

**S.E.A. COLLEGE OF ENGINEERING AND  
TECNOLOGY**  
BENGALURU – 560049  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
ENGINEERING**



**CERTIFICATE**

Certified that the project work entitled “HYBRID CORNET USING SOLAR MPPT AND FOOTSTEP POWER GENERATION” carried out by Mr. HARSHA JEETH M, USN: 1SP22LVS01, bonafide student of S.E.A. College of Engineering and Technology, in partial fulfillment for the award of degree of Master of Technology in VLSI Design and Embedded Systems, Visvesvaraya Technological University, Belgavi during the year 2023-24. 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 said degree.

Mrs. Revathi K  
(Guide)

Dr. Pradeep Kumar. N S  
(Head of Department )

Dr. B Venkata Narayana  
(Principal)

External Examiners

1. K. Revathi
2. Dr. Krishna Kumar

Signature with date

ID: 232461108

# CERTIFICATE

## OF INTERNSHIP

This certificate awarded to

**Harsha Jeeth M**

**From Z-DIME**

In recognition of his /her efforts and achievements in completing  
the 60 days internship program in

**3D Printer Machine Design.**

Conducted from 11th DEC 2023 – 8th FEB, 2024

  
VIVEK KULANDAVAIL  
C.E.O



  
AJAY SAI  
Program Manager



**S.E.A. COLLEGE OF ENGINEERING AND  
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BENGALURU – 560049  
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Dr. B Venkata Narayana  
(Principal)

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**S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**BENGALURU-560049**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**



**CERTIFICATE**

Certified that the Mini Project work entitled “**VEHICLE EMISSION DIAGNOSE WITH HMI INTERFACE**” carried out by **KEVIN GEORGE (ISP21EC012)**, **ROOPA M (ISP22EC409)**, **RUBEN (ISP22EC410)** Bonafide student of S.E.A. College of Engineering and Technology, in partial fulfillment for the award of **Bachelor of Engineering in ECE**, Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions in dictated 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 on prescribed for the said degree.

**Mrs. Janani.R**

Guide  
Dept of ECE, SEACET

**Dr. Pradeep Kumar N S**

Head of the Department  
Dept of ECE, SEACET

**Dr. B Venkata Narayana**

Principal  
SEACET



# S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY

BENGALURU-560049

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



## CERTIFICATE

Certified that the Mini Project work entitled "SMART SOLAR BENCH" carried out by Bonafide students of S.E.A. College of Engineering and Technology, in partial fulfillment for the award of Bachelor of Engineering in ECE, Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions in dictated 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 on prescribed for the said degree.

  
Mrs. Dhivya Karunya S

Guide

Dept of ECE, SEACET

  
Dr. Pradeep Kumar N S

Head of the Department

Dept of ECE, SEACET

  
Dr. B Venkata Narayana

Principal

SEACET

**S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**BENGALURU-560049**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**



**CERTIFICATE**

Certified that the Mini Project work entitled “**VEHICLE EMISSION DIAGNOSE WITH HMI INTERFACE**” carried out by **KEVIN GEORGE (ISP21EC012)**, **ROOPA M (ISP22EC409)**, **RUBEN (ISP22EC410)** Bonafide student of S.E.A. College of Engineering and Technology, in partial fulfillment for the award of **Bachelor of Engineering in ECE**, Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions in dictated 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 on prescribed for the said degree.

**Mrs. Janani.R**

Guide  
Dept of ECE, SEACET

**Dr. Pradeep Kumar N S**

Head of the Department  
Dept of ECE, SEACET

**Dr. B Venkata Narayana**

Principal  
SEACET

# S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY

BENGALURU-560049

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



## CERTIFICATE

Certified that the Mini Project work entitled "SMART SOLAR BENCH" carried out by Bonafide students of S.E.A. College of Engineering and Technology, in partial fulfillment for the award of Bachelor of Engineering in ECE, Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions in dictated 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 on prescribed for the said degree.

