



**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU- 562 157.**

**DEPARTMENT OF MECHANICAL ENGINEERING
FINAL YEAR PROJECT WORK GUIDE ALLOTMENT**

Sl. NO	GROUP NO	USN	NAME	GUIDE
1	ME01	1MV19ME001	AAKASH MISHRA	Mr. K Ejaz Ahmed
2	ME01	1MV19ME019	HANU YADAV	
3	ME01	1MV19ME039	NIKITA SINGH	
4	ME01	1MV19ME059	SIDDHARATH S H	
5	ME02	1MV19ME003	ADNAAN TAWHEED JAMEEL	Mr. K. Chandrashekar
6	ME02	1MV19ME006	ARFAAN TAWHEED JAMEEL	K. Ejaz Ahmed
7	ME02	1MV19ME011	B S SRI SUMUKHA	
8	ME02	1MV19ME058	SHUBHAM KUMAR JHA	
9	ME03	1MV19ME028	KARTHIK D PATIL	Dr Kiran Kumar M
10	ME03	1MV19ME067	TARUN R	
11	ME03	1MV19ME070	VINAYAK TEVARANNAVAR	
12	ME03	1MV18ME095	SANGAMESH	
13	ME04	1MV19ME002	ADITYA SOMVANSI	Mr. Prashanth L
14	ME04	1MV19ME008	AYUSH KUMAR	
15	ME04	1MV19ME029	KARTHIK R	
16	ME04	1MV19ME032	MARUTHI P K	
17	ME05	1MV19ME023	HITHESH R	Mr. Natraja M.
18	ME05	1MV19ME036	NAVEEN D	
19	ME05	1MV19ME046	PUNEETH S	
20	ME05	1MV19ME064	SUHAS S	
21	ME06	1MV19ME033	MOHAMMED YAHYA ADIL	Mr. Shiva Kumar S

Sl. NO	GROUP NO	USN	NAME	GUIDE
48	ME12	1MV19ME068	V VIGNESH	
49	ME13	1MV19ME035	NANDAN T N	Dr. K S Shanmukharadhya
50	ME13	1MV19ME038	NIKHIL A J	
51	ME13	1MV19ME060	SIDHARTH V	
52	ME13	1MV19ME051	RIDU VARSHINI N	
53	ME14	1MV19ME062	SUDEEP V R	Mr. Sampth Kumar L
54	ME14	1MV20ME400	BALARAJU K	
55	ME14	1MV20ME401	BHARATH T S	
56	ME14	1MV20ME403	DRAKSHAYINI	
57	ME15	1MV19ME010	BASAMMA H	→ C. B Dr. K S Shanmukharadhya
58	ME15	1MV20ME402	CHANDRU KUMAR H V	→ Chandrashekar B
59	ME15	1MV20ME405	KANTEPPA	
60	ME15	1MV20ME407	MAHESH AINAPURE	
61	ME16	1MV19ME020	HARSHIT RAI	Mr Ramesh C G
62	ME16	1MV19ME034	MOHAN M G	
63	ME16	1MV19ME037	NAVEEN RAJ PANDEY	
64	ME16	1MV19ME040	NISHANTH KUMAR M	
65	ME17	1MV19ME005	AMAN SINGH	Dr V Shantha
66	ME17	1MV19ME007	ASHISH KUMAR MISHRA	
67	ME17	1MV19ME016	DHANUSH N REDDY	
68	ME17	1MV19ME047	R HRITHIK REDDY	
69	ME18	1MV19ME018	GOKUL RAJ SM	Mr. Kumaraswamy R
70	ME18	1MV19ME026	K SANKETH SHINDE	
71	ME18	1MV19ME052	SAKET GARG	
72	ME18	1MV19ME021	HASEEB UR RAHMAN	
73	ME19	1MV19ME024	HRITHIK B N	Dr Hanamantraygouda M B

Sl. NO	GROUP NO	USN	NAME	GUIDE
22	ME06	1MV19ME053	SATYANARAYANA	
23	ME06	1MV19ME055	SHUBHAM ANAND	
24	ME06	1MV19ME057	SHUBHAM KUMAR	
25	ME07	1MV20ME404	EKANTH P MOHITHE	Dr Prashanth S H
26	ME07	1MV20ME408	PREMSAGAR G	
27	ME07	1MV20ME409	PUNEETH N	
28	ME07	1MV20ME411	VAMSHI V	
29	ME08	1MV19ME012	CHANDAN B S	Mrs Asha Rani A
30	ME08	1MV19ME014	CHOLARAJU S MOHAN RAJU	
31	ME08	1MV19ME015	DHANUSH M P	
32	ME08	1MV19ME017	DINAKAR M K	
33	ME09	1MV19ME041	NITESH NADAGERI	Mr. S B Halesh
34	ME09	1MV19ME069	VARUN V	
35	ME09	1MV20ME406	KEERTHI D	
36	ME09	1MV20ME410	RAJATH H V	
37	ME10	1MV19ME043	PRAJWAL K	Mr. Janardhana K
38	ME10	1MV19ME048	R VINAY KUMAR	
39	ME10	1MV19ME054	SHANTA	
40	ME10	1MV19ME066	SWAROOP B	
41	ME11	1MV19ME004	ALOK JHA	Dr G Balakumar
42	ME11	1MV19ME022	HEMANTH B M	
43	ME11	1MV19ME030	KUMAR SHIVAM	
44	ME11	1MV19ME061	SOURABH C PANCHAL	
45	ME12	1MV18ME066	RAVI B K	Mrs Veena B G
46	ME12	1MV19ME013	CHANDRASHEKHARA A E	
47	ME12	1MV19ME065	SURAJ A	

Sl. NO	GROUP NO	USN	NAME	GUIDE
74	ME19	1MV19ME025	JAYASURYA K S	
75	ME19	1MV19ME045	PRUTHVI GOWDA V	
76	ME19	1MV19ME063	SUDHAMSHU A C	
77	ME20	1MV19ME027	K SHAHSIDHARA	Mr. H S Yeshvantha
78	ME20	1MV19ME042	PRADEEP SADANAND BIDARI	
79	ME20	1MV19ME044	PRASHANTH	
80	ME20	1MV19ME050	RAKESH R	
81	ME21	1MV19ME009	AYUSH VISHAVKARMA	Mr. K Madhukumar
82	ME21	1MV19ME049	RAJAT KUMAR POKALE	
83	ME21	1MV19ME031	M TINKU RAJ KUMAR	

Project Coordinator:

T. S. Hanall
29-10-2022

Project Co-Coordinator:

A. A.
29/10/22

[Signature]
29-10-22
HOD

PROFESSOR & HEAD
Department of Mechanical Engineering
Sir M. Visvesvaraya Institute of Technology
Bengaluru-562 157

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-
590018**



Project Report on

**"DESIGN AND STRUCTURAL ANALYSIS OF
MOTORCYCLE FRAME"**

Submitted in partial fulfilment of the requirements for the award of degree
BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted by

Hanu Yadav
Kumar Shivam
Nikita Singh
Siddharth S H

1MV19ME019
1MV19ME030
1MV19ME039
1MV19ME059

Under the Guidance of

Mr. K. EJAZ AHMED
Associate Professor
Department of Mechanical Engineering
Sir MVIT, Bengaluru



DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2021-2022

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "DESIGN AND STRUCTURAL ANALYSIS OF MOTORCYCLE FRAME" is bonafide work carried out by Hanu Yadav bearing USN (1MV19ME019), Kumar Shivam bearing USN (1MV19ME030), Nikita Singh bearing USN (1MV19ME039) and Siddharth S H bearing USN (1MV19ME059) in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2021-2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


Mr. K. Ejaz Ahmed.

Associate Professor

Dept. of Mechanical Engg.

Sir MVIT, Bengaluru.


Dr. K. S. Shanmukharadhy

Professor & HOD

Dept. of Mechanical Engg.

Sir MVIT, Bengaluru.

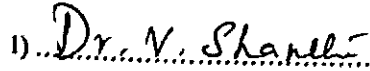

Dr. V. R. Manjunath

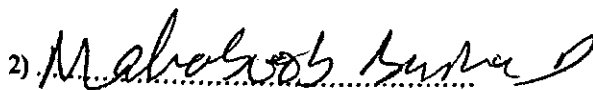
Principal

Sir MVIT, ~~PRINCIPAL~~

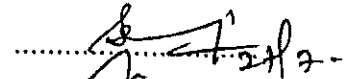
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

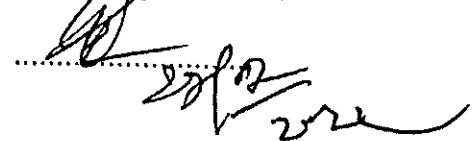
Names of the Examiners

1) .....

2) .....

Signature with Date

.....

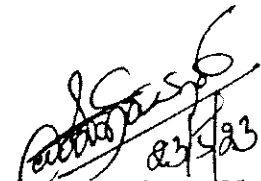
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SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157, KARNATAKA, INDIA
DEPARTMENT OF MECHANICAL ENGINEERING

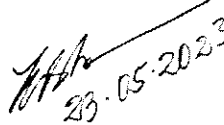


CERTIFICATE

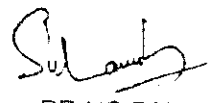
This is to certify that the project work entitled **FABRICATION OF MULTISTAGE POTABLE WATER FILTER USING BIO-CHEMICAL ADSORBENTS** is bonafide work carried out by **SANGAMESH (IMV18ME095), KARTHIK D PATIL (IMV19ME028), TARUN R(IMV19ME067), VINAYAK TEVARANNAVAR (IMV19ME070)** in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of **Project Work Phase-2 (18MEP83)** prescribed for the Bachelor of Engineering degree.


23/05/23

Dr. Kiran Kumar M
Assistant Professor
Sir MVIT, Bengaluru

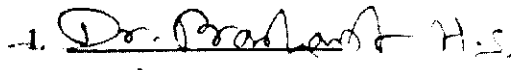
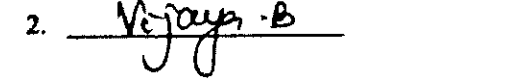

23.05.2023

Dr. K S Shanmukharadhya
Professor and Head of
Mech Dept, Sir MVIT, Bengaluru

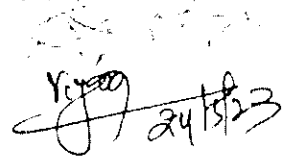


Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1.  **Dr. Pradant H.S.**
2.  **Vejay B**

Signature with Date


24/5/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI -590018**



**A Project Report on
DESIGN AND DEVELOPMENT OF UNDERWATER BIONIC
ROBOT**

Submitted in partial fulfillment of the requirements for the award of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted by

ADITYA SOMAVANSHI

1MV19ME002

AYUSH KUMAR

1MV19ME008

KARTHIK R

1MV19ME029

MARUTHI P K

1MV19ME032

Under the Guidance of

Mr. PRASHANTH L

Assistant Professor

Dept. of Mechanical Engineering



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli, Bengaluru-562157
Academic Year: 2022-23**

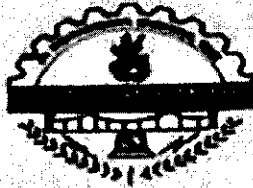
DEPARTMENT OF MECHANICAL ENGINEERING



2. Vijaya. B.

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BANGALORE - 562 157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Project Work entitled "STUDY AND EVALUATION OF MECHANICAL PROPERTIES OF Al-Si ALLOY REINFORCED WITH ZrO_2 PROCESSED BY SPRAY AUTOMISATION" is a bonafide work carried out by HITHESH R -1MV19ME023, NAVEEN D - 1MV19ME036, PUNEETH S - 1MV19ME046 and SUHASS - 1MV19ME064 in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi. during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering Degree.

Mr. Nataraj M

Mr. Nataraj M
Assistant Professor
Dept. of Mechanical Engg.,

Dr. K S Shanmukharadhya
24.5.2023
Dr. K S Shanmukharadhya
Head of the Department,
Dept. of Mechanical Engg.,
Sir MVIT, Bangalore

Sulank

PRINCIPAL

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Channarayanaiahalli
International Airport Road, Bangalore-562 157

Dr. Rakesh S G
Principal,
Sir MVIT, Bangalore

Name of the Examiners

Signature with date

1. *Dr. Prashant H.S.*

2. *Vijaya B.*

[Signature]
24/5/2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

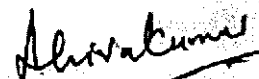
Krishnadevaraya Nagar, Hunsuramrnahalli, Yelahanka, Bengaluru, Karnataka 562157

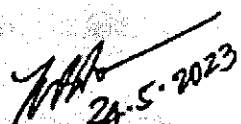
DEPARTMENT OF MECHANICAL ENGINEERING

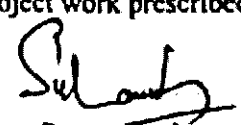


CERTIFICATE

Certified that the project work entitled "DESIGN & CONSTRUCTION OF AIR COMPRESSED VEHICLE WITH INTEGRATION OF RADIO CONTROL " Is a bonafide work carried out by MOHAMMED YAHYA ADIL (IMV19ME033), SATYANARAYANA (IMV19ME053), SHUBHAM ANAND (IMV19ME055), SHUBHAM KUMAR (IMV19ME057) of Sir M. Visvesvaraya Institute of Technology, Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for Bachelor of Engineering degree.

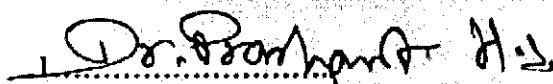
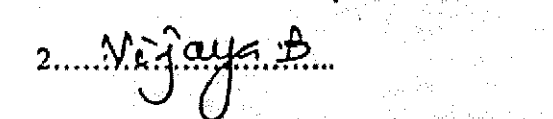

Mr Shivakumar S
Assistant Professor
Dept of Mech. Engg.
Sir MVIT, Bengaluru

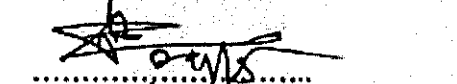
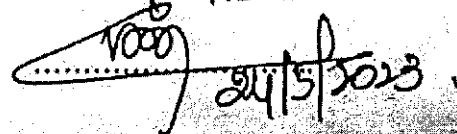

24.5.2023
Dr. K. S. Shanmukharadhya
Professor and Head
Dept of Mech. Engg.
Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunsuramrnahalli, Yelahanka, Bengaluru-562157
Dr. Rakesh S. C.
Principal
Sir MVIT, Bengaluru

Names of the Examiners

Signature with Date

1. 
2. 



24/5/2023

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



A project report on

**DESIGN AND FABRICATION OF SOLAR POWERED MULCH
LAYING MACHINE**

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

CHANDAN B S	1MV19ME012
CHOLARAJU S MOHAN RAJU	1MV19ME014
DHANUSH M P	1MV19ME015
DINAKAR M K	1MV19ME017

Under the Guidance of
Mrs. Asha Rani A
Assistant professor



DEPARTMENT OF MECHANICAL ENGINEERING
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022 - 23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

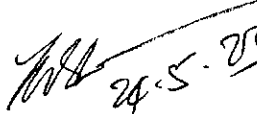
Certified that the project work entitled **"DESIGN AND FABRICATION OF SOLAR POWERED MULCH LAYING MACHINE"** bonafide work carried out by **CHANDAN B S 1MV19ME012, CHOLARAJU S MOHAN RAJU 1MV19ME014, DHANUSH M P 1MV19ME015, DINAKAR M K 1MV19ME017** in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year **2022-2023**. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


Mrs. Asha Rani A

Assistant professor

Mech Engg

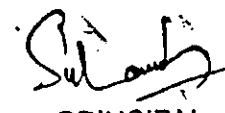
Sir M V I T, Bengaluru


Dr. K S Shanmukharadhya

Professor and Head

Dept of Mech Engg

Sir M V I T, Bengaluru


SIR M. VISVESVARAYA
Krishnadasa
International

Prof. Rakesh S G


PRINCIPAL

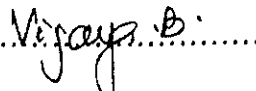
Sir M V I T,

Bengaluru

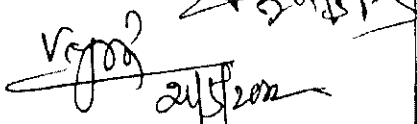
SIR M. VISVESVARAYA
INSTITUTE OF TECHNOLOGY
Basemaranahalli
Bengaluru-562 157

Names of the Examiner

1.  Dr. Prashant H.S.

2.  Vijaya B.

Signature with date


24/5/23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)

Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157

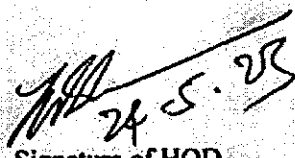
DEPARTMENT OF MECHANICAL ENGINEERING

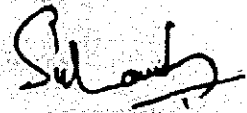


CERTIFICATE

Certified that the project work entitled "Study On Friction Stir Welding Of Aluminium Alloys" carried out by Mr. NITESH NADAGERI, (USN: 1MV19ME041), Mr. VARUN V, (USN: 1MV19ME069), Mr. KEERTHI D, (USN: 1MV20ME406), Mr. RAJATH H V, (USN: 1MV20ME410) a bonafide students of SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, Bengaluru in partial fulfillment for the requirements for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project work report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above-mentioned degree.


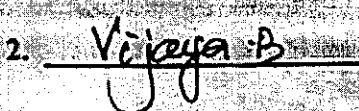

Signature of Guide
Mr. S B HALESH


Signature of HOD
Dr. K S SHANMUKHARADHYA


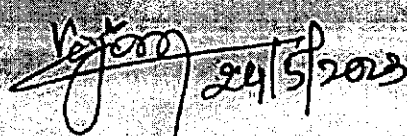

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsar, Bengaluru - 562157
International Airport Road, Bengaluru - 562157
Prof. RAKESH S G

External Viva

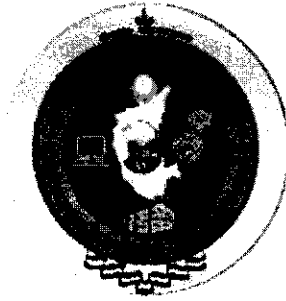
Name of the Examiners:

1. 
2. 

Signature with date


 24/5/2023

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI - 590018**



**Project Report on
“DESIGN & CONSTRUCTION OF AIR COMPRESSED
VEHICLE WITH INTEGRATION OF RADIO CONTROL”**

Submitted in partial fulfillment of the requirements for the award
of Bachelor of
Engineering in
MECHANICAL ENGINEERING

Submitted By

MOHAMMED YAHYA ADIL
SATYANARAYANA
SHUBHAM ANAND
SHUBHAM KUMAR

1MV19ME033
1MV19ME053
1MV19ME055
1MV19ME057

Under the Guidance of
Mr. SHIVAKUMAR S

Assistant Professor, Department of Mechanical Engineering



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY**

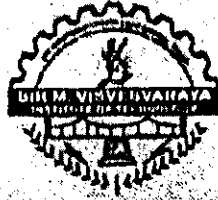
Krishnadeveraya Nagar, Hunasamaranahalli, Yelahanka, Bengaluru, Karnataka 562157

ACADEMIC YEAR: 2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

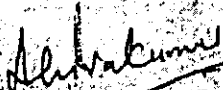
Krishnadevaraya Nagar, Hunsur, Bengaluru, Karnataka 562157


DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

Certified that the project work entitled "DESIGN & CONSTRUCTION OF AIR COMPRESSED VEHICLE WITH INTEORATION OF RADIO CONTROL " is a bonafide work carried out by MOHAMMED YAHYA ADIL (IMV19ME033), SATYANARAYANA (IMV19ME053), SHUBHAM ANAND (IMV19ME055), SHUBHAM KUMAR (IMV19ME057) of Sir M. Visvesvaraya Institute of Technology, Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for Bachelor of Engineering degree.

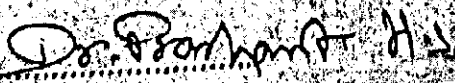

Mr. Shiyakumar S.
Assistant Professor
Dept of Mech. Engg.
Sir MVIT, Bengaluru


24.5.2023
Dr. K. S. Shanmukharadhyayan
Professor and Head
Dept of Mech. Engg.
Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunsur, Bengaluru, Karnataka 562157
Dr. Rakesh S. G.
Principal
Sir MVIT, Bengaluru

Names of the Examiners

Signature with Date


Dr. Ramesh


V. Jayashankar


Dr. Rakesh S. G.
20/5/2023

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



Project Report on

**“MODELLING AND FABRICATION OF SMART-WASTE
SEGREGATION SYSTEM USING IOT”**

**Submitted in partial fulfilment of the requirements for the award
of BACHELOR OF ENGINEERING**

**In
MECHANICAL ENGINEERING**

Submitted By

PRAJWAL K	1MV19ME043
R VINAY KUMAR	1MV19ME048
SHANTA	1MV19ME054
SWAROOP B	1MV19ME066

Under the Guidance of

Mr. JANARDHANA K
Associate Professor
Department of Mechanical Engineering



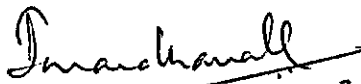
**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157**

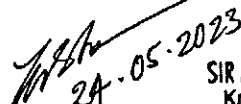
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

Certified that the Project Work [18MEP83] entitled "MODELLING AND FABRICATION OF SMART-WASTE SEGREGATION SYSTEM USING IOT" is a bonafide work carried out by Prajwal K(1MV19ME043), R Vinay Kumar (1MV19ME048), Shanta(1MV19ME054) and Swaroop B(1MV19ME066) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering Degree.


Mr. JANARDHANA K.
Associate Professor
Sir MVIT, Bengaluru

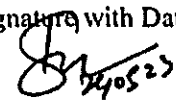
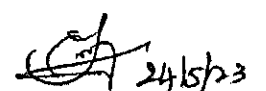

24.05.2023
Dr. K S Shanmukharadhy
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunasamaranahalli
Bengaluru - 562157
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. Dr. H.S. Yeshwantha
2. Dr. B.S. PRAVEEN KUMAR

Signature with Date


24/5/23

24/5/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-
590018**



**Project Report on
"DESIGN AND FABRICATION OF CONTACTLESS EDDY BRAKING SYSTEM"**

**Submitted in partial fulfillment of the requirements for the award of degree
BACHELOR OF ENGINEERING**

**In
MECHANICAL ENGINEERING**

Submitted by

**ALOK RAJESH JHA
HEMANTH B M
KUMAR SHIVAM
SOURABH C PANCHAL**

**1MV19ME004
1MV19ME022
1MV19ME030
1MV19ME061**

Under the Guidance of

**DR. G. BALAKUMAR
Associate Professor
Department of Mechanical Engineering
Sir MVIT, Bengaluru**



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022-2023**

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



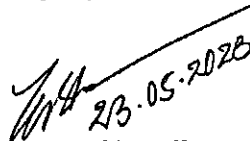
CERTIFICATE

Certified that the project work entitled "DESIGN AND FABRICATION OF CONTACTLESS EDDY BRAKING SYSTEM" is bonafide work carried out by Alok Rajesh Jha bearing USN (1MV19ME004), Hemanth B M bearing USN (1MV19ME022), Kumar Shivam bearing USN (1MV19ME030) and Sourabh C Panchal bearing USN (1MV19ME061) in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.



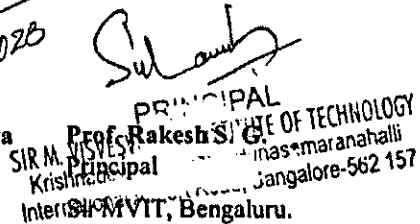
Dr G. Balakumar
Associate Professor

Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.




23.05.2023

Dr. K. S. Shanmukharadhya
Professor & HOD

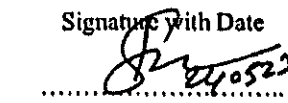
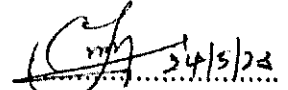
Dept. of Mechanical Engg.
Sir MVIT, Bengaluru .


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishtnagalli, Bangalore-562 157
Internal Assessment, Sir MVIT, Bengaluru.

Names of the Examiners

- 1) 
- 2) 

Signature with Date


23/05/23

24/5/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



A project report on

**FABRICATION OF MACHINE TO CONVERT PLASTIC TO
OIL THROUGH PYROLYSIS PROCESS**

Submitted in partial fulfillment of the requirements for the award of

Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

**RAVI B K 1MV18ME066
CHANDRASHEKHARA A E 1MV19ME013
SURAJA 1MV19ME065
V.VIGNESH 1MV19ME068**

**Under the Guidance of
Mrs. Veena B G
Assistant professor**



**DEPARTMENT OF MECHANICAL ENGINEERING
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU**

Academic year: 2022 - 23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY


BENGALURU-562157

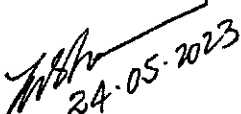
DEPARTMENT OF MECHANICAL ENGINEERING

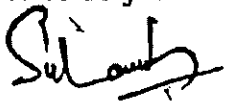


CERTIFICATE

Certified that the project work entitled FABRICATION OF MACHINE TO CONVERT PLASTIC TO OIL THROUGH PYROLYSIS PROCESS bonafide work carried out by SURAJ A (1MV19ME065), V. VIGNESH (1MV19ME068), CHANDRASHEKHARA A E (1MV19ME013), RAVI B K (1MV18ME066) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


Mrs. VEENA B G
Assistant Professor
Sir MVIT, Bengaluru


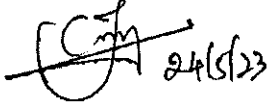

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya : Unasamaranahalli
International Airport Road, Bangalore-562 157
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. Dr. H. S. Yeshwantha
2. Dr. B. S. PRAVEEN Kumar

Signature with Date


24/5/23

24/5/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



Project Report On

“DRIVER DROWSINESS DETECTOR”

**Submitted in partial fulfillment of the requirements for the award
of Bachelor of Engineering**

in

MECHANICAL ENGINEERING

Submitted By

NANDAN T N

NIKHIL AJ

RIDU VARSHINI N

SIDHARTH VENUGOPAL

1MV19ME035

1MV19ME038

1MV19ME051

1MV19ME060

**Under the Guidance of
DR. K. S. Shanmukharadhy
Department of Mechanical Engineering
Sir MVIT Bengaluru-562157.**



Estd.1986

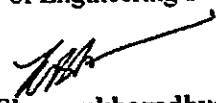
**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

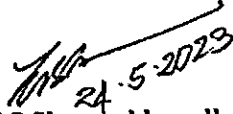
**SIR M VISVESVARAYA INSTITUTE OF
TECHNOLOGYBENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

Certified that the Project Work [18ME P83] entitled "DRIVER DROWSINESS DETECTOR" is a bonafied work carried out by Nandan T N(1MV19ME035), Nikhil AJ (1MV19ME038), Ridu Varshini N(1MV19ME051), Sidharth Venugopal(1MV19ME060) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022-23. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report have been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.


Dr.K.S.Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT,Bengaluru


24.5.2023
Dr.K.S.Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT,Bengaluru

Dr. Rakesh S G
Principal
Sir MVIT
Bengaluru

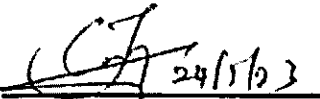
Name of the Examiners

Signature with Date

1. Dr. H.S. Yeshwatha


24/5/23

2. Dr. B.S. Perveen K. M.


24/5/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI



Project Report on

**“SYNTHESIS AND CHARECTERIZATION OF
NANOMATERIALS FOR AUTOMOTIVE INDUSTRY”**

Submitted in partial fulfillment of the requirements for the award of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted by

SUDEEP V R - 1MV19ME062

BALARAJU K - 1MV20ME400

BHARATH T S - 1MV20ME401

DRAKSHAYINI - 1MV20ME403

Under the Guidance of

Mr. Sampath Kumar L

Assistant Professor

Department of Mechanical Engineering



DEPARTMENT OF MECHANICAL ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY,

BENGALURU

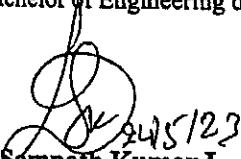
Academic year: 2022-23

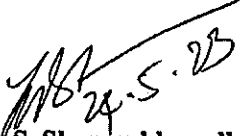
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project entitled "SYNTHESIS AND CHARACTERIZATION OF NANOMATERIAL FOR AUTOMOTIVE INDUSTRY" is a bonafied work carried out by, SUDEEP V R [1MV19ME062], BALARAJU K [1MV20ME400], BHARATH T S [1MV20ME4001], DRAKSHAYINI [1MV20ME403] are student of VIII Semester in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering at Sir M Visvesvaraya Institute of Technology, Bengaluru during the year 2022-2023 has successfully submitted the report. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Technical Seminar Report has been approved as it satisfies the academic requirements in respect of Project Phase-2 (18MEP83) prescribed for the Bachelor of Engineering degree.


Mr. Sampath Kumar L.
Assistant Professor
Dept. of Mech Engg.
Sir MVIT, Bengaluru.

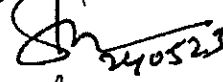
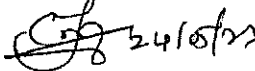

Dr. K. S. Shanmukharadhya
Professor & HOD
Dept. of Mech Engg.
Sir MVIT, Bengaluru .

Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru.

Names of the Examiners

1. Dr. H. S. Yashwantha
2. Dr. B. S. Praveen Kumar

Signature with Date

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590018, KARNATAKA, INDIA**



**Project Report on
STUDY AND ANALYSIS OF EFFECT TOOL
PROFILE ON FRICTION STIR WELDING**

Submitted in partial fulfilment of the requirements

For the award of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

BASAMMA.H	1MV19ME010
CHANDRUKUMAR H V	1MV20ME402
KANTEPPA	1MV20ME405
MAHESH AINAPURE	1MV20ME407

Under the Guidance of

Mr. CHANDRASEKHAR B

Assistant Professor

Department of Mechanical Engineering



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157, KARNATAKA, INDIA**


Academic Year: 2022-23

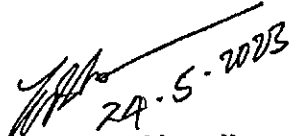
**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157, KARNATAKA, INDIA
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

This is to certify that the project work entitled **STUDY AND ANALYSIS OF EFFECT OF TOOL PROFILE ON FRICTION STIR WELDING** is bonafide work carried out by **BASAMMA.H (1MV18ME010), CHANDRU KUMAR (1MV20ME402), KANTEPPA (1MV20ME405), MAHESHAINAPURE (1MV20ME407)** in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Phase-2 (18MEP83) prescribed for the Bachelor of Engineering degree.


Mr. Chandrasekhar B
Assistant Professor
Sir MVIT, Bengaluru

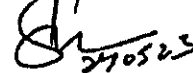

Dr. K S Shanmukharadhy
Professor and Head of
Mech Dept, Sir MVIT, Bengaluru

Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

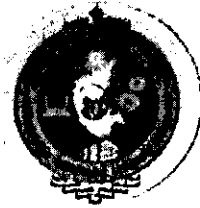
1. Dr. H. S. Yethwanth
2. Dr. G. S. Prasad Kumar

Signature with Date


27/05/23


24/5/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI**



Project Report on

“IMPLEMENTATION OF ROCKER BOGIE MECHANISM IN AGRICULTURE”

Submitted in partial fulfilment of the requirements for the award of degree

BACHELOR OF ENGINEERING

In

DEPARTMENT OF MECHANICAL ENGINEERING

Submitted by

HARSHIT RAI

1MV19ME020

MOHAN M G

1MV19ME034

NAVEEN RAJ PANDEY

1MV19ME037

NISHANTH KUMAR M

1MV19ME040

Under the guidance of

Mr. RAMESH C G

Assistant Professor

Department of Mechanical Engineering

SIR MVIT



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU**

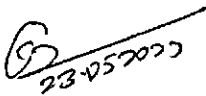
Academic year: 2022-2023

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING

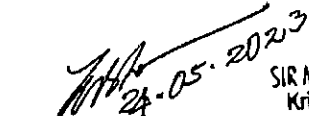


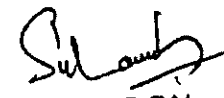
CERTIFICATE

Certified that the project work entitled "ROUGH TERRAIN VEHICLE USING ROCKER BOGIE MECHANISM" is bonafide work carried out by HARSHIT RAI bearing USN (1MV19ME020), MOHAN M G bearing USN (1MV19ME034), NAVEEN RAJ PANDEY bearing USN (1MV19ME037) and Nishanth Kumar M bearing USN (1MV19ME040) in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


23-05-2023

Mr. Ramesh C G
Assistant Professor
Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.


24-05-2023
Dr. K. S. Shanmukharadhya
Professor & HOD
Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.


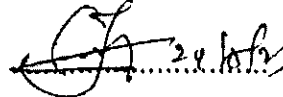

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsur, Bangalore-562 157
Prof. Rakesh S. G.
Principal
Sir MVIT, Bengaluru.

Names of the Examiners

1) 

2) 

Signature with Date


24/05/23

24/05/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



**Report On
“MULTI-SOURCE RENEWABLE ENERGY HARVESTING
FROM HIGHWAY TRAFFIC”**

**Submitted in partial fulfillment of the requirements for the award
of Bachelor of Engineering
in
MECHANICAL ENGINEERING
Submitted By**

**AMAN SINGH
ASHISH KUMAR MISHRA
DHANUSH N REDDY
R HRITHIK REDDY**

**1MV19ME005
1MV19ME007
1MV19ME016
1MV19ME047**

**Under the Guidance of
Dr. V. Shantha
Professor
Department of Mechanical Engineering
Sir MVIT Bengaluru-562157.**



Estd. 1986


**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

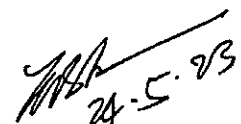
**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

Certified that the Project Work entitled "MULTI-SOURCE RENEWABLE ENERGY HARVESTING FROM HIGHWAY TRAFFIC" is a bonafide work carried out by Aman Singh (1MV19ME005), Ashish Kumar Mishra (1MV19ME007), Dhanush N Reddy (1MV19ME016) and R Hrithik Reddy (1MV19ME047) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering Degree.


Dr. V. Shantha
Professor
Dept. of Mech. Engg.
Sir MVIT, Bengaluru

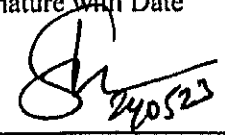

Dr. K. S. Shanmukharadhya
Professor and Head
Dept. of Mech. Engg.
Sir MVIT, Bengaluru

Prof. Rakesh S. G.
Principal
Sir MVIT,
Bengaluru

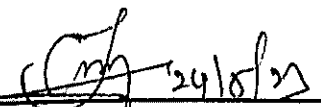
Name of the Examiners

Signature with Date

1. Dr. H. S. Yeshwantha


24/5/23

2. Dr. B. S. Praveen Kumar


24/5/23

1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

590018



Major Project report on

CRUDE OIL EXTRACTION FROM PLASTIC

Submitted in partial fulfillment of the requirements for the award of

Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

GOKUL RAJ SM

1MV19ME018

SANKETH SHINDE

1MV19ME026

HASEEB UR RAHMAAM

1MV19ME021

SAKET GARG

1MV19ME052

Under the Guidance of
Mr. Kumar Swamy R

Assistant professor, Department of Mechanical Engineering



DEPARTMENT OF MECHANICAL ENGINEERING

Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU

Academic year: 2022 - 2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled **CRUDE OIL EXTRACTION FROM PLASTIC** bonafide work carried out by **GOKUL RAJ SM(1MV19ME018), HASEEB UR RAHMAN(1MV19ME021), SANKETH SHINDE (1MV19ME026), SAKET GARG (1ME19ME052)** in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year **2022-2023**. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

Mr. Kumar Swamy R
Assistant professor
Mech Engg
Sir M V I T, Bengaluru

Dr. K S Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir M V I T, Bengaluru

Prof. Rakesh S G
PRINCIPAL
Sir M V I T, Bengaluru

Names of the Examiner

1. **Dr. H.S. Yelshvambha**

2. **Dr. N. S. Perera Kumar**

Signature with date

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018, KARNATAKA, INDIA**



**Project Report on
SOLAR POWERED SMART AIR PURIFIER WITH
AIR QUALITY MONITOR**

Submitted in partial fulfillment of the requirements

for the award of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

K SHASHIDHAR

1MV19ME027

PRADEEP SADANAND BIDARI

1MV19ME042

PRASHANTH

1MV19ME044

RAKESH R

1MV19ME050

Under the Guidance of

Mr. H S YESHVANTHA

Assistant Professor

Department of Mechanical Engineering



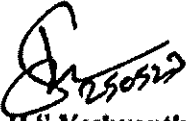
**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157, KARNATAKA, INDIA
Academic Year: 2022-23**

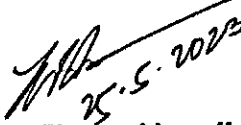
**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157, KARNATAKA, INDIA
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

This is to certify that the project work entitled "SOLAR POWERED SMART AIR PURIFIER WITH AIR QUALITY MONITOR" is bonafide work carried out by K SHASHIDHAR(1MV19ME027), PRADEEP SADANANBIDARI(1MV19ME042), PRASHANTH(1MV19ME044), RAKESH R(1MV19ME050) in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work Phase-2 (18MEP83) prescribed for the Bachelor of Engineering degree.


Mr. H S Yeshvantha
Assistant Professor
Sir MVIT, Bengaluru

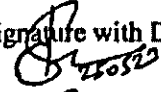
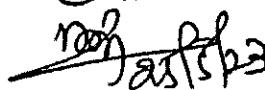

Dr. K S Shanmukharadhya
Professor and Head of
Mech Dept, Sir MVIT, Bengaluru

Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. Dr. H.S. Yeshvantha
2. Vijaya B

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-590018



Project Report on

**DESIGN AND ANALYSIS OF THE ANTI POLE BAR OF
FORMULA VEHICLE**

**Submitted in partial fulfillment of the requirements for the award of degree
BACHELOR OF ENGINEERING**

In

MECHANICAL ENGINEERING

Submitted by

AYUSH VISHAVKARMA

1MV19ME009

TINKU RAJ KUMAR

1MV19ME031

RAJAT POKALE

1MV19ME049

Under the Guidance

of

MR. K MADHUKUMAR

**Assistant Professor Department of Mechanical Engineering
Sir MVIT, Bengaluru**



DEPARTMENT OF MECHANICAL ENGINEERING

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU

Academic year: 2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "DESIGN AND ANALYSIS OF ANTI-ROLL BAR OF FORMULA VEHICLE" is bonafide work carried out by AYUSH VISHAVKARMA bearing USN (1MV19ME009), TINKU RAJ KUMAR bearing USN (1MV19ME031), RAJAT POKALE bearing USN (1MV19ME049) in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

Mr. K. Madhukumar
Assistant Professor

Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.

24.05.2023

Dr. K. S. Shanmukharadhya
Professor & HOD

Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.

Prof. Rakesh S. G.
Principal

Sir MVIT, Bengaluru.

Names of the Examiners

1) Dr. H. S. Yeshwantha

2) Dr. B. S. Praveen Kumar

Signature with Date

24/05/23
24/5/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI



**A Project Report On
MEMs: DESIGNING &
SIMULATING HIGH SENSITIVITY PIEZOELECTRIC BASED
ACCELEROMETER**

Submitted in partial fulfillment of the requirements for the award
of

**BACHELOR OF ENGINEERING
IN**

MECHANICAL ENGINEERING

Submitted By

AMAN SINGH

1MV19ME005

ASHISH KUMAR MISHRA

1MV19ME007

AYUSH VISHAVKARMA

1MV19ME009

RAJAT POKALE

1MV19ME049

Under the Guidance Of
Dr. Chethan D
Assistant Professor
Department Of Mechanical Engineering



**DEPARTMENT OF MECHANICAL ENGINEERING SIR M
VISVESVARAYA INSTITUTE OF TECHNOLOGY,
Krishnadevarayanagar, Hunasamaranahalli, Bengaluru-562157 Academic Year: 2022-23**


SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BENGALURU-
562157

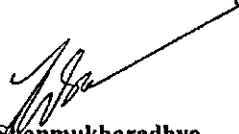
DEPARTMENT OF MECHANICAL ENGINEERING

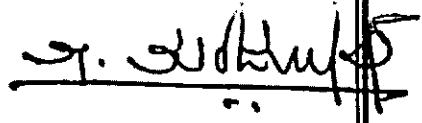


CERTIFICATE


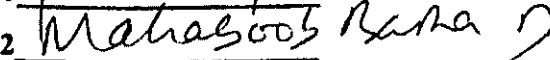
Certified that the project work entitled **MEMs: DESIGNING & SIMULATING HIGH SENSITIVITY PIEZOELECTRIC BASED ACCELEROMETER** is a bonafide work carried out by **AMAN SINGH (1MV19ME005), ASHISH KUMAR MISHRA (1MV19ME007), AYUSH VISHAVKARMA (1MV19ME009), RAJAT POKALE (1MV19ME049)** in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2020-2021. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

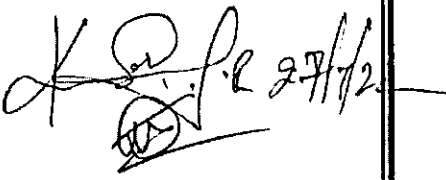

Dr. Chetkand
Professor
Sir MVIT, Bengaluru


Dr K S Shanmukharadhya
Professor and Head of
Mech Dept, Sir MVIT, Bengaluru


Dr V R Manjunath
Principal
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore 562157.

Name Of the Examiners

1. 
2. 


