cylinder Engine Mechanism	<b>SMA106 NAYKODI HARSHAL NITIN</b>	<u>10</u>
38		SMA105 HENDRE SHREEYASH MANOJ	
39		SMA108 RAWATE NIKHIL NAMDEV	
40		SMA109 SALVE PRATIK DHONDIBA	
41		SMA111 MANE VISHAL GOWARDHAN	
42		SMA127 MADURE AISHAWARYA SHYAM	



**“Techno-Social Excellence”**



**येथे बहुतांचे हित**

**Department of Mechanical Engineering**

**Marathwada Mitra Mandal's Institute of Technology, Pune-411 047**

**Savitribai Phule Pune University**

**Project Based Learning-II**

**Report on**

**“Crank And Slotted Lever Mechanism”**

**By**

**1 Sunil S Pathave**

**S190590837**

**2 Satvik S Dongare**

**S190590811**

**3 Harshad D Dhongade**

**S190590810**

**4 Pravin Y Gode**

**S190590819**

**5 Dashrath T Ghode**

**S190590817**

**6 Vishal B Gaikwad**

**S190590852**

**Under the Guidance of**

**Prof. D. M. Bhoge**



## CERTIFICATE

This is to certify that Mr. Sunil S Pathve , Mr. Satvik S Dongare, Mr. Pravin Y Gode, Mr. Harshad D Dhongade, Mr. Dashrath T Ghode , MR. Vishal B Gaikwad , has successfully completed the project based learning activity report entitled “Crank And Slotted Lever Mechanism” under my supervision, in the partial fulfilment of academics of Savitribai Phule Pune University, at Marathwada Mitra Manda`s Institute of Technology, Lohgaon, Pune.

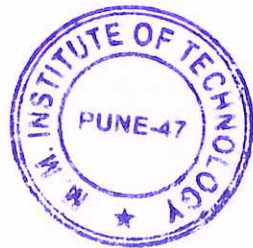
Date:

Place: **Pune**

  
Guide

  
PBL Coordinator

  
Prof. Sudhir More  
HoD Mechanical Engineering



## CERTIFICATE

This is to certify that **Mr. ROHIT GAIKWAD, Mr. SOHAN BANSODE, Mr. ARYAN DALVI, Mr. BIRADAR MAGARDWAJ , & Mr. PANMAND VAISHNAV**, has successfully completed the project based learning activity report entitled "**Development of a guided blade vane pump compressor**" under my supervision, in the partial fulfilment of academics of Savitribai Phule Pune University, at Marathwada Mitra Manda's Institute of Technology, Lohgaon, Pune.

Date:

Place: **Pune**

**Guide**

**N.B.DHAMANE**

**PBL Coordinator**

**PROF.N.B.DHAMANE**

**PROF. SUDHIR  
MORE**

Marathwada Mitra Mandal's Institute of Technology, S.E. (Mechanical)

ii



## CERTIFICATE

This is to certify that Mr. Khattri Omkar, Mr. Patil Sarang Devidas, Mr. Gadge Shubham Damodar, Ms. Vaishnavi S Nangrale, Ms. Ahire Kajal Rajendra and Mr. Tushar Hiralal Sonkusale, has successfully completed the project based learning activity report entitled “**Fluid Flow Analysis through Convergent Divergent Nozzle**” under my supervision, in the partial fulfilment of academics of Savitribai Phule Pune University, at Marathwada Mitra Manda’s Institute of Technology, Lohgaon,Pune.

Date: **30/05/2023**

Place: **Pune**



A handwritten signature in blue ink, appearing to be "H. H. H.", written over a horizontal line.

**Guide**

A handwritten signature in blue ink, appearing to be "S. M. S.", written over a horizontal line.

**PBL Coordinator**

A handwritten signature in blue ink, appearing to be "S. M. S.", written over a horizontal line.

**HoD**

## CERTIFICATE

This is to certify that Mr. Shirke S.R., Mr. Deshmukh A.V., Mr. Kurumkar P.R., Mr. Gawade A.S., Mr. Pishte S.S. has successfully completed the project based learning activity report entitled “**Fabrication of Solar water pump using scrap**” under our supervision, in the partial fulfilment of academics of Savitribai Phule Pune University, at Marathwada Mitra Mandal’s Institute of Technology, Lohgaon,Pune.