  
Mrs. Dhivya Karunya S

Guide

Dept of ECE, SEACET

  
Dr. Pradeep Kumar N S

Head of the Department

Dept of ECE, SEACET

  
Dr. B Venkata Narayana

Principal

SEACET



**S.E.A. COLLEGE OF ENGINEERING AND  
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BENGALURU – 560049  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION  
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Mrs. Revathi K  
(Guide)

Dr. Pradeep Kumar. N S  
(Head of Department )

Dr. B Venkata Narayana  
(Principal)

External Examiners

1. K. Revathi
2. Dr. Krishna Kumar

Signature with date



# S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY

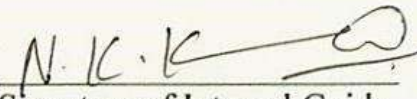
Ekta Nagar, Basavanpura, Virgonagar Post, K.R.Puram, Bengaluru, Karnataka 560049

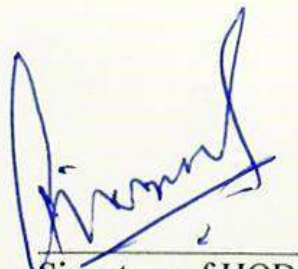


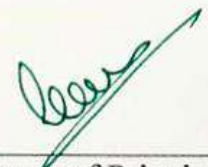
Department Of Information Science and Engineering

## CERTIFICATE

This is to Certify that **Tanusha H (1SP21IS056)** has completed his 5th semester in partial fulfillment for the award of **B.E in Information Science And Engineering** Of the Visvesvaraya Technological University, Belgaum, during the academic year 2023-24 under my supervision. 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 on "Data science" has been approved as it satisfies the academic requirements in respect of Internship Guidelines prescribed for the said Degree.

  
Signature of Internal Guide

  
Signature of HOD

  
Signature of Principal

# INTERNSHIP OFFER LETTER

Exposys  
Data Labs



## Internship Offer Letter

**THIS IS PRESENT TO TANUSHA H**

It's our great pleasure to inform you that you have successfully qualified to undergo the Internship in our Exposys Data Labs for a period of 1 month. We hope that you will perform well, fulfill your duties and finish Project on-time.

**Y Vishnuvardhan**

Chief Director



hr@exposysdata.com  
www.exposysdata.com



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI



Internship report

on

**“ADVANCED DATA ANALYTICS”**

Submitted in partial fulfilment for the award of degree of

BACHELOR OF ENGINEERING IN

INFORMATION SCIENCE AND ENGINEERING

Submitted by:

**ADITHI JAGADEESH**

**(1SP20IS001)**

Conducted at EY GDS Company



Department of Information Science and Engineering

**S.E.A. COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**BENGALURU-560049**

(Approved by AICTE, New Delhi, affiliated to VTU-Belagavi)

# S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY

EktaNagar, Basavanpura, Virgonagar Post, K.R.Puram, Bengaluru, Karnataka 560059

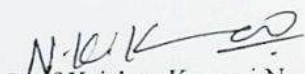


## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

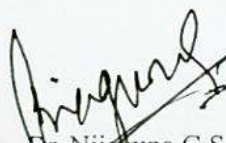
### CERTIFICATE

This is to certify that the Internships entitled “**ADVANCED DATA ANALYTICS**” has been successfully carried out by **Ms. ADITHI JAGADEESH**, bearing USN **ISP20IS001**, a bonfire student of S.E.A College of Engineering and Technology, in partial fulfilment for the award of Bachelor of Engineering, in **INFORMATION SCIENCE & ENGINEERING** under Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report.

The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the course Internship / Professional Practice

  
Prof Krishna Kumari N

Signature of Guide

  
Dr. Nijaguna G.S

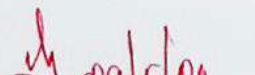
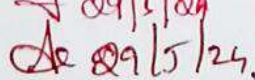
Signature of HOD

  
Dr. B Venkata Narayana

Signature of Principal

EXAMINER

  
N. GAYATHRI  
  
D. Aruna

  
29/5/24  
  
29/5/24

Signature with Date:



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI



Mini Project report on

**“VIDEO TRANSCRIPTION APPLICATIONS ”**

Submitted in partial fulfillment of the requirements for the 6<sup>th</sup> semester mini project