Signature with Date



**Sir M. Visvesvaraya Institute of Technology,
Bengalore-562157**

**Department of Mechanical Engineering
Internship Batch List**

SL	USN	NAME	Company
1	1MV18ME066	RAVI B K	GTTC BANGALORE
2	1MV18ME095	SANGAMESH	TAKE IT SMART
3	1MV19ME001	AAKASH MISHRA	NISAAN AUTOMOBILE
4	1MV19ME002	ADITYA SOMVANSHI	HAL,BANGALORE
5	1MV19ME003	ADNAAN TAWHEED JAMEEL	HAL,ARDC,BANGALORE
6	1MV19ME004	ALOK RAJESH JHA	PIXAFLIP, TECHNOLOGY,PUNE
7	1MV19ME005	AMAN SINGH	BHARAT ALUMINIUM COMPANY LTD.
8	1MV19ME006	ARFAAN TAWHEED JAMEEL	HINDUSTAN AERONAUTICS LIMITED
9	1MV19ME007	ASHISH KUMAR MISHRA	SOLID STATE PHYSICS LABORATORY,DELHI
10	1MV19ME008	AYUSH KUMAR	HINDUSTAN AERONAUTICS LIMITED
11	1MV19ME009	AYUSH VISHAVKARMA	SHAHUL AUTOMOTIVES ,PVT LMTD,JAMMU
12	1MV19ME010	BASAMMA H	L & T, BANGALORE
13	1MV19ME011	BS SRI SUMUKHA	HINDUSTAN AERONAUTICS LIMITED
14	1MV19ME012	CHANDAN B S	DIESEL LOCO SHED, KRISHNARAJAPURAM, SOUTH WESTERN RAILWAY
15	1MV19ME013	CHANDRASHEKHARA A E	SIDDI VINAYAKA FAB ENGINEERING WORKS PVT. LIM
16	1MV19ME014	CHOLARAJU S MOHAN RAJU	SIDDHI VINYAKA FAB ENGG PRIVATED LMTD
17	1MV19ME015	DHANUSH M P	DIESEL LOCO SHED KRISHNARAJAPURAM97- 560036
18	1MV19ME016	DHANUSH N REDDY	BHARAT ELECTONICS LIMITED
19	1MV19ME017	DINAKAR M K	HIGH TEMP FURNACES PVT LTD

20	1MV19ME018	GOKUL RAJ SM	HINDUSTAN AERONAUTICS LIMITED
21	1MV19ME019	HANU YADAV	HINDUSTAN AERONAUTICS LIMITED
22	1MV19ME020	HARSHIT RAI	DRDO
23	1MV19ME021	HASEEB UR RAHMAN	TAKE IT SMART
24	1MV19ME022	HEMANTH B M	COMPSOFT TECHNOLOGIES
25	1MV19ME023	HITESH R	HAL-HELICOPTER DIVISION
26	1MV19ME024	HRITHIK B N	DIESEL LOCO SHED,K R PURAM,BANGALORE
27	1MV19ME025	JAYASURYA K S	DIESEL LOCO SHED,K R PURAM,BANGALORE
28	1MV19ME026	K SANKETH SHINDE	HAL, BANGALORE
29	1MV19ME027	K SHAHSIDHARA	TAKE IT SMART PVT. LTD
30	1MV19ME028	KARTHIK D PATIL	VARCONS TECHNOLOGIES, PVT LMTD
31	1MV19ME029	KARTHIK R	HAL-ARDC
32	1MV19ME030	KUMAR SHIVAM	FRENCHSEASE
33	1MV19ME031	M TINKU RAJ KUMAR	INTEGRAL COACH FACTORY
34	1MV19ME032	MARUTHI P K	TAKE IT SMART (OPC) PVT.LTD
35	1MV19ME033	MOHAMMED YAHYA ADIL	AIRCRAFT RESEARCH AND DESIGN CENTRE
36	1MV19ME034	MOHAN M G	HINDUSTAN AERONAUTICS LIMITED
37	1MV19ME035	NANDAN T N	LAMBHORGINI BENGALURU
38	1MV19ME036	NAVEEN D	SIDDHI VINAYAKA FAB ENGINEERING PRIVATE LIMITED
39	1MV19ME037	NAVEEN RAJ PANDEY	CHAMPARAN TEA & INDUSTRIES PVT LTD
40	1MV19ME038	NIKHIL AJ	HAL, BANGALORE
41	1MV19ME039	NIKITA SINGH	OALCADEMY
42	1MV19ME040	NISHANTH KUMAR M	SIR MECCANICA SERVICE INDIS PVT. LTD.
43	1MV19ME041	NITESH NADAGERI	HMT MACHINE TOOLS LIMITED
44	1MV19ME042	PRADEEP SADANAND BIDARI	TAKE IT SMART, PVT LMTD,BENGALURU

45	1MV19ME043	PRAJWAL K	ULTRATECH CEMENT LIMITED ,UNIT :RAJASHREE CEMENT WORKS
46	1MV19ME044	PRASHANTH	ULTRATECH CEMENT LIMITED ,UNIT :RAJASHREE CEMENT WORKS
47	1MV19ME045	PRUTHVI GOWDA V	HUNDUSTAN AERONATICS LIMITED, HELICOPTER DIVISION
48	1MV19ME046	PUNEETH S	SIDDHI VINAYAK FAB ENGINEERING
49	1MV19ME047	R HRITHIK REDDY	SOLID STATE PHYSICS LABORATORY
50	1MV19ME048	R VINAY KUMAR	DIESEL LOCO SHED, K R PURAM
51	1MV19ME049	RAJAT KUMAR POKALE	BHARAT ALUMINUM COMPANY, KORBA
52	1MV19ME050	RAKESH R	HAL,BANGALORE
53	1MV19ME051	RIDU VARSHINI N	L&T CONSTRUCTION EQUIPMENT LTD
54	1MV19ME052	SAKET GARG	
55	1MV19ME053	SATYANARAYANA	TAKE IT SMART PVT (OPC) LTD
56	1MV19ME054	SHANTA	HINDUSTAN MACHINE TOOLS LIMITED
57	1MV19ME055	SHUBHAM ANAND	TATA STEEL LMTD
58	1MV19ME057	SHUBHAM KUMAR	HARMONIZIER,PVT LMTD
59	1MV19ME058	SHUBHAM KUMAR JHA	HAL BANGALORE
60	1MV19ME059	SIDDHARTH SHIVAKUMAR HASAVIMATH	HAL BANGALORE
61	1MV19ME060	SIDHARTH VENUGOPAL	L & T LIMITED
62	1MV19ME061	SOURABH C PANCHAL	COMPSOFT TECHNOLOGIES
63	1MV19ME062	SUDEEP V R	HAL BANGALORE
64	1MV19ME063	SUDHAMSHU A C	HINDUSTAN AERONAUTICS LIMITED, HELICOPTER DIVISION
65	1MV19ME064	SUHAS S	HAL BANGALORE
66	1MV19ME065	SURAJ A	DIESEL LOCO SHED, K R PURAM
67	1MV19ME066	SWAROOP B	GOVERNMENT TOOLS & TRAINING CENTRE
68	1MV19ME067	TARUN R	DIESEL LOCO SHED

69	1MV19ME068	V VIGNESH	DIESEL LOCO SHED KRISHNARAJAPURAM,SOUTH WESTERN RAILWAYS
70	1MV19ME069	VARUN V	HAL -HELICOPTER DIVISION
71	1MV19ME070	VINAYAK TEVARANNAVAR	DIESEL LOCO SHED
72	1MV20ME400	BALARAJU K	SPACENEX AERO PVT LMTD
73	1MV20ME401	BHARATH T S	TAKE IT SMART
74	1MV20ME402	CHANDRU KUMAR H V	SIDDHIVINAYAKA FAB ENGG LMTD
75	1MV20ME403	DRAKSHAYINI	GOVERNMENT TOOL ROOM AND TRAINING CENTRE
76	1MV20ME404	EKANTH P MOHITHE	HMT MACHINE TOOLS LIMITED
77	1MV20ME405	KANTEPPA	TAKE IT SMART
78	1MV20ME406	KEERTHI D	TAKE IT SMART
79	1MV20ME407	MAHESH AINAPURE	TAKE IT SMART
80	1MV20ME408	PREMSAGAR G	BEML
81	1MV20ME409	PUNEETH N	KOLAR-CHIKKABALLAPURA COOPERATIVE MILK PRODUCERS SOCIETIES UNION LIMITED (KMF)
82	1MV20ME410	RAJATH H V	HMT MACHINE TOOLS LIMITED
83	1MV20ME411	VAMSHI V	KOLAR-CHIKKABALLAPURA COOPERATIVE MILK PRODUCERS SOCIETIES UNION LIMITED

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgavi-590 018, Karnataka, India



An Internship Report
On

Manual Transmission Design

Submitted in Partial Fulfillment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted By

AAKASH MISHRA

USN: 1MV19ME001

Carried out at

Nissan Shuhul Ltd, Jammu

Under the Guidance of

Internal Guide

Mr. K Ejaz Ahmed
Associate Professor
Dept. Of ME, SMVIT

External Guide

Mr. Navneet Singh
Sr Service Manager
Nissan Automobile



Estd. 1988

Department of Mechanical Engineering

Sir M Visvesvaraya Institute of Technology

[Affiliated to Visvesvaraya Technological University, Belgaum]

Bengaluru-562157

2022-2023

Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]

Bengaluru-562157

2022-2023



CERTIFICATE

Certified that the Internship Report entitled "**MANUAL TRANSMISSION DESIGN**" carried out by **Mr. AAKASH MISHRA** bearing USN: 1MV19ME001 a Bonafide student of Sir M Visvesvaraya Institute of Technology in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for INTERNSHIP have been executed under the directions of **Mr. K Ejaz Ahmed**. The report has been approved as it satisfies the academic requirements in respect of INTERNSHIP prescribed for the said degree.

Signature of Guide

Mr. K Ejaz Ahmed
Associate Professor
Dept of ME
SIR MVIT

Signature of HOD

Dr. K S Shanmukharadhya
HOD and Professor
Dept of ME
SIR MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsar, Maranahalli
International Airport Road, Bengaluru-562 157

Prof. Rakesh S G
Principal
SIR MVIT

Names of the Examiners

1)

2)

Signature with Date

25/5/23

.....

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



**VIII Semester B.E. Internship Report on
DIFFERENT PARTS DESIGN AND MAUFACTURING OF
LCA TEJAS FIGHTER JET IN ARDC DIVISION (HAL)**

**Submitted in partial fulfillment of the requirements for the award of degree of Bachelor
of Engineering**

**In
MECHANICAL ENGINEERING by
ADITYA SOMVANSHI (1MV19ME002)**

Under the Guidance Of

**External Guide:
Mr. Ashok Thayagarajan
Manager-ARDC
Hindustan Aeronautics Limited (HAL)
Bangalore**

**Internal Guide:
Mr. Prashanth L
Assistant Professor
Mechanical Department
Sir MVIT Bangalore**

**Carried out at
Hindustan Aeronautics Limited (HAL) - Aircraft Research and Design
Center (ARDC)
Bangalore - 560037**



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru**

Academic Year: 2022-23

**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU**

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Internship Report entitled " DIFFERENT PARTS DESIGN AND MANUFACTURING OF LCA TEJAS FIGHTER JET IN ARDC." submitted by **ADITYA SOMVAMSHI** bearing (USN-1MV19ME002) is a bonafide work carried out in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of **Sir M Visvesvaraya Institute Of Technology** during academic year 2022-23. It is certified that contents of the report have been incorporated as per the guidelines of the university. The internship report has been approved as it satisfies the academic requirements in respect of Internship Report prescribed for the Bachelor of Engineering Degree.


25/05/23

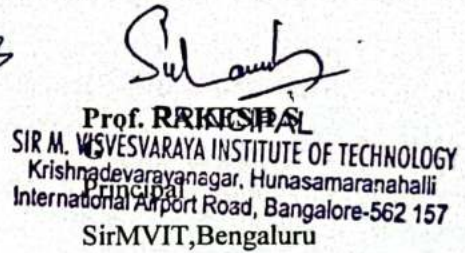
Mr. PRASHANTH L

Assistant Professor
SirMVIT,Bengaluru


25.5.23

Dr. K S Shanmukharadhy

Professor and HOD Mechanical,
SirMVIT,Bengaluru


25/5/23
Prof. RAKESH
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157
SirMVIT,Bengaluru

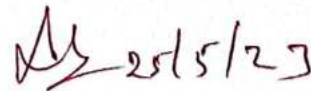
Name of the Examiners:

1. **Avanasha. P S**

2. **Shivakumar**

Signature with date


25/5/23


25/5/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belagavi - 590 018, Karnataka, India



INTERNSHIP REPORT
ON
"LCA DESIGN AND DEVELOPMENT"

Submitted in partial fulfillment of the requirements for the award of the Degree

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted by

ADNAAN TAWHEED JAMEEL USN: 1MV19ME003

Internship carried out at

**HINDUSTAN AERONAUTICS
LIMITED**

BENGALURU, 560037

INTERNAL GUIDE

M. K. EJAZ AHMED
ASSOCIATE PROFESSOR
DEPARTMENT OF
MECHANICAL
ENGINEERING.

EXTERNAL GUIDE

Mr. ALEX GEORGE
DGM
HAL, ARDC,
BENGALURU-560037



DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya nagar, Hunasamaranahalli, Bengaluru -562157

ACADEMIC YEAR: 2022 - 2023

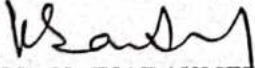
SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY BENGALURU-562157

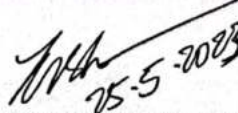
Department of Mechanical Engineering




CERTIFICATE

This is to certify that **ADNAAN TAWHEED JAMEEL**, a bonafide student of **SIR M. Visvesvaraya Institute of Technology, Bengaluru** has satisfactorily completed Industrial training from **HINDUSTAN AERONAUTICS LIMITED**. In partial fulfillment of the requirements as prescribed by the VTU for the award of **Bachelor of Engineering in Mechanical Engineering** has submitted this report during the academic year **2022 – 2023**.



Mr. K. EJAZ AHMED
Associate Professor
Dept. of Mechanical
Engineering.
Sir MVIT Bengaluru


Dr. K S SHANMUKHARADHYA
Professor and HOD
Dept. of Mechanical Engineering.
Sir MVIT Bengaluru

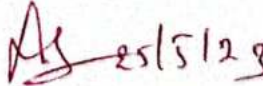

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hosur Road, Mahalingapuram, Bengaluru-562157
SIR MVIT
Bengaluru

Name of the Examiners

Signature with Date

1. 

1.

 25/5/23

2.

2.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Juana Sangma, Belagavi-590018



INTERNSHIP REPORT

ON

"Granted Ashram School"

Submitted in partial fulfillment of the requirements for the award of degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

For the Academic Year 2022-23

Submitted by:

ALOK JHA

(1MV19ME004)

Internship carried out at

PIXAFLIP TECHNOLOGIES

PUNE – 411019

Under the guidance of:

Dr G. Balakumar

Associate Professor, Dept. of
ME Sir MVIT, Bengaluru

MR. SAUDAGAR BARDE

CEO,
Pixaflip Technologies, Pune



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
HUNASAMARANAHALLI, BENGALURU - 562157**

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU -562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "WEB DEVELOPMENT" is a bonafide work carried out by Mr. Alok Jha (1MV19ME004) in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the course of Bachelor of Engineering.

Dr G. Balakumar.
Associate Professor
Dept. of ME, Sir MVIT

24.5.2023

Dr. K. S. Shanmukharadhya
Head of Dept
SIR MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157
Prof. Rakesh S G
Principal

Name of the Examiners

Signature with date

1) Dr. SACHUDHANANDAN. S

2) B. H. H. H.

25/05/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



Internship Report On

**"Hands-On Experience in Industrial Operations at
BALCO"**

Submitted in partial fulfillment of the requirements for the award
of Bachelor of Engineering
in
MECHANICAL ENGINEERING

Submitted By
Aman Singh
1MV19ME005

Under the Guidance of

Internal Guide
Dr. V. Shantha
Professor
Department of Mechanical Engineering
Sir MVIT Bengaluru-562157.

External Guide
Mr. Komal Chandra Soni
SRS Maintenance
Bharat Aluminium Company Limited
Korba Chhatisgarh 495684



Estd. 1986


**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

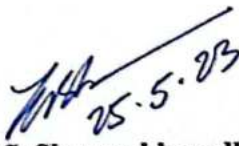
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING

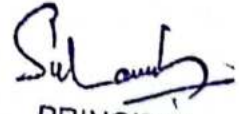


CERTIFICATE

Certified that the Internship report on "Hands-On Experience in Industrial Operations at BALCO" is a bonafide work carried out AMAN SINGH (1MV19ME005), in partial fulfillment for the of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the Bachelor of Engineering Degree.


Dr. V Shantha
Professor
Dept of Mech Engg
Sir MVIT, Bengaluru



Dr. K. S. Shanmukharadhy
Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadavangur, Chasamaranahalli
International Airport Road, Bangalore-562 157
Prof. Rakesh SC
Principal
Sir MVIT,
Bengaluru


Name of the Examiners

Signature with Date

1. Dr. SACHUDHANANDAN.S

 025/05/23

2. Dr. Halim



VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belagavi - 590 018, Karnataka, India



INTERNSHIP REPORT
ON
"LCA DESIGN AND DEVELOPMENT"

Submitted in partial fulfillment of the requirements for the award of the Degree

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted by

ARFAAN TAWHEED JAMEEL USN: 1MV19ME006

Internship carried out at

**HINDUSTAN AERONAUTICS
LIMITED**

BENGALURU, 560037

INTERNAL GUIDE

**M. K. EJAZ AHMED
ASSOCIATE PROFESSOR
DEPARTMENT OF
MECHANICAL
ENGINEERING.**

EXTERNAL GUIDE

**Mr. ALEX GEORGE
DGM
HAL, ARDC,
BENGALURU-560037**



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya nagar, Hunasamaranahalli, Bengaluru -562157**

ACADEMIC YEAR: 2022 - 2023


SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BENGALURU-562157

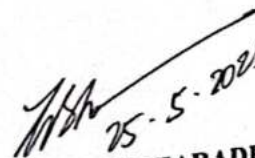
Department of Mechanical Engineering




CERTIFICATE


This is to certify that **ARFAAN TAWHEED JAMEEL**, a bonafide student of **SIR M. Visvesvaraya Institute of Technology, Bengaluru** has satisfactorily completed Industrial training from **HINDUSTAN AERONAUTICS LIMITED**. In partial fulfillment of the requirements as prescribed by the VTU for the award of **Bachelor of Engineering in Mechanical Engineering** has submitted this report during the academic year **2022 – 2023**.


Mr. K. EJAZ AHMED
Associate Professor
Dept. of Mechanical
Engineering
Sir MVIT Bengaluru


Dr. K S SHANMUKHARADHYA
Professor and HOD
Dept. of Mechanical Engineering.
Sir MVIT Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunsur, Bangalore-562 157
DR. RAJESH S G
Principal
SIR MVIT
Bengaluru

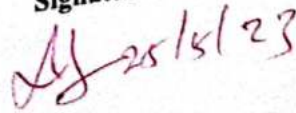
Name of the Examiners

1. 
- 2.

1.

2.

Signature with Date


25/5/23

CERTIFICATE FROM THE INDUSTRY

ಹಿಂದುಸ್ತಾನ ಉಡುಪುಗಳ ಸಂಶೋಧನಾ ಕೇಂದ್ರ (ಎ ಆರ್ ಡಿ ಸಿ)
AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)
ಎಂ.ಎಸ್. ಕಬ್ಬನ್ ರೋಡ್ / ಡಿಸೈನ್ ಕಂಪ್ಲೆಕ್ಸ್
ಬೆಂಗಳೂರು ಅಂತರಾಷ್ಟ್ರೀಯ ವಿಮಾನ ನಿಲ್ದಾಣ
HINDUSTAN AERONAUTICS LIMITED



ಹಿಂದುಸ್ತಾನ ಉಡುಪುಗಳ ಸಂಶೋಧನಾ ಕೇಂದ್ರ, ಒಂಟೆ
ಮಾತೃಹಳ್ಳಿ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 037, ಕರ್ನಾಟಕ
Marathahalli Post, Bengaluru - 560 037, India
E/A / ಟೆಲಿಫೋನ್ / Ph.: 91 - 80 - 2332 4312, 2331 6774
ಫ್ಯಾಕ್ಸ್ / ಫೋನ್ / Fax / 91 - 80 - 2331 4320

D/ARDC/HR/Proj/Cert/6838/22

20.09.2022

CERTIFICATE

This is to certify that Mr. Arfaan Tawheed Jameel (USN No.1MV19ME006) who is a student of B.E (Mechanical), Sir M Visvesvaraya Institute of Technology, Bengaluru, has undergone Internship Training at HAL ARDC, Design Complex, Bengaluru from 24-08-2022 to 20-09-2022 on "No-Pay-No-Fee-Basis". He has been punctual, sincere and committed trainee. His conduct has been found Very Good.

2. The student brings in a lot of energy and enthusiasm in the work, he is structured in his approach and methodical in resolving a problem. He is resourceful and adaptive to working environment.




(Prachi Dalvi)
Manager (HR)
ARDC, Design Complex.

ಹಿಂದುಸ್ತಾನ ಉಡುಪುಗಳ ಸಂಶೋಧನಾ ಕೇಂದ್ರ : 15/1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ
ಬೆಂಗಳೂರು ಕಾರ್ಪೊರೇಷನ್ : 15 /1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ
Registered Office : 15 /1, Cubbon Road, Bengaluru - 560 001, India
A to Z / ಸಿ ಆರ್ ಒ / CTR L35301KA1963GOM1622

www.hal-india.co.in

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgavi-590 018, Karnataka, India



An Internship Report
On

“J-T CRYOCOOLER FOR SPACE & MILITARY APPLICATION”

Submitted in Partial Fulfillment of the requirement for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By

ASHISH KUMAR MISHRA

USN: 1MV19ME007

Carried out at

SSPL DRDO, NEW DELHI

Under the Guidance of

Internal Guide

Dr. V. Shantha

Associate Professor

Dept. Of ME, SMVIT

External Guide

Sh. Shital Kumar Garg

Sc. “E” Cryogenics Department

SSPL, DRDO



Estd 1986



Department of Mechanical Engineering

Sir M Visvesvaraya Institute of Technology

[Affiliated to Visvesvaraya Technological University, Belgaum]

Bengaluru-562157

2022-2023

Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]
Bengaluru-562157
2022-2023



CERTIFICATE

Certified that the Internship Report entitled “J-TCRYOCOOLER FOR SPACE AND MILITARY APPLICATION” carried out by Ashish Kumar Mishra bearing USN: 1MV19ME007 a Bonafide student of Sir M Visvesvaraya Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for INTERNSHIP have been executed under the directions of Dr. V. Shantha. The report has been approved as it satisfies the academic requirements in respect of INTERNSHIP prescribed for the said degree.

Signature of Guide

Dr. V. Shantha
Professor
Dept of ME
SIR MVIT

Signature of HOD

Dr. K S Shanmukharadhya
HOD and Professor
Dept of ME
SIR MVIT

PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157
Signature of Principal

Prof. Rakesh S G
Principal
SIR MVIT

Names of the Examiners

1) DR. SACHUDHANANDAN.S

2) Dr. Hailm

Signature with Date

Dr. P 25/05/23

Dr. P

CERTIFICATE

ISO 9001:2015 Certified

सोसायस्था भौतिकी प्रयोगशाला, दिल्ली
Solid State Physics Laboratory, Delhi



(Min. of Defence, DRDO)
Lucknow Road, Timarpur, Delhi-110054

प्रशिक्षण प्रमाणपत्र / TRAINING CERTIFICATE

This is to certify that Mr./Ms. ASHISH KUMAR MISHRA
Student of Sri. M. V. VESVARAYA INSTITUTE OF TECHNOLOGY Roll No. 1MVI9ME007
Branch MECHANICAL ENGINEERING (R.E) has completed successfully Summer/Winter Internship for
the period from 21 JULY 2022 to 19 SEP 2022 Duration 06 (Six) weeks/months.

Topic of Internship was J-T CRYOCOOLER FOR SPACE
AND MILITARY APPLICATION

During the training period his/her conduct at SSPL was good.

Dr. Manu Khaneja
Scientist F
Gp. Director (HR)
SSPL, DRDO, Delhi 110054
Head-HR

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



**VIII Semester B.E. Internship Report on
“EXPLORING THE ROLES OF ARDC IN THE DESIGN AND
MANUFACTURING OF LCA”**

Submitted in partial fulfillment of the requirements for the award of degree of Bachelor of
Engineering

In
MECHANICAL ENGINEERING

By
**AYUSH KUMAR
1MV19ME008**

Under the Guidance Of

External Guide:

Mr.Ashok Thayagarajan
Manager-ARDC
Hindustan Aeronautics Limited (HAL)
Bangalore

Internal Guide:

Mr.Prashanth L
Assistant Professor, ME
Sir MVIT Bangalore

Carried out at
**Hindustan Aeronautics Limited (HAL) - Aircraft Research and Design
Center (ARDC)
Bangalore -560037**



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru**

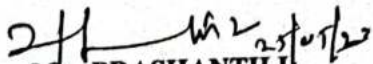
Academic Year: 2022-23

**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU
DEPARTMENT OF MECHANICAL ENGINEERING**



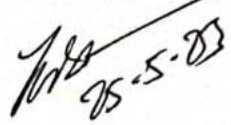
CERTIFICATE

This is to certify that the Internship Report entitled "EXPLORING THE ROLES OF ARDC IN THE DESIGN AND MANUFACTURING OF LCA" submitted by AYUSH KUMAR bearing USN-1MV19ME008 is a bonafide work carried out in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Sir M. Visvesvaraya Institute of Technology during academic year 2022-23. It is certified that all contents of the report have been incorporated as per the guidelines of the university. The internship report has been approved as it satisfies the academic requirements in respect of Internship Report prescribed for the Bachelor of Engineering Degree.


Mr. PRASHANTH L



Assistant Professor
Sir MVIT, Bengaluru

Dr. K S Shanmukharadhy
Professor and HOD Mechanical,
Sir MVIT, Bengaluru



25-5-23

Prof. RAKESH S G
Principal
Sir MVIT, Bengaluru

Name of Examiners

1. 
2. 

Signature with date


25/5/23



D/ARDC/HR/Proj/Cert/6913/22

28.09.2022

CERTIFICATE

This is to certify that **Mr. Ayush Kumar (USN No. 1MV19ME008)** who is a student of B.E (Mechanical), Sir M Visvesvaraya Institute of Technology, Bangalore, has undergone **Internship Training** at HAL ARDC, Design Complex, Bengaluru from 01-09-2022 to 28-09-2022 on **"No-Pay-No-Fee-Basis"**. He has been punctual, sincere and committed trainee. His conduct has been found Good.

2. The student brings in a lot of energy and enthusiasm in the work, he is structured in his approach and methodical in resolving a problem. He is resourceful and adaptive to working environment.



Ramesh K

(Ramesh K)

Chief Manager (HR)
ARDC, Design Complex.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgavi-590 018, Karnataka, India



An Internship Report
On

Manual Transmission Design

Submitted in Partial Fulfillment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted By

AYUSH VISHAVKARMA

USN: 1MV19ME009

Carried out at

Nissan Shuhul Ltd, Jammu

Under the Guidance of

Internal Guide

Mr. Madhu Kumar K.
Assistant Professor
Dept. Of ME, SMVIT

External Guide

Mr. Navneet Singh
Sr Service Manager
Nissan Automobile



Department of Mechanical Engineering

Sir M Visvesvaraya Institute of Technology

[Affiliated to Visvesvaraya Technological University, Belgaum]

Bengaluru-562157

2022-2023

Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]
Bengaluru-562157
2022-2023



CERTIFICATE

Certified that the Internship Report entitled "**MANUAL TRANSMISSION DESIGN**" carried out by **Mr. AYUSH VISHAVKARMA** bearing USN: 1MV19ME009 a Bonafide student of Sir M Visvesvaraya Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for INTERNSHIP have been executed under the directions of Mr. Madhu Kumar K. The report has been approved as it satisfies the academic requirements in respect of INTERNSHIP prescribed for the said degree.

Signature of Guide

Mr. Madhu Kumar
Assistant Professor
Dept of ME
SIR MVIT

Signature of HOD

Dr. K S Shanmukharadhya
HOD and Professor
Dept of ME
SIR MVIT

PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krisi...
International Airport Road, Bangalore-562 157

Prof. Rakesh S G
Principal
SIR MVIT

Names of the Examiners

1) Shivakumar S

2) PRADIPSHAH A.M

Signature with Date

24/5/23

24/5/23

INTERNSHIP CERTIFICATE



Shuhul Automotives Pvt. Ltd.

(Authorised Dealer of Nissan Range of Cars)
National Highway 1, Narwal Bye Pass Road, Opposite Wave Mall
Bathinda, Jammu-181152



TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Ayush Vishavkarma, a student of SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU has undergone an internship in Nissan & Shuhul Ltd. MRV Jammu of this organization as an intern from 22.08.2022 to 17.09.2022.

Mr. Ayush Vishavkarma has successfully completed the project of "Manual Transmission Design".

During the training period, his attendance & conduct was Good.

We wish him Best Wishes for his future Studies & Career.

For Nissan & Shuhul Ltd.


Navneet Singh

Senior Service Manager



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590018, KARNATAKA, INDIA**



**Internship Report On
“L & T CONSTRUCTION EQUIPMENT”**

Submitted in Partial Fulfillment of the requirement for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By:

BASAMMA H

1MV19ME010

Under the Guidance of
Mr. CHANDRASEKHAR B
Dept of Mechanical Engineering
SMVIT Bengaluru-562157

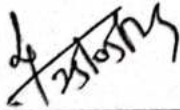


**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562157
Academic Year: 2022-2023**

Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]
Bangaluru-562157
2022-2023

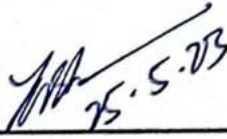
CERTIFICATE

Certified that the Internship [18MEI85] entitled "L & T CONSTRUCTION EQUIPMENT" carried out by Ms. BASAMMA H bearing USN: 1MV19ME010 a Bonafied student of Sir M Visvesvaraya Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internship have been executed under the directions of Mr. CHANDRASEKHAR B. The report has been approved as it satisfies the academic requirements in respect of INTERNSHIP [18MEI85] prescribed for the course of Bachelor of Engineering.



Signature of Guide

Mr. CHANDRASEKHAR B
Assistant Professor
Dept of Mech Engg
SIR MVIT



Signature of HOD

Dr.K.S.Shanmukharadhya
HOD & Professor
Dept of Mech Engg
SIR MVIT



PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562157

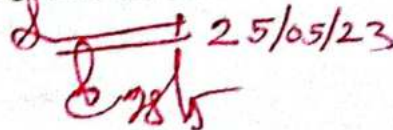
Signature of Principal

Dr. Rakesh S G
Principal
SIR MVIT

Names of the Examiners

1. Dr. SACHIN K. ANANDAN. S
2. Dr. Helmi

Signature with Date



Internship certificate



L&T Construction Equipment

L&T Construction Equipment Limited
Formerly known as LAT Construction Machinery Limited
Survey No. 27/28, Thammashettihalli
Kasaba Hobli, Doddaballapur Taluk
Bengaluru Rural District - 561 203, Karnataka, INDIA
Tel: + 91 80 2217 5100

LTCEL/HR/INTERNSHIP/2022

17-September-2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Basamma (1MV19ME010) of Sir M Visvesvaraya Institute of Technology Bengaluru, has undergone Internship at our Organization from 22-08-2022 to 19-09-2022. During the above period she has completed Internship at L&T Construction Equipment Limited, Doddaballapura.

The Conduct of the Student was found Satisfactory during the Internship.

We wish her all the best for her future endeavors.

for L&T Construction Equipment Limited.

(S D Satish Chandra)
DGM-HR & IR



Registered Office : L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA. www.Larsentoubro.com
CIN: U29248MH2018PLC318481

L&T Construction Equipment Limited is a wholly owned subsidiary of Larsen & Toubro Limited

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belagavi - 590 018, Karnataka, India



**INTERNSHIP REPORT
ON
"LCA DESIGN AND DEVELOPMENT"**

Submitted in partial fulfillment of the requirements for the award of the Degree

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted by

B S SRI SUMUKHA

USN: 1MV19ME011

Internship carried out at

**HINDUSTAN AERONAUTICS
LIMITED**

BENGALURU, 560037

INTERNAL GUIDE

**MR. K. EJAZ AHMED
ASSOCIATE PROFESSOR
DEPARTMENT OF
MECHANICAL
ENGINEERING.**

EXTERNAL GUIDE

**Mr. ALEX GEORGE
DGM
HAL, ARDC,
BENGALURU-560037**



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya nagar, Hunasamaranahalli, Bengaluru -562157**

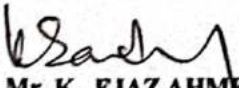
ACADEMIC YEAR : 2022 - 2023

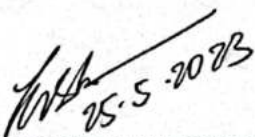
Department of Mechanical Engineering




CERTIFICATE


This is to certify that **B S SRI SUMUKHA**, a bonafide student of **SIR M. Visvesvaraya Institute of Technology, Bengaluru** has satisfactorily completed Industrial training from **HINDUSTAN AERONAUTICS LIMITED**. In partial fulfillment of the requirements as prescribed by the VTU for the award of **Bachelor of Engineering in Mechanical Engineering** has submitted this report during the academic year **2022 – 2023**.


Mr. K. EJAZ AHMED
Associate Professor
Dept. of Mech Engg.
Sir MVIT Bengaluru



Dr. K S SHANMUKHARADHYA
Professor and HOD
Dept. of Mech Engg.
Sir MVIT Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bengaluru-562157
PROF. RAJESH S.G
Principal
SIR MVIT
Bengaluru

Name of the Examiners

1. 
- 2.

Signature with Date

1.  25/5/23
- 2.

CERTIFICATE FROM THE INDUSTRY

ವಿಮಾನ ಅಧ್ಯಯನ ಮತ್ತು ವಿನ್ಯಾಸ ಕೇಂದ್ರ (ಎ ಆರ್ ಡಿ ಸಿ)
AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)
ವಿನ್ಯಾಸ ಸಂಕೀರ್ಣ / ವಿನ್ಯಾಸ ಸಂಕೀರ್ಣ / DESIGN COMPLEX
ಹಿಂದೂಸ್ತಾನ್ ಏವಿಯೇಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
HINDUSTAN AERONAUTICS LIMITED



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ಮಾರಾಠಾಹಳ್ಳಿ ಪುರ, ಬೆಂಗಳೂರು - 560 037, ಭಾರತ
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D/ARDC/HR/Proj/Cert/6838/22

20.09.2022

CERTIFICATE

This is to certify that Mr. B S Sumukha (USN No.1MV19ME011) who is a student of B.E (Mechanical), Sir M Visvesvaraya Institute of Technology, Bengaluru, has undergone Internship Training at HAL ARDC, Design Complex, Bengaluru from 24-08-2022 to 20-09-2022 on "No-Pay-No-Fee-Basis". He has been punctual, sincere and committed trainee. His conduct has been found Very Good.

2. The student brings in a lot of energy and enthusiasm in the work, he is structured in his approach and methodical in resolving a problem. He is resourceful and adaptive to working environment.




(Prachi Dalvi)
Manager (HR)
ARDC, Design Complex.

ದಾಖಲಾತಿ ಕಛೇರಿ : 15/1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ
ಪಂಜಿಕೃತ ಕಾರ್ಯಾಲಯ : 15 /1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ
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www.halindia.co.in

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018



Internship Report on

“BOGIES MAINTENACE OF HHP LOCOS”

Submitted in partial fulfilment of the requirements for the award
of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

CHANDAN B S

IMV19ME012

Internship carried out at

**DIESEL LOCO SHED
KRISHNARAJAPURA-560036**



Under the Guidance of

MRS. ASHA RANI A

Asst. Professor
Department of Mechanical Engineering

SRI. SRINIVAS RAO D

Asst. Divisional Mechanical Engineer
Diesel Loco Shed, Krishnarajapura

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157
Academic year: 2022-23**

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

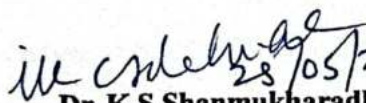
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "**BOGIES MAINTENACE OF HHP LOCOS**" is a bonafide work carried out by **CHANDAN B S (1MV19ME012)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.

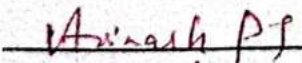
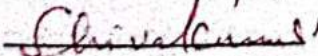

Mrs. Asha Rani A
Assistant Professor
Sir MVIT, Bengaluru


Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru



Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Basavanahalli
International Airport Road, Bangalore-562 157

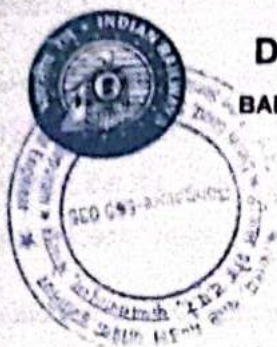
Names of the Examiners

1. 
2. 

Signature with Date


25/5/23

INTERNSHIP CERTIFICATE



DIESEL LOCO SHED, KRISHNARAJAPURAM **BANGALORE DIVISION, BANGALORE-36, SOUTH WESTERN RAILWAY**

CERTIFICATE

This is to certify that the below mentioned student, perusing B.E (Mechanical Engineering) in SIR.M.VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU – 562157 has successfully undergone **internship** in our organization from **August 29, 2022 to September 24, 2022**. During this period he has completed a project entitled **"Study of Diesel HHP Loco Bogle Maintenance"**

CHANDAN. B.S (1MV19ME012)

During this period, his conduct and behavior was found good and he has shown keen interest to learn.

This certificate is solely issued for education purpose to provide industrial exposure to students.

We wish success in his future endeavors.

Date: 24.09.2022
Place: Krishnarajapuram


(YOGESH BHALEKAR)
Sr. Divisional Mechanical Engineer

यश. बाहलक शक्ति इंजीनियर
Sr. Divisional Mechanical Engineer
द.प.३, कृष्णराजपुरम SW Ry Krishnarajapuram
फोन नं. - ०८०२२२२२२२२-२२२२२२२२

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI - 590018



**An Internship Report on
"ORGANIZATION STUDY"**

Submitted in partial fulfilment of the requirement for the award of degree

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted by:

CHANDRASHEKHARA A E – 1MV19ME013

Internship carried out at

SIDDHI VINAYAKA FAB ENGINEERING PRIVATE LIMITED

No.206, 11th main 3rd Phase, Peenya Industrial Area, Bangalore – 560058

Internal Guide

Mrs. Veena B G

Assistant Professor

Sir M V I T, Bengaluru

External Guide

Mohammed Basheer Ahmed

Technical Director

Siddhi Vinayaka Fab Engineering



DEPARTMENT OF MECHANICAL ENGINEERING

Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU


Academic year: 2022 – 23

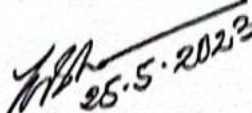
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

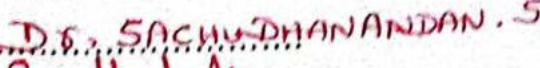

Certified that the Internship work entitled "ORGANIZATION STUDY" successfully completed by **CHANDRASHEKHARA A E (IMV19ME013)** in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship Work prescribed for the Bachelor of Engineering degree.


Mrs. Veena B G
Assistant professor
Mechanical Engineering
Sir M V I T, Bengaluru


25.5.2023
Dr. K S Shanmukharadhya
Professor and Head
Dept of Mechanical
Engineering
Sir M V I T, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bengaluru-562 157
Sir M V I T,
Bengaluru

Names of the Examiner
with date

1.  25/05/23
2.  25/5/23

Signature

INTERNSHIP CERTIFICATE



SIDHI VINAYAKA FAB ENGINEERING PVT. LTD.

No. 22B, 11th Stage, 3rd Phase, Hosur Industrial Area, Bangalore-560 026.
Phone: 9845085141, 9111389141, 9845110001, Fax: 9845085001
E-Mail: sve@sidhivinayakfab.com, Website: www.sidhivinayakfab.com
CIN No. U71200KA2005PTC000211
Certificate Under ISO 9001:2015, EN ISO9001:2015, ASME Y1 9-1997



REF: SVE/48/2022-23

DATE: 07/08/2023

TO WHOM SO EVER IT MAY CONCERN

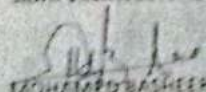
This is to certify that Mr. CHANDRASHEKARA A E Pursuing B.E. Dissertation at SIB M VISVESVARAYA INSTITUTE OF TECHNOLOGY bearing Register Number 1MV19ME013 has completed his "ORGANIZATION STUDY" training in our company for the duration of 30 days.

During the above period his conduct was good and he showed eagerness to learn the concept.

We wish him very best in all his future endeavors.

For,

SIDHI VINAYAKA FAB ENGINEERING PVT LTD


TAJAMUD BASHEER AHMED,

(TECHNICAL DIRECTOR)



Specialist in : Precision Vessels (MS & SS) Stainless Steel Fabrication & Pressure Vessel Components.

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590018**



INTERNSHIP REPORT ON

“STUDY ON BEML FUNCTIONALITIES”

Submitted in partial fulfillment of the requirements for the award of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

CHOLARAJU S MOHANRAJU 1MV19ME014

Internal Guide

Mr. ASHA RANI A

Assistant Professor

Sir M visvesvaraya Institute of Technology

External Guide

ARUN KUMAR

MANAGER



**DEPARTMENT OF MECHANICAL ENGINEERING SIR M
VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157, KARNATAKA, INDIA**

Academic Year: 2022-23

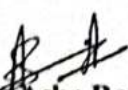
**SIR M. VISVESVARAYA INSTITUTE OF
TECHNOLOGY BENGALURU-562157, KARNATAKA,
INDIA**

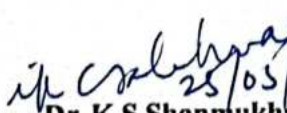
DEPARTMENT OF MECHANICAL ENGINEERING

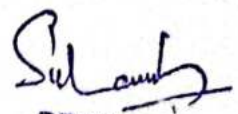


CERTIFICATE

This is to certify that the Internship report entitled "STUDY ON BEML FUNCTIONALITIES" is bonafidework carried out by **CHOLARAJU S MOHANRAJU (1MV19ME014)** in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship (18ME185) prescribed for the Bachelor of Engineering degree.

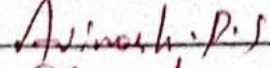


Mrs. Asha Rani.A
Assistant Professor
Sir MVIT, Bengaluru


Dr. K S Shanmukharadhya
Professor and Head of
MechDept, Sir MVIT,
Bengaluru

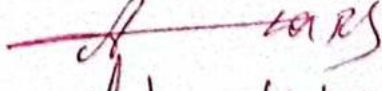
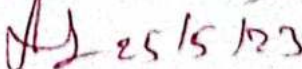

DR. RAKESH S G
Principal
Sir MVIT, Bengaluru

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsamaramahalli
International Airport Road, Bangalore-562 157

Names of the Examiners

1. 
2. 

Signature with Date

Ref: TKT/137(C)/2022

Date: 11-05-2023

To Whomsoever It May Concern
Internship Certificate

*This is to certify that Mr. Cholaraju S Mohanraju(USN:1MV19ME014) a student of BE (Mechanical Engineering) from SIR M Visvesvaraya Institute Of Technology, Bangalore has successfully undergone internship programme at our organization w.e.f. 26.08.2022 to 15.09.2022. During his stay at BEML Limited, his Character and Conduct was found Good
We wish, Mr. Cholaraju S Mohanraju, ALL THE BEST in his future Endeavours.*

for BEML LIMITED

Ar.
ARUNKUMAR T S

Asst. General Manager (Training)

ಅರುಣ್ ಕುಮಾರ್ T.ಎಸ್.

ARUN KUMAR T.S.

ಪ್ರಶಾಸ್ತಕ ಮತ್ತು ಪ್ರವರ್ತಕ, ತರಬೇತಿ ಕೇಂದ್ರ

Asst. Gen. Manager, Training Centre

ಬೆಂಗಳೂರು ಬಿಎಂಎಲ್ ಲಿಮಿಟೆಡ್, ಮೈಸೂರು ಕಂಪ್ಲೆಕ್ಸ್

BEML LIMITED, MYSORE COMPLEX

ಬೆಂಗಳೂರು ಪೋಸ್ಟ್, ಮೈಸೂರು-570 014

Betavadi Post, MYSURU-570 014

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BEML Mysore, 1001, 4th Main, 1st Stage, Bangalore - 560 022

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ಬೆಂಗಳೂರು ಬಿಎಂಎಲ್ ಲಿಮಿಟೆಡ್

ಬೆಂಗಳೂರು ಬಿಎಂಎಲ್ ಲಿಮಿಟೆಡ್

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ಬೆಂಗಳೂರು ಬಿಎಂಎಲ್ ಲಿಮಿಟೆಡ್

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018



Internship Report on

“BOGIES MAINTENANCE OF HHP LOCOS”

Submitted in partial fulfilment of the requirements for the award

of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

DHANUSH M P

1MV19ME015

Internship carried out at

DIESEL LOCO SHED

KRISHNARAJAPURA-560036



Under the Guidance of

MRS. ASHA RANI A

Asst. Professor

Department of Mechanical Engineering

SRI. SRINIVAS RAO D

Asst. Divisional Mechanical Engineer

Diesel Loco Shed, Krishnarajapura

DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,

BENGALURU-562157

Academic year: 2022-23

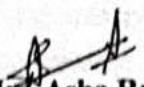
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

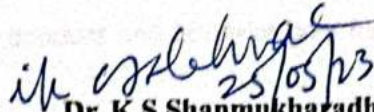
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

It is certified that the Internship work entitled "BOGIES MAINTENACE OF HHP LOCOS" is a bonafide work carried out by **DHANUSH M P (1MV19ME015)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering

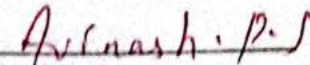
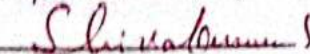

Mrs. Asha Rani A
Assistant Professor
Sir MVIT, Bengaluru


Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


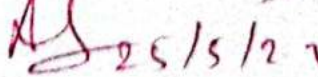

DR. Rakesh S G
Principal
Sir MVIT, Bengaluru

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya
International Airport, Belagavi - 562 157

Names of the Examiners

1. 
2. 

Signature with Date

INTERNSHIP CERTIFICATE



DIESEL LOCO SHED, KRISHNARAJAPURAM
BANGALORE DIVISION, BANGALORE-36, SOUTH WESTERN RAILWAY

CERTIFICATE

This is to certify that the below mentioned student, perusing B.E (Mechanical Engineering) in SIR.M.VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU – 562157 has successfully undergone **Internship** in our organization from **August 29, 2022** to **September 24, 2022**. During this period he has completed a project entitled **"Study of Diesel HHP Loco Bogie Maintenance"**

DHANUSH. M.P (1MV19ME015)

During this period, his conduct and behavior was found good and he has shown keen interest to learn.

This certificate is solely issued for education purpose to provide industrial exposure to students.

We wish success in his future endeavors.

Date: 24.09.2022
Place: Krishnarajapuram


(YOGESH BHALEKAR)
Sr. Divisional Mechanical Engineer

वरि. मण्डल यांत्रिक इंजीनियर
Sr. Divisional Mechanical Engineer
इ.प.रे. तुमकूर विभाग, S.W. रेल, क्रिष्णराजपुरम
बेंगलूर - Bangalore-560 036

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



Internship Report on

“ELECTRONIC WARFARE AND AVIONICS”

Submitted in partial fulfilment of the requirements for the award
of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

DHANUSH N REDDY

1MV19ME016

Internal Guide

Dr. V Shantha

Professor

Department of Mechanical
Engineering

Sir MVIT Bengaluru-562157.