**Date:** 27/05/2023

**Place:** MMIT, Pune

  
Guide

(Dr. G. L. Allampallewar)



PBL Coordinator

(Prof. N. B. Dhamane)

  
HOD

Prof. S. S. MORE



“Techno-Social Excellence”



येथे बहुतांचे हित

Department of Mechanical Engineering

Marathwada Mitra Mandal's Institute of Technology, Pune-411 047

Savitribai Phule Pune University

Project Based Learning-II

Report on

# Wheel support for punctured vehicle

By

Omkar Bharat Thete	S190590835
Mahesh Harkisingh Kushwah	S190590828
Kishor Rajabhau Bhagat	S190590806
Krushna Jagdish Garad	S190590812
Rohit Hari Naiknaware	S190590831

Under the Guidance of  
Yesane Sir

Marathwada Mitra Mandal's Institute of Technology, S.E. (Mechanical)

i





## CERTIFICATE


This is to certify that Mr. Omkar Thete, Mr. Mahesh Kushwah, Mr. Kishor Bhagat, Mr. Krushna Garad, Mr Rohit Naiknaware has successfully completed the project based learning activity report entitled Wheel support for punctured vehicle under my supervision, in the partial fulfilment of academics of Savitribai Phule Pune University, at Marathwada Mitra Manda's Institute of Technology, Lohgaon,Pune.

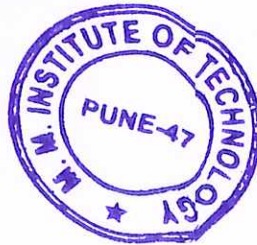
Date:02/06/2023

Place: **Pune**

  
Guide

  
PBL Coordinator

  
HoD



Marathwada Mitra Mandal's Institute of Technology, S.E. (Mechanical)



## CERTIFICATE

This is to certify that **Mr. Om Ghogare & Mr. Rahul Bansode**, has successfully completed the project based learning activity report entitled "**Heating & Humidification**" under my supervision, in the partial fulfilment of academics of Savitribai Phule Pune University, at Marathwada Mitra Manda's Institute of Technology, Lohgaon, Pune.

Date: 8/6/23

Place: Pune



Guide



PBL Coordinator



Prof. Sudhir More  
HoD Mechanical Engineering

Marathwada Mitra Mandal's Institute of Technology, S.E. (Mechanical)



“Techno-Social Excellence”  
**Marathwada MitraMandal's**  
**INSTITUTE OF TECHNOLOGY**  
Survey No. 35, Plot No. 5/6, Lohgaon, Pune – 411047  
Tel No: +91 7447786623 Fax No: 020-20261613  
(Affiliated to Savitribai Phule Pune University)  
(Accredited with 'A' Grade by NAAC)





“येथे यहुतांचे हित”

Department of  
Mechanical Engineering/ Computer Engineering/  
Civil Engineering/Artificial Intelligence & Data Science /  
Mechatronics Engineering/Engineering Science

## Certificate

This is to certify that Mr./Ms. GROUP No. 1  
of Class SE, Roll No —, and University Exam Seat No. —  
has successfully completed all the assignments as the Term work/Practical for the  
subject Project Based Learning during Semester I/II of academic year  
2022-2023

  
Faculty In-charge

  
Prof. Sudhir More  
HoD Mechanical Engineering



Principal

“Techno-Social Excellence”



येथे बहुतांचे हित

Department of Mechanical Engineering

Marathwada Mitra Mandal's Institute of Technology, Pune-411 047

Savitribai Phule Pune University

Project Based Learning-II

Report on

“Oscillation Cylinder Engine  
Mechanism”

By

Naykodi Harshal Nitin	S190590833
Hendre Shreeyash Manoj	S190590820
Mane Vishal Gowardhan	S190590829
Rawate Nikhil Namadeo	S190590842
Salve Pratik Dhondiba	S190590843
Madure Aishwarya Sham	S190590826

Under the Guidance of  
**Prof. D. M. Bhoge**

Marathwada Mitra Mandal's Institute of Technology, S.E. (Mechanical)

i





## CERTIFICATE

This is to certify that Mr. Harshal , Mr. Shreyash , Mr. Nikhil, Mr. Pratik , Mr. Vishal, and Ms. Aishwarya , has successfully completed the project based learning activity report entitled “Oscillation cylinder engine mechanism” under my supervision, in the partial fulfilment of academics of Savitribai Phule Pune University, at Marathwada Mitra Manda’s Institute of Technology, Lohegaon,Pune.

Date:

Place: **MMIT,Pune**



Prof. D. M . Bhoge

**Guide**



**Prof. N . B . Dhamane**

**PBL Coordinator**



**Prof. Sudhir More**  
**HOD Mechanical Engineering**

**HOD**