External Guide

Mrs. Tara Singh

Manager,

Bharath Electronics Limited



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157
Academic year: 2022-23**

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Internship report entitled "ELECTRONIC WARFARE AND AVIONICS" is a bonafide work carried out by Dhanush N Reddy of USN: 1MV19ME016 of Sir M. Visvesvaraya Institute of Technology, Bengaluru, in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for Bachelor of Engineering degree.

Dr. V Shantha
Professor
Sir MVIT, Bengaluru

25.5.23

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamarangalli,
International Airport Road, BANGALORE-562 157.
Prof. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. DR. SACHUDHANANDAN .S
2. Dr. Hanuman

Signature with Date

25/05/23
Dr. Sachudhanandan .S



CENTRE FOR LEARNING AND DEVELOPMENT

BHARAT ELECTRONICS LIMITED
(A Govt. of India Enterprise, Ministry of Defence)
Jalahalli Post, Bengaluru - 560 013, India

Certificate

This is to certify that

Sri./Smt/Kum. Dhanush. N. Reddy.....

Ref No. 1410/CLO/HR/2022-23/27/237.....

student of Sir. M. Visvesvaraya Institute. Of..

.....Technology. Bangalore.....

carried out Project Work/Internship on Overview. Of.

.....Electronics. Warfare. And. Avionics.....

.....

in ..Electronics. Warfare. And. Avionics.....

SBU/CSG of BEL, Bengaluru from .. 29. Aug. 2022..

to .. 28. Sep. 2022 ..

He/She was regular and punctual in his/her attendance
and his/her conduct was satisfactory during the period.

Saxa Shyri
Project / Internship Guide

Date : 28/09/2022

Place : Bengaluru

[Signature]
Head (HR/CLD)
SBU/CSG (M. M. / M. M. / M. M.)
MANAGER (HR/CLD)
भारत इलेक्ट्रॉनिक्स लिमिटेड
BHARAT ELECTRONICS LTD.
जलाहल्ली पोस्ट, बंगलूरु - 560 013
JALAHALLI POST, BANGALORE - 560 013

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



Internship seminar report on

**“MANUFACTURING OF BATCH TYPE
INTEGRAL SEALED QUENCH FURNACE”**

Submitted in partial fulfillment of the requirements for the award of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted By

DINAKAR M K

1MV19ME017



Under the Guidance of

Mr. Uday Naidu
Production manager
hightemp furnaces pvt.ltd

Mrs. Asha Rani A
Assistant professor
Sir MVIT, Bangalore




**DEPARTMENT OF MECHANICAL ENGINEERING
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022 - 23**

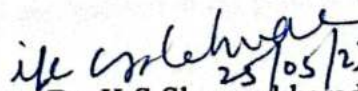
SIR M.VISVESVARAYAINSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING

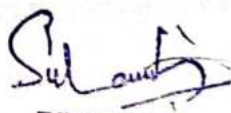


CERTIFICATE

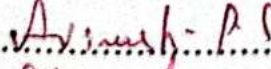

Certified that the Internship entitled "MANUFACTURING OF BATCH TYPE INTEGRAL SEALED QUENCH FURNACE" bonafide work carried out by **DINAKAR M K, USN: 1MV19ME017** a student of **VIII Semester** in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of Sir M Visvesvaraya Institute of Technology, Bengaluru during the year **2021-2023** has successfully completed the internship at "**HIGHTEMP FURNANCES PVT LTD**" and has successfully submitted the report. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship Report has been approved as it satisfies the academic requirements in respect of **Internship (18MEI85/18IMI85)** prescribed for the Bachelor of Engineering degree.


Mrs. Asha Rani A
Assistant professor
Dept of Mech Engg
Sir M V I T, Bengaluru

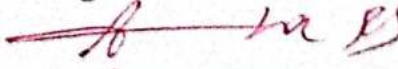
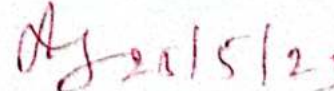

Dr. K S Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir M V I T, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsuramahalalli
International Airport Road, Bangalore-562 157
Prof. Rakesh S G
PRINCIPAL
Sir M V I T,
Bengaluru

Names of the Examiner

1. .....
2. .....

Signature with date



20/5/23



**HIGHTEMP
FURNACES
LIMITED**

1C, 2nd Phase, Peenya Indl Area,
Bangalore - 560 058
Karnataka, India
Phone : +91-80-28295917 / 4076 / 1446
Fax : +91-80-28295400 / 28295409
Website : www.hightemp-furnaces.com
CIN - U74918KA411971PLC0015113

Ref No- HTF/TRIG/2022-2023

Date : 16th September 2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. Dinakar M K (Reg No- 1Mv19ME017) studying BE- Mechanical Engineering in Sir M Visvesvaraya Institute of technology, Krishnadevarayanagar, Bangalore- 562157. Carried out Internship training in our company from 22nd August 2022 to 16th September 2022.

In the span of his candidature was found to be sincere and good learner.

We wish him a bright Future.

Thanking You.

For Hightemp Furnaces Limited


Asst. Manager - HR & Admin



**Heat Treatment Furnaces and Allied Heating Equipment
Member Dowa Thermotech Co. Ltd. Japan (THT Divn)**

Regd. Off : # 8, Oddy Apartments Chincholi Level Cross Pawan Baug Road Malad West, Mumbai - 400 064

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANASANGAMA, BELAGAVI – 590 018, KARNATAKA



An Internship Report on

“GROUND TESTING CENTRE”

Submitted in partial fulfillment of the requirement for the award of degree

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted by:

GOKUL RAJ SM

(1MV19ME018)

VIII Semester

Internship carried out

At

“HAL-ROTARY RESEARCH AND DESIGN CENTRE”
HR DEPARTMENT, HELICOPTER DIVISION (HC) HINDUSTAN
AERONAUTICS LIMITED, Bangalore – 560 017, INDIA.

Internal Guide

Mr. KUMAR SWAMY R

Associate Professor

Sir M. Visvesvaraya Institute of Technology

External Guide

Mrs. PRABHA

HR department

HAL-Helicopter Division



Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru-562157

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)
International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru 562157



DEPARTMENT OF MECHANICAL ENGINEERING
CERTIFICATE

This is to certify that the Internship Report on "GROUND TESTING CENTRE" submitted by **GOKUL RAJ SM** bearing **1MV19ME018** respectively is a bonafide student of **Sir M. Visvesvaraya Institute of Technology**, has successfully completed the Internship programme in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** prescribed by **Visvesvaraya Technological University, Belagavi** during the academic year **2022-2023**. The Internship report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the Bachelor of Engineering degree.

Signature of Internal Guide

Mr. Kumar Swamy
Associate Professor
Dept. of Mech Engg., SMVIT

Signature of HOD

Dr. K S Shanmukharadhya
Professor and HOD
Dept. of Mech Engg., SMVIT

Prof. Rakesh S G
PRINCIPAL

External Viva

Name of the Examiners:

1. D. SACHUDHANANDAN. S
2. Dr. Anil Kumar

Signature with date

23/05/23

CERTIFICATE

ಹಿಂದುಸ್ತಾನ್ ಏರ್ನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
ರೋಟರಿ ವಿಂಗ್ ಅಭಿವೃದ್ಧಿ ಮತ್ತು ಅಧ್ಯಯನ ಕೇಂದ್ರ
ವಿನ್ಯಾಸ ಸಂಶೋಧನೆ/ಅಭಿವೃದ್ಧಿ ಕಾರ್ಯಾಲಯ
ಹಿಂದುಸ್ತಾನ್ ಏರ್ನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
ಹಿಂದುಸ್ತಾನ್ ಏರ್ನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
ಬೆಂಗಳೂರು-560017, ಭಾರತ / ಬೆಂಗಳೂರು - 560 017, ಭಾರತ
ಫೋನ್ / ಕೆಲಸ / Fax: 91 - 80 - 2231 1747



ROTARY WING RESEARCH & DESIGN CENTRE
DESIGN COMPLEX
HINDUSTAN AERONAUTICS LIMITED
Bengaluru - 560 017, India
ಫೋನ್ / ಕೆಲಸ / Fax: 91 - 80 - 2232 3149
91 - 80 - 2231 1284

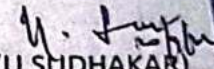
HAL/DC/RWRDC/HR/INTRNSHP/ 1190 /2022

20th September 2022

CERTIFICATE

This is to certify that Mr. Gokul Raj S M(USN: 1MV19ME018), student of B.Tech(Mechanical Engineering), Sir M. Visvesvaraya Institute of Technology, Bangalore has undergone Internship on No-pay-No-fee basis from 25.08.2022 to 20.09.2022 at Ground Test Centre, Rotary Wing Research & Design Centre, Hindustan Aeronautics Limited, Bengaluru.

2. His Punctuality, Behavior, Conduct, Progress in Training were 'Very Good' as rated by the Department Head during his training period with us.


(U SUDHAKAR)
SENIOR MANAGER (HR)

Mr. Gokul Raj S M
USN: 1MV19ME018
B.Tech (Mechanical Engineering)
Sir M. Visvesvaraya Institute of Technology
Bangalore



ನೋಂದಾಯಿತ ಕಛೇರಿ : ೧೫/೧, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು-೫೬೦೦೦೧, ಭಾರತ
ಪಂಚೀಕೃತ ಕಾರ್ಯಾಲಯ : 15 /1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ
Registered Office : 15 /1, Cubbon Road, Bengaluru - 560 001, India

ಇ-ಮೇಲ್ / ಸಿ ಆರ್ ಐ ಎನ್ / CIN: L35301KA1963GOI001622 ಫ / ಫ / E: hrwrwc@hal-india.co.in

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI



Internship Report

Submitted in partial fulfillment of the requirements for the award of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By

Hanu Yadav

1MV19ME019

Under the Guidance of

Mr. K. Ejaz Ahmed

Associate Professor

Department of Mechanical Engineering

Sir MVIT, Bengaluru



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU**

Academic year: 2022-2023

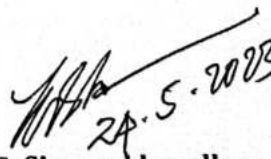
SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Internship entitled “**Design and Development of Rotary Aircraft**” is a bonafide work carried out by **Hanu Yadav**, USN: **1MV19ME019** a student of VIII Semester in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of Sir M Visvesvaraya Institute of Technology, Bengaluru during the year **2022-2023** has successfully completed the internship at “**Hindustan Aeronautics limited**” and has successfully submitted the report. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship Report has been approved as it satisfies the academic requirements in respect of **Internship (18MEI85)** prescribed for the Bachelor of Engineering degree.

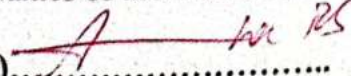
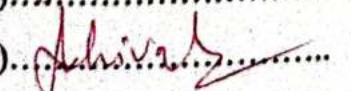
Mr. K. Ejaz Ahmed
Associate Professor
Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.


Dr. K. S. Shanmukharadhya
Professor & HOD
Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.

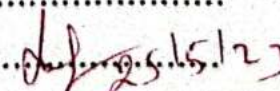

Prof. Rakesh S. G.
Principal

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Mohanur, Bengaluru
International Airport Road, Bangalore-562 157

Names of the Examiners

- 1) 
- 2) 

Signature with Date

.....
 25.5.23

INTERNSHIP CERTIFICATE

मानव संसाधन विभाग
हिलिप्टर प्रभाग (ईएच)
हिन्दुस्तान हेलीकॉप्टर लिमिटेड
पोस्ट बैग नं. 1790, बंगलूर - 560017, भारत



HR DEPARTMENT
HELICOPTER DIVISION (HC)
HINDUSTAN AERONAUTICS LIMITED
Post Bag No. 1790, Bangalore-560 017, India
Ph. (Phone) : 91-88-2231 7891, 2232 2918
Fax (FAX) : 91-88-22314717

Ref: H/A/HR/CM (PR)/2022

September 20, 2022

CERTIFICATE

This is to certify that Mr. Hanu Yadav (USN No : 1MV19ME019) student of BE - Mechanical Engineering, Sir M. Visvesvaraya Institute of Technology, Bangalore, has undergone "Internship" in Machine Shop, HAL-Helicopter Division from 22.08.2022 to 20.09.2022

2. His Punctuality, Conduct, Behaviour and Progress during the period of "Internship" was Satisfactory.
3. We wish Mr. Hanu Yadav all the very best in all his future endeavors.

For HAL-Helicopter Division

(G. H. Raju)
Chief Manager (Public Relations)

20/09/2022
Chief Manager (Public Relations)
Hindustan Aeronautics Limited
Helicopter Division, HAL, Bangalore-17

पंजीकृत कार्यालय : 15/1, कल्लुब रोड, बंगलूर - 560001, भारत
Registered Office: 15/1, Kallubon Road, Bangalore-560 001, India
CIN: U35301KA1963GDR001622 EMail: hr.helicopter@hal-india.com

www.hal-india.com

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



Internship Report On

“STIRLING CRYOCOOLER USED IN SPACE”

Submitted in partial fulfillment of the requirements for the award
of Bachelor of Engineering
in
MECHANICAL ENGINEERING

Submitted By
HARSHIT RAI
1MV19ME020

Under the Guidance of

Mr. Ramesh C G
Assistant Professor
Dept. of Mechanical Engg.
Sir MVIT Bengaluru-562157.

Mr. Shital Garg
Scientist 'D'
Department of Cryogenics
Solid State Physics Laboratory (SSPL), DRDO
Timarpur, New Delhi



DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the Internship Review on “**STIRLING CRYOCOOLER USED IN SPACE**” is a bonafide work carried out **HARSHIT RAI (1MV19ME020)**, in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the Bachelor of Engineering Degree.

62
25-05-2023

Mr. Ramesh C G
Assistant Professor
Dept of Mech Engg
Sir MVIT, Bengaluru

25-5-23

Dr. K. S. Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru

Sulamb

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishna Nagar, Belagavi, Karnataka-592119
International Airport Road, Bangalore-562 157
Sir MVIT,
Bengaluru

Name of the Examiners

Signature with Date

1. DR. SACHIN HANANDAN.S

Sachin 25/05/23

2. *Dr. Harsh*

Harsh

COMPANY CERTIFICATE

ISO 9001:2015 Certified

सोसायटि भौतिकी प्रयोगशाला, दिल्ली
Solid State Physics Laboratory, Delhi



(Min. of Defence, DRDO)
Lucknow Road, Timarpur, Delhi-110054

प्रशिक्षण प्रमाणपत्र / TRAINING CERTIFICATE

This is to certify that Mr./Ms./ HARSHIT RAI
Student of SIT. M. VISVEEVARAYA INSTITUTE OF TECHNOLOGY Roll No. 1MVI9ME020
Branch MECHANICAL ENGINEERING (BE) has completed successfully Summer/Winter Internship for
the period from 21 AUG 2022 to 19 SEP 2022 Duration 06 (Six) weeks/months.

Topic of Internship was STIRLING CRYOCOOLER USED
IN SPACE

During the training period his/her conduct at SSPL was good.

M. K. Khanna
Head-HR

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



**Internship Report on
“AUTODESK INVENTOR PROFESSIONAL”**

Submitted in partial fulfilment of the requirements for the award
of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted By

HASEEB UR RAHMAN 1MV19ME0321

Internship carried out at
TAKE IT SMART PVT. LTD
VIJAYNAGAR-560040



Under the Guidance of

Mr. KUMAR SWAMY R
Asst. Professor Dept. of Mech.
Sir MVIT, Bengaluru

Mr. RAGHUVENDRA
Asst. Designer Mechanical
Engineer Take It Smart Vijayanagar

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157
Academic year: 2022-23**

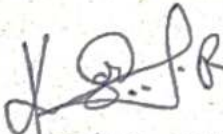
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

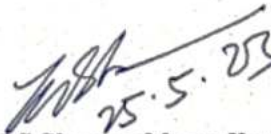
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "TAKE IT SMART PVT. LMT" is a bonafide work carried out by HASEEB UR RAHMAN (1MV19ME021) in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.


Mr. KUMAR SWAMY R
Assistant Professor
Sir MVIT, Bengaluru

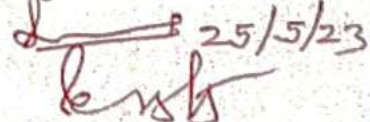

Dr. K S Shanmukharadhy
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bengaluru-562157
Dr. Rakesh S
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. Dr. SACHUDHANANDAN S
2. Dr. Haseeb

Signature with Date


25/5/23

INTERNSHIP CERTIFICATE

**Take It Smart (OPC) PVT LTD**
14, 5GN Arcade, 1st Floor, 2nd stage, 1st Main Rd, RPC Layout,
Vijayanagar, Bengaluru - 560 040 Mob. : 8050104212 / 8792597647
www.takeitsmart.in

TAKE IT SMART
Reg No. : 150027

ISO 9001 :2015

Internship Certificate

This Certifies that

HASEEB UR RAHMAN

Student of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY**

Has completed Internship in **Autodesk Inventor Professional**

From **20th August 2022 to 20th September 2022**

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

**MSME** **#startupindia**


Mallikarjun Kumbar
Director

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-590 018, Karnataka, India



An Internship Report
On

"Template for Online YOGA Training Center"

Submitted in Partial Fulfillment of the requirement for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By

HEMANTH B M

1MV19ME022

Carried out at
Compsoft Technologies



Under the Guidance of

Internal Guide

Dr. G. BALAKUMAR
Associate Professor
Dept. Of ME, SIR MVIT

External Guide

Mr. NITHIN
Trainer
Compsoft Technologies



DEPARTMENT OF MECHANICAL ENGINEERING
Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]
Bangaluru-562157
2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "TEMPLATE FOR ONLINE YOGA TRAINING CENTER" is a bonafide work carried out by HEMANTH B M (1MV19ME022) in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of INTERNSHIP WORK (18ME185) prescribed for the course of Bachelor of Engineering.

Dr. G BALAKUMAR
Associate Professor
Mechanical Department
Sir MVIT, Bengaluru

28.5.2023

Dr. K S Shanmukharadhya
Professor and Head of
Mechanical Department
Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsur, Mysore-562 157
International Airport Road, Bangalore-562 157
Prof. Rakesh S. G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

Signature with Date

1. Dr. SACHIDHANANDAN S
2. SB Halem

25/05/23

Company Certificate



Compsoft Technologies

Providing a Complete Suite of IT Solutions

Certificate ID - 1CSTFSM264

Date - 30/09/2022

Certificate of Internship

This is to certify that Mr Hemanth B M (1MV19ME022) has done his Full Stack Web Development Internship in Compsoft Technologies, RajajiNagar, Bangalore, from 25th August 2022 to 29th September 2022.

He has worked on a project titled Template For Online Yoga Training Center. This project was aimed at creating a cutting edge website for a client of ours. As part of the project, he designed functional webpages, Backend Databases to collect, store, and sort data, by understanding the design briefs and client Specifications that were provided in the Proposal.

During the internship, he demonstrated good design skills with a self-motivated attitude to learning new things. His performance exceeded expectations and was able to complete the project successfully on time, We wish him all the best in his future endeavours.

Warm regards,



Compsoft Technologies
No. 363, 19th main road,
1st Block Rajajinagar Bangalore- 560010

www.compsofttechnologies.com

services@compsofttechnologies.com

*Search Engine Optimisation
*Branding and Design

*Development
*Content Writing

*ML & Research
*Embedded Systems and IOT

**VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BELAGAVI – 590 018**



**An Internship Report on
“METHODS AND TOOLING DEPARTMENT”**

Submitted in partial fulfillment of the requirements for the
award of Bachelor of Engineering

in
MECHANICAL ENGINEERING

Submitted By
HITHESH R (1MV19ME023)

Internship carried out
At

“HAL – HELICOPTER DIVISION”

Hindustan Aeronautics Limited, Bangalore – 560 017, India

Internal Guide

Mr. Nataraj M

Assistant Professor

Department of Mechanical Engineering

External Guide

Mr. Hemanth D M

Manager

HAL – Helicopter Division



**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BANGALORE – 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**

**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BANGALORE - 562 157**

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Internship Report on **"METHODS AND TOOLING DEPARTMENT"** submitted by **HITESH R** bearing **1MV19ME023** in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. The Internship Report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the Bachelor of Engineering Degree.

Mr. Nataraj M
Assistant Professor
Dept. of Mechanical Engg.,

KS 25-5-23
Dr. K S Shanmukharadhya
Head of the Department,
Dept. of Mechanical Engg.,
Sir MVIT, Bangalore

Dr. Rakesh S G
Principal,
Sir MVIT, Bangalore

Name of the Examiners

Signature with date

1. Avinash P S

A 25/5/23

2. Shivakumar

KS 25/5/23

Ref: H/A/HR/CM (PR)/2022

September 21, 2022

CERTIFICATE

This is to certify that Mr. Hithesh R (USN No : 19MV19ME023) student of BE - Mechanical Engineering, Sir. M. Visvesvaraya Institute of Technology, Bangalore, has undergone "Internship" in Methods & Tooling Department, HAL-Helicopter Division from 22.08.2022 to 21.09.2022.

2. His Punctuality, Conduct, Behaviour and Progress during the period of "Internship" was Satisfactory.

3. We wish Mr. Hithesh R all the very best in all his future endeavors.

For HAL-Helicopter Division

(G. H. Raju)
Chief Manager (Public Relations)

29/09/22

मुख्य प्रबंधक (सार्वजनिक संबंध)

मुख्य प्रबंधक (सार्वजनिक संबंध)

Chief Manager (Public Relations)

मुख्य प्रबंधक (सार्वजनिक संबंध)

मुख्य प्रबंधक (सार्वजनिक संबंध)

Helicopter Division, HAL, Bangalore

पंजीकृत कार्यालय : 15/1, कब्बन रोड, बंगलूर - 560001, भारत

Registered Office: 15/1, Cubbon Road, Bangalore-560 001, India

CIN: U35301KA1963GOI001622 E(†): hr.hcop@hal-india.com

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018



Internship Report on

“BOGIES MAINTENANCE OF HHIP LOCOS”

Submitted in partial fulfilment of the requirements for the award

of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

HIRITHIK BN

1MV19ME024

Internship carried out at

**DIESEL LOCO SHED
KRISHNARAJAPURA-560036**



Under the Guidance of

DR. HANAMANTRAYGOUDA MB

Asst. Professor
Department of Mechanical Engineering

SRI. SRINIVAS RAO D

Asst. Divisional Mechanical Engineer
Diesel Loco Shed, Krishnarajapura


**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157
Academic year: 2022-23**

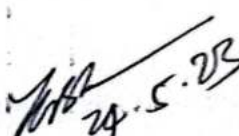
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

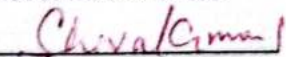
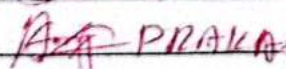
It is certified that the Internship work entitled "BOGIES MAINTENANCE OF HHP LOCOS" is a bonafide work carried out by **HRITHIK BN (1MV19ME024)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18ME185)** prescribed for the course of Bachelor of Engineering.


Dr. Hanumantraygouda MB
Assistant Professor
Sir MVIT, Bengaluru

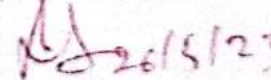


Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru-562157

Names of the Examiners

1.  **Chival/Gmm**
2.  **PRAKASH A.M**

Signature with Date

 **26/5/23**
 **26/5/23**

INTERNSHIP CERTIFICATE



DIESEL LOCO SHED, KRISHNARAJAPURAM

BANGALORE DIVISION, BANGALORE-JR, SOUTH WESTERN RAILWAY

CERTIFICATE

This is to certify that the below mentioned student, pursuing B.E. (Mechanical Engineering) in SIR.M.VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU - 562157 has successfully undergone internship in our organization from **August 29, 2022 to September 24, 2022**. During this period he has completed a project entitled **"Study of Diesel HHP Loco Bogie Maintenance"**.


HRITHIK. B.N (1MV19ME024)

During this period, his conduct and behavior was found good and he has shown keen interest to learn.

This certificate is solely issued for education purpose to provide industrial exposure to students.

We wish success in his future endeavors.

Date: 24.09.2022
Place: Krishnarajapuram


(YOGESH BHALEKAR)
Sr. Divisional Mechanical Engineer

1. Sr. Divisional Mechanical Engineer
2. Sr. Divisional Mechanical Engineer
3. Sr. Divisional Mechanical Engineer
4. Sr. Divisional Mechanical Engineer
5. Sr. Divisional Mechanical Engineer



Internship Report on

**“STUDY OF POWER PACK AND MAINTAINANCE IN
DIESEL HHP LOCO”**

Submitted in partial fulfilment of the requirements for the award.

of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

JAYASURYA K S

1MV19ME02S

Internship carried out at

**DIESEL LOCO SHED
KRISHNARAJAPURA-560036**



Under the Guidance of

DR. HANAMANTRAYGOUDA MB

Asst. Professor

Department of Mechanical Engineering

SRI. SRINIVAS RAO D

Asst. Divisional Mechanical Engineer
Diesel Loco Shed, Krishnarajapura

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157**

Academic year: 2022-23


SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157


DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE



It is certified that the Internship work entitled "**STUDY OF POWER PACK AND ITS MAINTAINANCE IN DIESEL HHP LOCO**" is a bonafide work carried out by **JAYASURYA K S (1MV19ME025)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.


Dr. Hanumantraygouda MB
Assistant Professor
Sir MVIT, Bengaluru

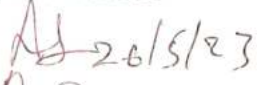
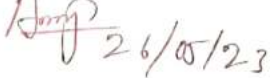

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


PRINCIPAL
Dr. Rakesh S. G
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Chinasamaranahalli
International Airport Road, Bangalore-562 157
Sir MVIT, Bengaluru

Names of the Examiners

1. 
2. 

Signature with Date

 26/5/23
 26/05/23

INTERNSHIP CERTIFICATE



DIESEL LOCO SHED, KRISHNARAJAPURAM
BANGALORE DIVISION, BANGALORE-30, SOUTH WESTERN RAILWAY

CERTIFICATE

This is to certify that the below mentioned student, perusing B.E (Mechanical Engineering) in SIR.M.VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU – 562157 has successfully undergone internship in our organization from **August 29, 2022** to **September 24, 2022**. During this period he has completed a project entitled **“Study of Diesel HHP Loco Power pack system”**

JAYASURYA. K.S (1MV19ME025)

During this period, his conduct and behavior was found good and he has shown keen interest to learn.

This certificate is solely issued for education purpose to provide industrial exposure to students.

We wish success in his future endeavors.

Date: 24.09.2022
Place: Krishnarajapuram


(YOGESH BHALEKAR)
Sr. Divisional Mechanical Engineer

वरि. मण्डल यांत्रिक इंजीनियर
Sr. Divisional Mechanical Engineer
द.प.३, कृष्णराजपुरम S.W.Ry. Krishnarajapuram
बंगलूर-५६० ०३६

SOUTH WESTERN RAILWAY

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANASANGAMA, BELAGAVI – 590 018, KARNATAKA



An Internship Report on

“GROUND TESTING CENTRE”

Submitted in partial fulfillment of the requirement for the award of degree

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted by:

SANKETH SHINDE

(1MV19ME026)

VIII Semester

Internship carried out

At

“HAL-ROTARY RESEARCH AND DESIGN CENTRE”

HR DEPARTMENT, HELICOPTER DIVISION (HC) HINDUSTAN
AERONAUTICS LIMITED, Bangalore – 560 017, INDIA.

Internal Guide

Mr. KUMAR SWAMY R

Associate Professor

Sir M. Visvesvaraya Institute of Technology

External Guide

Mrs. PRABHA

HR department

HAL-Helicopter Division



Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru-562157

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)
International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru 562157



DEPARTMENT OF MECHANICAL ENGINEERING
CERTIFICATE

This is to certify that the Internship Report on “GROUND TESTING CENTRE” submitted by **SANKETH SHINDE** bearing **1MV19ME026** respectively is a bonafide student of **Sir M. Visvesvaraya Institute of Technology**, has successfully completed the Internship programme in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** prescribed by **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. The Internship report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the Bachelor of Engineering degree.

Signature of Internal Guide

Mr. Kumar Swamy

Associate Professor

Dept. of Mech Engg., SMVIT

Signature of HOD

Dr. K S Shanmukharadhya

Professor and HOD

Dept. of Mech Engg., SMVIT

Prof. Rakesh S G
PRINCIPAL

External Viva

Name of the Examiners:

Signature with date

1. DR. SACHUDHANANDAN S
2. Dr. Rakesh S G

28/05/23

CERTIFICATE

ರೋಟರಿ ವಿಂಗ್ ಸಂಶೋಧನೆ ಮತ್ತು ವಿನ್ಯಾಸ ಕೇಂದ್ರ
ರೋಟರಿ ವಿಂಗ್ ಅಭಿವೃದ್ಧಿ ಮತ್ತು ಅಧಿಕಾರ ಕೇಂದ್ರ
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ಹಿಂದುಸ್ತಾನ ಏರೋನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
ಬೆಂಗಳೂರು-560017, ಭಾರತ / ಬೆಂಗಳೂರು - 560 017, ಭಾರತ
ಫೋನ್ / ಫೇಸ್ / ಫ್ಯಾಕ್ಸ್ : 91 - 80 - 2231 1747



ROTARY WING RESEARCH & DESIGN CENTRE
DESIGN COMPLEX
HINDUSTAN AERONAUTICS LIMITED
Bengaluru - 560 017, India
ಫೋನ್ / ಫೇಸ್ / ಫ್ಯಾಕ್ಸ್ : 91 - 80 - 2232 3149
91 - 80 - 2231 1284

HAL/DC/RWRDC/HR/INTRNSHP/ 1173 /2022

20th September 2022

CERTIFICATE

This is to certify that Mr. Sanketh Shinde(USN: 1MV19ME026), student of B.Tech(Mechanical Engineering), Sir M. Visvesvaraya Institute of Technology, Bangalore has undergone Internship on No-pay-No-fee basis from 25.08.2022 to 20.09.2022 at Ground Test Centre, Rotary Wing Research & Design Centre, Hindustan Aeronautics Limited, Bengaluru.

2. His Punctuality, Behavior, Conduct, Progress in Training were 'Very Good' as rated by the Department Head during his training period with us.


(U SUDHAKAR)

SENIOR MANAGER (HR)

Mr. Sanketh Shinde
USN: 1MV19ME026
B.Tech (Mechanical Engineering)
Sir M. Visvesvaraya Institute of Technology
Bangalore



ರೋಟರಿ ವಿಂಗ್ ಸಂಶೋಧನೆ ಮತ್ತು ವಿನ್ಯಾಸ ಕೇಂದ್ರ
ಪಂಚೀಕೃತ ಕಾರ್ಯಾಲಯ : 15/1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ
Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India

ಫೋನ್ / ಫೇಸ್ / ಫ್ಯಾಕ್ಸ್ : 91 - 80 - 2231 1747 / 91 - 80 - 2232 3149 / 91 - 80 - 2231 1284
e-mail : hr.rwrdc@hal-india.co.in

www.hal-india.co.in

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



Internship Report on

“AUTODESK INVENTOR PROFESSIONAL”

Submitted in partial fulfilment of the requirements for the award
of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted By

K SHASHIDHAR

1MV19ME027

Internship carried out at

TAKE IT SMART PVT. LTD

VIJAYNAGAR-560040



Under the Guidance of

Mr. H S YESHVANTHA

Asst. Professor Dept. of Mech.
Sir MVIT, Bengaluru

Mr. RAGHUVENDRA

Asst. Designer Mechanical Engineer
Take It Smart Vijaynagar

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157**

Academic year: 2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "**AUTODESK INVENTOR PROFESSIONAL**" is a bonafide work carried out by **K SHASHIDHAR (1MV19ME027)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.

Mr. H S Yeshvantha
Assistant Professor
Sir MVIT, Bengaluru

26.05.2023

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru

PRINCIPAL
Dr. Rakesh S.G.
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Punasamranahalli
International Airport Road, Bangalore-562157
Sir MVIT, Bengaluru

Names of the Examiners

1. Shival Kumar S
2. PRAKASHA A.M

Signature with Date

26/5/23

26/5/23

INTERNSHIP CERTIFICATE



Take It Smart (OPC) PVT LTD

14, SGN Arcade, 1st Floor, 2nd stage, 1st Main Rd, RPC Layout,
Vijayanagar, Bengaluru - 560 040 Mob. : 8050104212 / 8792697647
www.takeitsmart.in

TAKE IT SMART

Reg No. : 150027

ISO 9001 :2015

Internship Certificate

This Certifies that

K SHASHIDHAR

Student of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY BENGALURU**

Has completed Internship in **Autodesk Inventor Professional**

From **20th August 2022 to 20th September 2022**

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as
Part of the team during his/her tenure. We take this opportunity to thank him / her
And Wish him / her all the best for him / her future.



MSME
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA

#startupindia



Mallikarjun Kumbar
Director

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



Internship Report on

“TEMPLATE FOR ONLINE STRENGTH TRAINING CENTER”

Submitted in partial fulfilment of the requirements for the award
of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

KARTHIK D PATIL

1MV19ME028

Internship carried out at

VARCONS TECHNOLOGIES PVT. LTD.



Under the Guidance of

Dr. KIRAN KUMAR M
Asst. Professor
Department of Mechanical Engineering

Ms. SPOORTHI H C
Trainer
Varcons technology

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157
Academic year: 2022-23**

**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157**

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "**TEMPLATE FOR ONLINE STRENGTH TRAINING CENTER**" is a bonafide work carried out by **KARTHIK D PATIL (1MV19ME028)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.


23/5/23

Dr. Kiran Kumar M
Assistant Professor
Sir MVIT, Bengaluru




24.5.2023

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru



PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsur, Mysore
International Airport, Bengaluru-562157
Dr. Rakesh S.G.
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. 
2. 

Signature with Date


25/5/23

INTERNSHIP CERTIFICATE



Varcons Technologies Pvt Ltd
Communicate. Collaborate. Create

CERTIFICATE OF INTERNSHIP

This is to certify that **Karthik D Patil** whose USN is **1MV19ME028**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technologies Pvt. Ltd** from **6th February, 2023** to **9th March, 2023**.

The person to whom this certificate is addressed to has worked on a project titled **Template - Site to sell gym essentials**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, [CLICK HERE](#)



18 M G Road, Ulsoor, Bangalore-560001

www.varconstech.com

contact@varconstech.com

This certificate was generated using [CERTIFY.COM](#)

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



**VIII Semester B.E. Internship Report on
"EXPLORING THE ROLE OF ARDC IN THE DESIGN AND MANUFACTURING OF
LCA"**

Submitted in partial fulfillment of the requirements for the award of degree of Bachelor of
Engineering

In
MECHANICAL ENGINEERING

By
KARTHIK R
1MV19ME029

Under the Guidance Of

External Guide:

Mr. Ashok Thayagarajan

Manager-ARDC

Hindustan Aeronautics Limited(HAL)

Bangalore

Internal Guide:

Mr. Prashanth L

Assistant Professor

Mechanical Department

Sir MVIT Bangalore

Carried out at

Hindustan Aeronautics Limited(HAL) - Aircraft Research and Design

Center(ARDC)

Bangalore -560037



DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru

Academic Year:2022-23

**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

This is to certify that the Internship Report entitled "EXPLORING THE ROLE OF ARDC IN THE DESIGN AND MANUFACTURING OF LCA" submitted by KARTHIK R bearing USN-1MV19ME029 is a bonafide work carried out in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Sir M. Visvesvaraya Institute Of Technology during academic year 2022-23. It is certified that all contents of the report have been incorporated as per the guidelines of the university. The internship report has been approved as it satisfies the academic requirements in respect of Internship Report prescribed for the Bachelor of Engineering Degree.

21/5/23
25/5/23

Mr. PRASHANTH L
Assistant Professor
SirMVIT, Bengaluru

25.5.23

Dr. K S Shanmukharadhy
Professor and HOD Mechanical,
SirMVIT, Bengaluru

Sulash

PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnaiah Nagar, Munasammanahalli
International Airport Road, Bangalore-562 157
Principal

SirMVIT, Bengaluru

Name of the Examiners:

Signature with date

1. Arinasha P. S

A. K. P. S. 25/5/23

2. Shrinivas S

A. S. 25/5/23

ವಿಮಾನ ಅನುಸಂಧಾನ एवं अभिकल्प केन्द्र (ए आर डी सी)
AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)
ವಿಮಾನ ಸಂಕೀರ್ಣ / अभिकल्प कॉम्प्लेक्स / DESIGN COMPLEX
ಹಿಂದೂಸ್ತಾನ್ ಏರೋನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
हिन्दुस्तान एरोनॉटिक्स लिमिटेड
HINDUSTAN AERONAUTICS LIMITED



ಮಾರಾಠ್ ಹಾಲ್, ಬೆಂಗಳೂರು - 560037, ಭಾರತ
भारतहल्ली पोस्ट, बेंगलूरु - 560037, भारत
Marathahalli Post, Bengaluru - 560037, India
ದೂರ / ದೂರವಾಣಿ / Ph.: 91-80-22324312, 22316774
ಫ್ಯಾಕ್ಸ್ / ಫೇಕ್ಸ್ / Fax: 91-80-22314320

D/ARDC/HR/Proj/Cert/6913/22

28.09.2022

CERTIFICATE

This is to certify that **Mr. Karthik R (USN No. 1MV19ME029)** who is a student of B.E (Mechanical), Sir M Visvesvaraya Institute of Technology, Bangalore, has undergone **Internship Training** at HAL ARDC, Design Complex, Bengaluru from 01-09-2022 to 28-09-2022 on "**No-Pay-No-Fee-Basis**". He has been punctual, sincere and committed trainee. His conduct has been found Good.

2. The student brings in a lot of energy and enthusiasm in the work, he is structured in his approach and methodical in resolving a problem. He is resourceful and adaptive to working environment.



Ramesh K
(Ramesh K)

Chief Manager (HR)
ARDC, Design Complex.



ಸೇರಾಂಧಾಯಿತ ಕಛೇರಿ : 15/1, ಕಬ್ಬನ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ
पंजीकृत कार्यालय : 15/1, कब्बन रोड, बेंगलूरु - 560 001, भारत
Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India
ಸಿ ಐ ಎನ್ / ಸಿ ಆರ್ ಎನ್ / CIN: L35301KA1963GOI001622

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Jnana Sangma, Belagavi-590018



INTERNSHIP REPORT
ON
"FULL STACK WEB DEVELOPMENT"

Submitted in partial fulfillment of the requirements for the award of degree of

BACHELOR OF ENGINEERING
in
MECHANICAL ENGINEERING

Submitted by:
Kumar Shivam
(1M19ME030)

Internship carried out at
FRENCH EASE TECHNOLOGIES PVT LTD
BENGALURU

Under the guidance of:

Dr. G. Balakumar
Associate Professor, Dept. of ME
Sir MVIT, Bengaluru

Mr. AYUSH VERMA
Director,
FrenchEase Technologies Pvt. Ltd



DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
HUNASAMARANAHALLI, BENGALURU – 562157

ACADEMIC YEAR : 2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU -562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "**FULL STACK WEB DEVELOPMENT**" is a bonafide work carried out by **KUMAR SHIVAM (1MV19ME030)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **Internship (18MEI85)** prescribed for the award of Bachelor of Engineering.

Dr. G. Balakumar
Associate Professor
Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.

24.5.2023

Dr. K. S. Shanmukharadhya
Professor & HOD
Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsur, Mysore
International Airport Road, Bangalore-562 157
Prof. Rakesh S. G.

Principal
Sir MVIT, Bengaluru.

Names of the Examiners

- 1)
- 2)

Signature with Date

26/5/23

26/5/23

Company Certificate



FrenchEASE

Empowering Creativity

Certificate

Date: 04.08.2022

This is to certify that **Mr/Ms Kumar Shivam** has worked as Web-Designing Intern with FrenchEASE from **13/05/2022 to 13/06/2022**

During his tenure, Shivam worked on the Frontend (ReactJS) and software testing end to end. He also contributed to NLP algorithm and helped Senior Developer to deploy on live servers along with integrations of Rest API's.

In this period, he has shown a great amount of responsibility, sincerity, genuine willingness to learn, and zeal to take on new assignments and challenges. In particular, his coordination and technical skills are at par and his attention to detail is impressive.

We wish him every success in life.

With regards,

Satyam Singh,
Founder,
Team FrenchEASE.

Administrative Office: LIG 136,
Rajpura Colony, Phase-2,
Bhadohi, Uttar Pradesh -221401
Website: www.frenchease.com
Email: info@frenchease.com

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-590018



Internship Report on
Integral Coach Factory (ICF)

Submitted in partial fulfilment of the requirements for the award of
Bachelor of Engineering

in

MECHANICAL ENGINEERING

Submitted By

M TINKU RAJKUMAR

1MV19ME031



DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevaraya Nagar, Hunasamaranahalli, Yelahanka, Bengaluru, Karnataka 562157

ACADEMIC YEAR: 2022-23

Certificate?

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadeveraya Nagar, Hunasamranhalli, Yelahanka, Bengaluru, Karnataka 562157

DEPARTMENT OF MECHANICAL ENGINEERING**CERTIFICATE**

Certified that the internship report entitled on "Integral Coach Factory" is a bonafide work carried out by **M TINKU RAJKUMAR (1MV19ME031)** of Sir M. Visvesvaraya Institute of Technology, Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Internship report has been approved as it satisfies the academic requirements in respect of Project work prescribed for Bachelor of Engineering degree.

PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadeverayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157
Prof. Rakesh. S. G

Mr. R. Kennedy Sundhara Vadanam**Dr. K. S. Shanmukharadhya****Senior Section Engineer,****Professor and Head****Principal,****MWM,****Dept of Mech. Engg.****Sir MVIT, Bengaluru****Integral Coach Factory, Chennai****Sir MVIT, Bengaluru****MADHUKUMAR.K****Names of the Examiners****Signature with Date**1. **DR. SACHUDHANANDAN. S****25/05/23**2. **SB. Heelm****k 8/5**



सवारी डिब्बा कारखाना, चेन्नै - 600 038

रेल मंत्रालय की एक उत्पादन इकाई

INTEGRAL COACH FACTORY, CHENNAI - 600 038

A Production Unit Under Ministry of Railways



ISO/TS 22163:2017-IRIS, ISO 9001:2015-QMS, ISO 14001:2015-EMS, ISO 45001:2018-OHSMS, ISO 50001:2013-EAMS Certified.

Sl.No. : M/105/2022

Date : 05.09.2022



This is to certify that M. TINKU RAJKUMAR

Regn.No. 1MV19ME031 Course BE

Branch MECHANICAL THIRD Year, Student of

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGALORE - 562 157

has undergone Internship Training from 22.08.2022 to 05.09.2022

at Integral Coach Factory.



Principal 5/9/22

Technical Training Centre
ICF, Chennai-38

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



Internship Report on

“AUTODESK INVENTOR PROFESSIONAL”

Submitted in partial fulfilment of the requirements for the award
of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted By

MARUTHI P K

1MV19ME032

Internship carried out at
TAKE IT SMART PVT. LTD
VIJAYNAGAR-560040



Under the Guidance of

Mr. PRASHANTH L

Asst. Professor Dept. of Mech.
Sir MVIT, Bengaluru

Mr. RAGHUVENDRA

Asst. Designer Mechanical Engineer
Take It Smart Vijayanagar

DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157
Academic year: 2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "TAKE IT SMART PVT. LMT" is a bonafide work carried out by **MARUTHI P K (1MV19ME032)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.

21/11/23
25/05/23

Mr. PRASHANTH L
Assistant Professor
Sir MVIT, Bengaluru

25.5.23

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru

Sulandh

PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsarasanahalli
International Airport Road, Bangalore-562 157
Sir MVIT, Bengaluru

Names of the Examiners

1. Avinash P. S
2. Shivakumar

Signature with Date

25/5/23
25/5/23



Take It Smart (OPC) PVT LTD

14, SGN Arcade, 1st Floor, 2nd stage, 1st Main Rd, RPC Layout,
Vijayanagar, Bengaluru - 560 040 Mob. : 8050104212 / 8792697647
www.takeitsmart.in

TAKE IT SMART

Reg No. : 150027

ISO 9001 :2015

Internship Certificate

This Certifies that

MARUTHI P K

Student of SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY BENGALURU

Has completed Internship in Autodesk Inventor Professional

From 20th August 2022 to 20th September 2022

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as
Part of the team during his/her tenure. We take this opportunity to thank him / her
And Wish him / her all the best for him / her future.



Mallikarjun Kumbar
Director



#startupindia

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018**



**VIII Semester B.E. Internship Report on
"EXPLORING THE ROLE OF ARDC IN THE DESIGN AND MANUFACTURING
OF LCA"**

Submitted in partial fulfillment of the requirements for the award of degree of Bachelor of
Engineering

In
MECHANICAL ENGINEERING
By

**MOHAMMED YAHYA ADIL
1MV19ME033**

Under the Guidance Of

External Guide:
Mr. Ashok Thayagarajan
Manager-ARDC
Hindustan Aeronautics Limited (HAL)
Bangalore

Internal Guide:
Mr. Shivakumar S
Assistant Professor
Mechanical Department
Sir MVIT Bangalore

Carried out at
**Hindustan Aeronautics Limited (HAL) - Aircraft Research and Design
Center (ARDC)
Bangalore - 560037**



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru**

Academic Year: 2022-23

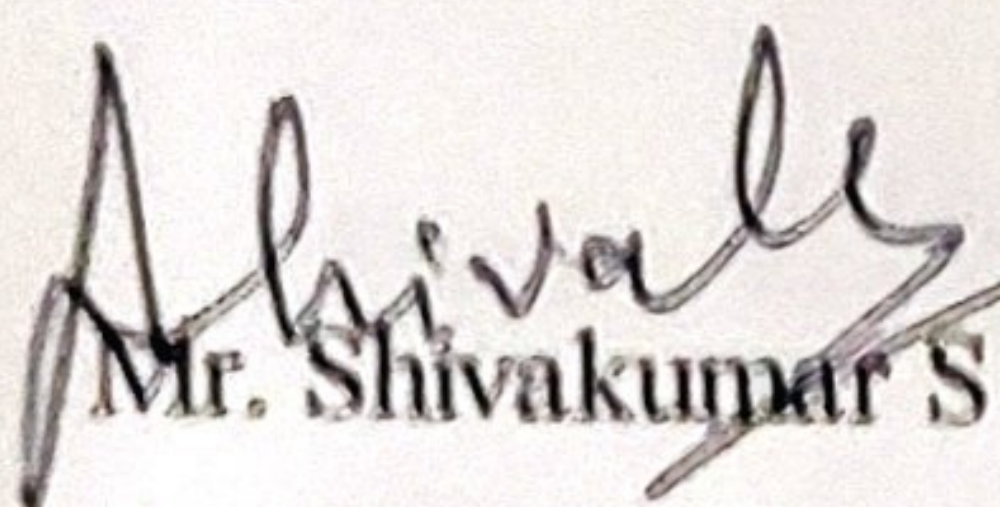
**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU**

DEPARTMENT OF MECHANICAL ENGINEERING

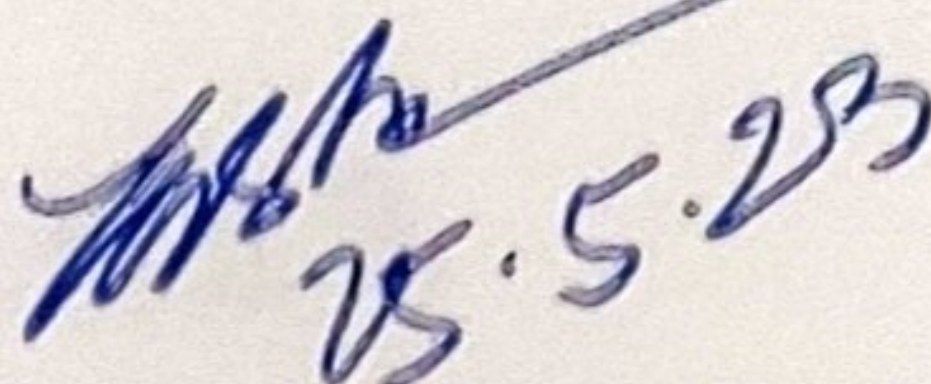


CERTIFICATE

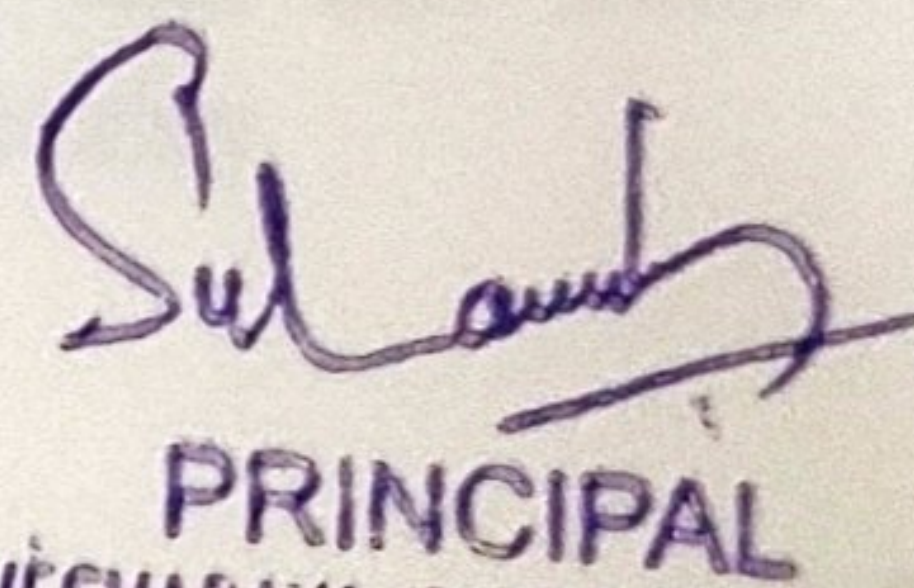
This is to certify that the Internship Report entitled " **EXPLORING THE ROLE OF ARDC IN THE DESIGN AND MANUFACTURING OF LCA** " submitted by **MOHAMMED YAHYA ADIL** bearing **USN-1MV19ME033** is a bonafide work carried out in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Sir M.Visvesvaraya Institute Of Technology during academic year 2022-23. It is certified that all contents of the report have been incorporated as per the guidelines of the university. The internship report has been approved as it satisfies the academic requirements in respect of Internship Report prescribed for the Bachelor of Engineering Degree.


Mr. Shivakumar S

Assistant Professor
SirMVIT, Bengaluru


25.5.23

Dr. K S Shanmukharadhya
Professor and HOD Mechanical,
SirMVIT, Bengaluru



PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishna Nagar, Bengaluru, Munasamaranahalli
International Airport Road, Bangalore-562 157
Principal
SirMVIT, Bengaluru

Name of the Examiners:

Signature with date

1. 

 25/5/23

2. 

 25/5/23

ವಿಮಾನ ಅನುಸಂಧಾನ ಮತ್ತು ವಿನ್ಯಾಸ ಕೇಂದ್ರ (ಆರ್‌ಡಿ‌ಸಿ)
AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)
ಆರ್‌ಡಿ‌ಸಿ / ವಿನ್ಯಾಸ ಸಂಕೀರ್ಣ / DESIGN COMPLEX
ಹಿಂದುಸ್ತಾನ ಏರೋನೌಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
HINDUSTAN AERONAUTICS LIMITED



ಹಿಂದುಸ್ತಾನ ಏರೋನೌಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
ವಿನ್ಯಾಸ ಸಂಕೀರ್ಣ, ಬೆಂಗಳೂರು - 560 001
ತೆಲೆಫೋನ್ : 2222 2222
ಟೆಲೆಗ್ರಾಫಿಕ್ : 2222 2222
ಪೋಸ್ಟಲ್ : 2222 2222

D/ARDC/HR/Proj/Cert/6913/22

28.09.2022

CERTIFICATE

This is to certify that Mr. MD Yahya Adil (USN No. 1MV19ME033) who is a student of B.E (Mechanical), Sir M Visvesvaraya Institute of Technology, Bangalore, has undergone Internship Training at HAL ARDC, Design Complex, Bengaluru from 01-09-2022 to 28-09-2022 on "No-Pay-No-Fee-Basis". He has been punctual, sincere and committed trainee. His conduct has been found Good.

2. The student brings in a lot of energy and enthusiasm in the work, he is structured in his approach and methodical in resolving a problem. He is resourceful and adaptive to working environment.



Ran
28/9

(Ramesh K)

Chief Manager (HR)
ARDC, Design Complex.

75
आज़ादी का
अमृत महोत्सव

ಪರಿಚಯಾಂಕ ಕಛೇರಿ : 15/1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ
पंजीकृत कार्यालय : 15/1, कबुन रोड, बंगलूरु - 560 001, भारत
Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India
१. २२२२ / सी आई एन / CIN: L35301KA1963GOI001622

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI



Internship Report on

“HINDUSTAN AERONAUTICS LIMITED”

Submitted in partial fulfilment of the requirements for the award of degree

BACHELOR OF ENGINEERING

In

DEPARTMENT OF MECHANICAL ENGINEERING

Submitted by

MOHAN M G

1MV19ME034

Internship carried out at

HINDUSTAN AERONAUTICS LIMITED

Ramesh Nagar, Vimanapura

Bengaluru-560017

Under the guidance of

Mr. Ramesh C G

Mr. Hemant D M

Assistant Professor

Manager

Department of Mechanical Engineering

HAL HELICOPTER DIVISION

SIR MVIT



DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY-562157

Academic year: 2022-23

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY


BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



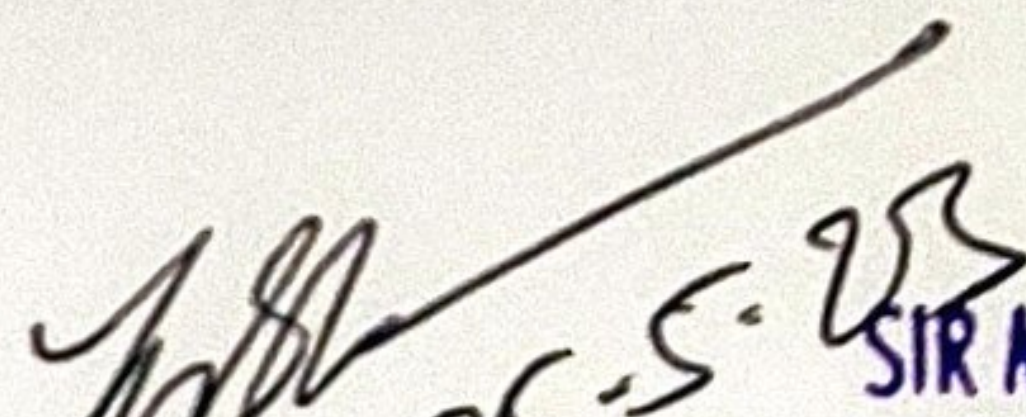
CERTIFICATE

Certified that the Internship review on "HINDUSTAN AERONAUTICS LIMITED" is bonafide work carried out by MOHAN M G bearing USN (1MV19ME034) in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of technical seminar prescribed for the Bachelor of Engineering degree.


25-05-2023

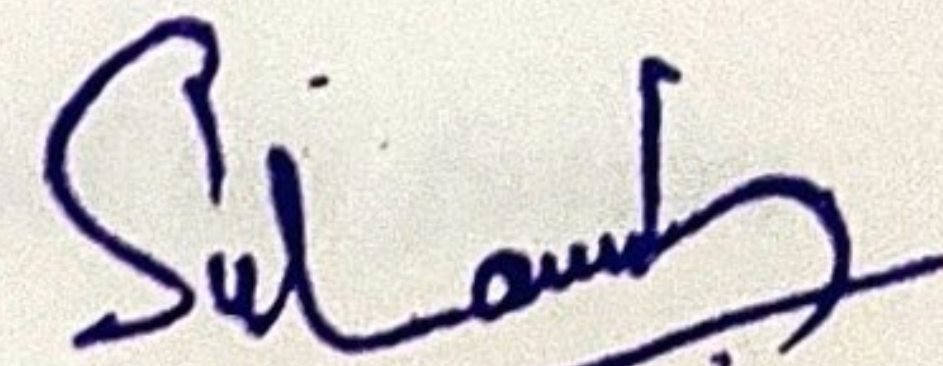
Mr. Ramesh C G
Assistant Professor

Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.


25-5-23

Dr. K. S. Shanmukharadhya
Professor & HOD

Dept. of Mechanical Engg.
Sir MVIT, Bengaluru.



PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Prof. Rakesh S. G.

Principal

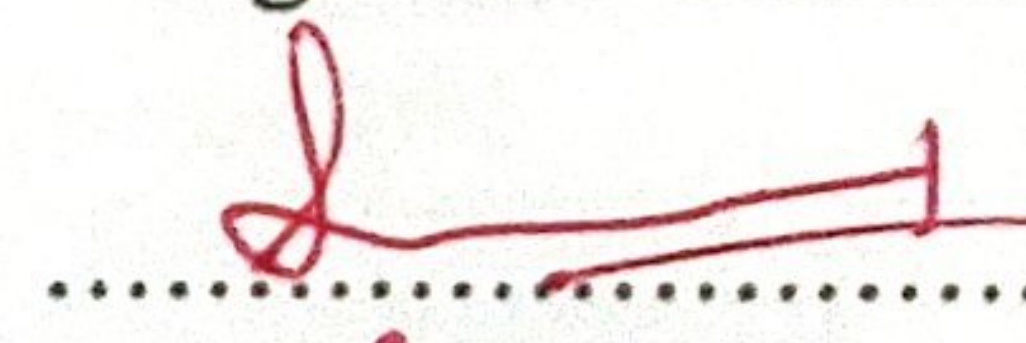
Sir MVIT, Bengaluru.

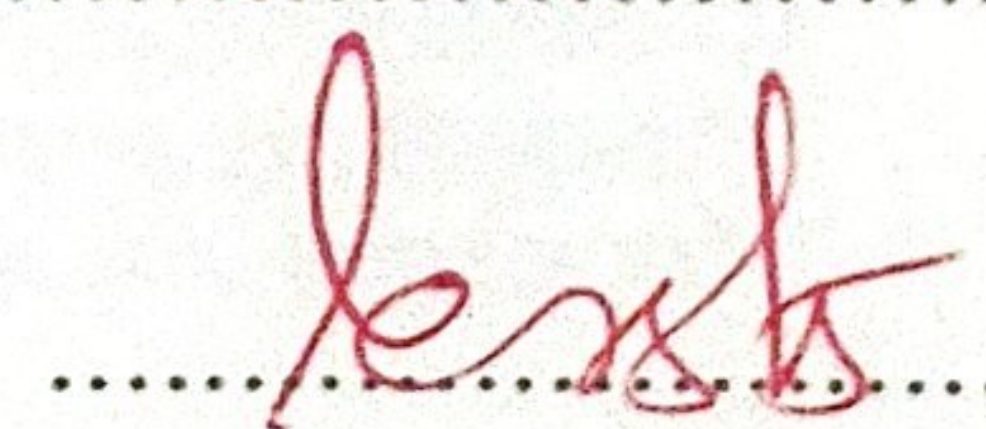
Names of the Examiners

1) DR. SACHUDHANANDAN. S

2) Dr. H. K. H. H.

Signature with Date

 25/05/23



मानव संसाधन विभाग
हेलिकॉप्टर प्रभाग (हैक)
हिन्दुस्तान एरोनाटिक्स लिमिटेड
पोस्ट बैग संख्या 1790, बेंगलूर - 560017, भारत



HR DEPARTMENT
HELICOPTER DIVISION (HC)
HINDUSTAN AERONAUTICS LIMITED
Post Bag No.1790, Bangalore-560 017, India
Ph. (बुरभाप) : 91-80-2231 7891, 2232 2918
Fax (फैक्स) : 91-80-22314717

Ref: H/A/HR/CM (PR)/2022

September 21, 2022

CERTIFICATE

This is to certify that Mr. Mohan M G (USN No : 1MV19ME034) student of BE – Mechanical Engineering, Sir. M. Visvesvaraya Institute of Technology, Bangalore, has undergone "Internship" in Methods & Tooling Department, HAL-Helicopter Division from 22.08.2022 to 21.09.2022.

2. His Punctuality, Conduct, Behaviour and Progress during the period of "Internship" was Satisfactory.

3. We wish Mr. Mohan M G all the very best in all his future endeavors.

For HAL-Helicopter Division

(G. H. Raju)
Chief Manager (Public Relations)

*ग. ह. राजू (पब्लिक रिलेशन्स)
मुख्य प्रबंधक (जन संबंध)
Chief Manager (Public Relations)
हैलिऑप्टर विभाग, एन.ए.एल., बेंगलूर-17
Helicopter Division, HAL, Bangalore-17*

पंजीकृत कार्यालय : 15/1, कब्बन रोड, बेंगलूर - 560001, भारत
Registered Office: 15/1, Cubbon Road, Bangalore-560 001, India
CIN: U35301KA1963GOI001622 E(ई) : hr.hcop@hal-india.com

www.hal-india.com

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590018**



Internship Report

At

“Automobili Lamborghini S.p.A”



Lamborghini Bengaluru

Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted by

NANDAN T N

1MV19ME035

Under the Guidance Of

Dr. K S Shanmukharadhya

Professor, Department of Mechanical Engineering



**DEPARTMENT OF MECHANICAL ENGINEERING,
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,**

Krishnadevarayanagar, Hunasamaranahalli, Bengaluru-562157

Academic year: 2022-2023


CERTIFICATE

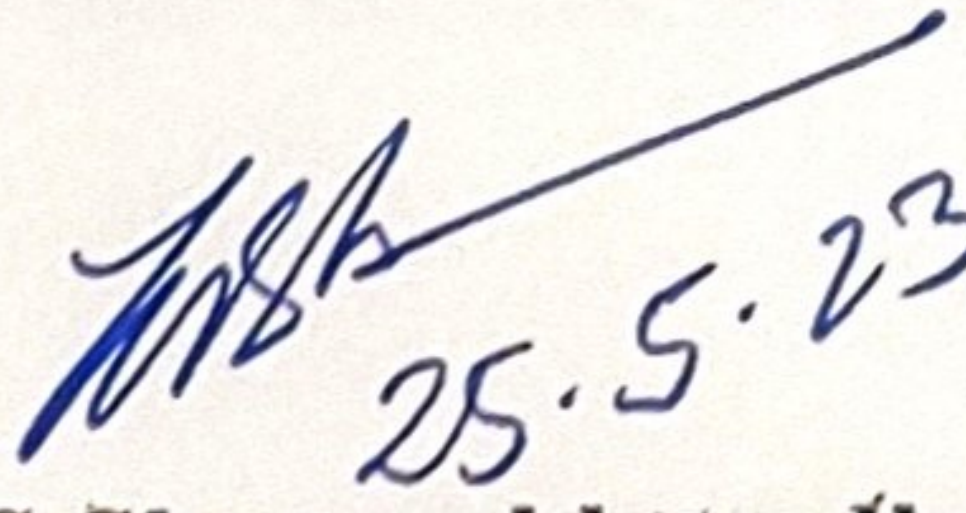
**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157**

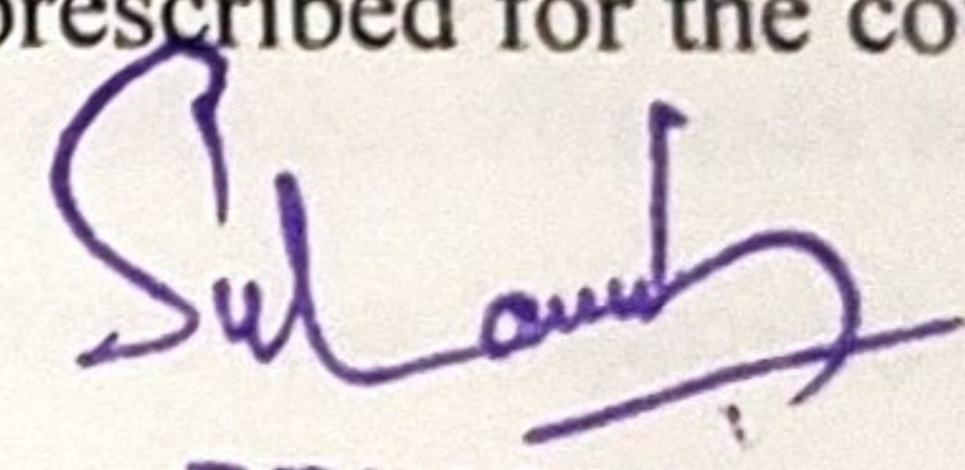
DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Certified that the Internship [18MEI85] entitled "LAMBORGHINI BENGALURU" carried out by **Mr. Nandan T N** bearing USN: 1MV19ME035 a Bonafied student of Sir M Visvesvaraya Institute of Technology in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internship have been executed under the directions of **Dr.K.S.Shanmukharadhya** The report has been approved as it satisfies the academic requirements in respect of Internship [18MEI85] prescribed for the course of Bachelor of Engineering.


Dr.K.S.Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT,Bengaluru



Dr.K.S.Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT,Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bengaluru - 562 157
Dr. Rakesh S. G
Principal
Sir MVIT
Bengaluru


Name of the Examiners

Signature with Date

1. Dr. Sachudhanandan

 25/05/23

2. Dr. Harish



Lamborghini Bengaluru (Hoysala Automotive Pvt Ltd)



Registered Office :
104, Ground Floor,
Infantry Techno Park,
Infantry Road, Bangalore - 560 001.
Ph : +91 80 2532 0513, 2559 5822,
2555 9384, 2559 0826
Fax : +91 80 2559 9515

Dt: 23.05.2023

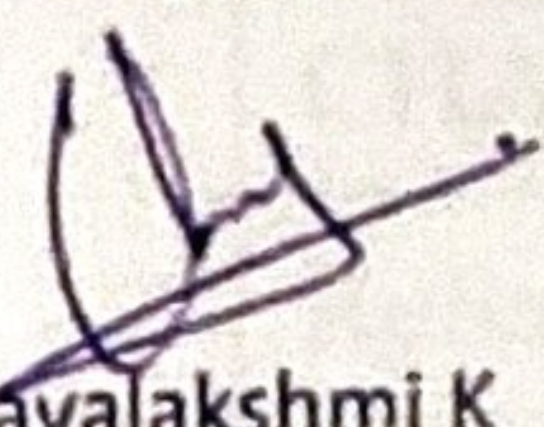
TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.Nandan T.N (Aadhar No: 510743896353) , S/O of Mr.Nagaraj T.K., successfully completed his internship for a duration of 6 weeks (from 25th August 2022 to 4th October 2022) in the field of After Sales of Lamborghini Bengaluru Unit.

During the period of his internship with us he had been exposed to different process of After Sales and was found punctual, hardworking and inquisitive.

We wish him every success in his life and career.

For Hoysala Automotives Private Limited


Vijayalakshmi K
Head-Human Resources



CIN : U50200KA2013PTC069677
Web : www.lamborhinebengaluru.com
Email Id : contact@lamborhinebengaluru.com

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590018, KARNATAKA, INDIA**



**INTERNSHIP REPORT ON
“STUDY ON FABRICATION AND TOTAL QUALITY MANAGEMENT OF
STAINLESS STEEL”**

**Submitted in partial fulfillment of the
requirements for the award of
BACHELOR OF ENGINEERING
In
MECHANICAL ENGINEERING**

Submitted By

NAVEEN D

1MV19ME036

**INTERNSHIP CARRIED OUT
AT**

**SIDDHI VINAYAKA FAB ENGINEERING PRIVATE LIMITED
No.206, 11th main 3rd Phase, Peenya Industrial Area, Bangalore – 560058**

Internal Guide

Mr. Nataraj M

Assistant Professor

Sir M Vivesvaraya Institute of Technology

External Guide

Mohammed Basheer Ahmed

Technical Director

Siddhi Vinayaka Fab Engineering



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR MVISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157, KARNATAKA, INDIA
Academic Year: 2022-23**

**SIR M. VISVESVARAYA INSTITUTE OF
TECHNOLOGY BENGALURU-562157, KARNATAKA,
INDIA**

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Internship report entitled **“STUDY ON FABRICATION AND TOTAL QUALITY MANAGEMENT OF STAINLESS STEEL”** is bonafide work carried out by **NAVEEN D (1MV19ME036)** in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship **(18MEI85)** prescribed for the Bachelor of Engineering degree.

Handwritten signature and date: 05-5-23

Mr. Nataraj M
Assistant Professor
Sir MVIT, Bengaluru

Dr. K S Shanmukharadhya
Professor and Head of
Mech Dept, Sir MVIT,

Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. *Arinash 1/35*
2. *Shivabhar*

Signature with Date

Handwritten signature and date: 05/5/23

CERTIFICATE



SIDHI VINAYAKA FAB ENGINEERING PVT. LTD.

No. 206, 11th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058.

Phone : 28390891, 41171891, 41170031, Telefax : 080-28390891

E-mail : sve@sidhivinayakafab.com, Website : www.sidhivinayakafab.com

CIN No. U27320KA2005PTC036311

Certification Under ISO 9001:2015, EN 15085-2 CL1, ASME 'U' & 'UM'



REF: SVE/30/2022-23

DATE: 22/09/2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **MR.NAVEEN D**, Pursuing B.E (Mechanical Engineering) department at **SIR M . VISVESVARAYA INSTITUTE OF TECHNOLOGY** affiliated to VTU Belagavi bearing USN Number **IMV19ME036** has completed Internship in our company for the duration of 30 days From 22/08/2022 TO 22/09/2022.

During the above period his conduct was good and he showed eagerness to learn the concept .

We wish him very best in all his future endeavors.

For,
SIDHI VINAYAKA FAB ENGINEERING PVT.LTD.

MOHAMED BASHEER AHMED.
(TECHNICAL DIRECTOR)



VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI - 590018



An Internship Report
On
“Production Management”

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING

Submitted by
NAVEEN RAJ PANDEY 1MV19ME037

Carried Out at
Champaran Tea & Industries



Under the guidance of

Internal Guide
Mr. RAMESH C G
Assistant Professor,
Department of Mechanical Engineering

External Guide
AWADH KISHORE PANDEY
Managing Director
Champaran Tea & Industries



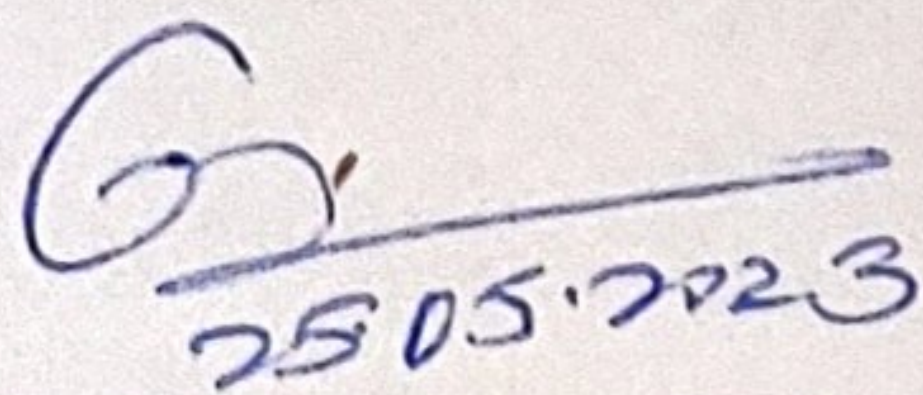
DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157
2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING

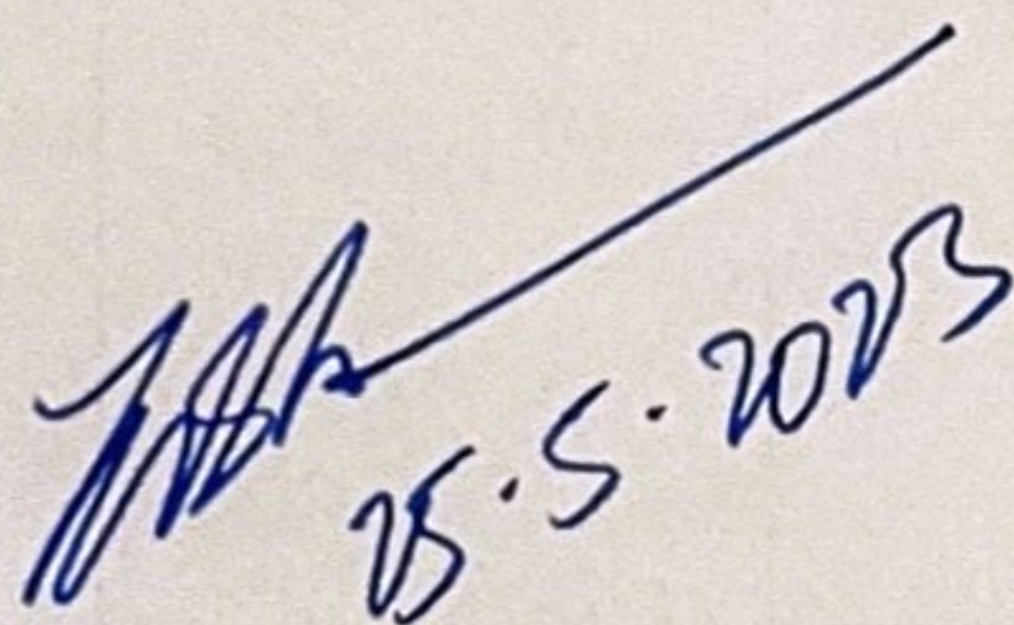


CERTIFICATE

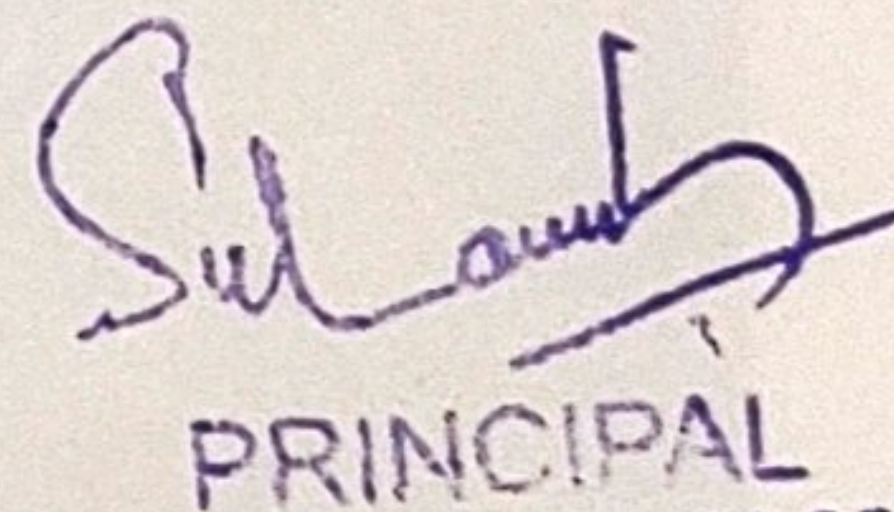
Certified that the Internship Report on " PRODUCTION MANAGEMENT" prepared by NAVEEN RAJ PANDEY bearing USN-1MV19ME037, a bonafide student of SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY. The report is in partial fulfilment of the requirements for the award of the degree of "Bachelor of Engineering" in Mechanical Engineering. From the Visvesvaraya Technological University, Belagavi, Karnataka, India, during the academic year 2022- 2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report submitted to the Department. The Seminar report has been approved as it satisfies the academic requirement in respect to the work prescribed for the said Degree.


25.05.2023

Signature of the Guide
Mr. RAMESH C G
Assistant Professor
Dept of ME


25.5.2023

Signature of HOD
Dr. K. S. Shanmukharadhya
Professor & Head Dept
of ME


PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Mysorammanahalli
International Airport Road, Bangalore-562 157

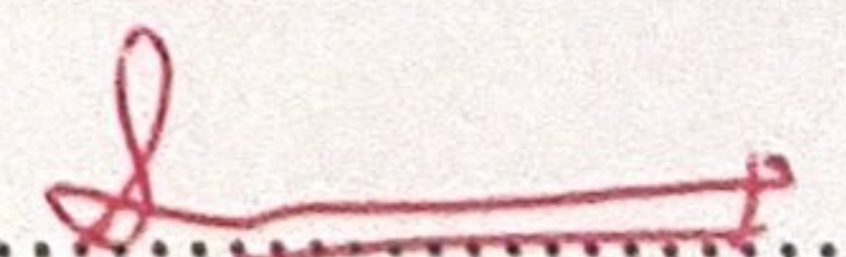
Signature of Principal
Prof. Rakesh S.G.
Principal
Sir MVIT, Bengaluru

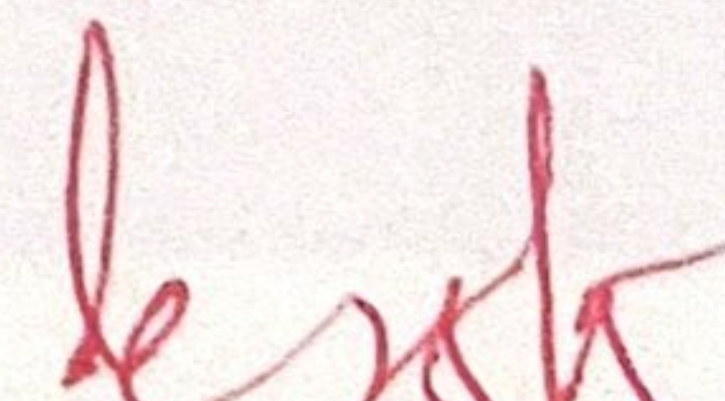
Name of the Examiners

(1) DR. SACHUDHANANDAN S

(2) SB HANM

Signature with Date

 25/05/23





Champan Tea & Industries Pvt. Ltd.

H.O. Sumitra Complex, WN-10, PO Taulaha (Rampnagar),

District: West Champaran, Bihar - 845455 (IN)

Corporate Identification Number: U15490BR2022PTC075075

Ref No CTI/2022-23/HR/OPS/017

Date September 25, 2022

TO WHOMSOEVER IT MAY CONCERN

We hereby certify that Mr. Naveen Raj Pandey (1MV19ME037), B.E. Mechanical Engineering student from Sir M. Visvesvaraya Institute of Technology, Bengaluru has undergone internship training in our organization from 25 August, 2022 to 23 September, 2022. During this period, he completed the project which was assigned to him and submitted the report to us.


We found him to be sincere during the above period and he has shown interest in gaining maximum knowledge with the guidance of our staff.

We wish him all the best in his future endeavors.

Sincerely,

Function Head (HR),
Champan Tea & Industries (Pvt) Ltd.



 operations@champanchai.com

<https://www.linkedin.com/company/champan-tea-industries-pvt-ltd/>

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi - 590 018, Karnataka, India



INTERNSHIP REPORT ON "LCA DESIGN AND DEVELOPMENT"

Submitted in partial fulfillment of the requirements for the award of the Degree

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted by

NIKHIL AJ

USN: 1MV19ME038

Internship carried out at

**HINDUSTAN AERONAUTICS
LIMITED**

BENGALURU, 560037

INTERNAL GUIDE

**Dr. K S Shanmukharadya
PROFESSOR AND HEAD
OF DEPARTMENT
MECHANICAL
ENGINEERING**

EXTERNAL GUIDE

**Mr. Alex George
DGM
HAL, ARDC,
BENGALURU-560037**



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY**

Krishnadevaraya nagar, Hunasamaranahalli, Bengaluru -562157

MAY 2023

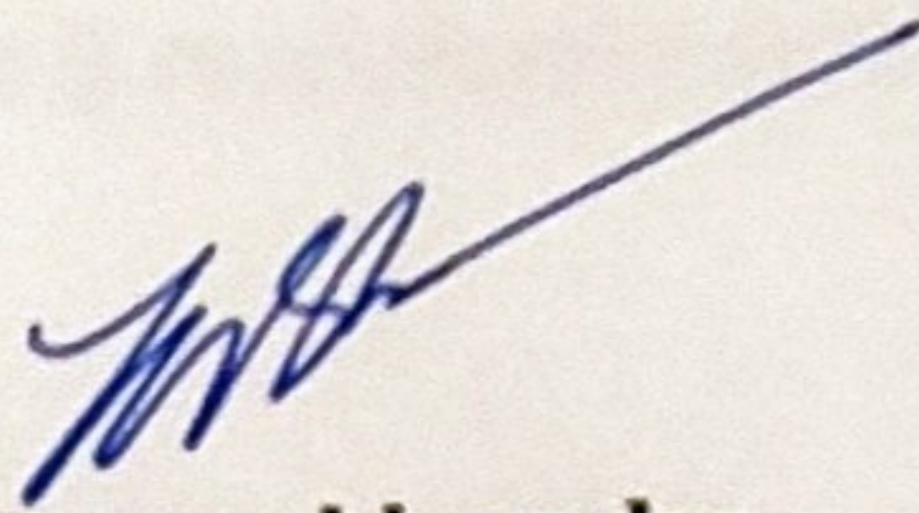
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

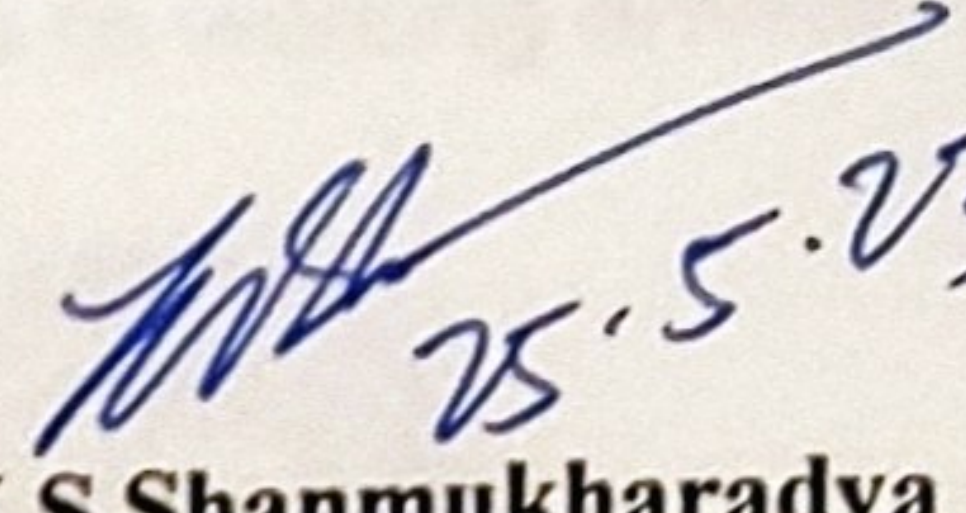
Department of Mechanical Engineering

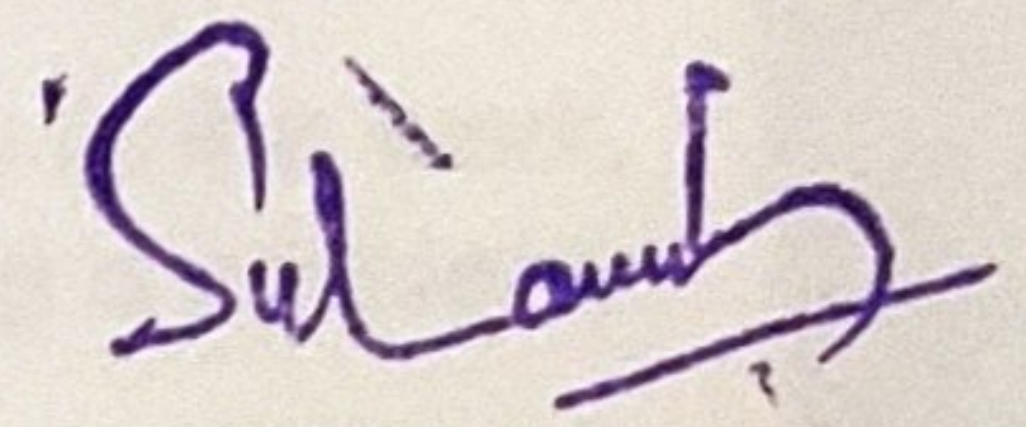


CERTIFICATE

This is to certify that **NIKHIL AJ**, a bonafide student of **Sir M. Visvesvaraya Institute of Technology, Bengaluru** has satisfactorily completed Industrial training from **HINDUSTAN AERONAUTICS LIMITED.** in partial fulfillment of the requirements as prescribed by the VTU for the award of **Bachelor of Engineering in Mechanical Engineering** and submitted this report during the academic year **2022 – 2023.**

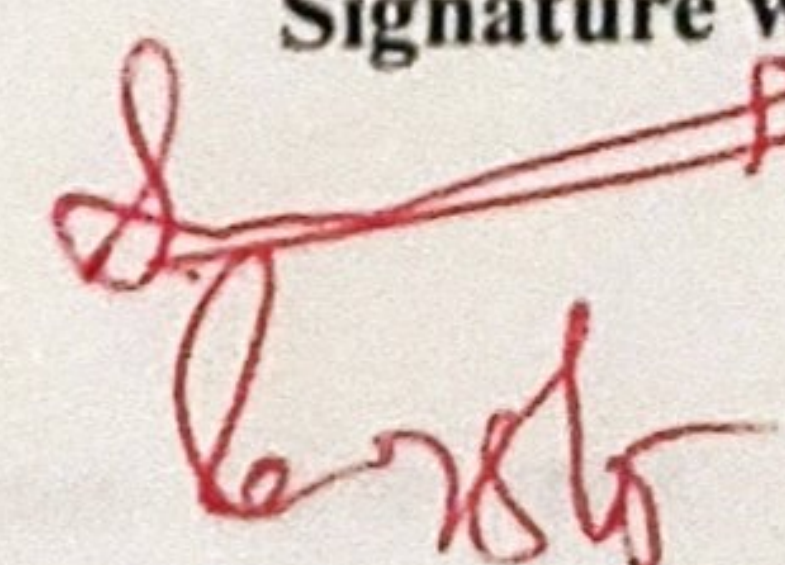
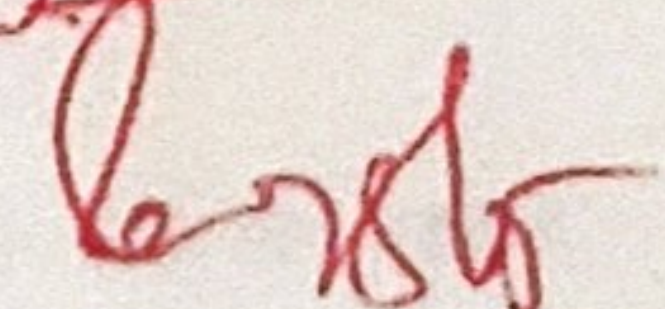

Dr. K S Shanmukharadya
Professor and HOD
Dept. of Mech
Engg. Sir MVIT
Bengaluru


Dr. K S Shanmukharadya
Professor and HOD
Dept. of Mech
Engg. Sir MVIT
Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Munasamara
International Airport Road, Bangalore-562157
Prof. Rakesh S.G
Principal
SIR MVIT
Bengaluru

INTERNSHIP REVIEW

Name of the Examiners
1. **DR. SACHUDHANANDAN. S**
2. **SB Keshav**

Signature with Date
1.  **23/05/23**
2. 

CERTIFICATE FROM THE INDUSTRY

ವಿಮಾನ ಸಂಶೋಧನೆ ಮತ್ತು ವಿನ್ಯಾಸ ಕೇಂದ್ರ (ಎ ಆರ್ ಡಿ ಸಿ)
विमान अनुसंधान एवं अभिकल्प केन्द्र (ए आर डी सी)
AIRCRAFT RESEARCH & DESIGN CENTRE (ARDC)
ವಿನ್ಯಾಸ ಸಂಕೀರ್ಣ / अभिकल्प कॉम्प्लेक्स / DESIGN COMPLEX
ಹಿಂದೂಸ್ತಾನ್ ಏರೋನೌಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
हिन्दुस्तान एरोनॉटिक्स लिमिटेड
HINDUSTAN AERONAUTICS LIMITED



ಮಾರಾಠಾಹಳ್ಳಿ ಪೋಸ್ಟ್, ಬೆಂಗಳೂರು - 560 037, ಭಾರತ
Marathahalli Post, Bengaluru - 560 037, India
ದೂರ / ದೂರವಾರ್ತೆ / Ph: 91-80-22324312, 22316774
ಫ್ಯಾಕ್ಸ್ / ಫೇಸ್ / Fax: 91-80-22314320

D/ARDC/HR/Proj/Cert/6838/22

20.09.2022

CERTIFICATE

This is to certify that **Mr. Nikhil A J (USN No.1MV19ME038)** who is a student of B.E (Mechanical), Sir M Visvesvaraya Institute of Technology, Bengaluru, has undergone **Internship Training** at HAL ARDC, Design Complex, Bengaluru from 24-08-2022 to 20-09-2022 on "**No-Pay-No-Fee-Basis**". He has been punctual, sincere and committed trainee. His conduct has been found Very Good.

2. The student brings in a lot of energy and enthusiasm in the work, he is structured in his approach and methodical in resolving a problem. He is resourceful and adaptive to working environment.




(Prachi Dalvi)
Manager (HR)
ARDC, Design Complex.

www.hal-india.co.in

ನೋಂದಾಯಿತ ಕಛೇರಿ : 15/1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ
पंजीकृत कार्यालय : 15/1, कब्बन रोड, बेंगलूर - 560 001, भारत
Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgavi-590 018, Karnataka, India



An Internship Report
On

PROJECT MANAGEMENT

Submitted in Partial Fulfillment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted By

NIKITA SINGH

USN: 1MV19ME039

Carried out at
Olcademy, Bengaluru

Under the Guidance of

Internal Guide
Mr. K Ejaz Ahmed
Associate Professor
Dept. Of ME, SMVIT

External Guide
Akhil Kharbanda
Associate Vice President
Olcademy



Department of Mechanical Engineering
Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]
Bengaluru-562157
2022-2023

Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]

Bengaluru-562157
2022-2023



CERTIFICATE

Certified that the Internship Report entitled "**PROJECT MANAGEMENT**" carried out by **Ms. Nikita Singh** bearing **USN: 1MV19ME039** a Bonafide student of **Sir M Visvesvaraya Institute of Technology** in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year **2022-23**. It is certified that all corrections/suggestions indicated for **INTERNSHIP** have been executed under the directions of **Mr. K Ejaz Ahmed**. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP** prescribed for the said degree.

Signature of Guide

Mr. K Ejaz Ahmed
Associate Professor
Dept of ME
SIR MVIT

24.5.2023

Signature of HOD

Dr. K S Shanmukharadhya
HOD and Professor
Dept of ME
SIR MVIT

PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Murumbanahalli
International Airport Road, Bengaluru-562 157

Prof. Rakesh S G
Principal
SIR MVIT

Names of the Examiners

1)

2)

Signature with Date

COMPANY CERTIFICATE



This certificate is awarded to
Nikita Singh
in appreciation of your successful completion
of the internship for the position of *Project Management Intern* at Olcademy.
The internship was conducted between 21-08-22 to 18-09-22

A handwritten signature in black ink, appearing to be 'Akhil Kharbada'.

AKHIL KHARBADA
Associate Vice President

Verification ID : ICPM27FV30IVC10890

To verify this certificate log on to www.olcademy.com/certificate or write to careers@olcademy.com

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI - 590018



An Internship Report
On
"MANUFACTURING ENGINEERING"

Submitted in partial fulfilment of the requirements for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted by
NISHANTH KUMAR M **1MV19ME040**

Carried Out at
SIR MECCNICA SERVICE INDIA PVT. LTD.



Under the guidance of

Internal Guide
Mr. RAMESH C G
Assistant Professor,
Department of Mechanical Engineering

External Guide
SANJEEV SAXENA
Country Head
Sir Meccanica India



DEPARTMENT OF MECHANICAL ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

2022-2023

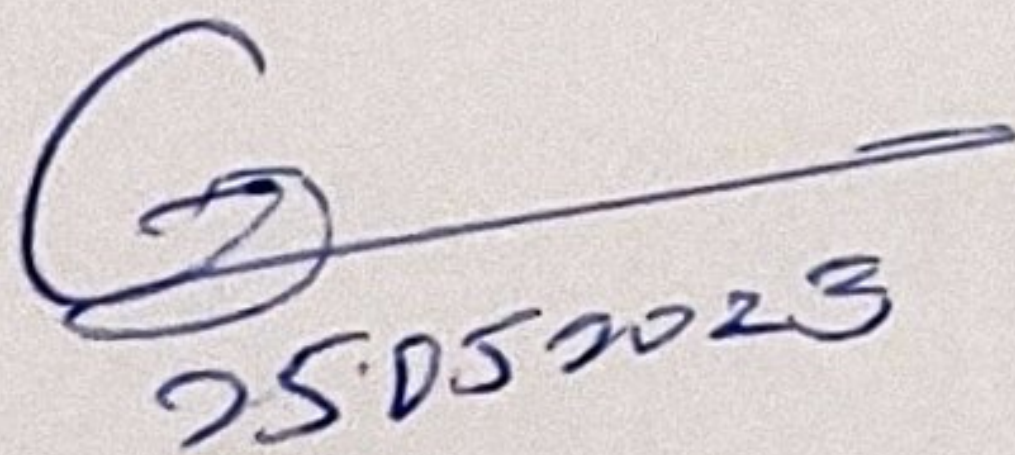
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

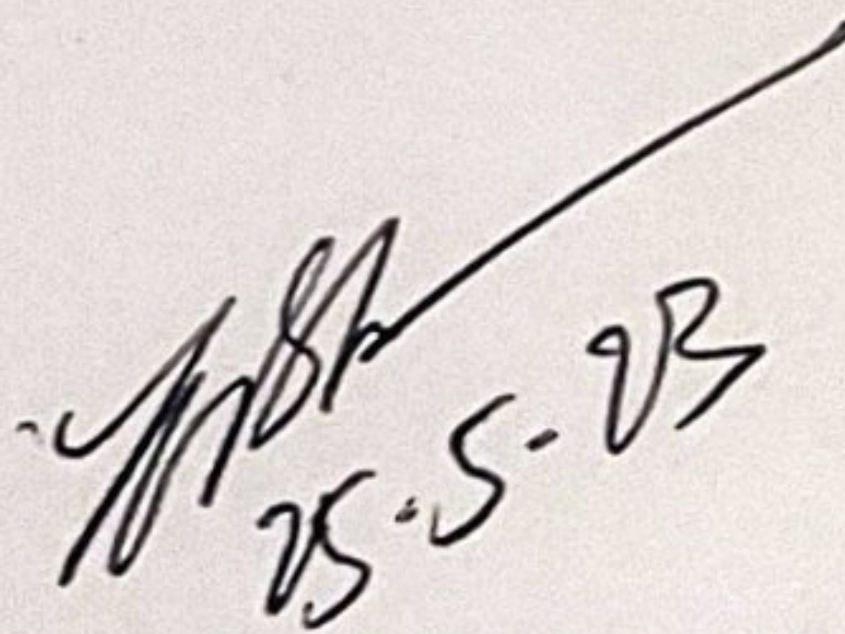


CERTIFICATE

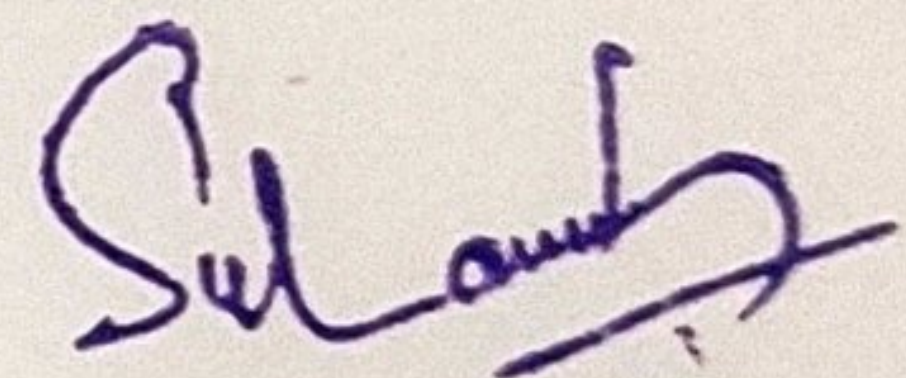
Certified that the Internship Report on **"MANUFACTURING ENGINEERING"** prepared by **NISHANTH KUMAR M** bearing **USN-1MV19ME040**, a bonafide student of SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY. The report is in partial fulfilment of the requirements for the award of the degree of "Bachelor of Engineering" in Mechanical Engineering. From the Visvesvaraya Technological University, Belagavi, Karnataka, India, during the academic year 2022- 2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report submitted to the Department. The Seminar report has been approved as it satisfies the academic requirement in respect to the work prescribed for the said Degree.


25/05/2023

Signature of the Guide
Mr. RAMESH C G
Assistant Professor
Dept of ME


25-5-23

Signature of HOD
Dr. K. S. Shanmukharadhya
Professor & Head
Dept of ME



PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsur, Mysore
International Airport Road, Bangalore-562 157


Signature of Principal
Prof. Rakesh S.G.
Principal
Sir MVIT, Bengaluru

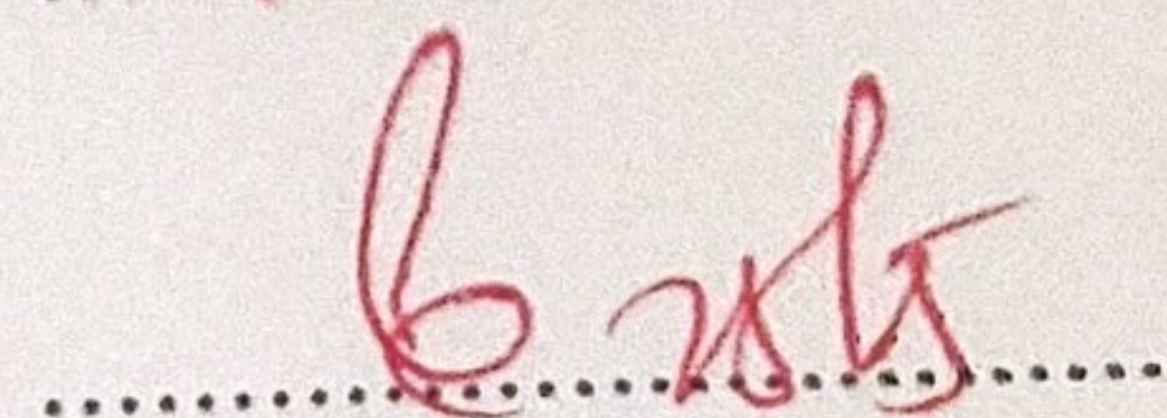
Name of the Examiners

(1) Dr. Sachudhanandan S

(2) Dr. Halim

Signature with Date

 25/05/23





WORLD LEADER



PORTABLE MACHINE TOOLS

SIR MECCANICA SERVICE INDIA PRIVATE LIMITED

22, Bougain Villa Marg, (2nd Floor) DLF City, Phase II, Gurgaon - 122002

www.sirmeccanica.com

PH.: +91-124 - 4108866

CIN: U51909DL2011PTC219714

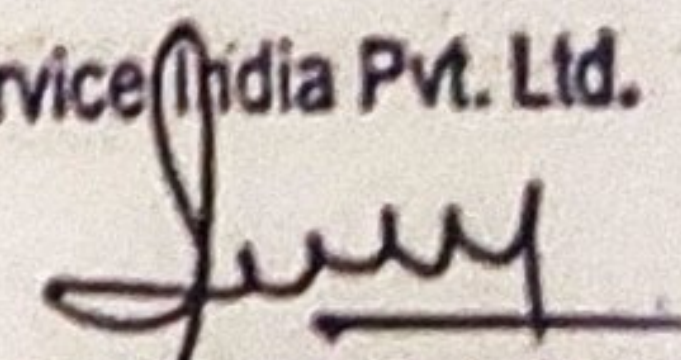
GST Number: 06AAPCS8131A1ZH
Email : sales@sirmeccanicaIndia.com

TO WHOM SO EVER IT-MAY CONCERN

This is to certify that Mr Nishanth Kumar M, pursuing his Bachelor of Engineering in Mechanical Engineering from Sir M. Visvesvaraya Institute of Technology has completed Summer Internship at Manufacturing Engineering Project under the guidance of our organization from 20th Aug to 20th September 2022.

We found him sincere, hardworking, technically sound and result oriented. He worked well as part of a team during his tenure. We take this opportunity to wish him all the best for future endeavours.

For Sir Meccanica Service India Pvt. Ltd.


Authorised Signatory

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018



Internship Report On

**“STUDY OF DIFFERENT MANUFACTURING PROCESS
AT HMT”**

Submitted in partial fulfillment of the requirements for the award
of Bachelor of Engineering
in

MECHANICAL ENGINEERING

Submitted By

NITESH NADAGERI 1MV19ME041

For the academic year 2022-2023

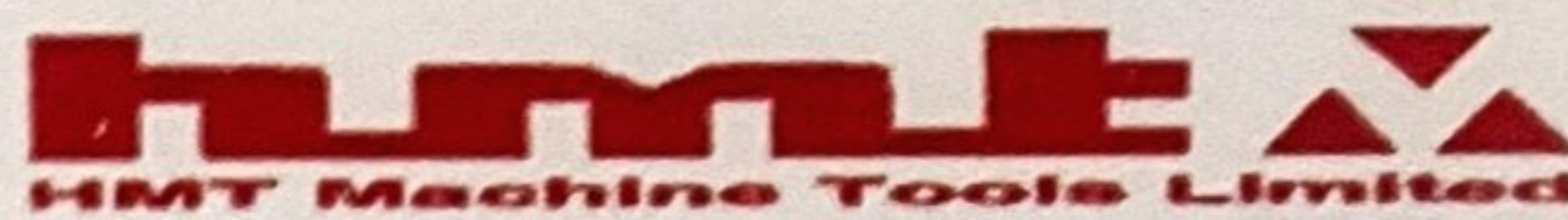
At

“HMT MACHINE TOOLS LIMITED”

Bangalore Complex

HMT colony, HMT Estate, Jalahalli, Bengaluru, Karnataka 560013

Duration: 1 Month (22-08-2022 to 19-09-2022)



Under the guidance of

Internal Guide
Mr. S B HALESH
Associate Professor
Dept. of Mechanical Engineering,
Sir MVIT Bengaluru

External Guide
Mr. ATMANAND N
Training Officer
HMT Machine Tools Limited
Jalahalli, Bengaluru



DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)
Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157
Academic year: 2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)
Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157

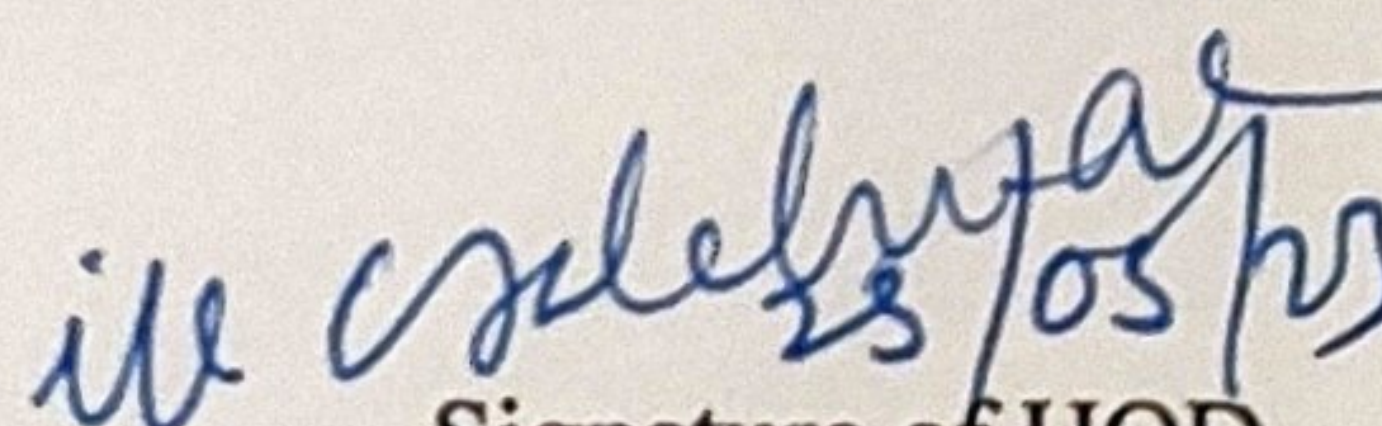
DEPARTMENT OF MECHANICAL ENGINEERING

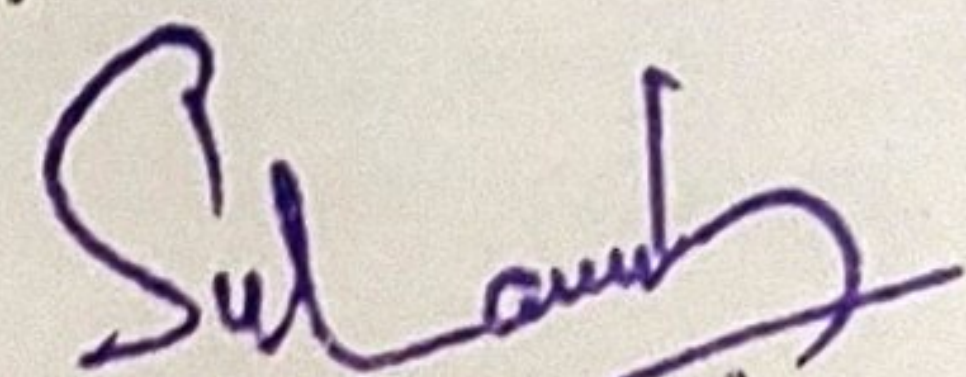


CERTIFICATE

Certified that the internship entitled “STUDY OF DIFFERENT MANUFACTURING PROCESS” carried out by **Mr. NITESH NADAGERI (USN: 1MV19ME041)**, a bonafide student of Sir M. Visvesvaraya Institute of Technology, Bengaluru in partial fulfilment for the requirements for the award of the degree of **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for the above-mentioned degree.


Signature of Guide
Mr. S B HALESH


Signature of HOD
Dr. K S SHANMUKHARADHYA

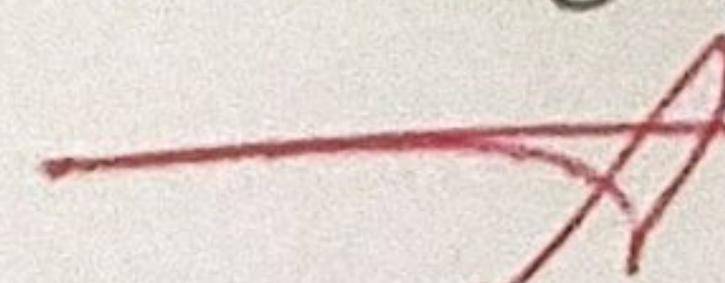

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157
Signature of Principal
Prof. RAKESH S G

External Viva

Name of the Examiners:

1. Anurag P.S
2. Shivakum

Signature with date

 25/5/20

CERTIFICATE

ISO 9001 : 2008 Unit



RIGHT TO
INFORMATION

एचएमटी मशीन टूल्स लिमिटेड
(एचएमटी लिमिटेड की सम्पूर्ण स्वामित्वधीन अयुक्तगी)

(भारत सरकार का अयुक्तगी)

प्रशिक्षण केंद्र

बैंगलूर कॉम्प्लेक्स

जालहल्ली पी.ओ., बैंगलूर 560 013, भारत

दूरभाष : +91-80-2838 8365

फैक्स : +91-80-2838 2797

ई-मेल : mbxtrg@hmtmachinetools.com

वेब साईट : www.hmtmachinetools.com



HMT MACHINE TOOLS LIMITED

(A Wholly owned Subsidiary of HMT Ltd.)

(A Government of India Undertaking)

TRAINING CENTER

BANGALORE COMPLEX

Jalahalli P.O., Bengaluru - 560 013, INDIA

Phone : +91-80-2838 8365

Fax : +91-80-2838 2797

E-mail : mbxtrg@hmtmachinetools.com

Website : www.hmtmachinetools.com

Ref: MBX/TC/2022-23

21-09-2022

CERTIFICATE

This is to certify that Mr. Nitesh Nadageri (USN 1MV19ME041), Student of BE- Mechanical Engineering from Sir M Visvesvaraya Institute of Technology, Bengaluru has successfully completed his "INTERNSHIP" at HMT MACHINE TOOLS LIMITED, BANGALORE COMPLEX from 22-08-2022 to 19-09-2022 as partial fulfilment for the award of degree.

During the period of Internship, the student was found to be regular and his conduct was good.

For HMT Machine Tools Ltd.



Chief of Training
HMT Machine Tools Limited
Bangalore Complex (MBX)
BANGALORE - 560 013
Officer in Charge

**Visvesvaraya Technological University
Belagavi, Karnataka-590 018**



Internship Report on

“EMBEDDED SYSTEM & IOT”

Internship Report submitted in partial fulfilment of the
requirement for the award of

Bachelor of Engineering

In

Mechanical Engineering

Submitted by

PRADEEP SADANAND BIDARI

1MV19ME042

Internship carried out at

TAKE IT SMART PVT LTD

VIJAYANAGAR-560040



Under the guidance of

Mr. H S YESHAVANTHA

Assistant Professor

Sir MVIT, Bengaluru

Mr. Jagannath

Trainer

Take it Smart

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157**

2022-2023

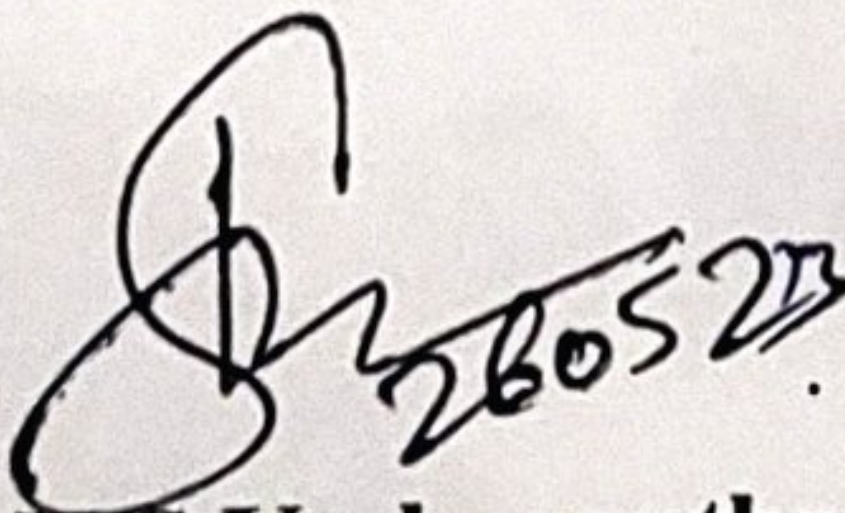
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

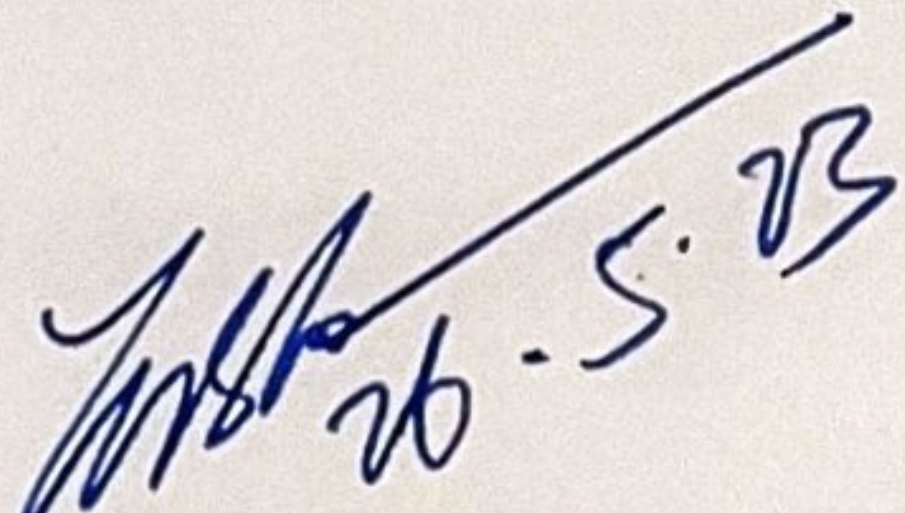
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "**EMBEDDED SYSTEM AND IOT**" is a bonafide work carried out by **PRADEEP SADANAND BIDARI(1MV19ME042)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERSHIP WORK(18MEI85)** prescribed for the course of Bachelor of Engineering.


Mr. H S Yeshavantha
Assistant Professor
Sir MVIT, Bengaluru

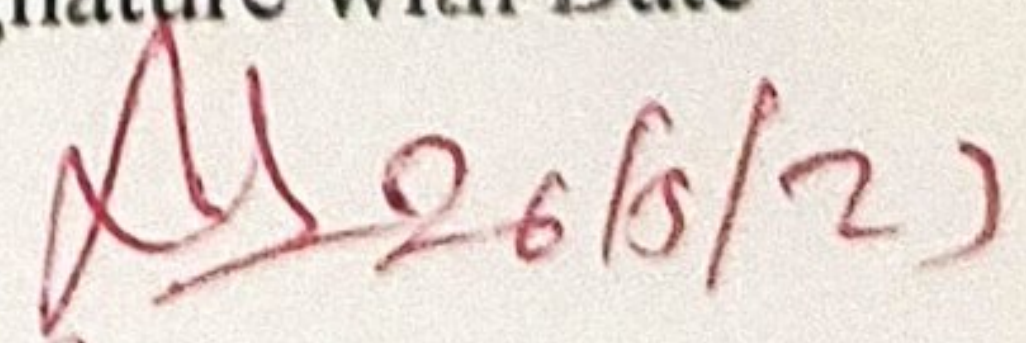
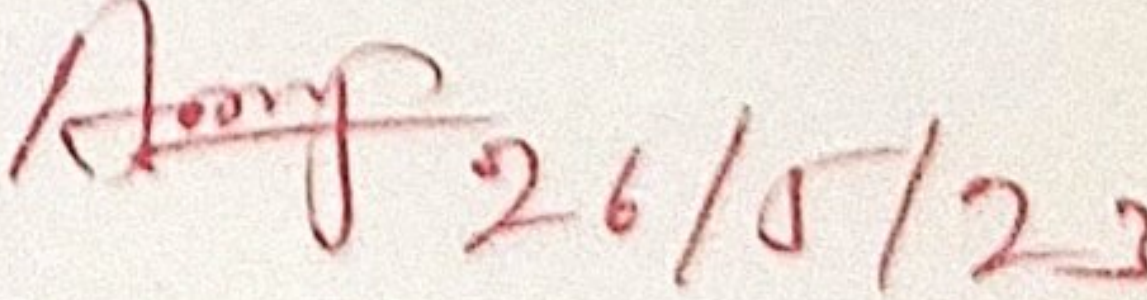

Dr. K S Shanmukharadhya
Professor and Head of
Mech.Dept., Sir MVIT, Bengaluru

Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. Shivabima
2. PRAKASHA. A. M

Signature with Date


26/5/23

26/5/23



Take It Smart (OPC) PVT LTD

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Internship Certificate

This Certifies that

PRADEEP SADANAND BIDARI

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Student of _____

Embedded System and IOT

Has completed Internship in _____

28th January 2023 to 28th February 2023

From _____

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as
Part of the team during his/her tenure. We take this opportunity to thank him / her
And Wish him / her all the best for him / her future.



Mallikarjun Kumbar
Director



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम

#startupindia

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



Internship Report[18MEI85] On

“STUDY OF DIFFERENT MANUFACTURING PROCESS”

Submitted in partial fulfillment of the requirements for the award of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted By

PRAJWAL K

1MV19ME043

For the academic year 2022-2023

Internship carried out at

“HMT MACHINE TOOLS LIMITED”

Bangalore Complex

HMT colony , HMT Estate ,Jalahalli, Bengaluru, Karnataka 560013

Duration: 1 Month (22-08-2022 to 19-09-2022)

Internal Guide

Mr. JANARDHANA K

Associate Professor

Department of Mechanical Engineering

Sir MVIT,Bengaluru-562157.

External Guide

Mr. ATMANAND N

Training officer

HMT Machines Tools Ltd

Jalahalli, Bengaluru 560013



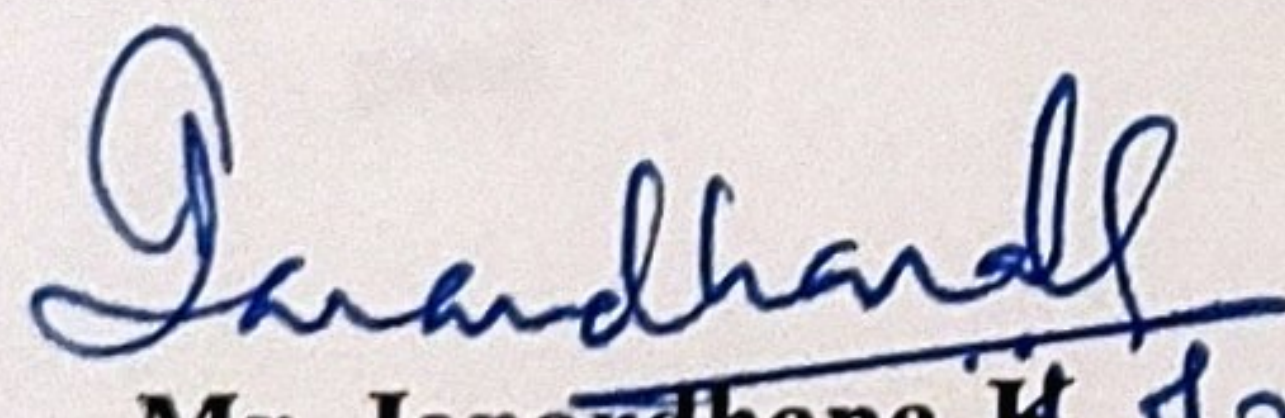
**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

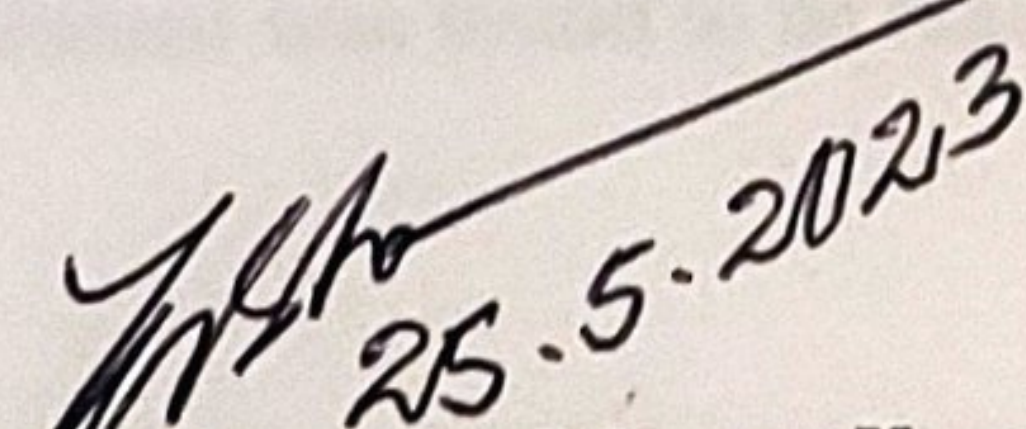
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING

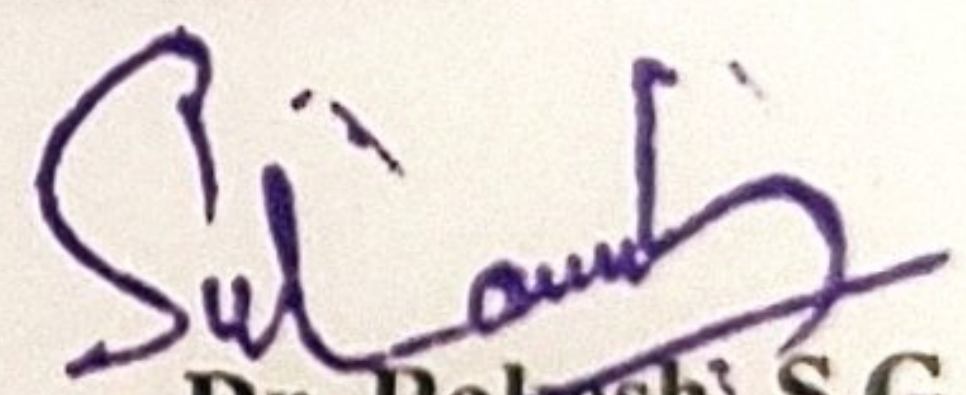


CERTIFICATE

This is to certify that the Internship Report [18MEI85] entitled “**STUDY OF DIFFERENT MANUFACTURING PROCESS**” is a bonafide work carried out by **PRAJWAL K(1MV19ME043)** student of **SIR M Visvesvaraya Institute of Technology** has successfully completed the internship program in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of the prescribed for the Bachelor of Engineering Degree.


Mr. Janardhana K.
Associate Professor
Dept of Mech Engg
Sir MVIT, Bengaluru


Dr. K. S. Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru



Dr. Rakesh S G
Principal
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunsarasanahalli
International Airport Road, Bangalore-562 157

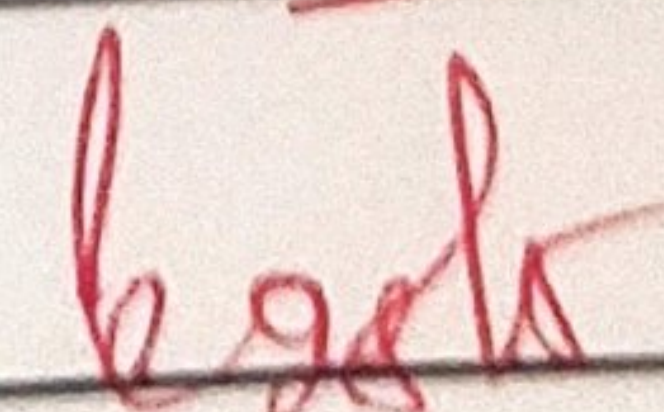
Name of the Examiners

1. Dr. SACITUD HANANDAN S

2. Dr. HANUM

Signature with Date

 25/05/23



ISO 9001 : 2008 Unit



RIGHT TO
INFORMATION

एचएमटी मशीन टूल्स लिमिटेड
(एचएमटी लिमिटेड की सम्पूर्ण स्वामित्वधीन अनुषंगी)
(भारत सरकार का उपक्रम)

शरीक्षण केंद्र
बेंगलूर कॉम्प्लेक्स
जालहल्ली पी.ओ., बेंगलूर 560 013, भारत
दूरभाष : +91-80-2838 8365
फैक्स : +91-80-2838 2797
ई-मेल : mbxtrg@hmtmachinetools.com
वेब साईट : www.hmtmachinetools.com



HMT MACHINE TOOLS LIMITED

(A Wholly owned Subsidiary of HMT Ltd.)

(A Government of India Undertaking)

TRAINING CENTER

BANGALORE COMPLEX

Jalahalli P.O., Bengaluru - 560 013, INDIA

Phone : +91-80-2838 8365

Fax : +91-80-2838 2797

E-mail : mbxtrg@hmtmachinetools.com

Website : www.hmtmachinetools.com

Ref: MBX/TC/2022-23

21-09-2022

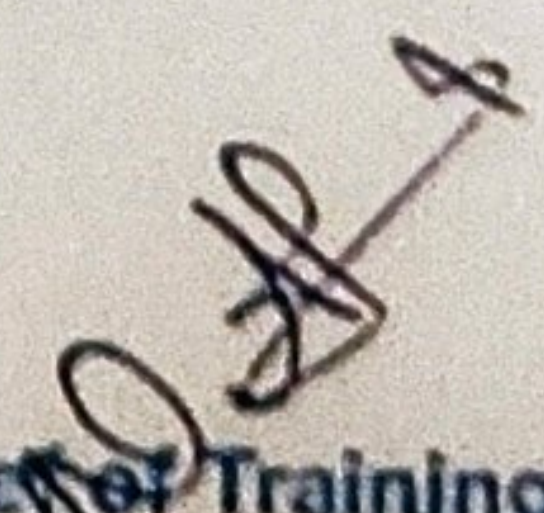
CERTIFICATE

This is to certify that Mr. Prajwal K (USN 1MV19ME043), Student of BE- Mechanical Engineering from Sir M Visvesvaraya Institute of Technology, Bengaluru has successfully completed his "INTERNSHIP" at HMT MACHINE TOOLS LIMITED, BANGALORE COMPLEX from 22-08-2022 to 19-09-2022 as partial fulfilment for the award of degree.

During the period of Internship, the student was found to be regular and his conduct was good.

For HMT Machine Tools Ltd.




Chief of Training
HMT Machine Tools Limited
Bangalore Complex (MBX)
BANGALORE - 560 013

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



Internship Report on
“CEMENT MANUFACTURING AND PROCESSING”

Submitted in partial fulfilment of the requirements for the award
of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

PRASHANTH IMV19ME044

Internship carried out at

ULTRATECH CEMENT LIMITED

**UNIT: RAJASHREE CEMENT WORKS
ADITYA NAGAR, MALKHED ROAD,
GULBARGA-585292**



Under the Guidance of

Mr. H S YESHVANTHA
Asst. Professor
Department of Mechanical Engineering

Mr. GOPAL CHAWAN
(AGM- mechanical)
Rajashree cement works


**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157
Academic year: 2022-23**

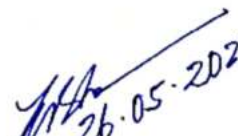
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "**CEMENT MANUFACTURING AND PROCESSING**" is a bonafide work carried out by **PRASHANTH(1MV19ME044)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.


Mr. H S Yeshvantha
Assistant Professor
Sir MVIT, Bengaluru

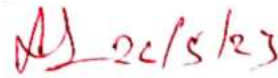
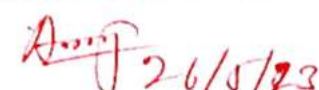

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Mysuramaranahalli
International Airport Road, Bangalore-562157
Dr. Rakesh S C
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. Saivabhanu
2. Prakash A.M

Signature with Date


26/5/23

26/5/23

INTERNSHIP CERTIFICATE



06.10.2022

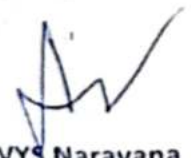
TO WHOMSOEVER IT MAY CONCERN

We hereby certify that Mr. Prashanth (1MV19ME044), B.E. Mechanical Engineering student from Sir M. Visvesvaraya Institute of Technology, Bengaluru has undergone internship training in our organization from 08.09.2022 to 06.10.2022. During this period, he was assigned the project & which he completed and submitted report to us.

We found him to be sincere during the above period and shown interest to gain maximum knowledge with the guidance of our staff.

We wish all success in his academic excellence.

For UltraTech Cement Ltd.,
(Unit: Rajashree Cement Works)



KVVYS Narayana
Function Head-HR



UltraTech Cement Limited (Unit: Rajashree Cement Works)
Adityanagar, Malakhed Road - 585 292, Dist. Kalaburagi, Karnataka, India
Tel: (08441) 288888 | Fax: 08441-288624 | E-Mail: rcooperator@adityabirla.com | Web: ultratechcement.com
CIN: L26940MH2000PLC128420



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590018**



INTERNSHIP REPORT ON

LCH FINAL ASSEMBLY

Submitted in partial fulfilment of the requirements for the award of

**Bachelor of Engineering
in
MECHANICAL ENGINEERING**

Submitted By

**PRUTHVI GOWDA V
1MV19ME045**

**Internship carried out
At**

HUNDUSTAN AERONATICS LIMITED, Helicopter Division
Bangalore complex, Ramesh Nagar, Vimanapura, Bengaluru, Karnataka 560017
(Duration: 22-08-2022 to 21-09-2022)

Internal Guide
Dr. Hanamantraygouda M B
Assistant professor
Dept. of Mech Engg, Sir MVIT

External Guide
Mr. Girish D J
Chief Manager, LCH Final Assy,
HAL Helicopter Division




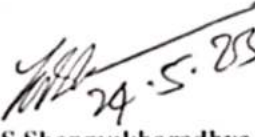
**DEPARTMENT OF MECHANICAL ENGINEERING
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022-23**


SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING




This is to certify that **PRUTHVI GOWDA V (1MV19ME045)**, a bonafide student of **SIR M. Visvesvaraya Institute of Technology, Bengaluru** has satisfactorily completed Industrial training (18ME185) from **Hindustan Aeronautics Limited, Helicopter Division** in partial fulfilment of the requirements as prescribed by the VTU for the award of **Bachelor of Engineering in Mechanical Engineering** and submitted this report during the academic year **2022 – 2023**.


Dr. Hanumantraygouda M B
Assistant professor
Dept of Mech Engg
Sir MVIT, Bengaluru

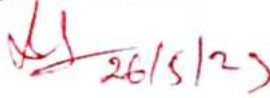
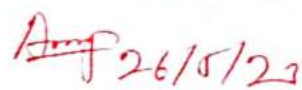

Dr K S Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hupasanahalli
International Airport Road, Bengaluru-562 157
Dr. Prakash S G
Principal
Sir MVIT,
Bengaluru

Names of the Examiners

1. 
SHRIVAKUMAR S
2. **PRAKASHA R. M**

Signature with Date


26/5/23

26/5/23

CERTIFICATE FROM THE INDUSTRY

मानव संसाधन विभाग
हेलिकॉप्टर प्रभाग (हेच)
हिन्दुस्तान एरोनाटिक्स लिमिटेड
पोस्ट बैग संख्या 1790, बंगलूर - 560017, भारत



HR DEPARTMENT
HELICOPTER DIVISION (HC)
HINDUSTAN AERONAUTICS LIMITED
Post Bag No.1790, Bangalore-560 017, India
Ph. (दूरभाष) : 91-80-2231 7891, 2232 2918
Fax (फैक्स) : 91-80-22314717

Ref: H/A/HR/CM (PR)/2022

September 21, 2022

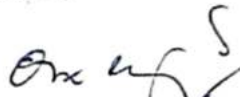
CERTIFICATE

This is to certify that Mr. Pruthvi Gowda V (USN No : 1MV19ME045) student of BE - Mechanical Engineering, Sir. M. Visvesvaraya Institute of Technology, Bangalore, has undergone "Internship" in LCH Final Assembly, HAL-Helicopter Division from 22.08.2022 to 21.09.2022.

2. His Punctuality, Conduct, Behaviour and Progress during the period of "Internship" was Satisfactory.

3. We wish Mr. Pruthvi Gowda V all the very best in all his future endeavors.

For HAL-Helicopter Division


(G. H. Raju)
Chief Manager (Public Relations) 29/09/22

महानिदेशक/पब्लिक रिलेशन्स
हिन्दुस्तान एरोनाटिक्स लिमिटेड
पोस्ट बैग संख्या 1790, बंगलूर - 560017, भारत
E(ई) : hrhcop@hal-india.com

पंजीकृत कार्यालय : 15/1, कब्बन रोड, बंगलूर - 560001, भारत
Registered Office: 15/1, Cubbon Road, Bangalore-560 001, India
CIN:U35301KA1963GOI001622 E(ई) : hrhcop@hal-india.com

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590018, KARNATAKA, INDIA**



**INTERNSHIP REPORT ON
“STUDY ON FABRICATION AND TOTAL QUALITY MANAGEMENT OF
STAINLESS STEEL”**

**Submitted in partial fulfillment of the
requirements for the award of
BACHELOR OF ENGINEERING
In
MECHANICAL ENGINEERING**

Submitted By
PUNEETH S **1MV19ME046**

**INTERNSHIP CARRIED OUT
AT**

SIDDHI VINAYAKA FAB ENGINEERING PRIVATE LIMITED
No.206, 11th main 3rd Phase, Peenya Industrial Area, Bangalore – 560058

Internal Guide
Mr. Nataraj M
Assistant Professor
Sir M Vivesvaraya Institute of Technology

External Guide
Mohammed Basheer Ahmed
Technical Director
Siddhi Vinayaka Fab Engineering



DEPARTMENT OF MECHANICAL ENGINEERING
SIR MVISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157, KARNATAKA, INDIA
Academic Year: 2022-23

**SIR M. VISVESVARAYA INSTITUTE OF
TECHNOLOGY BENGALURU-562157, KARNATAKA,
INDIA**

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Internship report entitled "STUDY ON FABRICATION AND TOTAL QUALITY MANAGEMENT OF STAINLESS STEEL" is bonafide work carried out by PUNEETH S (1MV19ME046) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship (18MEI85) prescribed for the Bachelor of Engineering degree.

[Signature]
25.5.23

Mr. Nataraj M
Assistant Professor
Sir MVIT, Bengaluru

Dr. K S Shanmukharadhya
Professor and Head of
Mech Dept, Sir MVIT,

Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. *Anand P. S*
2. *Shivakumar*

Signature with Date

[Signature] 25/5/23
[Signature] 25/5/23

CERTIFICATE



SIDHI VINAYAKA FAB ENGINEERING PVT. LTD.

No. 206, 11th Main, 3rd Phase, Peenya Industrial Area, Bangalore - 560 058

Phone: 28390891, 41171891, 41175631, Telefax: 080-28390891

E-mail: sve@sidhivinayakfab.com, Website: www.sidhivinayakfab.com

CIN No. U27320KA2005PTC035311

Certification Under ISO 9001:2015, EN 15085-2 CL1, ASME 'U' & 'UM'



REF: SVE/31/2022-23

DATE: 22/09/2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that MR. PUNEETH S Pursuing B.E (Mechanical Engineering) department at SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY affiliated to VTU Belagavi bearing USN Number 1MV19ME046 has completed Internship in our company for the duration of 30 days From 22/08/2022 TO 22/09/2022.

During the above period his conduct was good and he showed eagerness to learn the concept .

We wish him very best in all his future endeavors.

For,
SIDHI VINAYAKA FAB ENGINEERING PVT.LTD.


MOHAMED BASHEER AHMED.
(TECHNICAL DIRECTOR)



Specialist in : Pressure Vessels (MS & SS) Stainless Steel Fabrication & Precision Machined Components.



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI – 590 018**



Internship Report On

**“JOULE-THOMSON CRYOCOOLER FOR SPACE AND
MILITARY APPLICATIONS”**

Submitted in partial fulfillment of the requirements for the award
of Bachelor of Engineering
in
MECHANICAL ENGINEERING

Submitted By
R HRITHIK REDDY
1MV19ME047

Internal Guide
Dr. V Shantha
Professor
Department of Mechanical Engineering
Sir MVIT Bengaluru-562157.

External Guide
Mr. Sheetal Kumar Garg
Sc. 'D'
Department of Cryogenics
SSPL-DRDO Delhi



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

Certified that the Internship report on "JOULE-THOMSON CRYOCOOLER FOR SPACE AND MILITARY APPLICATIONS" is a bonafide work carried out R Hrithik Reddy (1MV19ME047), in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the Bachelor of Engineering Degree.

Dr. V Shantha
Professor
Dept of Mech Engg
Sir MVIT, Bengaluru

Dr. K. S. Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Basavanahalli
International Airport Road, Bengaluru-562 157

Name of the Examiners

Signature with Date

1. DR. SACHIDHANANDAN S

[Signature] 25/05/23

2. [Signature]

[Signature]

ISO 9001:2015 Certified

SI

भौतिकी प्रयोगशाला
Solid State Physics Laboratory, दिल्ली
Solid State Physics Laboratory, Delhi



(Min. of Defence, DRDO)

Lucknow Road, Timarpur, Delhi-110054

प्रशिक्षण प्रमाणपत्र / TRAINING CERTIFICATE

This is to certify that Mr./~~Ms.~~ R. HRITHIK REDDY

Student of SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY Roll No. 1MV19ME047
Branch MECHANICAL ENGINEERING has completed successfully Summer/Winter Internship for
the period from 21 Aug 2022 to 19 Sep 2022 Duration 06 (six) weeks / ~~months~~.

Topic of Internship was J-T COOLING FOR

SPACE AND MILITARY APPLICATION

During the training period his/her conduct at SSPL was good.

File No. 1805-252/HR/SSPL/22

Dated 20-08-22


Dr. Meenu Khaneja
Scientist 'F'

Gp. Director (HR)
SSPL, DRDO, Delhi-110054
Head-HR

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



Internship Report on

**“STUDY OF POWER PACK AND MAINTENANCE IN DIESEL
HHP LOCO”**

Submitted in partial fulfilment of the requirements for the award

of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

R VINAY KUMAR

1MV19ME048

Internship carried out at

**DIESEL LOCO SHED
KRISHNARAJAPURA-560036**



Under the Guidance of

Mr. JANARDHANA K

Associate Professor
Department of Mechanical Engineering

SRI. SRINIVAS RAO D

Asst. Divisional Mechanical Engineer
Diesel Loco Shed, Krishnarajapura

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157**


SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

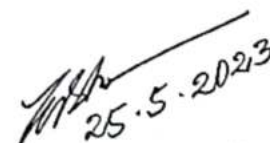
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "STUDY OF POWER PACK AND MAINTENANCE IN DIESEL HHP LOCO" is a bonafide work carried out by **R VINAY KUMAR (IMV19ME048)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.


Mr. JANARDHANA K
Associate Professor
Sir MVIT, Bengaluru




Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru
25.5.2023


PRINCIPAL S G
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
K. S. Narayana Murthy Nagar, Hosur Road,
International Airport Road, Bangalore-562 157

Names of the Examiners

Signature with Date

1. Dr. SACHIDHANANDAN.S
2. Dr. K S Shanmukharadhya

 25/05/23


INTERNSHIP CERTIFICATE



DIESEL LOCO SHED, KRISHNARAJAPURAM
BANGALORE DIVISION, BANGALORE-36, SOUTH WESTERN RAILWAY

CERTIFICATE

This is to certify that the below mentioned student, perusing B.E (Mechanical Engineering) in SIR.M.VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU – 562157 has successfully undergone internship in our organization from **August 29, 2022 to September 24, 2022**. During this period he has completed a project entitled **"Study of Diesel HHP Loco Power pack system"**

VINAY KUMAR. R (1MV19ME048)

During this period, his conduct and behavior was found good and he has shown keen interest to learn.

This certificate is solely issued for education purpose to provide industrial exposure to students.

We wish success in his future endeavors.

Date: 24.09.2022
Place: Krishnarajapuram


(YOGESH BHAILEKAR)
Sr. Divisional Mechanical Engineer

वरि. मण्डल यांत्रिक इंजीनियर
Sr. Divisional Mechanical Engineer
द.प.रे. कृष्णराजपुरम S.W.Ry. Krishnarajapuram
बेगलूर-बंगलूर-560 036

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



Internship Report On

“"Practical Exposure to Industrial Operations at BALCO"”

Submitted in partial fulfillment of the requirements for the award
of Bachelor of Engineering
in
MECHANICAL ENGINEERING

Submitted By
RAJAT POKALE
1MV19ME049

Under the Guidance of
MR. K MADHUKUMAR
Assistant Professor
Department of Mechanical Engineering
Sir MVIT Bengaluru-562157.



Estd.1986

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

Certified that the Technical Seminar on “Practical Exposure to Industrial Operations at BALCO” is a bonafide work carried out RAJAT POKALE (1MV19ME049), in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the Bachelor of Engineering Degree.

MR. K. Madhukumar
Professor
Dept of Mech Engg
Sir MVIT, Bengaluru

Dr. K. S. Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru

Prof. Rakesh SG
Principal
Sir MVIT,
Bengaluru

Name of the Examiners

Signature with Date

1. Shivakumar S

20/5/23

2. PRADIKSHA A.M

24/5/23

INTERNSHIP CERTIFICATE



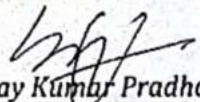
BHARAT ALUMINIUM COMPANY LIMITED
P.O. - BALCO Nagar, Korba, CG
India - 495684

Ref. No: BALCO/HR/L&D/VT/2022/500592

CERTIFICATE

This is to certify that Mr. Rajat Kumar Pokale student of BE in Mechanical Engineering from Sir M V Institute of Technology, Bangalore has completed his Summer Internship under the guidance of Mr. Komal Chandra Soni (SRS -Maintenance) from 2nd Sep'2022 to 30th September'2022 in Bharat Aluminium Company Limited. His performance during the project has been rated as Very Good by the guide.

We wish success in all his future endeavours.


Sanjay Kumar Pradhan
Lead L&D-BALCO

Date: 4th October'2022
Place: Korba (C.G.).

Registered Office: Aluminium Sadan, Core 6, Scope Complex, 7 Lodhi Road, New Delhi (India) - 110003
CIN : U74899DL1965PLC004518 | Tel : 011 49166200 | Fax : 011 24320177 | Web : www.vedantalimited.com | www.balcoindia.com



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANASANGAMA, BELAGAVI – 590 018, KARNATAKA



An Internship Report on

“GROUND TESTING CENTRE”

Submitted in partial fulfillment of the requirement for the award of degree

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted by:

RAKESH R

1MV19ME050

VIII Semester

Internship carried out

At

“HAL-ROTARY RESEARCH AND DESIGN CENTRE”

HR DEPARTMENT, HELICOPTER DIVISION (HC) HINDUSTAN
AERONAUTICS LIMITED, Bangalore – 560 017, INDIA.

Internal Guide

Dr. H S YESHVANTHA

Assistant Professor

Sir M. Visvesvaraya Institute of Technology

External Guide

Mrs. PRABHA

HR department

HAL-Helicopter Division



Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru-562157

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)
International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru 562157



DEPARTMENT OF MECHANICAL ENGINEERING
CERTIFICATE

This is to certify that the **Internship[18MEI85]** Report on "**GROUND TESTING CENTRE**" submitted by **RAKESH R** bearing **1MV19ME050** respectively is a bonafide student of **Sir M. Visvesvaraya Institute of Technology**, has successfully completed the Internship programme in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** prescribed by **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. The Internship report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the Bachelor of Engineering degree.

Signature of Internal Guide

Dr. H S Yeshvantha

Assistant Professor

Dept. of Mech Engg., SMVIT

Signature of HOD

Dr. K S Shanmukharadhya

Professor and HOD

Dept. of Mech Engg., SMVIT

Prof. Rakesh S G
PRINCIPAL

External Viva

Name of the Examiners:

1. Shanmukharadhya
2. PRAKASHA. A.M

Signature with date

CERTIFICATE

ರೋಟರಿ ವಿಂಗ ರಿಸರ್ಚ್ & ಡಿಸೈನ್ ಸೆಂಟರ್
ರೋಟರಿ ವಿಂಗ ಅನುಸಂಧಾನ ವ್ಯವಸ್ಥಾಪನಾ ಕೇಂದ್ರ
ರೋಟರಿ ವಿಂಗ ರಿಸರ್ಚ್ & ಡಿಸೈನ್ ಸೆಂಟರ್
ಹಿಂದೂಸ್ತಾನ್ ಏರೊನೌಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
ಬೆಂಗಳೂರು - 560 017, ಭಾರತ
ಫೋನ್ / ಟೆಲೆಫೋನ್ : 91 - 80 - 2231 1747



ROTARY WING RESEARCH & DESIGN CENTRE
DESIGN COMPLEX
HINDUSTAN AERONAUTICS LIMITED
Bengaluru - 560 017, India
ಫೋನ್ / ಟೆಲೆಫೋನ್ : 91 - 80 - 2231 3149
91 - 80 - 2231 1294

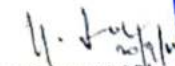
HAL/DC/RWRDC/HR/INTRNSHP/ 1172 /2022

20th September 2022

CERTIFICATE

This is to certify that Mr. Rakesh R(USN: 1MV19ME050), student of B.Tech(Mechanical Engineering), Sir M. Visvesvaraya Institute of Technology, Bangalore has undergone Internship on No-pay-No-fee basis from 25.08.2022 to 20.09.2022 at Ground Test Centre, Rotary Wing Research & Design Centre, Hindustan Aeronautics Limited, Bengaluru.

2. His Punctuality, Behavior, Conduct, Progress in Training were 'Very Good' as rated by the Department Head during his training period with us.


(U SUDHAKAR)
SENIOR MANAGER (HR)

Mr. Rakesh R
USN: 1MV19ME050
B.Tech (Mechanical Engineering)
Sir M. Visvesvaraya Institute of Technology
Bangalore



ರೋಟರಿ ವಿಂಗ ರಿಸರ್ಚ್ & ಡಿಸೈನ್ ಸೆಂಟರ್, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ
ಪಂಚೀಕೃತ ಕಾರ್ಯಾಲಯ : 15 /1, ಕಬ್ಬನ್ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಭಾರತ
Registered Office : 15 /1, Cubbon Road, Bengaluru - 560 001, India
ಇ-ಮೇಲ್ / ಸಿ ಆರ್ ಎನ್ / CIN: L35301KA1963GOI001622 ಟೆ / ಫೋನ್ / E: hr.rwrdc@hal-india.co.in

www.hal-india.co.in

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590018, KARNATAKA, INDIA**



Internship Report On

“L & T CONSTRUCTION EQUIPMENT”

Submitted in Partial Fulfillment of the requirement for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By:

Ridu Varshini N

IMV19ME051

**Under the Guidance of
Dr.K.S.Shanmukharadhya
HOD & Professor
Dept of Mechanical Engineering
SMVIT Bengaluru-562157**



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562157
Academic Year: 2022-2023**

Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]
Bangaluru-562157
2022-2023

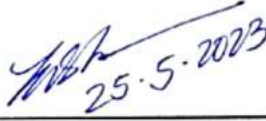
CERTIFICATE

Certified that the Internship [18MEI85] entitled "L & T CONSTRUCTION EQUIPMENT" carried out by Ms. Ridu Varshini N bearing USN: 1MV19ME051 a Bonafied student of Sir M Visvesvaraya Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internship have been executed under the directions of Dr.K.S.Shanmukharadhya The report has been approved as it satisfies the academic requirements in respect of Internship [18MEI85] prescribed for the course of Bachelor of Engineering.



Signature of Guide

Dr.K.S.Shanmukharadhya
HOD & Professor
Dept of Mech Engg
SIR MVIT


25.5.2023

Signature of HOD

Dr.K.S.Shanmukharadhya
HOD & Professor
Dept of Mech Engg
SIR MVIT



PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunsarasanahalli
International Airport Road, Bangalore-562 157

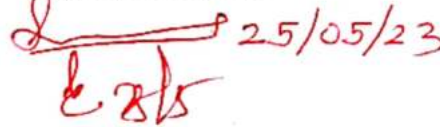
Signature of Principal

Dr. Rakesh S G
Principal
SIR MVIT

Names of the Examiners

1. DR. SACHUDHANANDAN.S
2. SB Halim

Signature with Date


25/05/23
e.8/5

Internship certificate



L&T Construction Equipment

L&T Construction Equipment Limited
(Formerly known as L&T Construction Machinery Limited)
Survey No. 27/28, Thammashettihalli
Kasaba Hobli, Doddaballapur Taluk
Bengaluru Rural District - 561 203, Karnataka, INDIA
Tel. + 91 80 2217 5100

LTCEL/HR/INTERNSHIP/2022

17-September-2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Ridu Varshini N (1MV19ME051)** of **Sir M Visvesvaraya Institute of Technology Bengaluru**, has undergone Internship at our Organization from 22-08-2022 to 19-09-2022. During the above period she has completed Internship at L&T Construction Equipment Limited, Doddaballapura.

The Conduct of the Student was found Satisfactory during the Internship.

We wish her all the best for her future endeavors.

for L&T Construction Equipment Limited.

(S D Satish Chandra)
DGM-HR & IR



Registered Office : L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA. www.Larsentoubro.com
CIN: U29248MH2018PLC318481
L&T Construction Equipment Limited is a wholly owned subsidiary of Larsen & Toubro Limited

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-590 018



Internship Report
on
"DESIGN AND ANALYSIS OF BEVEL HELICAL GEARBOX"
submitted in partial fulfillment of the requirements for the award of the Degree of
BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING

Submitted by
SAKET GARG
USN: 1MV19ME052

Under the Guidance of
Mr. Kumar Swamy R.
Assistant Professor
Department of Mechanical Engineering
Sir MVIT, Bengaluru.



Department of Mechanical Engineering
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)
Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157
2022 – 2023

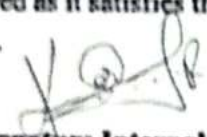
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)
Off International Airport Road, Krishnadevaraya Nagar, Bengaluru - 562157

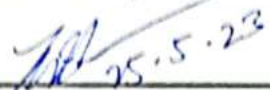
Department of Mechanical Engineering

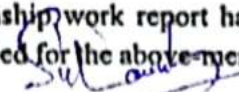


CERTIFICATE



Certified that the internship work entitled "*DESIGN AND ANALYSIS OF BEVEL HELICAL GEARBOX*" carried out by Mr. SAKET GARG, USN 1MV19ME052, a bonafide student of Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, Bengaluru in partial fulfillment for the requirements for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Internship work report has been approved as it satisfies the academic requirements in respect of internship work prescribed for the above-mentioned degree.


Signature Internal Guide
Mr. Kumar Swamy R.


Signature of HOD
Dr. K S Shanmukharadhya


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Bengaluru - 562157
Signature of Principal
Prof. Rakesh S G

EXTERNAL VIVA

	Name of Examiners	Signature with Date
1.	DR. SACHINDRANANDAN S	 25/05/23
2.	S B HANM	



TO WHOM IT MAY CONCERN

Ref. No. JMB/HRM/105/ **000831**

This is to certify that Mr. Saket Garg , a VIIth semester B.E. Student in Mechanical Engineering of Sir M. Visvesvaraya Institute of Technology, Bangalore has undertaken unpaid internship training in our Jamadoba Coal Preparation Plant, Tata Steel limited, Jharia Division, Dhanbad for a period of 24 (twenty four) days from 16th October 2022 to 13th November 2022. He has also submitted his project reports on "Design and Analysis of Bevel Helical Gearbox."

This certificate is being issued to Mr. Saket Garg for completion of training as part of B.E. Course

We wish him success in his future endeavour.


Sr. Manager HRM
Govt. Liaison & Statutory Compliance-RM.

TATA STEEL LIMITED

Jharia Collieries Jamshedpur 831 112 Dhanbad India
Tel 91 226 2320263/2320265/2320267 Fax 91 226 2320268
Registered Office Bombay House, 24, Hornby Road, Fort, Mumbai - 400001 India
Tel 022 6665 1282 Fax 022 66657324
Corporate Identity Number L27100MH11007PLC000260 Website www.tatasteel.com

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI – 590 018



INTERNSHIP REPORT

ON

“MACHINE LEARNING USING PYTHON”

Submitted in partial fulfillment of the requirements for the award of the degree

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted by:

SATYANARAYANA

1MV19ME053



Internship carried out at

**Take It Smart (OPC) PVT. LTD
BENGALURU-560040**

Internal Guide:

Mr. SHIVAKUMAR S

**Assistant Professor / Depart. of Mechanical Engineering
Bengaluru-562157**



**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING**

Hunasamaranahalli -562157

2022-2023



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

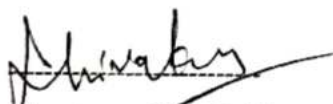
Hunasamaranahalli -562157

(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)



CERTIFICATE


This is to certify that Satyanarayana (IMV19ME053) , a bonafide student of Sir M. Visvesvaraya Institute of Technology, Bengaluru has satisfactorily completed Industrial training from Take It Smart (OPC) Pvt. Ltd. in partial fulfillment of the requirements as prescribed by the VTU for the award of Bachelor of Engineering in Mechanical Engineering and submitted this report during the academic year 2022-2023.


Signature of the Guide

Mr. Shivakumar S

Assistant Professor

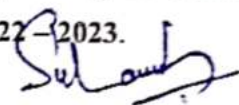
Dept of Mechanical Engg.


Signature of HOD

Dr. K S Shanmukharadhy

Professor & HOD

Dept of Mechanical Engg.


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157
Signature of Principal

Prof. Rakesh S.G.


Principal


Sir MVIT, Bengaluru

External Viva :

Name of the Examiners

Signature with Date

1. 

 25/5/23

2. 

 25/5/23

INTERNSHIP CERTIFICATE



TAKE IT SMART

Reg No. : 150027

Take It Smart (OPC) PVT LTD

14, SGN Arcade, 1st Floor, 2nd stage, 1st Main Rd, RPC Layout,
Vijayanagar, Bengaluru - 560 040 Mob. : 8050104212 / 8792697647
www.takeitsmart.in

ISO 9001 :2015

Internship Certificate

This Certifies that

SATYANARAYANA

Student of SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY

Has completed Internship in Machine Learning Using Python

From 8th February 2023 to 9th March 2023

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.



Mallikarjun Kumbhar
Director



MEME

#startupindia

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



Internship Report[18ME185] On

“STUDY OF DIFFERENT MANUFACTURING PROCESS”

Submitted in partial fulfillment of the requirements for the award of
BACHELOR OF ENGINEERING

**IN
MECHANICAL ENGINEERING**

Submitted By

SHANTA 1MV19ME054

For the academic year 2022-2023

Internship carried out at

“HMT MACHINE TOOLS LIMITED”

Bangalore Complex

HMT colony, HMT Estate, Jalahalli, Bengaluru, Karnataka 560013

Duration: 1 Month (22-08-2022 to 19-09-2022)

Internal Guide

Mr. JANARDHANA K

Associate Professor

Department of Mechanical Engineering

Sir MVIT, Bengaluru-562157.

External Guide

Mr. ATMANAND N

Training officer

HMT Machines Tools Ltd

Jalahalli, Bengaluru 560013



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

This is to certify that the Internship Report [18MEI85] entitled "STUDY OF DIFFERENT MANUFACTURING PROCESS" is a bonafide work carried out by SHANTA(1MV19ME054) student of SIR M Visvesvaraya Institute of Technology has successfully completed the internship program in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of the prescribed for the Bachelor of Engineering Degree.

Mr. Janardhana K. S. S. 23
Associate Professor
Dept of Mech Engg
Sir MVIT, Bengaluru

25.5.2023

Dr. K. S. Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru

Dr. Rakesh S G
Principal
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hudasamaranahalli
International Airport Road, Bangalore-562 157

Name of the Examiners

Signature with Date

1. DR. SACHUDHANANDAN S

25/05/23

2. SB Haldar

ISO 9001 : 2008 Unit



RIGHT TO
INFORMATION

एचएमटी मशीन टूल्स लिमिटेड
(एचएमटी लिमिटेड की संपूर्ण स्वामित्व वाली संस्था)
(भारत सरकार का अधिनियम)

प्रशिक्षण केंद्र
बैंगलूरु कॉम्प्लेक्स
जालहल्ली पी ओ, बैंगलूरु 560 013, भारत
दूरभाष : +91-80-2838 8365
फैक्स : +91-80-2838 2797
ई-मेल : mbxtrg@hmtmachinetools.com
वेब साइट : www.hmtmachinetools.com

HMT MACHINE TOOLS LIMITED
(A Wholly owned Subsidiary of HMT Ltd.)
(A Government of India Undertaking)

TRAINING CENTER

BANGALORE COMPLEX

Jalahalli PO, Bengaluru - 560 013, INDIA

Phone : +91-80-2838 8365

Fax : +91-80-2838 2797

E-mail : mbxtrg@hmtmachinetools.com

Website : www.hmtmachinetools.com

Ref: MBX/TC/2022-23

21-09-2022

CERTIFICATE

This is to certify that Ms. Shanta (USN 1MVI9ME054), Student of BE- Mechanical Engineering from Sir M Visvesvaraya Institute of Technology, Bengaluru has successfully completed her "INTERNSHIP" at HMT MACHINE TOOLS LIMITED, BANGALORE COMPLEX from 22-08-2022 to 19-09-2022 as partial fulfilment for the award of degree.

During the period of Internship, the student was found to be regular and her conduct was good.

For HMT Machine Tools Ltd.



Chief of Training
HMT Machine Tools Limited
Bangalore Complex (MBX)
BANGALORE - 560 013
Officer I/C(TC)

पंजीकृत कार्यालय - एचएमटी भवन, 59, बेल्लरी रोड, बैंगलूरु-560 032, भारत Registered Office: HMT Bhavan, 59, Bellary Road, Bengaluru - 560 032, India





Internship Report on

“AUTODESK INVENTOR SOFTWARE”

Submitted in partial fulfilment of the requirements for the award

of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

SANGAMESH IMV18ME095

Internship carried out at

TAKE IT SMART PVT. LTD

VIJAYNAGAR-560040



Under the Guidance of

DR. KIRAN KUMAR M

Asst. Professor

Department of Mechanical Engineering

Mr. RAGHUVENDRA

Asst. Designer Mechanical Engineer

Take It Smart Vijaynagar

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157
Academic year: 2022-23**


**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157**

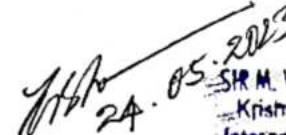
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE


It is certified that the Internship work entitled " AUTODESK INVENTOR SOFTWARE " is a bonafide work carried out by **SANGAMESH (1MV18ME095)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.


Dr. Kiran Kumar M
Assistant Professor
Sir MVIT, Bengaluru

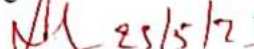

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsar, Maranahalli
Internal Road, Bangalore-562 157
Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. 
2. _____

Signature with Date

 25/5/23

INTERNSHIP CERTIFICATE



Internship Certificate

This Certifies that

SANGAMESH

Student of **SIR. M. VISVESVARAYA INSTITUTE AND TECHNOLOGY**

Has completed Internship in **Autodesk Inventor Professional**

From **20th August 2022 to 20th September 2022**

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.



Mallikarjun Kumbhar
Director



VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590018



Internship Report
On

“INDUSTRIAL ROBOTICS & NX CAD”

Submitted in partial fulfillment of the requirement for the award
of
BACHELOR OF ENGINEERING
In
MECHANICAL ENGINEERING

SUBMITTED BY:
RAVI B K 1MV18ME066

UNDER THE GUIDANCE OF
MRS. VEENA B G
ASSISTANT PROFESSOR



DEPARTMENT OF MECHANICAL ENGINEERING

Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU -562157
DEPARTMENT OF MECHANICAL ENGINEERING



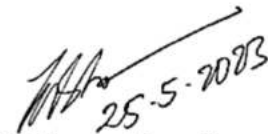
CERTIFICATE

Certified that the internship entitled “**INDUSTRIAL ROBOTICS & NX CAD**” is a bonafide work carried out by **RAVI B K** of USN : 1MVI8ME066 a student of VIII semester in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of Sir M Visvesvaraya Institute of Technology , Bengaluru during the year **2022-23**. And has successfully submitted the report . It is certified that all corrections suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The internship Report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP (18MEI85)** prescribed for the Bachelor of Engineering Degree.


Mrs VEENA B G

Assistant Professor

Dept. Mechanical Engineering
Sir MVIT , Bengaluru


Dr . K S Shanmukharadhya

Professor and Head of Department

Dept. of Mechanical Engineering
Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsar, Hunsarhalli
International Airport Road, Bangalore-562 157



PRINCIPAL

Sir MVIT, Bengaluru

Names of the examiners

Signature with Date

1. Dr. Sachin Dhananand S
2. Dr. Halim

 25/05/23




ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ
(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನೋಂದಾಯಿತ ಸಂಸ್ಥೆ)
Government Tool Room & Training Centre
(A Registered Society under Government of Karnataka)

LETTER OF INTERNSHIP

To,
The Principal,
SIR M. Visvesvaraya Institute of Technology
Bangalore-57

Date: 29/09/2022

Respected Sir / Madam,


Subject: Completion of Student Internship Program.

Government Tool Room and Training Centre is pleased to inform you that Mr.RAVI B K [USN-1MV18ME066] student of 3rd year, Mechanical Engineering branch of your institution was admitted for internship with us and he was offered internship in the domain of "INDUSTRIAL ROBOTICS & NX CAD " and the training program was scheduled from 1st September 2022 to 28th September 2022.

The student was facilitated to work as an Internship Trainee of our company for the duration of 4 weeks under the guidance and supervision of Mr. Promit Kumar Patra & Mrs. Madhuri M. to him based on his regular attendance and performance.

Best Regards


Authorized Signatory

 Govt. Tool Room & Training Centre
Rajajinagar Industrial Estate
Bangalore-560 010

"ಕನ್ನಡ ಕಾರ್ಯ ವರ್ಷ 2020-21"

ಭಾರತ ಸರ್ಕಾರದಿಂದ ಮಾನ್ಯತೆ ಪಡೆದ ವೈಜ್ಞಾನಿಕ ಮತ್ತು ಕೈಗಾರಿಕಾ ಸಂಶೋಧನಾ ಸಂಸ್ಥೆ
A Scientific & Industrial Research Organisation Recognised by Govt. of India
Rajajinagar Industrial Estate, Bengaluru-560010
Tel No. 080-23152118, 23152119, 23152262, 23301683
Website : www.gttc.co.in e-mail : md.gttc@gmail.com

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



VIII Semester B.E. (Mechanical Engineering) Internship Report
“Elemental Motor Works Pvt. Ltd.”

Submitted by
SHUBHAM ANAND
1MV19ME055

Under the Guidance of
Mr. Shivakumar S
Assistant Professor, Department of Mechanical Engineering.



DEPARTMENT OF MECHANICAL ENGINEERING
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022-23

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

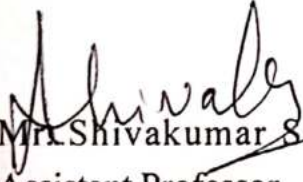
BENGALURU-562157


DEPARTMENT OF MECHANICAL ENGINEERING

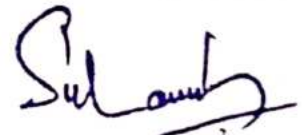


CERTIFICATE


This is to certify that **Mr. SHUBHAM ANAND**, USN: **1MV19ME055** a student of VIII semester B.E. in Department of Mechanical Engineering at Sir M. Visvesvaraya Institute of Technology has successfully completed the internship at "**Elemental Motor Works Pvt. Ltd.**" and has submitted the report to fulfill the academic requirement of Internship for the Bachelor of Engineering degree.


Mr. Shivakumar S
Assistant Professor
Dept of Mech Engg
Sir MVIT, Bengaluru


Dr K S Shanmukharadhya
Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnaiah Road, Manjunath
International Airport Road, Bangalore-562 157
Principal
Sir MVIT,
Bengaluru


Names of the Examiners

1.....

2.....

Signature with Date


25/5/23


25/5/23



Internship Certificate



ELEMENTAL
MOTOR WORKS

CERTIFICATE OF COMPLETION

UNIQUE CERTIFICATE ID
EMWINEMD075
Issued on 10, Sep. 2022

THIS IS TO CERTIFY THAT

SHUBHAM ANAND

HAS SUCCESSFULLY COMPLETED THE 3 WEEK REMOTE INTERNSHIP PROGRAMME ON

ELECTRIC MOTORCYCLE DESIGN AND DEVELOPMENT

UNDER THE GUIDANCE OF ELEMENTAL MOTOR WORKS
CONDUCTED FROM 21TH Aug. 2022 TO 10TH Sep. 2022.

learn.elementalmotorworks.in

PIYUSH VERMA
CO-FOUNDER



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-590 018



Internship Report

on

"METHOD TO DETECT, MEASURE AND ANALYSE TEMPERATURE AND VIBRATION OF ELECTRIC MOTOR USING IOT"

submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted by

SHUBHAM KUMAR
USN: 1MV19ME057

Under the Guidance of

Internal Guide
Mr. Shivakumar S.
Assistant Professor
Mechanical Engg
Dept SIR MVIT, Bengaluru

External Guide
Mr. Prashanth
Lead Engineer - IoT
Harmonizer India PVT Ltd, Bengaluru



Department of Mechanical Engineering

Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)

Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157

2022 – 2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)


Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157

Department of **Mechanical Engineering**



CERTIFICATE

Certified that the internship entitled “**METHOD TO DETECT, MEASURE AND ANALYSE TEMPERATURE AND VIBRATION OF ELECTRIC IoT**” carried out by **MR. SHUBHAM KUMAR, USN 1MV19ME057**, a bonafide student of **Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY**, Bengaluru in partial fulfillment for the requirements for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year **2022-2023**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for the above-mentioned degree.


Signature of Guide
Mr. Shivakumar S.


Signature of HOD
Dr. K S
Shanmukharadhy




Principal
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunsur
International Airport Road, Bangalore-562 157

EXTERNAL VIVA

Name of Examiners

1. **Avinash Chari**
2. **Shivakumar S**

Signature with Date

 **123**
25/5/23
 **25/5/23**



**HARMONIZER INDIA PVT LTD
BENGALURU**

CERTIFICATE

Certified that the internship entitled “**METHOD TO DETECT, MEASURE AND ANALYSE TEMPERATURE AND VIBRATION OF ELECTRIC IoT**” carried out by **Mr. SHUBHAM KUMAR, USN:1MV19ME057** a bonafide student of **Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, Bengaluru** in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-2023. It is certified that he has completed the internship satisfactorily.

Prashanth
Lead Engineer – IoT
Harmonizer India PVT Ltd|
Marilingappa Extension,
Bengaluru

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Juana Sangama", Belagavi - 590 018, Karnataka, India



**INTRNSHIP REPORT
ON**

"ROTARY WING & RESEARCH DEPARTMENT (H.A.L)"

Submitted in partial fulfillment of the requirements for the award of the Degree

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted by

SHUBHAM KUMAR JHA

USN: 1MV19ME058

Under the Guidance of

Mr. EJAZ AHMED

Associate Professor

Department of Mechanical Engineering.



DEPARTMENT OF MECHANICAL ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevaraya nagar, Hunasamaranahalli, Bangalore -562157

MAY 2023




SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BANGALORE-562157

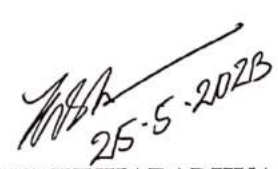
Department of Mechanical Engineering

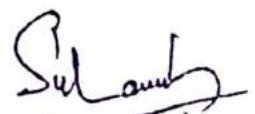


CERTIFICATE

This is to certify that the internship work entitled "ROTARY WING RESEARCH & DEVELOPMENT" is a bonafide Work carried out SHUBHAM KUMAR JHA (1MV19ME058) of Sir M. Visvesvaraya Institute of Technology, Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report submitted to department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for Bachelor of Engineering degree.




Mr. EJAZ AHMED
Associate Professor
Dept. of Mech Engg.
Sir MVIT Bengaluru


Dr. K S SHANMUKHARADHYA
Professor and HOD
Dept. of Mech Engg.
Sir MVIT Bengaluru




PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Munasmarahalli,
International Airport Road, Bangalore-562 157
PROF. RAKESH S.G
SIR MVIT
Bengaluru

PROJECT REVIEW

Name of the Examiners

1. 
2. 

Signature with Date

1.  25/5/23
2.  25/5/23

HAL India Rotary Wing Research & Design Centre
Design Complex
Hindustan Aeronautics Limited
Bengaluru - 560 017, India
Contact: 91 - 80 - 2232 3149
Fax: 91 - 80 - 2231 1747



ROTARY WING RESEARCH & DESIGN CENTRE
DESIGN COMPLEX
HINDUSTAN AERONAUTICS LIMITED
Bengaluru - 560 017, India
Contact: 91 - 80 - 2232 3149
Fax: 91 - 80 - 2231 1284

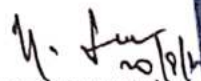
HAL/DC/RWRDC/HR/INTRNSHP/ 1174 /2022

20th September 2022

CERTIFICATE

This is to certify that Mr. Shubham Kumar Jha (USN:1MV19ME058), student of B.E(Mechanical Engineering), Sir M. Visvesvaraya Institute of Technology, Bangalore has undergone Internship on No-pay-No-fee basis from 21.08.2022 to 20.09.2022 at Ground Test Centre, Rotary Wing Research & Design Centre, Hindustan Aeronautics Limited, Bengaluru.

2. His Punctuality, Behavior, Conduct, Progress in Training were 'Excellent' as rated by the Department Head during his training period with us.


(U SUDHAKAR)

SENIOR MANAGER (HR)

Mr. Shubham Kumar Jha
USN: 1MV19ME058
B.E (Mechanical Engineering)
Sir M. Visvesvaraya Institute of Technology
Bangalore



Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India
पंजीकृत कार्यालय : 15/1, कब्बन रोड, बेंगलूर - 560 001, भारत
Registered Office : 15/1, Cubbon Road, Bengaluru - 560 001, India
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www.hal-india.co.in



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgavi-590 018, Karnataka, India



An Internship Report
On

Design and Development of Rotary Air-crafts

Submitted in Partial Fulfillment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted By
Siddharth S Hasavimath
USN: 1MV19ME059

Carried out at
RWRDC, HAL, Bengaluru

Under the Guidance of

Internal Guide
Mr. K Ejaz Ahmed
Associate Professor
Dept. Of ME, SMVIT

External Guide
Mr. Rajashekar
GTC
RWRDC, HAL



Estid. 1986

Department of Mechanical Engineering

Sir M Visvesvaraya Institute of Technology

[Affiliated to Visvesvaraya Technological University, Belgaum]

Bengaluru-562157

2022-2023

Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]
Bengaluru-562157
2022-2023



CERTIFICATE

Certified that the Internship Report entitled "Design and Development of Rotary Air-crafts" carried out by Siddharth S Hasavimath bearing USN: 1MV19ME059 a Bonafide student of Sir M Visvesvaraya Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for INTERNSHIP have been executed under the directions of Mr. K Ejaz Ahmed. The report has been approved as it satisfies the academic requirements in respect of INTERNSHIP prescribed for the said degree.

Signature of Guide

Signature of HOD

Signature of Principal

Mr. K Ejaz Ahmed
Associate Professor
Dept of ME
SIR MVIT

Dr. K S Shanmukharadhya
HOD and Professor
Dept of ME
SIR MVIT

PRINCIPAL
Dr. Rakesh S G
Principal
Sir M. Visvesvaraya Institute of Technology
Bengaluru-562157
SIR MVIT

Name

Examiner:

i) *[Signature]* *25/6/23*
ii) *[Signature]* *25/6/23*

COMPANY CERTIFICATE



ROTARY WING RESEARCH & DESIGN CENTRE
DESIGN COMPLEX
HINDUSTAN AERONAUTICS LIMITED
Bengaluru - 560 017, India
ದೂರವಾರ್ತೆ / ದೂರ / ಫಾ: 91 - 80 - 2232 3149
91 - 80 - 2231 1284

ದಾರುಬ ದರ್ ಸಂಸ್ಥೆಯು ಒಂದು ದೇಶೀಯ ಸಂಸ್ಥೆಯಾಗಿದೆ
ರೇಷಿ ನೆನು ಅನುಸಾರ ವ ಅಧಿಕಾರ ಕೇಂದ್ರ
ದೇಶೀ ಸಂಸ್ಥೆ / ಅಧಿಕಾರ ಸಂಸ್ಥೆ
ಹಿಂದೂಸ್ತಾನ್ ಏರ್ನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
ಹಿಂದುಸ್ತಾನ್ ಏರ್ನಾಟಿಕ್ಸ್ ಲಿಮಿಟೆಡ್
ದೇಶೀಯ-ಸಂಸ್ಥೆ, ಒಂಟೆ / ಸಂಸ್ಥೆ - 560 017, ಬಾಂಗಲೂರು
ಫೋನ್ / ಫೇಕ್ಸ್ : 91 - 80 - 2231 1247

HAL/DC/RWRDC/HR/INTRNSHP/ 1171 /2022

20th September 2022

CERTIFICATE

This is to certify that Mr. Siddharth S Hasavimath(USN: 1MV19ME059), student of B.Tech(Mechanical Engineering), Sir M. Visvesvaraya Institute of Technology, Bangalore has undergone Internship on No-pay-No-fee basis from 25.08.2022 to 20.09.2022 at Ground Test Centre, Rotary Wing Research & Design Centre, Hindustan Aeronautics Limited, Bengaluru.

2. His Punctuality, Behavior, Conduct, Progress in Training were 'Very Good' as rated by the Department Head during his training period with us.

SENIOR MANAGER (HR)

(U SUDHAKAR)

Mr. Siddharth S Hasavimath

USN: 1MV19ME059

B.Tech (Mechanical Engineering)

Sir M. Visvesvaraya Institute of Technology
Bangalore

www.hal-india.co.in



ಆವಾಸಿಕ್
ಅನುಸಾರ

ದೇಶೀಯ ಸಂಸ್ಥೆ : ರಾಜ್ಯ, ಸಂಸ್ಥೆ, ದೇಶೀಯ-ಸಂಸ್ಥೆ, ಒಂಟೆ

ರೇಷಿ ನೆನು ಕಾರ್ಯಾಲಯ : 15 /1, ಕಾರ್ಯಾಲಯ ರೋಡ್, ಬೆಂಗಳೂರು - 560 001, ಬಾಂಗಲೂರು

Registered Office : 15 /1, Cubbon Road, Bengaluru - 560 001, India

ಫೋನ್ / ಫೇಕ್ಸ್ : 91 - 80 - 2231 1247 ಫೋನ್ / ಫೇಕ್ಸ್ : 91 - 80 - 2231 1284

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590018**



Internship Report

At

“Larsen & Toubro Construction Equipment Limited”



L&T Construction Equipment

Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted by

SIDHARTH VENUGOPAL

1MV19ME060

Under The Guidance Of

Dr. K S Shanmukharadhya

Professor, Department of Mechanical Engineering



**DEPARTMENT OF MECHANICAL ENGINEERING,
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
Krishnadevarayanagar, Hunasamaranahalli, Bengaluru-562157**

Academic year: 2022-2023

CERTIFICATE

**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157**

DEPARTMENT OF MECHANICAL ENGINEERING

**CERTIFICATE**

Certified that the Internship entitled “**FABRICATION AND PRODUCTION**” is a bonafide work carried out by **SIDHARTH VENUGOPAL**, USN 1MV19ME060, student of VII Semester in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of Sir M Visvesvaraya Institute of Technology, Bengaluru during the year **2022-2023** has successfully completed the internship at “**L&T CONSTRUCTION EQUIPMENT LIMITED**” and has successfully submitted the report. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship Report has been approved as it satisfies the academic requirements in respect of **Internship (18MEI85)** prescribed for the Bachelor of Engineering degree.

[Signature]
25.5.2023

PROFESSOR & HEAD
Department of Mechanical Engineering
Sir M. Visvesvaraya Institute of Technology
Bengaluru-562 157

Name of the Examiners

1) *DR. SACHUDHANANDAN. S*

2) *SB Heblum*

[Signature]

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsarayanahalli
International Airport Road, Bangalore-562 157

Signature with date

[Signature] 25/05/23

[Signature]



L&T Construction Equipment

L&T Construction Equipment Limited
(Formerly known as L&T Construction Machinery Limited)
Survey No. 27/28, Thammashettihalli
Kasaba Hobli, Doddaballapur Taluk
Bengaluru Rural District - 561 203, Karnataka, INDIA
Tel. + 91 80 2217 5100

LTCEL/HR/INTERNSHIP/2022

17-September-2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Sidharth Venugopal (1MV19ME060)** of **Sir M Visvesvaraya Institute of Technology Bengaluru**, has undergone Internship at our Organization from 22-08-2022 to 19-09-2022. During the above period he has completed Internship at **L&T Construction Equipment Limited, Doddaballapura.**

The Conduct of the Student was found Satisfactory during the Internship.

We wish him all the best for his future endeavors.

for **L&T Construction Equipment Limited.**

(S D Satish Chandra)
DGM-HR & IR



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-590 018, Karnataka, India



An Internship Report
On

“Template for Online YOGA Training Center”

Submitted in Partial Fulfillment of the requirement for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By

SOURABH C P

1MV19ME061

Carried out at
Compsoft Technologies



Under the Guidance of

Internal Guide

Dr. G. BALAKUMAR

Associate Professor

Dept. Of ME, SIR MVIT

External Guide

Mr. NITHIN

Trainer

Compsoft Technologies



DEPARTMENT OF MECHANICAL ENGINEERING

Sir M Visvesvaraya Institute of Technology

[Affiliated to Visvesvaraya Technological University, Belgaum]

Bangaluru-562157

2022-2023



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

It is certified that the Internship work entitled "**TEMPLATE FOR ONLINE YOGA TRAINING CENTER**" is a bonafide work carried out by **SOURABH C P (1MV19ME061)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.

Dr. G Balakumar
Associate Professor
Mechanical Department
Sir MVIT, Bengaluru

Dr. K S Shanmukharadhya
Professor and Head of
Mechanical Department
Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157
Prof. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. DR. SACHUDHANANDAN S
2. S B Halim

Signature with Date

25/05/23

Company Certificate



Compsoft Technologies

Providing a Complete Suite of IT Solutions

Certificate ID - 1CSTFSM265

Date - 30/09/2022

Certificate of Internship

This is to certify that Mr SOURABH C P (1MV19ME061) has done his Full Stack Web Development Internship in Compsoft Technologies, RajajiNagar, Bangalore, from 25th August 2022 to 29th September 2022.

He has worked on a project titled **Template For Online Yoga Training Center**. This project was aimed at creating a cutting edge website for a client of ours, As part of the project, he designed functional webpages, Backend Databases to collect, store, and sort data, by understanding the design briefs and client Specifications that were provided in the Proposal.

During the internship, he demonstrated good design skills with a self-motivated attitude to learning new things. His performance exceeded expectations and was able to complete the project successfully on time, We wish him all the best in his future endeavours.

Warm regards,



(Project Manager, CST)

Compsoft Technologies
No. 363, 19th main road,
1st Block Rajajinagar Bangalore- 560010

www.compsofttechnologies.com

services@compsofttechnologies.com

*Search Engine Optimisation

*Development

*ML & Research

*Branding and Design

*Content Writing

*Embedded Systems and IOT

VESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590018, KARNATAKA, INDIA



INTERNSHIP REPORT ON

“EMBEDDED SYSTEMS & IOT”

Submitted in partial fulfilment of the
requirements for the award of
BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

SUDEEP V R - 1MV19ME062

INTERNSHIP CARRIED OUT AT
TAKE IT SMART(OPC) PVT LTD

Under the Guidance of
SAMPATH KUMAR L

Asst. Professor

Department of mechanical engineering



DEPARTMENT OF MECHANICAL ENGINEERING SIR M.
VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022-23



SIR M. VISVESVARAYA INSTITUTE OF
TECHNOLOGY BENGALURU-562157, KARNATAKA, INDIA
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Internship report entitled "EMBEDDED SYSTEMS & IOT" is bonafide work carried out by SUDEEP V R (1MV19ME062) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship (18MEI85) prescribed for the Bachelor of Engineering degree.

Mr. Sampath kumar L
Assistant Professor
Sir MVIT, Bengaluru

Dr. K S Shanmukharadhya
Professor and Head of
Mech Dept, Sir MVIT,
Bengaluru

Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. DR. SACHUDHANANDAN.S
2. SB Harish

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
Internal Airport Road, Bangalore-562 157

Signature with Date
[Signature] 25/05/23
25/5/

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590018**



**INTERNSHIP REPORT ON
LCH FINAL ASSEMBLY**

Submitted in partial fulfilment of the requirements for the award of

**Bachelor of Engineering
in
MECHANICAL ENGINEERING**

Submitted By

**SUDHAMSHU A C
1MV19ME063**

Internship carried out

At

HINDUSTAN AERONAUTICS LIMITED, Helicopter Division
Bangalore complex, Ramesh Nagar, Vimanapura, Bengaluru, Karnataka 560017
(Duration: 22-08-2022 to 21-09-2022)

Internal Guide

Dr. Hanamantraygouda M B

Assistant professor

Dept. of Mech Engg, Sir MVIT

External Guide

Mr. Girish D J

Chief Manager, LCH Final Assy,
HAL, Helicopter Division




**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022-23**

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

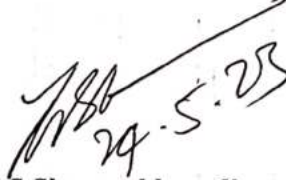
DEPARTMENT OF MECHANICAL ENGINEERING




This is to certify that **SUDHAMSHU A C (1MV19ME063)**, a bonafide student of **SIR M. Visvesvaraya Institute of Technology, Bengaluru** has satisfactorily completed Industrial training (18MEI85) from **Hindustan Aeronautics Limited, Helicopter Division** in partial fulfilment of the requirements as prescribed by the VTU for the award of **Bachelor of Engineering in Mechanical Engineering** and submitted this report during the academic year **2022 – 2023**.


Dr. Hanumantraygouda M B

Assistant professor
Dept of Mech Engg
Sir MVIT, Bengaluru



Dr K S Shanmukharadhya

Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru

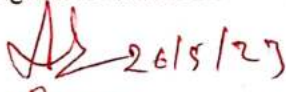
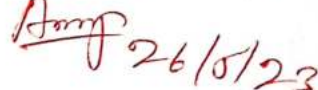

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsamaranahalli
International Airport Road, Bangalore-562157

Principal
Sir MVIT,
Bengaluru

Names of the Examiners

1. 
SHIVAKUMAR
2. **PRAKASHA. A.M**

Signature with Date

 26/5/23
 26/5/23

CERTIFICATE FROM THE INDUSTRY

मानव संसाधन विभाग
हेलिकॉप्टर प्रभाग (हैक)
हिन्दुस्तान एरोनाटिक्स लिमिटेड
पोस्ट बैग संख्या 1790, बंगलूर - 560017, भारत



HR DEPARTMENT
HELICOPTER DIVISION (HC)
HINDUSTAN AERONAUTICS LIMITED
Post Bag No.1790, Bangalore-560 017, India
Ph. (दूरभाष) : 91-80-2231 7891, 2232 2918
Fax (फैक्स) : 91-80-22314717

Ref: H/A/HR/CM (PR)/2022

September 21, 2022

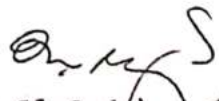
CERTIFICATE

This is to certify that Mr. Sudhamshu A C (USN No : 1MV19ME063) student of BE - Mechanical Engineering, Sir. M. Visvesvaraya Institute of Technology, Bangalore, has undergone "Internship" in LCH Final Assembly, HAL-Helicopter Division from 22.08.2022 to 21.09.2022.

2. His Punctuality, Conduct, Behaviour and Progress during the period of "Internship" was Satisfactory.

3. We wish Mr. Sudhamshu A C all the very best in all his future endeavors.

For HAL-Helicopter Division


(G. H. Raju)
Chief Manager (Public Relations)

21/09/22
23 अगस्त 2022/21 सितंबर 2022
मानव संसाधन विभाग (हैक)
प्रभाग प्रमुख (हैक)
Chief Manager (Public Relations)
हिन्दुस्तान एरोनाटिक्स लिमिटेड
पोस्ट बैग संख्या 1790, बंगलूर - 560017, भारत

पंजीकृत कार्यालय : 15/1, कब्बन रोड, बंगलूर - 560001, भारत
Registered Office: 15/1, Cubbon Road, Bangalore-560 001, India
CIN:U35301KA1963GOI001622 E(1): hr.hcop@hal-india.com

www.hal-india.com



**VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BELAGAVI – 590 018**



An Internship Report on

“METHODS AND TOOLING DEPARTMENT”

Submitted in partial fulfillment of the requirements for the
award of Bachelor of Engineering

in

MECHANICAL ENGINEERING

Submitted By

SUHAS S (1MV19ME064)

Internship carried out

At

“HAL – HELICOPTER DIVISION”

Hindustan Aeronautics Limited, Bangalore – 560 017, India

Internal Guide

Mr. Nataraj M

Assistant Professor

Department of Mechanical Engineering

External Guide

Mr. Hemanth D M

Manager

HAL – Helicopter Division



**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BANGALORE – 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BANGALORE - 562 157


DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Internship Report on "METHODS AND TOOLING DEPARTMENT" submitted by SUHASS bearing 1MV19ME064 in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. The Internship Report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the Bachelor of Engineering Degree.

Mr. Nataraj M
Assistant Professor
Dept. of Mechanical Engg.,


Dr. K S Shanmukharadhya
Head of the Department,
Dept. of Mechanical Engg.,
Sir MVIT, Bangalore

Dr. Rakesh S G
Principal,
Sir MVIT, Bangalore

Name of the Examiners

Signature with date

1. Avinash P. S

 25/5/23

2. Shirabenus

 25/5/23

CERTIFICATE

हैमालय एरोनॉटिक्स लिमिटेड
संयुक्त राज्य अमेरिका (प्रा.)
संयुक्त राज्य अमेरिका लिमिटेड
प्लॉट नं. 1795, बंगलूर - 560 017, भारत



HR DEPARTMENT
HELICOPTER DIVISION (HC)
HINDUSTAN AERONAUTICS LIMITED
Post Bag No. 1795, Bangalore-560 017, India
Ph. (Home) : 01-88-1231 7891, 1232 2916
Fax (Home) : 01-88-1231 6717

Ref: H/A/HR/CM (PR)/2022

September 21, 2022

CERTIFICATE

This is to certify that Mr. Suhas S (USN No : 1MT19ME064) student of BE - Mechanical Engineering, Sir. M. Visvesvaraya Institute of Technology, Bangalore, has undergone "Internship" in Methods & Tooling Department, HAL-Helicopter Division from 22.08.2022 to 21.09.2022.

2. His Punctuality, Conduct, Behaviour and Progress during the period of "Internship" was Satisfactory.

3. We wish Mr. Suhas S all the very best in all his future endeavors.

For HAL-Helicopter Division

(G. H. Raju)
Chief Manager (Public Relations)

29/09/22

पंजीकृत कार्यालय : 15/1, कबुल रोड, बंगलूर - 560001, भारत
Registered Office: 15/1, Cubbin Road, Bangalore-560 001, India
CIN: U15301RA1969GOI001622 E-mail: hr.hang@hal-india.com

www.hal-india.com

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



Internship Report on

**“STUDY OF POWER PACK AND MAINTENANCE IN DIESEL
HHP LOCO”**

Submitted in partial fulfilment of the requirements for the award

of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

SURAJ A 1MV19ME065

Internship carried out at

**DIESEL LOCO SHED
KRISHNARAJAPURA-560036**



Under the Guidance of

Mrs. VEENA B G

Assistant Professor

Department of Mechanical Engineering

SRI. SRINIVAS RAO D

Asst. Divisional Mechanical Engineer

Diesel Loco Shed, Krishnarajapura

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157**




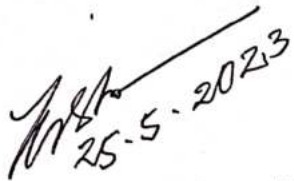
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

It is certified that the Internship work entitled "**STUDY OF POWER PACK AND MAINTENANCE IN DIESEL HHP LOCO**" is a bonafide work carried out by **SURAJ A IMV19ME065** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK (18MEI85)** prescribed for the course of Bachelor of Engineering.


Mrs. VEENA B G
Assistant Professor
Sir MVIT, Bengaluru

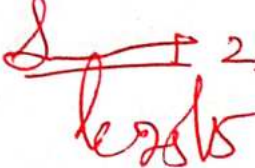

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


Dr. Rakesh S G
PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Bellur, Bengaluru
International Airport Road, Bangalore-562 117

Names of the Examiners

1. Dr. SACHUDHANANDAN S
2. SB Hahn

Signature with Date

 25/05/23
25/05/23



DIESEL LOCO SHED, KRISHNARAJAPURAM
BANGALORE DIVISION, BANGALORE-36, SOUTH WESTERN RAILWAY

CERTIFICATE

This is to certify that the below mentioned student, perusing B.E (Mechanical Engineering) in SIR.M.VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU – 562157 has successfully undergone **internship** in our organization from **August 29, 2022** to **September 24, 2022**. During this period he has completed a project entitled **"Study of Diesel HHP Loco Power pack system"**

SURAJ.A (1MV19ME065)

During this period, his conduct and behavior was found good and he has shown keen interest to learn.

This certificate is solely issued for education purpose to provide industrial exposure to students.

We wish success in his future endeavors.

Date: 24.09.2022
Place: Krishnarajapuram


(YOGESH BHAILEKAR)
Sr. Divisional Mechanical Engineer

वरि. मण्डल यंत्रिक इंजीनियर
Sr. Divisional Mechanical Engineer
द.प.रे., कृष्णराजपुरम S.W. Ry. Krishnarajapuram
बंगलूर - Bangalore-560 036

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANASANGAMA, BELAGAVI - 590 018, KARNATAKA



An Internship Report on

"MAINTENANCE & SAFETY GUARDING IN INDUSTRY"

Submitted in partial fulfillment of the requirement for the award of degree

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted by:

KEERTHI D

(1MV20ME406)

VIII Semester

Internship carried out

At

"INDIAN TOBACCO COMPANY LTD"

PRIMARY MANUFACTURING DEPARTMENT

ITC LIMITED, Bangalore-562157, INDIA

Internal Guide

Mr. S B HALESH

Associate Professor

Sir M. Visvesvaraya Institute of Technology

External Guide

Mr. RISHAB GARG

Manager

ITC-PMD Division



Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

International Airport Road, Hennasamaranahalli, Yelahanka, Bengaluru-562157

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)
International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru 562157


DEPARTMENT OF MECHANICAL ENGINEERING

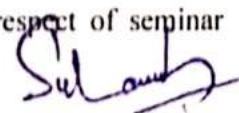


CERTIFICATE

This is to certify that the Internship Report on **"MAINTENANCE & SAFETY GUARDING IN INDUSTRY"** submitted by **KEERTHI D** bearing **1MV20ME406** respectively is a bonafide student of **Sir M. Visvesvaraya Institute of Technology**, has successfully completed the Internship programme in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** prescribed by **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. The Internship report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the Bachelor of Engineering degree.


Signature of Internal Guide
Mr. S B Halesh


Signature of HOD
Dr. K S Shanmukharadhya

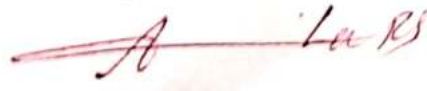

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayana, Hunasamaranahalli
International Airport Road, Bangalore-562 157
Signature of Principal
Prof. Rakesh S G

External Viva

Name of the Examiners:

1. A. Anish P J
2. A. Anish P J

Signature with date


A. Anish P J 25/5/23

CERTIFICATE



ITC Limited
INDIA TOBACCO DIVISION
Meesankurta Village
Jala Hobli
Bengaluru (Horti) - 562 157
INDIA
Tel : 0091 - 80 28467709/10/11/12/14/15

September 27, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Keerthi D, of Sir M. Vinvesvaraya Institute of Technology, Bengaluru bearing Reg. No. 1MV20ME406 has successfully completed a project on "Maintenance and Safety Guarding in Industry" at Production Department at ITC Limited, Bengaluru Factory from 23rd August, 2022 to 23rd September, 2022.

He has done this project under the guidance of Mr. Rishab Garg of Production Department.

He has completed this project to the satisfaction of all concerned.

We wish him all the best in his future endeavours.

HUMAN RESOURCES MANAGER

Visvesvaraya Technological University
Belagavi, Karnataka-590 018



Internship Report on

“EMBEDDED SYSTEM & IOT”

Internship Report submitted in partial fulfilment of the
requirement for the award of

Bachelor of Engineering

In

Mechanical Engineering

Submitted by

MAHESH AINAPURE 1MV20ME407

Internship carried out at

TAKE IT SMART PVT LTD

VIJAYANAGAR-560040



Under the guidance of

Mr. Chandrasekhar B

Assistant Professor
Sir MVIT, Bengaluru

Mr. Jagannath

Trainer
Take it Smart

DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

2022-2023



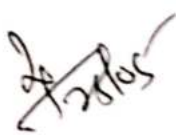
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

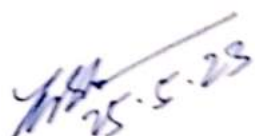
DEPARTMENT OF MECHANICAL ENGINEERING

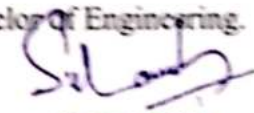


CERTIFICATE

It is certified that the Internship work entitled "EMBEDDED SYSTEM AND IOT" is a bonafide work carried out by **MAHESH AINAPURE(1MV20ME407)** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERNSHIP WORK(18MEI85)** prescribed for the course of Bachelor of Engineering.


Mr. Chandrasekhar B
Assistant Professor
Sir MVIT, Bengaluru

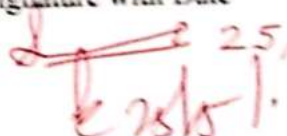
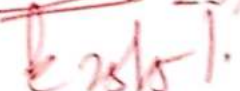

Dr. K S Shanmukharadhya
Professor and Head of
Mech.Dept., Sir MVIT, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsur, Bengaluru-562157
Dr. Rakesh S G
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. Dr. SACHUDHANANDAN S
2. Dr. Hrishabh

Signature with Date

 25/05/23


INTERNSHIP CERTIFICATE



Take It Smart (OPC) PVT LTD

14, SGN Arcade, 1st Floor, 2nd stage, 1st Main Rd, RPC Layout,
Vijayanagar, Bengaluru - 560 040 Mob. : 8050104212 / 8792697647
www.takeitsmart.in

TAKE IT SMART

Reg No. : 150027

ISO 9001 :2015

Internship Certificate

This Certifies that

MAHESH AINAPURE

Student of **SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY**

Has completed Internship in **Embedded System and IoT**

From **28th January 2023 to 28th February 2023**

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.



Mallikarjun Kumbar
Director



#startupindia

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590018**



An Internship Report On
“VERTICAL INDUCTION HARDENING MACHINE”
Submitted in partial fulfilment of the requirements for the award of degree of
Bachelor of Engineering
In
Mechanical Engineering
Submitted by
PREMSAGAR G
1MV20ME408
Internship carried out at
BHARAT EARTH MOVERS LIMITED
K.G.F

Internal guide,
Dr. PRASHANT S HUMNABAD
Assistant professor
Department of Mechanical Engineering
Sir M. Visvesvaraya Institute of Technology

External guide,
Mr. BASAVARAJ
General Manager
Bharat earth movers limited
K.G.F



beml
NEW FRONTIERS. NEW DREAMS

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru-562157
DEPARTMENT OF MECHANICAL ENGINEERING
ACADEMIC YEAR: 2022 - 2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)
International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru 562157



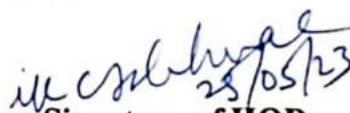
DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

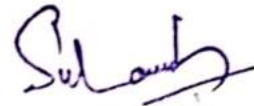
This is to certify that the internship work entitled, **"VERTICAL INDUCTION HARDENING MACHINE"** is a bonafide work carried out by **PREMSAGAR G (1MV20ME408)** in partial fulfillment of the requirements for the award of **BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING** of the Visvesvaraya Technological University, Belagavi during the year 2022-23. The report has been approved as it satisfies the academic requirements with respect to internship work prescribed by the VTU of the above-mentioned degree.

for 

Signature of Internal Guide
Dr. PRASHANT S HUMNABAD
Assistant professor
Department of Mechanical
Engineering


25/05/23

Signature of HOD
Dr. K S SHANMUKHARADHYA
Professor and HOD
Dept. of Mech Engg., SMVIT



PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadasaroad, Hunasamaranahalli
International Airport Road, Bengaluru-562157

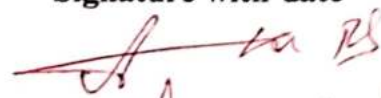
Signature of Principal
Dr. RAKESH S G
Principal
Sir MVIT
Bangalore

External Viva

Name of the Examiners:

1. Avinash . P . S
2. Shivakumari

Signature with date


25/5/23



Corporate Office:

"BEML SOUDHA",
Bangalore - 560 027.
Tel.: 080-2223085
E-mail: office@pr.beml.co.in

Manufacturing Units:

Bangalore Complex
Tel.: 080-25241752
e-mail: bemlcmr@vsnl.com

Mysore Complex
Tel.: 0821-2402333
e-mail: bemlmys@sanchamat.in

International Business Division
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e-mail: office@export.beml.co.in

Aerospace Division
Tel.: +91-80-22963506 / 575
e-mail: edd@beml.co.in

Trading Division
Tel.: +91-80-2296 3522 / 524
e-mail: office@trading.beml.co.in

Regional Offices :

Bilaspur
Tel.: 07752-252745
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Hyderabad
Tel.: 040-2322 7032
e-mail: hyderabad@rm.beml.co.in

Kolkata
Tel.: 033-22826314
e-mail: kolkata@rm.beml.co.in

Mumbai
Tel.: 022-22049490
e-mail: mumbai@rm.beml.co.in

Nagpur
Tel.: 0712-2248435
e-mail: nagpur@rm.beml.co.in

New Delhi
Tel.: 011-23316500
e-mail: delhi@rm.beml.co.in

Ranchi
Tel.: 0651-2560370
e-mail: ranchi@rm.beml.co.in

Sambalpur
Tel.: 0663-2521604
e-mail: sambalpur@rm.beml.co.in

Singrauli
Tel.: 07605-268260
e-mail: singrauli@rm.beml.co.in



Ref: EKT/2022/1-141
Dtd: 01.10.2022

INTERNSHIP TRAINING CERTIFICATE

This is to certify that

Mr. PREMSAGAR G (1MV20ME408) BE in
(Mechanical Engineering) student of Sir M. Visvesvaraya
Institute of Technology Bangalore has undergone
Internship Training in our Organization at BEML
Limited, K.G.F Complex from 02.09.2022 To 01.10.2022

In the following Divisions

- 1) Earth Mover Division**
- 2) Hydraulic & Power Line Division**

His Character and Conduct were Good during the above period,
for BEML LIMITED.


(MALATESH G TULAJANNAVARA)
SENIOR MANAGER-TRAINING

बी ई एम एल नगर, कोलार गोल्ड फ़िल्ड्स - 563 116
BEML Nagar, Kolar Gold Fields - 563 116, Karnataka, India
Ph.: 08163-263777, 263213, Fax: 08163-263274, 263689
e-mail: eda@beml.co.in ak@beml.co.in

08205554745

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANASANGAMA, BELAGAVI – 590 018, KARNATAKA



An Internship Report on

“STUDY ON BOILERS AND REFRIGERATION UNITS”

Submitted in partial fulfillment of the requirement for the award of degree

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted by:

PUNEETH N

(1MV20ME409)

VIII Semester

Internship carried out

At

**“KOLAR-CHIKKABALLAPURA COOPERATIVE MILK
PRODUCERS SOCIETIES UNION LIMITED”**

Kolar Dairy Premises, NH 75, Huthur, Post, Kolar, Karnataka 563 102

Internal Guide

Dr. Prashant S Humnabad

Assistant Professor

SMVIT, Bengaluru, Karnataka

External Guide

Mr. Rajeev K V

Manager

KOMUL, Kolar, Karnataka



Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru-562157

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2022 - 2023

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

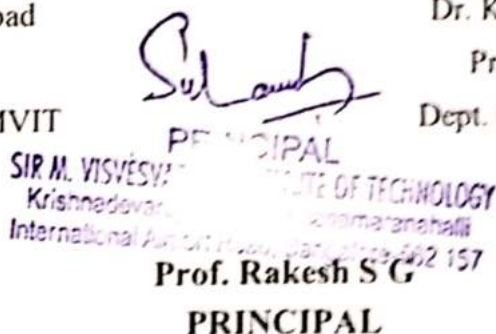
This is to certify that the Internship Report on **"STUDY ON BOILERS AND REFRIGERATION UNITS"** submitted by **PUNEETH N** bearing **1MV20ME469** respectively is a bonafide student of **Sir M. Visvesvaraya Institute of Technology**, has successfully completed the Internship programme in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** prescribed by **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. The Internship report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the Bachelor of Engineering degree.


Signature of Internal Guide

Dr. Prashant S Humnabad
Assistant Professor
Dept. of Mech Engg., SMVIT


Signature of HOD

Dr. K S Shanmukharadhya
Professor and HOD
Dept. of Mech Engg., SMVIT

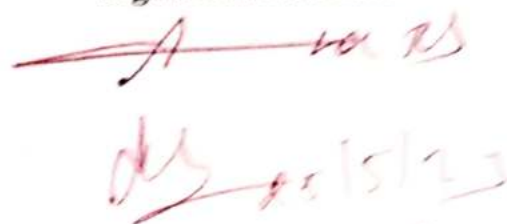
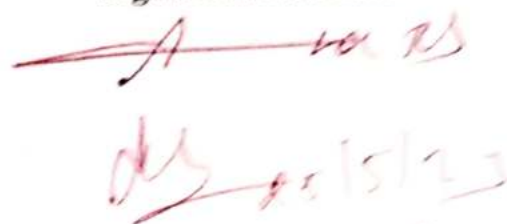

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya, Hunasamaranahalli
International Airport Road, Bengaluru-562157
Prof. Rakesh S G
PRINCIPAL

External Viva

Name of the Examiners:

1. Arinath P.
2. Shivakum S

Signature with date

CERTIFICATE



ಕೋಲಾರ ಜಿಲ್ಲಾ ಸಹಕಾರ ಹಾಲು ಉತ್ಪಾದಕರ ಸಂಘಗಳ ಒಕ್ಕೂಟ ನಿಯಮಿತ
Kolar District Co-operative Milk Producers Societies Union Ltd.

KMU : ADMN : 5292

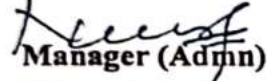
: 2022-23

Date : 23.09.2022

CERTIFICATE

This is to certify that PUNEETH N (Reg No : 1MV20ME409) Sir
M Visvesvaraya Institute Of Technology, Bengaluru student studying BE
(Mechanical Engineering) has undertaken Internship Project in dairy entitled
as "A STUDY ON BOILERS AND REFRIGERATION UNITS" at Kolar
District Co-operative Milk Producers Societies Union Ltd., Kolar. For the
Period from 24.08.22 to 23.09.2022.

For Kolar Milk Union Limited,


Manager (Admin)

ವ್ಯವಸ್ಥಾಪಕರು (ಆಡಳಿತ)
ಕೋಲಾರ ಜಿಲ್ಲಾ ಸಹಕಾರ ಹಾಲು ಒಕ್ಕೂಟ ನ.
ಕೋಲಾರ

ಕೋಲಾರ ದೇರಿ ಆವರಣ, ರಾಷ್ಟ್ರೀಯ ಹೆದ್ದಾರಿ - 75, ಹುತ್ತೂರು ಆಂಚೆ, ಕೋಲಾರ - 563 102

Kolar Dairy, NH-75, Huttur Post, Kolar - 563 102.

(ISO-22000 ; 2005 Certified)

Ph : 08152-282300, Fax : 08152-282303

E-mail : komulmd@yahoo.co.in komulmd@gmail.com website : www.komul.coop

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



Internship Report On

**“STUDY OF DIFFERENT MANUFACTURING PROCESS
AT HMT”**

**Submitted in partial fulfillment of the requirements for the award
of Bachelor of Engineering**

**in
MECHANICAL ENGINEERING**
Submitted By

RAJATH H V IMV20ME410

For the academic year 2022-2023

**At
“HMT MACHINE TOOLS LIMITED”**

Bangalore Complex

HMT colony, HMT Estate, Jalahalli, Bengaluru, Karnataka 560013

Duration: 1 Month (22-08-2022 to 19-09-2022)



Under the guidance of

Internal Guide
Mr. S B HALESH
Associate Professor
Dept. of Mechanical Engineering,
Sir MVIT Bengaluru

External Guide
Mr. ATMANAND N
Training Officer
HMT Machine Tools Limited
Jalahalli, Bengaluru



DEPARTMENT OF MECHANICAL ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)

Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157

Academic year: 2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)
Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the internship entitled "STUDY OF DIFFERENT MANUFACTURING PROCESS" carried out by **Mr. RAJATH H V** (USN: IMV20ME410), a bonafide student of Sir M. Visvesvaraya Institute of Technology, Bengaluru in partial fulfilment for the requirements for the award of the degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for the above-mentioned degree.


Signature of Guide
Mr. S B HALESH


Signature of HOD
Dr. K S SHANMUKHARADHYA


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Krishnasimhanahalli
International Airport Road, Bengaluru - 562157
Signature of Principal
Prof. RAKESH S G

External Viva

Name of the Examiners:

1. Avinash P. S
2. Chinakanth

Signature with date




CERTIFICATE

ISO 9001 : 2008 Unit



RIGHT TO
INFORMATION

एचएमटी मशीन टूल्स लिमिटेड
(एचएमटी लिमिटेड की संपूर्ण स्वामित्व वाली संस्था)

(एक सार्वजनिक उपस्था)

प्रशिक्षण केंद्र

बैंगलूरु कॉम्प्लेक्स

जालाहल्ली पो. ५६० ०१३, बंगलूरु

दूरभाष : +९१-८०-२६३८ ८३६५

फैक्स : +९१-८०-२६३८ २७९७

ई-मेल : mbxtrg@hmtmachinetools.com

वेब साइट : www.hmtmachinetools.com



HMT MACHINE TOOLS LIMITED

(A Wholly owned Subsidiary of HMT Ltd.)

(A Government of India Undertaking)

TRAINING CENTER

BANGALORE COMPLEX

Jalahalli PO., Bengaluru - 560 013, INDIA

Phone : +91-80-2638 8365

Fax : +91-80-2638 2797

E-mail : mbxtrg@hmtmachinetools.com

Website : www.hmtmachinetools.com

Ref: MBX/TC/2022-23

21-09-2022

CERTIFICATE

This is to certify that **Mr. Rajath H V (USN 1MV20ME410)**, Student of BE- Mechanical Engineering from Sir M Visvesvaraya Institute of Technology, Bengaluru has successfully completed his **"INTERNSHIP"** at **HMT MACHINE TOOLS LIMITED, BANGALORE COMPLEX** from 22-08-2022 to 19-09-2022 as partial fulfillment for the award of degree.

During the period of Internship, the student was found to be regular and his conduct was good.

For HMT Machine Tools Ltd.



Chief of Training
HMT Machine Tools Limited
Bangalore Complex (BHQ)
(Command N)
Officer I/C(TC)

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI – 590 018, KARNATAKA**



An Internship Report on

“STUDY ON BOILERS AND REFRIGERATION UNITS”

Submitted in partial fulfillment of the requirement for the award of degree

Bachelor of Engineering
In
MECHANICAL ENGINEERING

Submitted by:
VAMSHI V
(1MV20ME411)
VIII Semester

*Internship carried out
At*

**“KOLAR-CHIKKABALLAPURA COOPERATIVE MILK
PRODUCERS SOCIETIES UNION LIMITED”**

Kolar Dairy Premises, NH 75, Huthur, Post, Kolar, Karnataka 563 102

Internal Guide

Dr. Prashant S Humnabad
Assistant Professor
SMVIT, Bengaluru, Karnataka

External Guide

Mr. RAJEEV K V
Manager
KOMUL, Kolar, Karnataka



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY OF TECHNOLOGY, BENGALURU**

ACADEMIC YEAR: 2022 - 2023


Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)
International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru 562157

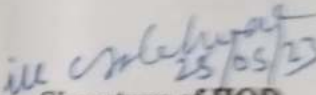
DEPARTMENT OF MECHANICAL ENGINEERING

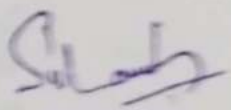


CERTIFICATE

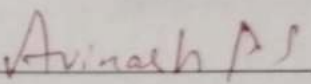
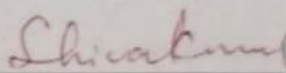
This is to certify that the Internship Report on **"STUDY ON BOULERS AND REFRIGERATION UNITS"** submitted by **VAMSHI V** bearing **EMV20ME401** respectively is a bonafide student of Sir M. Visvesvaraya Institute of Technology, has successfully completed the Internship program in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. The Internship report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the Bachelor of Engineering degree.


Signature of Internal Guide
Dr. Prashant S Humnabad
Assistant Professor
Dept. of Mech Engg, Sir MVIT

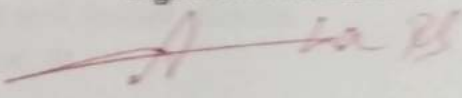
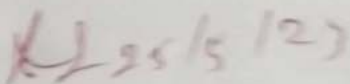

Signature of HOD
Dr K S Shanmukharadhya
Professor and Head
Dept. of Mech Engg, Sir MVIT


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Kundrathur, Bengaluru, Karnataka
International Airport Road, Bengaluru-562 157
Signature of Principal
Dr. Rakesh S G
Principal
Sir MVIT, Bangalore

Name of the Examiners:

1. 
2. 

Signature with date

CERTIFICATE



ಕೋಲಾರ ಜಿಲ್ಲಾ ಸಹಕಾರ ಹಾಲು ಉತ್ಪಾದಕರ ಸಂಘಗಳ ಒಕ್ಕೂಟ ನಿಯಮಿತ
Kolar District Co-operative Milk Producers Societies Union Ltd.

KMU : ADMN : 5 291

: 2022-23

Date : 23.09.2022

CERTIFICATE

This is to certify that VAMSHI V (Reg No : IMV20ME411) Sir
M Visvesvaraya Institute Of Technology, Bengaluru student studying BE
(Mechanical Engineering) has undertaken Internship Project in dairy entitled
as "A STUDY ON BOILERS AND REFRIGERATION UNITS" at Kolar
District Co-operative Milk Producers Societies Union Ltd., Kolar. For the
Period from 24.08.22 to 23.09.2022.

For Kolar Milk Union Limited,

Manager (Admin)

ವ್ಯವಸ್ಥಾಪಕರು (ಆಡಳಿತ)
ಕೋಲಾರ ಜಿಲ್ಲಾ ಸಹಕಾರ ಹಾಲು ಒಕ್ಕೂಟ ನಿ.
ಕೋಲಾರ

ಕೋಲಾರ ದೇರಿ ಆವರಣ, ರಾಷ್ಟ್ರೀಯ ಹೆದ್ದಾರಿ - 75, ಹುತ್ತುರು ಅಂಚೆ, ಕೋಲಾರ - 563 102

Kolar Dairy, NH-75, Huttur Post, Kolar - 563 102.
(ISO-22000 : 2005 Certified)

Ph : 08152-282300, Fax : 08152-282303

E-mail : komulmd@yahoo.co.in komulmd@gmail.com website : www.komul.coop

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



Internship Report

Submitted in partial fulfillment of the requirements for the award of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted by

BALARAJU K 1MV20ME400

Under the Guidance of

Mr. Sampath Kumar L

Assistant Professor

Department of Mechanical Engineering



DEPARTMENT OF MECHANICAL ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY,

BENGALURU

Academic year: 2022-23

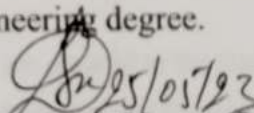
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

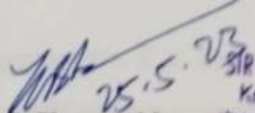
Certified that the Internship entitled "**PRODUCTION AND QUALITY CONTROL**" is a bonafied work carried out by **BALARAJU K**, USN : **1MV20ME400** a student of VIII Semester in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of Sir M Visvesvaraya Institute of Technology, Bengaluru during the year **2022-2023** has successfully completed the internship at "**SPACENEX AREO PRIVATE LIMITED**" and has successfully submitted the report. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship Report has been approved as it satisfies the academic requirements in respect of **Internship (18MEI85)** prescribed for the Bachelor of Engineering degree.


Mr. Sampath Kumar L.

Associate Professor

Dept. of Mech Engg.

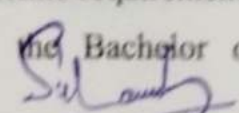
Sir MVIT, Bengaluru.


Dr. K. S. Shanmukharadhya

Professor & HOD

Dept. of Mech Engg.

Sir MVIT, Bengaluru .

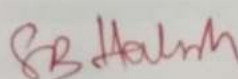

PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

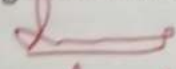
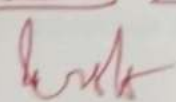
Principal

Sir MVIT, Bengaluru.

Names of the Examiners

1. **Dr. SACHUDHANANDAN.S**
2. 

Signature with Date

 25/05/23


“EMBEDDED SYSTEMS & IOT”

In

Submitted By

1MV20ME401

Under the Guidance of

Asst. Professor

Academic Year: 2022-23

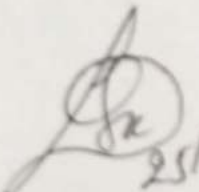
SIR M. VISVESVARAYA INSTITUTE OF
TECHNOLOGY BENGALURU-562157, KARNATAKA,
INDIA

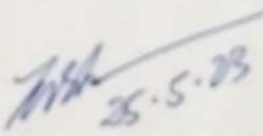
DEPARTMENT OF MECHANICAL ENGINEERING

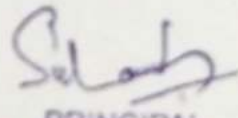


CERTIFICATE

This is to certify that the Internship report entitled "EMBEDDED SYSTEMS & IOT" is bonafide work carried out by **BHARATH T S (1MV20ME401)** in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship (18ME185) prescribed for the Bachelor of Engineering degree.


25/05/23
Mr. Sampath Kumar L.
Assistant Professor
Sir MVIT, Bengaluru

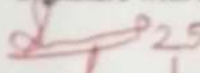
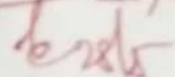

25.5.23
Dr. K S Shanmukharadhya
Professor and Head of
Mech Dept, Sir MVIT,
Bengaluru


PRINCIPAL
Dr. Rakesh S G.
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. D.S. SACHUDHANANDAN.S
2. S.R. Halim

Signature with Date

 25/05/23




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No. : 150027

ISO 9001 :2015

Internship Certificate

This Certifies that

BHARATH T.S

Student of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY**

Has completed Internship in **Embedded System and IOT**

From **28th January 2023 to 28th February 2023**

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as
Part of the team during his/her tenure. We take this opportunity to thank him / her
And Wish him / her all the best for him / her future.



MEITE

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Mallikarjun Kumbar
Director



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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590018, KARNATAKA, INDIA**



**INTERNSHIP REPORT ON
STUDY ON FABRICATION AND TOTAL QUALITY
MANAGEMENT OF STAINLESS STEEL**

Submitted in partial fulfillment of the
requirements for the award of
BACHELOR OF ENGINEERING

In
MECHANICAL ENGINEERING

Submitted By
CHANDRU KUMAR H V 1MV20ME402

INTERNSHIP CARRIED OUT
AT

SIDDHI VINAYAKA FAB ENGINEERING PRIVATE LIMITED
No.206, 11th main 3rd Phase, Peenya Industrial Area, Bangalore – 560058

Internal Guide

Mr.Chandrasekhar B

Assistant Professor

Sir M Visvesvaraya Institute of Technology

External Guide

Mohammed Basheer Ahmed

Technical Director

Siddhi Vinayaka Fab Engineering



**DEPARTMENT OF MECHANICAL ENGINEERING SIR M
VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157, KARNATAKA, INDIA**

Academic Year: 2022-23


SIR M. VISVESVARAYA INSTITUTE OF
TECHNOLOGY BENGALURU-562157, KARNATAKA,
INDIA

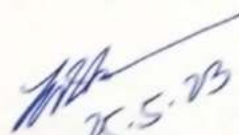
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

This is to certify that the Internship report entitled "STUDY ON FABRICATION AND TOTAL QUALITY MANAGEMENT OF STAINLESS STEEL" is bonafide work carried out by CHANDRU KUMAR H V (1MV20ME402) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship (18ME185) prescribed for the Bachelor of Engineering degree.


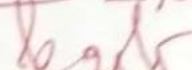

Mr. Chandrasekhar B
Assistant Professor
Sir MVIT, Bengaluru


Dr. K S Shanmukharadhya
Professor and Head of
Mech Dept, Sir MVIT,


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Krishnadevarayanagar, Hunsarasanahalli
International Airport Road, Bangalore-562 157
Dr. Rakesh SG
Principal
Sir MVIT, Bengaluru

Names of the Examiners

Signature with Date

1. Dr. SACHUDHANANDAN.S  25/05/23
2. Dr. Rakesh SG 

CERTIFICATE



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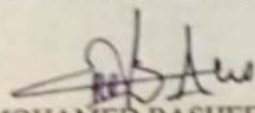
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This is to certify that **MR. CHANDRU KUMAR H V** Pursuing B.E (Mechanical Engineering) department at **SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY** affiliated to VTU Belagavi bearing USN Number **1MV20ME402** has completed Internship in our company for the duration of 30 days From 22/08/2022 TO 22/09/2022.

During the above period his conduct was good and he showed eagerness to learn the concept.

We wish him very best in all his future endeavors.

For,
SIDHI VINAYAKA FAB ENGINEERING PVT.LTD.


MOHAMED BASHEER AHMED
(TECHNICAL DIRECTOR)



Specialist in : Pressure Vessels (MS & SS) Stainless Steel Fabrication & Precision Machined Components.



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BELAGAVI – 590018, KARNATAKA, INDIA**



Internship Report On

“CNC PROGRAMMING AND OPERATION”

Submitted in Partial Fulfillment of the requirement for the award of the degree of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By:

DRAKSHAYINI

1MV20ME403

Under the Guidance of
Mr. SAMPATH KUMAR L
Dept of Mechanical Engineering
SMVIT Bengaluru-562157

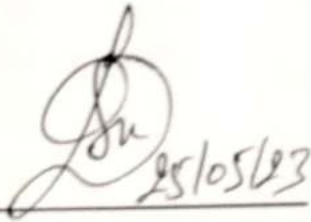


**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562157
Academic Year: 2022-2023**

Sir M Visvesvaraya Institute of Technology
[Affiliated to Visvesvaraya Technological University, Belgaum]
Bangaluru-562157
2022-2023

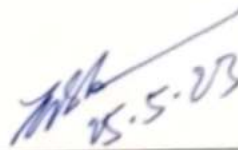
CERTIFICATE

Certified that the Internship entitled "CNC PROGRAMMING AND OPERATION" carried out by Ms. DRAKSHAYINI bearing USN: 1MV20ME403 a Bonafied student of Sir M V Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internship have been executed under the directions of Mr. SAMPATH KUMAR L. The report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the said degree.



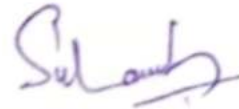
Signature of Guide

Mr. SAMPATH KUMAR L
Assistant Professor
Dept of Mech Engg
SIR MVIT



Signature of HOD

Dr.K.S.Shanmukharadhya
HOD & Professor
Dept of Mech Engg
SIR MVIT



PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsuramangalhalli
International Airport Road, Bangalore-560 075

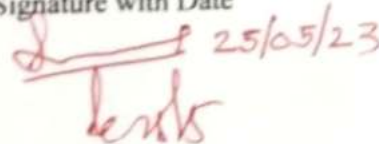
Signature of Principal

Dr. Rakesh S G
Principal
SIR MVIT

Names of the Examiners

1. DR. SACHUDHANAND AN. S
2. SB Heblsh

Signature with Date



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



An Internship Report On

**“STUDY OF DIFFERENT MANUFACTURING PROCESS
AT HMT”**

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering
in
MECHANICAL ENGINEERING

Submitted By:
EKANTH P MOHITHE
(1MV20ME404)

Internship carried out
At
“HMT MACHINE TOOLS LIMITED”

Bangalore Complex
HMT colony, HMT Estate, Jalahalli, Bengaluru, Karnataka 560013
Duration: 1 Month (05-09-2022 to 01-10-2022)

Internal Guide
Dr. PRASHANT S HUMNABAD
Assistant Professor
Sir M. Visvesvaraya Institute of Technology

External Guide
Mr. ATMANAND N
Training Officer
HMT Machine Tools Limited



**DEPARTMENT OF MECHANICAL ENGINEERING SIR
M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)
International Airport Road, Hunasamaranahalli, Yelahanka, Bengaluru 562157



CERTIFICATE

This is to certify that the Internship Report on "HMT Machine Tools Limited" submitted by **EKANTH P MOHITHE** bearing **1MV20ME404** respectively is a bonafide student of Sir M. Visvesvaraya Institute of Technology, has successfully completed the Internship program in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. The Internship report has been approved as it satisfies the academic requirements in respect of seminar prescribed for the Bachelor of Engineering degree.

for 4/5/23
Signature of Internal Guide
Dr. PRASHANT S HUMNABAD
Assistant Professor
Dept. of Mech Engg., SMVIT

25.5.23
Signature of HOD
Dr. K S Shanmukharadhya
Professor and HOD
Dept. of Mech Engg., SMVIT

Sulabh
PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157
Signature of PRINCIPAL
Prof. Rakesh S G

External Viva

Name of the Examiners:

1. Arinash P J
2. Shrinivas S

Signature with date

Arinash P J
Shrinivas S
25/5/23

ISO 9001 : 2008 Unit



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hmt
HMT MACHINE TOOLS LIMITED
(A Wholly owned Subsidiary of HMT Ltd.)
(A Government of India Undertaking)
TRAINING CENTER
BANGALORE COMPLEX
Address: P.O. Bangalore- 560 013, INDIA
Phone: +91-85-2628-0585
Fax: +91-85-2628-2797
E-mail: training@hmtmachinetools.com
Website: www.hmtmachinetools.com

Ref: MBX/TC/2022-23

06-05-2022

CERTIFICATE

This is to certify that Mr. Ekanth P Mohite (USN 1MV2854E404), Student of B.E. Mechanical Engineering from Sir M Viswambayya Institute of Technology, Bengaluru has successfully completed his "INTERNSHIP" at HMT MACHINE TOOLS LIMITED, BANGALORE COMPLEX from 05-09-2022 to 01-10-2022 as partial fulfillment for the award of degree

During the period of Internship, the student was found to be regular and his conduct was good.

For HMT Machine Tools Ltd.



Chief of Training
HMT Machine Tools Limited
Bangalore Complex
BANGALORE - 560 013

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018



Internship Report on

“AUTODESK INVENTOR SOFTWARE”

Submitted in partial fulfilment of the requirements for the award

of

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted By

KANTEPPA 1MV20ME405

Internship carried out at

TAKE IT SMART PVT. LTD

VIJAYNAGAR-560040



Under the Guidance of

Mr. Chandrashekar B

Asst. Professor

Department of Mechanical Engineering

Mr. RAGHUVENDRA

Asst. Designer Mechanical Engineer

Take It Smart Vijaynagar

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU-562157**

Academic year: 2022-23

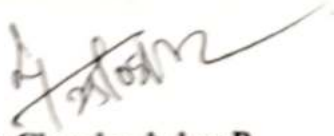
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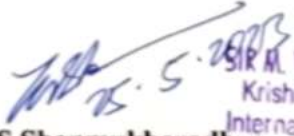
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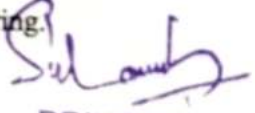


CERTIFICATE

It is certified that the Internship work entitled "TAKE IT SMART PVT. LMT" is a bonafide work carried out by KANTEPPA (1MV20ME405) in partial fulfillment for the award of the Degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of **INTERSHIP WORK (18ME185)** prescribed for the course of Bachelor of Engineering.


Mr. Chandrashekar B
Assistant Professor
Sir MVIT, Bengaluru




Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bengaluru


Dr. Rakesh S C
Principal
Sir MVIT, Bengaluru

Names of the Examiners

1. DR. SACHIDHANANDAN S
2. SR Halim

Signature with Date

 25/05/23


INTERNSHIP CERTIFICATE



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PLS-PLS

Practice Questions

Sri Krishnadevaraya Educational Trust
Sir M. Visvesvaraya Institute of Technology, Bengaluru
Department of Mechanical Engineering

MINI-PROJECT STUDENT LIST

Sl. NO	GROUP NO	USN	NAME	GUIDE
1	01	1MV21ME406	Chethan K	Dr V Shantha ✓
2	01	1MV21ME409	Deepak Raju N	
3	01	1MV21ME431	Puneeth J	
4	01	1MV21ME448	Yashwanth M	
5	02	1MV21ME405	Charan Kumar S	Mrs Veena B G ✓
6	02	1MV21ME424	Mohammed Adnan Shariff	
7	02	1MV21ME426	Nandan Kumar N	
8	02	1MV21ME439	Sirisha S	
9	03	1MV20ME031	Rajeev K L	Mr. Janardhana K ✓
10	03	1MV20ME038	Srujan K	
11	03	1MV20ME040	Sukshith	
12	03	1MV20ME044	Venkatesh	
13	04	1MV20ME009	Bhaskar M L	Mr. Natraja M. ✓
14	04	1MV20ME016	Divya K	
15	04	1MV20ME032	Rakesh N	
16	04	1MV20ME033	Rishikesh	
17	05	1MV21ME408	Darshan N	Dr Prashant S H ✓
18	05	1MV21ME425	Mahammed Samiuddin	
19	05	1MV21ME438	Shiv Kumar	
20	05	1MV21ME441	Suresh A	
21	06	1MV20ME007	Anup Nirmal Abraham	Mr. K Ejaz Ahmed ✓
22	06	1MV20ME008	Bharatha H S	
23	06	1MV20ME025	Mayur Prakash	
24	06	1MV20ME036	Shoaib Affan M	
25	07	1MV21ME414	Hariharan S	Mr. Sampth Kumar L ✓
26	07	1MV21ME440	Sumeet H	
27	07	1MV21ME444	Tejesh D	
28	07	1MV21ME445	U Sandesh	
29	08	1MV21ME400	Ajaykanth G V	Mrs Asha Rani A ✓
30	08	1MV21ME412	Hanish N	
31	08	1MV21ME413	Hareesha V A	
32	08	1MV21ME415	Hemanth	
33	09	1MV20ME014	Dinesh B	Mr. Kumaraswamy R ✓

34	09	IMV 20ME 015	Dinesh H M	
35	09	IMV 20ME 020	Kishor Kumar R	
36	09	IMV 20ME 022	Lakshmiha R	
37	10	IMV 21ME 417	Koustubha Vishnu S	Dr G Balakumar
38	10	IMV 21ME 421	Maresh R	
39	10	IMV 21ME 446	Umesh S	
40	10	IMV 21ME 450	Yogesh H K	
41	11	IMV 21ME 443	Tejas S	Dr. K S Shanmukharadhya
42	11	IMV 21ME 447	Vijaya Kumar K R	
43	11	IMV 21ME 420	Mahanthesh M H	
44	11	IMV 21ME 428	Nithin A	
45	12	IMV 20ME 011	Dev Prakesh Pandey	Dr. K S Shanmukharadhya
46	12	IMV 20ME 019	Karan Rathore	
47	12	IMV 20ME 028	Pranoy Jason Dsouza	
48	12	IMV 20ME 035	Shantaveer	
49	13	IMV 21ME 418	M Nithish Kumar	Dr Hanamantraygouda M B
50	13	IMV 21ME 419	Madhu J S	
51	13	IMV 21ME 427	Naveed Pasha	
52	13	IMV 21ME 433	Raviteja B	
53	14	IMV 20ME 017	Harish verma	Dr V Shantha
54	14	IMV 20ME 018	Jeeyan Kumar C R	
55	14	IMV 20ME 023	M S Praveen Sai	
56	14	IMV 20ME 023	Mallikarjan Sajjan	
57	14	IMV 20ME 066	Anuradh B	Dr G Balakumar
58	15	IMV 20ME 013	Dharshan	
59	15	IMV 20ME 043	Varuna B	
60	15	IMV 20ME 045	Vishwas Rao	
61	16	IMV 21ME 423	Meena H I	Mr. K Madhukumar
62	16	IMV 21ME 430	Pavan Kumar D A	
63	16	IMV 21ME 434	Risheek Kamble	
64	16	IMV 21ME 436	Sagar P Kalapur	
65	17	IMV 20ME 002	Ablushek S	Mr. Shiva Kumar S
66	17	IMV 20ME 012	Dhanush S	
67	17	IMV 20ME 026	Nishanth Kalyan N	
68	17	IMV 20ME 039	Suhas N M	
69	18	IMV 21ME 403	Aravind	Mr. H S Yeshyantha
70	18	IMV 21ME 407	Danesh U paladinn	
71	18	IMV 21ME 429	Pavan Kalmadi	
72	18	IMV 21ME 435	Sachin Patil	
73	19	IMV 20ME 001	Abhilash G S	Mr. S B Halesh
74	19	IMV 20ME 003	Adarsh D R	
75	19	IMV 20ME 004	Adithya S Patil	

76	19	IMV20ME010	Bhuvaneshwara.P
77	20	IMV20ME021	Kuber
78	20	IMV20ME034	Sachin Agarwal
79	20	IMV20ME037	Shreyas Belliappa K K
80	20	IMV20ME041	Suraj Chavan
81	21	IMV21ME404	Bharatha
82	21	IMV21ME410	Divakarababu G S
83	21	IMV21ME411	Gurukiran K
84	21	IMV21ME416	Kiran
85	22	IMV21ME401	Akshay Kumar
86	22	IMV21ME402	Apsar G M
87	22	IMV21ME449	Yogesh G E
88	23	IMV21ME432	Rakshitha B
89	23	IMV21ME437	Sai Tarakaram V
90	23	IMV21ME442	Syed Suhel Siddiqh

Dr Kiran Kumar M ✓

Mr. B Chandrashekar ✓

Mr Ramesh C G ✓

Mr. Prashanth L ✓

Project Coordinator

Project Co Coordinator

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28.04.23

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28.4.23

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28.4.2023
H O D

PROFESSOR & HEAD
Department of Mechanical Engineering
Sir M. Visvesvaraya Institute of Technology
Bengaluru-562 157

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



Mini Project Report on

Multi-Blade Vegetable Cutting Machine

Submitted in partial fulfilment of the requirements for the award of

Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

**CHETHAN K
DEEPAK RAJU N
PUNEETH J
YASHWANTH M**

**1MV21ME406
1MV21ME409
1MV21ME431
1MV21ME448**

Under the guidance of

Dr.V.Shantha

Professor

Department of Mechanical Engineering



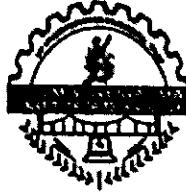
DEPARTMENT OF MECHANICAL ENGINEERING

Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGULURU

Academic year: 2022-2023

SIR M.VISVESVARAYAINSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled " MULTI-BLADE VEGETABLE CUTTING MACHINE" bonafide work carried out by CHETHAN K - 1MV21ME406, DEEPAK RAJU N - 1MV21ME409, PUNEETH J - 1MV21ME431, YASHWANTH M - 1MV21ME448, in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini Project Work (18MEM68) prescribed for the Bachelor of Engineering degree.

Dr. V. SHANTHA

Professor

Sir MVIT, Bengaluru

18.7.2023

Dr. K. S. SHANMUKHARADHYA

Professor and Head of

Mech Dept, Sir MVIT, Bengaluru

PRINCIPAL

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Principal

Sir MVIT, Bengaluru

Names of the Examiner

1. Dr. Pradyumn H.S.

2. Dr. B. S. PRAVEEN KUMAR

Signature with date

19/7
19/7

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



A project report on

POWER GENERATION USING SWING MOTION
Submitted in partial fulfillment of the requirement for the award of

Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

Charan Kumar. S

1MV21ME405

Mohammed Adnan Shariff

1MV21ME424

Nandan Kumar N

1MV21ME426

Sirisha. S

1MV21ME439

Under the Guidance of
Mrs. Veena B G
Assistant professor



DEPARTMENT OF MECHANICAL ENGINEERING
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Academic year: 2022 - 23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "POWER GENERATION USING SWING MOTION" is a bonafide work carried out by Charan Kumar.S 1MV21ME405, Sirisha.s 1MV21ME439, Nandan Kumar N 1MV21ME426, Mohammed Adnan Shariff 1MV21ME424 in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

PRINCIPAL

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Mrs. Veena B G

Assistant professor

Mech. Engg.

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Dr. K S Shanmukharadhya

Professor and Head

Dept. of Mech. Engg.

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Prof. Rakesh S G

PRINCIPAL

Sir M V I T,

Bengaluru

Names of the Examiner

1. Dr. Prashant H.S.

2. Dr. B. S. Praveen Kumar

Signature with date

19/7/23

19/7/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



A Mini Project Report On

**"MODELLING AND FABRICATION OF FLOOD
RESISTANCE HOUSE"**

Submitted in partial fulfillment of the requirements
For the award of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By

RAJEEV K L

1MV20ME031

SRUJAN K

1MV20ME038

SUKSHITH VIDYASAGAR SHIVALENKAMATH

1MV20ME040

VENKATESH

1MV20ME044

Under the Guidance of
Mr. Janardhana K
Associate professor



**DEPARTMENT OF MECHANICAL ENGINEERING
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU- 562157**

Academic year: 2022-23

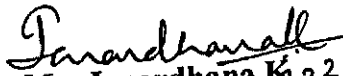
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

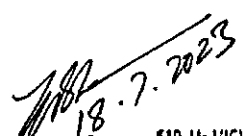
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

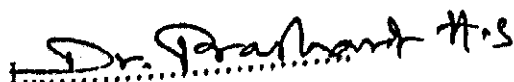
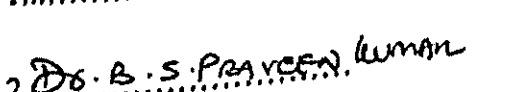
This is to certify that the project work entitled "MODELLING AND FABRICATION OF FLOOD RESISTANCE HOUSE" is bonafide work carried out by RAJEEV K L (1MV20ME031), SRUJAN K (1MV20ME038), SUKSHITH VIDYASAGAR SHIVALENKAMATH (1MV20ME040), VENKATESH (1MV20ME044) partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect to of Project Work prescribed for the Bachelor of Engineering degree.


Mr. Janardhana K.
Associate Professor
Dept of Mechanical Engineering
Sir MVIT, Bengaluru




18.7.2023
Dr. K S Shanmukharaditya
Professor and Head
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Sir MVIT, Bengaluru


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1. 
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2. 
Dr. B. S. Praveen Kumar

Signature with Date


19/8/23

19/7/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



A Mini Project Report On

**"FABRICATION OF AUTOMATIC SOLAR TRACKING
SYSTEM"**

Submitted in partial fulfillment of the requirements

For the award of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted By

BHASKAR M L

1MV20ME009

DIVYA K

1MV20ME016

RAKESH N

1MV20ME032

RISHIKESH

1MV20ME033

Under the Guidance of
Mr. NATRAJA M
Assistant professor



DEPARTMENT OF MECHANICAL ENGINEERING
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU- 562157
Academic year: 2022-23

**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157**

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the Mini project work entitled "FABRICATION OF AUTOMATIC SOLAR TRACKING SYSTEM" is bonafide work carried out by by BHASKAR ML (1MV20ME009), DIVYA K (1MV20ME016), RAKESH N (1MV20ME032), RISHIKESH (1MV20ME033) partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been in corporate in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect to of Project Work prescribed for the Bachelor of Engineering degree.

Mr. NATRAJA M

Assistant Professor

Dept of Mechanical Engineering
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Dr.K S Shanmukharadhya

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Prof.Rakesh S G

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Names of the Examiner

Signature with Date

1. Dr. Parashant H.S

2. Dr. A. S. Praveen Kumar

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



A mini project report on

**INFLUENCE ON TOOL GEOMETRY ON FRICTION STIR WELDED
JOINTS.**

Submitted in partial fulfillment of the requirements for the award of

Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

DARSHAN N	1MV21ME408
MOHAMMED SAMI UDDIN	1MV21ME425
SHIV KUMAR	1MV21ME438
SURESH A	1MV21ME441

Under the Guidance of
Dr Prashant S H
Assistant professor



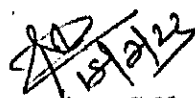
**DEPARTMENT OF MECHANICAL ENGINEERING
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022 - 23**

SIR M.VISVESVARAYAINSTITUTE OF TECHNOLOGY
BENGALURU-562157 DEPARTMENT OF
MECHANICAL ENGINEERING



CERTIFICATE

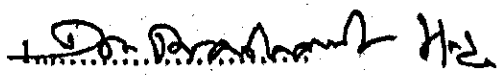
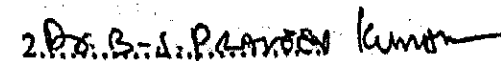
Certified that the project work entitled "Influence on tool geometry on friction stir welded joints" bonofide work carried out by **DARSHAN N 1MV21ME408, MOHAMMED SAMI UDDIN 1MV21ME425, SHIV KUMAR 1MV21ME438, SURESH A 1MV21ME441** in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year **2022-2023**. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


Dr prashant S H
Assistant professor
Mech Engg
Sir M V I T, Bengaluru

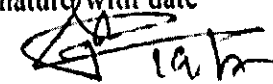
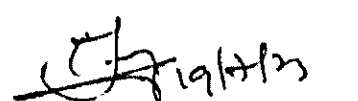
Dr. K S Shanmukharadhya
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Prof. Rakesh S G
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Bengaluru

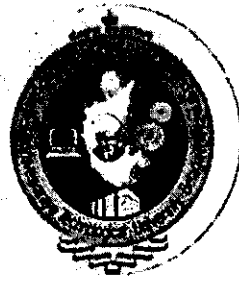
Names of the Examiner

1. 
2. 

Signature with date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
"Jnana Sangama", Belagavi - 590018, Karnataka, India



A mini project report on
**DEVELOPMENT OF REGENERATIVE BRAKING SYSTEM
USING FLYWHEEL**

Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

Submitted By

ANUP NIRMAL ABRAHAM	1MV20ME007
BHARATHA H S	1MV20ME008
MAYUR PRAKASH	1MV20ME025
SHOAIB AFFAN M	1MV20ME036

Under the Guidance of

Mr. K. EJAZ AHMED

Associate Professor

DEPARTMENT OF MECHANICAL ENGINEERING



Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022 - 23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

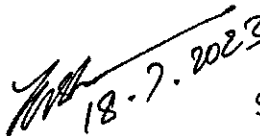
Certified that the project work entitled "DEVELOPMENT OF REGENERATIVE BRAKING SYSTEM USING FLYWHEEL" bonafide work carried out by ANUP NIRMAL ABRAHAM 1MV20ME007, BHARATHA H S 1MV20ME008, MAYUR PRAKASH 1MV20ME025, SHOAB AFFAN M 1MV20ME036 in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


Mr. K. Ejaz Ahmed

Associate Professor

Mechanical Engg.

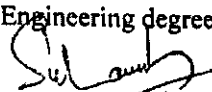
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18.7.2023
Dr. K S Shanmukharadhya

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International Airport Road, Bengaluru - 562 157

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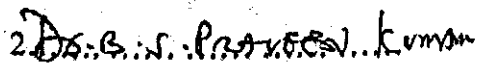
Sir MVIT,

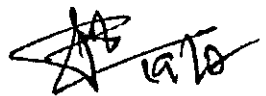
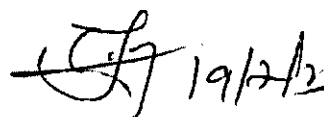
Bengaluru

Name of the Examiner

Signature with Date


Dr. Praveen H.S.


Dr. B. S. Praveen Kumar


18/7/23

19/7/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590 018**



**Mini Project Progress Report On
"SYNTHESIS AND CHARACTERIZATION OF NANO PARTICLES"
Submitted in partial fulfillment of the requirements for the award Of
BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By

HARIHARAN	1MV21ME414
SUMEET HUGAR	1MV21ME440
TEJESH D	1MV21ME444
U SANDESH	1MV21ME445

**Under the Guidance of
Mr. L. SAMPATH KUMAR
Assistant Professor
Department of Mechanical Engineering
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**DEPARTMENT OF MECHANICAL ENGINEERING SIR M
VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

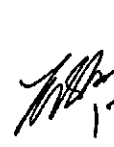
**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**

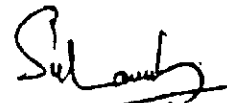


CERTIFICATE

Certified that the Mini Project Work [18MEMP68] entitled "SYNTHESIS AND CHARACTERIZATION OF NANO PARTICLES" is a Bonafide work carried out by Hariharan S (1MV21ME414), Sumeet Hugar (1MV21ME440), Tejesh D (1MV21ME444) and U Sandesh (1MV21ME445) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of Mini Project Work prescribed for the Bachelor of Engineering Degree.

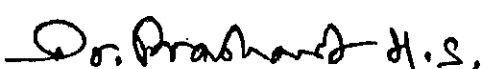

17/07/23
Mr. Sampath Kumar L
Assistant Professor
Dept. Of Mech Engg.
Sir MVIT, Bengaluru


17.7.2023
Dr. K. S. Shanmukharudraiah
Professor And HOD
Dept. Of Mech Engg.
Sir MVIT, Bengaluru



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Principal
Sir MVIT, Bengaluru

Name of the Examiners

Signature with Date

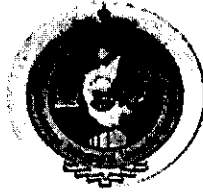
1. 
Dr. Prashant H.S.


17/7/23

2. 
Dr. S. Prashant Kumar


19/7/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



A mini project report on

Analysis and Fabrication study of Multi Crop Machine

Submitted in partial fulfillment of the requirements for the award of

Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

AJAYKANTH G V

1MV21ME400

HANISH N

1MV21ME412

HAREESHA V A

1MV21ME413

HEMANTH S

1MV21ME415

Under the Guidance of

Mrs. Asha Rani A

Assistant professor



DEPARTMENT OF MECHANICAL ENGINEERING

Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU

Academic year: 2022 - 23

**SIR M.VISVESVARAYAINSTITUTE OF TECHNOLOGY
BENGALURU-562157 DEPARTMENT OF
MECHANICAL ENGINEERING**



CERTIFICATE

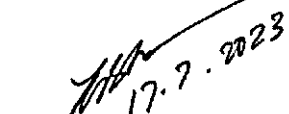
Certified that the mini project work entitled "Analysis and Fabrication study of Multi Crop Machine" bonafide work carried out by AJAY KANTH G V 1MV21ME400, HANISH N 1MV21ME412, HAREESHA V A 1MV21ME413, HEMANTH S 1MV21ME415 in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


Mrs. Asha Rani A

Assistant professor

Mech Engg.

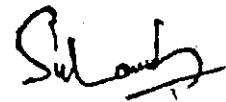
Sir M V I T, Bengaluru


17.7.2023
Dr. K S Shanmukharadhya

Professor and Head

Dept of Mech Engg.

Sir M V I T, Bengaluru


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunsur, Chamaraiahalli
Internal Road, Bengaluru-562 157

PRINCIPAL

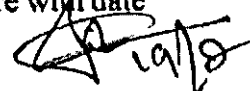
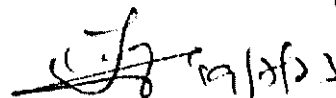
Sir M V I T,

Bengaluru

Names of the Examiner

1. Dr. Prabhakar H S
2. Dr. B. S. Narayan Kumar

Signature with date


19/7/23

19/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI – 590018



Mini Project Report on

“MODELLING AND FABRICATION OF 360° FLEXIBLE DRILLING MACHINE”

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING

In

MECHANICAL ENGINEERING

Submitted by

DINESH B

1MV20ME014

DINESH M

1MV20ME015

KISHOR KUMAR R

1MV20ME020

LAKSHMISHA R

1MV20ME022

Under the Guidance of

MR. KUMAR SWAMY R

Assistant Professor

Department Of Mechanical Engineering



DEPARTMENT OF MECHANICAL ENGINEERING

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU-562157

Academic year: 2022 - 23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY


BENGALURU-562157

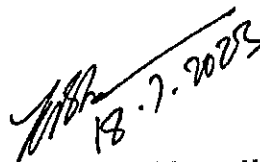
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE



Certified that the Project Work [18MEMP68] entitled "MODELLING AND FABRICATION OF 360° FLEXIBLE DRILLING MACHINE" is a bonafide work carried out by Dinesh B(1MV20ME014), Dinesh M(1MV20ME015), Kishor Kumar R(1MV20ME020) and Lakshmisha R (1MV20ME022) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering Degree.


Mr. Kumar swamy R
Assistant Professor
Sir MVIT, Bangalore


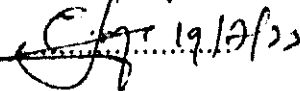

Dr. K S Shanmukharadhya
Professor and Head of
Mech. Dept., Sir MVIT, Bangalore


Dr. Rakesh S G
PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Lunasamaraiah's
International Airport Road, Bangalore-562157

Names of the Examiners

1. 
2. 

Signature with Date



19/12/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



A mini project report on

DESIGN AND FABRICATION OF AUTOMATIC SIDE STAND

Submitted in partial fulfilment of the requirements for the award of

Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By:

KOUSTUBHA VISHNU S

1MV21ME417

MAHESH R

1MV21ME421

UMESH S

1MV21ME446

YOGESH H K

1MV21ME450

Under the Guidance of

Dr. G Balakumar

Associate professor



DEPARTMENT OF MECHANICAL ENGINEERING

Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU

Academic year: 2022 – 23

SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "DESIGN AND FABRICATION OF AUTOMATIC SIDE STAND" bonafide work carried out by KOUSTUBHA VISHNU S 1MV21ME417, MAHESH R 1MV21ME421, UMESH S 1MV21ME446 and YOGESH H K 1MV21ME417 in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

Dr. G Balakumar

Associate professor

Mech Engg

Sir M V I T, Bengaluru

Dr. K S Shanmukharadhya

Professor and Head

Dept of Mech Engg

Sir M V I T, Bengaluru

Prof. Rakesh S G

PRINCIPAL

Sir M V I T,

Bengaluru

Names of the Examiner

1. Dr. G. Balakumar

2. ABHILASH S. G

Signature with date

ML 19/02/23

AB. 19/02/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



A mini-project report on

“FABRICATION OF HYDRAULIC ARM”

Submitted in partial fulfilment of the requirements for the award of
Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

**MAHANTHESHA M H
NITHIN A
TEJAS S
VIJAYA KUMAR K R**

**1MV21ME420
1MV21ME428
1MV21ME443
1MV21ME447**

Under the guidance of
Dr.K S Shanmukharadhya
Professor



**DEPARTMENT OF MECHANICAL ENGINEERING
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
BENGALURU - 562 157**

Academic year: 2022-2023

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562157
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "FABRICATION OF HYDRAULIC ARM" bonafide work carried out by MAHANTHESH H M (1MV21ME420), NITHIN A(1MV21ME428), TEJAS S (1MV21ME443), VIJAYA KUMAR K R (1MV21ME447) in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

18.7.2023
Dr. K S Shanmukharadhya
Professor and HOD
Dept. of Mech Eng
Sir MVIT, Bengaluru

18.7.2023
Dr. K S Shanmukharadhya
Professor and HOD
Dept. of Mech Eng
Sir M V I T, Bengaluru

Sulambh
PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunasamaranahalli
Internal Use
Rakesh S G Bangalore-562 157
Principal
Sir M V I T,
Bengaluru

Names of the Examiner Signature with date

1. *Dr. G. Balakumar* *19/7/23*
2. *Abhilash S. G* *19/07/23*

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA BELGAVI -590018



MINI PROJECT REPORT
"DESIGN & FABRICATION OF SHAFT
DRIVEN BICYCLE"

*Submitted in partial fulfilment of the requirements for the award of
degree of*

BACHELOR OF ENGINEERING IN
MECHANICAL ENGINEERING

Submitted by

DEV PRAKASH PANDEY
KARAN RATHORE
PRANOY JASON D'SOUZA
SHANTAVEER

1MV20ME011
1MV20ME019
1MV20ME028
1MV20ME035

Under the Guidance of
Dr. K S Shanmukharadhya
Professor & HOD, Mechanical Engineering



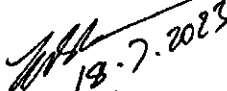
DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Academic Year: 2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
DEPARTMENT OF MECHANICAL ENGINEERING




CERTIFICATE

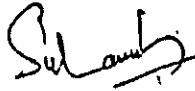
This is to certify that the project work entitled "DESIGN & FABRICATION OF SHAFT DRIVEN BICYCLE" is a bonafide work carried out by Dev Prakash Pandey 1MV20ME011, Karan Rathore 1MV20ME019, Pranoy Jason D'Souza 1MV20ME028 and Shantaveer 1MV20ME035 in partial fulfilment for the award of Degree of Bachelor of Engineering in Mechanical Engineering under Visvesvaraya Technological University, Belgaum during the year 2020-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The mini project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelors of Engineering Degree.


Signature with date 19.7.2023



Dr. K S Shanmukharadhya
Guide
Professor & HOD
Dept. of Mechanical Engineering
Sir MVIT, Bangalore


Signature with date 19.7.2023

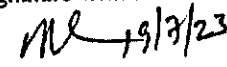
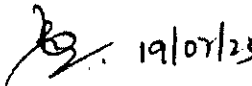
Dr. K S Shanmukharadhya
Professor & HOD
Dept. of Mechanical Engineering
Sir MVIT, Bangalore


PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunsarmane Halli
International Airport Road, Bangalore-562 157
Prof Rakesh S G
Principal
Sir MVIT, Bangalore

Name Of Examiner

1. 
2. 

Signature with Date

 19/7/23
 19/07/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



A Mini Project Report On

“LPG LEAKAGE ALERT USING GSM”

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering

IN
MECHANICAL ENGINEERING

Submitted By

M NITHISH KUMAR	1MV21ME418
MADHU J S	1MV21ME419
NAVEED PASHA	1MV21ME427
RAVITEJA B	1MV21ME433

Under the Guidance of

Dr Hanamantraygouda M B
Assistant professor




DEPARTMENT OF MECHANICAL ENGINEERING
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022 - 23

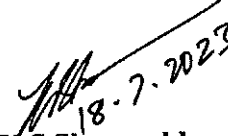
SIR M. VISVESVARAYAINSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING

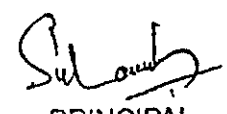


CERTIFICATE

Certified that the project work entitled "LPG LEAKAGE ALERT USING GSM" bonafide work carried out by M NITHISH KUMAR 1MV21ME418, MADHU J S 1MV21ME419, NAVEED PASHA 1MV21ME427, RAVITEJA B 1MV21ME433 in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


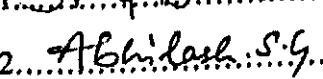

Dr. Hanamantraygouda M B
Assistant professor
Mech Engg
Sir M V I T, Bengaluru


Dr. K S Shanmukharadhy
Professor and Head
Dept of Mech Engg
Sir M V I T, Bengaluru


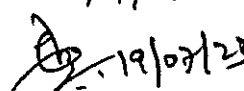

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
K. S. M. N. S. Road, Hosur, Bengaluru-562 157
PRINCIPAL

Sir M V I T,
Bengaluru

Names of the Examiner

1.  Dr. G. Balakrishnan
2.  Abhilash S. G.

Signature with date

 19/7/23
 19/07/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-590018**



**Mini Project Report on
“DESIGN AND FABRICATION OF SOLAR BASED SAFETY
MONITORING SYSTEM”**

Submitted in partial fulfilment of the requirements for the award of

Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

HARISH VERMA 1MV20ME017

JEEVAN KUMAR C R 1MV20ME018

M S PRAVEEN SAI 1MV20ME023

MALLIKARJUNA SAJJAN 1MV20ME024

Under the Guidance Of

Guide: Dr. V. Shantha



Estd.1986

**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU**

Academic year: 2022-23

**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157 DEPARTMENT OF MECHANICAL
ENGINEERING**



CERTIFICATE

Certified that the Mini project entitled "DESIGN AND FABRICATION OF SOLAR BASED SAFETY MONITORING SYSTEM" is a bonafide work carried out by, **HARISH VERMA (1MV20ME017), JEEVAN KUMAR C R (1MV20ME018), M S PRAVEEN SAI (1MV20ME023), MALLIKARJUNA SAJJAN (1MV20ME024)** are students of VI Semester in fulfilment for the Course of degree of Bachelor of Engineering in Mechanical Engineering at Sir M Visvesvaraya Institute of Technology, Bengaluru during the year 2022-2023 has successfully submitted the report. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Mini Project Report has been approved and it satisfies the academic requirements in respect of Mini Project (18MEM68) prescribed for the Bachelor of Engineering degree.

Dr. V. Shantha.

Professor

Dept. of Mechanical Engg

Sir MVIT, Bengaluru

Dr. K. S. Shanmukharadhya

Professor & Head

Dept. of Mechanical Engg

Sir MVIT, Bengaluru

Prof. Rakesh S G

PRINCIPAL

Sir MVIT

Bengaluru

Name of the Examiners

1. Dr G Balakumar

2. Abhilash S G

Signature with Date

19/07/23

19/07/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



**A mini project report on
MOTORISED SCOTCH YOKE MECHANISM PISTON
Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering
IN
MECHANICAL ENGINEERING**

Submitted By

SYED SUHIL SIDDIQH

1MV21ME442

YOGESH G.E

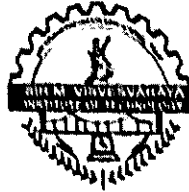
1MV21ME449

**Under the Guidance of
Dr G Balakumar
Associate Professor**




**DEPARTMENT OF MECHANICAL ENGINEERING
Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic Year: 2022-23**

SIR M.VISVESVARAYAINSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

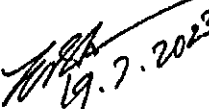
Certified that the project work entitled "MOTORIZED SOCOTII YOKE MECHANISM PISTON" bonafide work carried out by SYED SUHIL SIDDIQUI 1MV21ME442, YOGESH G E 1MV21ME449, in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


Dr. G Balakumar

Associate professor

Mech Engg

Sir M V I T, Bengaluru

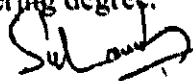

19.7.2023

Dr. K S Shanmukharadhya

Professor and Head

Dept of Mech Engg

Sir M V I T, Bengaluru



PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunsuramannahalli
International Airport Road, Bengaluru-562 157


PRINCIPAL

Sir M V I T,

Bengaluru

Names of the Examiner

1. .....

2. .....

Signature with date

 - 20/7/23

 - 20/7/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



A project report on

HOME AUTOMATION SYSTEM USING GSM TECHNOLOGY
Submitted in partial fulfillment of the requirements for the award of

Bachelor of Engineering

IN

MECHANICAL ENGINEERING

Submitted By

MEENA H.E - 1MV21ME423

PAVAN KUMAR D. A - 1MV21ME430

RISHEEK KAMBLE - 1MV21ME434

SAGAR.P.KALLAPUR - 1MV21ME436

Under the Guidance of
Mr. K MADHUKUMAR
Assistant professor



DEPARTMENT OF MECHANICAL ENGINEERING
Sir M.VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic year: 2022- 23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled **"HOME AUTOMATION SYSTEM USING GSM TECHNOLOGY"** bonafide work carried out by **MEENA H.E (1MV21ME423)** , **PAVANKUMAR D.A (1MV21ME430)** , **RISHEEK KAMBLE (1MV21ME434)** , **SAGAR P KALLAPUR (1MV21ME436)** in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year **2022-2023**. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

Mr. K Madhukumar

Assistant professor

Mech Engg

Sir MVIT, Bengaluru

17.7.2023

Dr. K S Shanmukharadhya

Professor and Head

of Mech Dept

Sir MVIT, Bengaluru

PRINCIPAL

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bengaluru-562 157

Principal

Sir MVIT,

Bengaluru

Names of the Examiner

1.....**Dr. G. Balakumar**.....

2.....**Abhilash S.G**.....

Signature with date

19/07/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



Mini Project report on

**"TESTING OF METAL MATRIX COMPOSITES (Al6061-ZrO₂) OF
DEVELOPED COMPOSITES FOR HARDNESS AND MICROSTRUCTURE
ANALYSIS"**

Submitted in partial fulfilment of the requirements for the award of degree

**Bachelor of Engineering
IN
MECHANICAL ENGINEERING**

Submitted By

ABHISHEK S

1MV20ME002

DHANUSH S

1MV20ME012

NISHANTH KALYAN N

1MV20ME026

SUHAS N M

1MV20ME039

**Under the Guidance of
Mr. SHIVAKUMAR S
Assistant professor, Department of Mechanical Engineering**



**Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
DEPARTMENT OF MECHANICAL ENGINEERING
Academic year: 2022-23**

**SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157**

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the mini project work entitled **TESTING OF METAL MATRIX COMPOSITES (Al6061-ZrO₂) OF DEVELOPED COMPOSITES FOR HARDNESS AND MICROSTRUCTURE ANALYSIS** is a bonafide work carried out by **ABHISHEK S (1MV20ME002), DHANUSH S (1MV20ME012), NISHANTH KALYAN N (1MV20ME026), SUHAS N M (1MV20ME039)** in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year **2022-2023**. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


Shivakumar S

Assistant professor
Dept of Mech Engg
Sir MVIT, Bengaluru

Dr K S Shanmukharadhy
Professor and Head
Dept of Mech Engg
Sir MVIT, Bengaluru

Prof. Rakesh S G
Principal
Sir MVIT,
Bengaluru


Names of the Examiners

1. **Dr. G. Balakrishna**

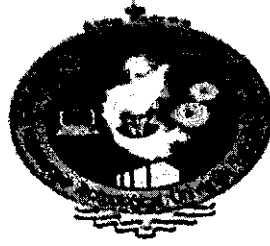
2. **Abhishek S. G**

Signature with Date

 18/12/23

 19/02/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



**Mini Project Progress Report On
"SOLENOID ENGINE"**

**Submitted in partial fulfillment of the requirements for the award Of
BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

Submitted By

ARAVIND C B	1MV21ME403
DANESH U	1MV21ME407
PAVAN K A	1MV21ME429
SACHIN PATIL	1MV21ME435

**Under the Guidance of
Dr. H.S YESHWANTHA**

Assistant Professor

Department of Mechanical Engineering Sir MVIT Bengaluru-562157.




**DEPARTMENT OF MECHANICAL ENGINEERING SIR M
VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

Certified that the Mini Project Work [18MEM68] entitled "SOLENOID ENGINE" is a Bonafide work carried out by Aravind C B (1MV21ME403), Danesh U (1MV21ME407), Pavan K A (1MV21ME429) and Sachin Patil (1MV21ME435) in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of Mini Project Work prescribed for the Bachelor of Engineering Degree.


Dr. H.S. Yeshwantha
Assistant Professsor
Dept. Of Mech Engg.
Sir MVIT, Bengaluru

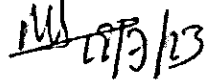
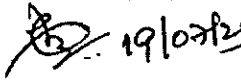
Dr. K. S. Shanmukharadhya
Professor And HOD
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Sir MVIT, Bengaluru

Prof. Rakesh S. G
Principal
Sir MVIT, Bengaluru

Name of the Examiners

1. Dr G Belakumar
2. Abhishek S.G

Signature with Date


19/07/23

19/07/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi - 590018



**MINI-PROJECT REPORT
ON**

**"ALCOHOL DETECTION SYSTEM FOR THE SAFETY OF
AUTOMOBILE USERS"**

Submitted in partial fulfillment of the requirements for the award of the Degree

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted by

ABHILASH G S

USN: 1MV20ME001

BHUVANESHWARA P

USN: 1MV20ME010

KUBER

USN: 1MV20ME021

SACHIN AGRAWAL

USN: 1MV20ME034

Under the Guidance of

Mr. HALES S B

Associate Professor

Department of Mechanical Engineering.



DEPARTMENT OF MECHANICAL ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevaraya nagar, Hunasamaranahalli, Bangalore -562157

2022 - 2023


SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BANGALORE-562157
Department of Mechanical Engineering

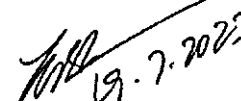


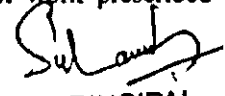
CERTIFICATE

This is to certify that the project entitled "ALCOHOL DETECTION SYSTEM FOR THE SAFETY OF AUTOMOBILE USERS" is a bonafide Work carried out by ABHILASH G S (1MV20ME001), BHUVANESHWARA P(1MV20ME010), KUBER(1MV20ME021),

SACHIN AGRAWAL(1MV20ME034).of Sir M. Visvesvaraya Institute of Technology, Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report submitted to department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for Bachelor of Engineering degree.


Mr. HALESH S B
Associate Professor,
Dept. of Mech Engg.,
Sir MVIT Bengaluru


Dr. K S SHANMUKHARADHYA
Professor and HOD,
Dept. of Mech Engg.
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SIR MVIT
Bengaluru

Name of the Examiners

1. _____
2. _____

Signature with Date

1. _____
2. _____

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI - 590018**



A mini project report on

**"DESIGN AND FABRICATION OF
OBSTACLE AVOIDING ROBOT"**

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering
in
MECHANICAL ENGINEERING

Submitted By

ADARSH D R	1MV20ME003
ADITHYA S PATIL	1MV20ME004
SHEYAS BELLIAPPA KK	1MV20ME037
SURAJ CHAVAN	1MV20ME041

Under the Guidance of

Dr KIRAN KUMAR M

Assistant Professor



DEPARTMENT OF MECHANICAL ENGINEERING
S. M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU
Academic Year: 2022 - 23

SIR M.VISVESVARAYAINSTITUTE OF TECHNOLOGY

BENGALURU-562157

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "OBSTACLE AVOIDING ROBOT" bonafide work carried out by ADARSH DR 1MV20ME003, ADITYA S PATIL 1MV20ME004, SHREYAS BELLIAPPA 1MV20ME037, SURAJ CHAVAN 1ME20ME041 in partial fulfillment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

fks

Dr KIRAN KUMAR M

Assistant Professor

Mechanical engineering

Sir M V I T, Bengaluru

19.7.2023

Dr. K S SHANMUKHARADHYA

Professor and HOD

Dept of Mechanical Engg

Sir M V I T, Bengaluru

Prof. RAKESH SG

Principal

Sir M V I T,

Bengaluru

Names of the Examiner

1.....

2. *Shweta*.....

Signature with date

20/7/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI - 590 018**



**Mini Project Report On
"MODELLING AND DEVELOPMENT OF TOOLS FOR SOLID STATE
WELDING"**

Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

Submitted By

BHARATHA

1MV21ME404

DIVAKARA BABU G S

1MV21ME410

GURU KIRAN K

1MV21ME411

KIRAN

1MV21ME416

Under the Guidance of
Mr. CHANDRASEKHAR B
Assistant Professor



**DEPARTMENT OF MECHANICAL ENGINEERING
SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU- 562 157
Academic Year: 2022-2023**

**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING**



CERTIFICATE

Certified that the Mini Project Work [18MEMP68] entitled "MODELLING AND DEVELOPMENT OF TOOLS FOR SOLID STATE WELDING" is a Bonafide work carried out by BHARATHA(1MV21ME404), DIVAKARA BABU G S(1MV21ME410), GURUKIRAN(1MV21ME411), KIRAN(1MV21ME416) in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022 - 2023. It is certified that all corrections suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of Mini Project Work prescribed for the Bachelor of Engineering Degree.

Mr. Chandrasekhar B
Assistant Professor

Dr. K. S. Shanmukharadhya
Professor and HOD

Prof. Rakesh S. G
Principal

Name of the Examiners

Signature with Date

1.

2. *Shankar*

AS 20/12/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI – 590 018**



Mini Project Report On

“FABRICATION OF BENCH TAPPING MACHINE”

Submitted in partial fulfilment of the requirements for the award of

Bachelor of Engineering

In

MECHANICAL ENGINEERING

Submitted By

ANIRUDH B	1MV20ME006
DHARSHAN YADAV K	1MV20ME013
VARUNA B	1MV20ME043
VISHWAS RAO K	1MV20ME045

Under the Guidance of

Mr. RAMESH C G

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DEPARTMENT OF MECHANICAL ENGINEERING

Sir MVIT Bengaluru – 562 157



Estd. 1986

**SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,
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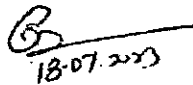
Academic Year 2022-23

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU - 562 157
DEPARTMENT OF MECHANICAL ENGINEERING

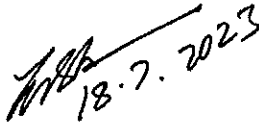


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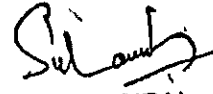
Certified that the project work entitled "FABRICATION OF BENCH TAPPING MACHINE" is a bonafide work carried out by ANIRUDH B 1MV20ME006, DHARSHAN YADAV K 1MV20ME013, VARUNA B 1MV20ME043, VISHWAS RAO K 1MV20ME045 in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.


18.07.2023

Mr. Ramesh C G
Assistant Professor
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Sir MVIT, Bengaluru


18.7.2023

Dr. K S Shanmukharadhya
Professor and Head
Department of Mech Engg.
Sir MVIT, Bengaluru

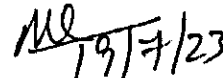


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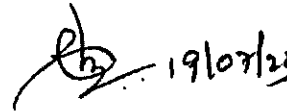
Name of the Examiners

Signature with Date

1. Dr. G. Balakrishna


19/7/23

2. Abhilash S. G


19/07/23

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, 590018**



**A Mini Project Report on
FLOUR FILTER SIEVE MACHINE**

Submitted in partial fulfillment of the requirements for the award of

**Bachelor of Engineering
IN
MECHANICAL ENGINEERING**

Submitted By

AKSHAY KUMAR

1MV21ME401

APSAR G M

1MV21ME402

RAKSHITA B

1MV21ME432

SAI TARAKARAM V

1MV21ME437

Under the Guidance of

Mr. Prashanth L

Assistant Professor



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BENGALURU**

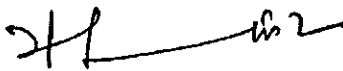
Academic Year: 2022-23

SIR M.VISVESVARAYAINSTITUTE OF TECHNOLOGY
BENGALURU-562157
DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

Certified that the project work entitled "FLOUR FILTER SIEVE MACHINE" bonafide work carried out by AKSHAY KUMAR 1MV21ME401, APSAR G M 1MV21ME402, RAKSHITHA B 1MV21ME432, and SAI TARAKARAM V1MV21ME437, in partial fulfilment for the award of degree of Bachelor of Engineering in Mechanical Engineering /Industrial Engineering and Management of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. It is certified that all correction suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the Bachelor of Engineering degree.

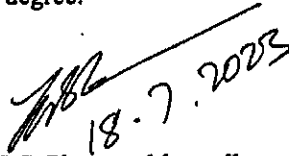


Mr. Prashanth L

Assistant professor

Mech Engg

Sir M V I T, Bengaluru


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Dr. K S Shanmukharadhya

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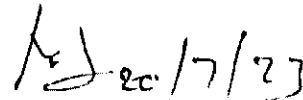
Bengaluru

Names of the Examiner

Signature with date

1.....

2...


18/7/23