**BACHELOR OF ENGINEERING IN  
INFORMATION SCIENCE AND ENGINEERING**

By

**HARSHITHA M (1SP21IS015)**

**SWETHA S (1SP21IS054)**

**SUJITH KT (1SP21IS052)**

**SHREYAS T (1SP21IS049)**

**SUBJECT CODE:21ISM67**

Under the guidance Of

**Mrs. D ARUNA**

**Asst. Professor, Dept. of ISE**



Department of Information Science And Engineering

**S.E.A.COLLEGE OF ENGINEERING AND TECHNOLOGY**

**BENGALURU-560049**

**2023-2024**

## S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY

Ekta Nagar, Basavanpura , Virgonagar Post, K.R.Puram, Bengaluru, Karnataka 560049



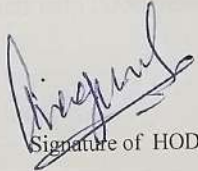
### DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

#### CERTIFICATE

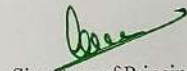
This is to certify the project work entitled "VIDEO TRANSCRIPTION APPLICATIONS" has been successfully carried out by HARSHITHA M (ISP21IS015) , SWETHA S (ISP21IS054) ,SUJITH KT (ISP21IS052) ,SHREYAS (ISP21IS04) of VI semester in partial fulfillment for the award of Bachelor of Engineering in Information Science And Engineering of the Visvesvaraya Technological University, Belagavi during the year 2023-24. The project report has been approved as it satisfied the academic requirement in respect of the mini project work prescribed for Bachelor of Engineering.

  
Signature of Guide

Mrs. D ARUNA

  
Signature of HOD

Dr. NIJAGUNA GS

  
Signature of Principal

Dr. B Venkata Narayana



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELAGAVI, KARNATAKA - 590 014**



A Project Report on

**“DISCOVERING THE E-COMMERCE PRODUCT EXPERIENCE USING  
OPINION MINING AND MACHINE LEARNING TECHNIQUES”**

Submitted in partial fulfillment of the requirement for the 8th semester

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

Submitted by

|                     |            |
|---------------------|------------|
| MOHAMMED AZMATHULLA | 1SP20IS009 |
| BRIJ BHUSHAN KUMAR  | 1SP20IS003 |
| BASAVARAJ RAJUR     | 1SP20IS002 |
| SHABAZ PASHA        | 1SP20IS013 |

Under the Guidance of  
**Dr. NIJAGUNA G.S**  
Head of Department  
Dept. of ISE, SEACET



Department of Information Science and Engineering  
**S.E.A COLLEGE OF ENGINEERING & TECHNOLOGY**  
**BANGALORE - 49**  
**2023 - 2024**



# **SEA COLLEGE OF ENGINEERING & TECHNOLOGY**

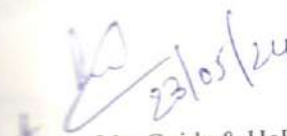
Ekta Nagar, K.R Puram, Bangalore - 49

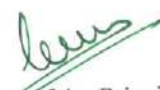


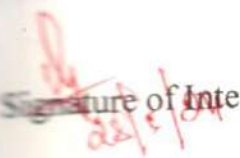
## **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

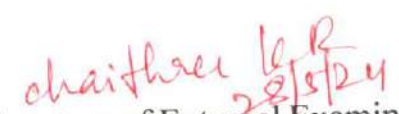
### **CERTIFICATE**

This is to certify the project work entitled "**DISCOVERING THE E-COMMERCE PRODUCT EXPERIENCE USING OPINION MINING AND MACHINE LEARNING TECHNIQUES**" has been successfully carried out by **MOHAMMED AZMATHULLA (ISP2HES009)**, **BRIJ BHUSHAN KUMAR (ISP20IS003)**, **BASAVARAJ RAJUR (ISP2HES002)**, **SHABAZ PASHA (ISP20IS013)** of VIII Sem in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belgaum during the year 2023-2024. The project report has been approved as it is satisfied the academic requirement in respect of the Project work prescribed for the Bachelor of Engineering.

  
Signature of the Guide & HoD  
**Dr. Nijaguna G.S**

  
Signature of the Principal  
**Dr. B Venkata Narayana**

  
Signature of Internal Examiner

  
Signature of External Examiner

Visvesvaraya Technological University, Belagavi



An  
Internship Report Submitted  
To

*Impartial fulfillment of the requirement for the award of the degree*

**Bachelor of Engineering  
In  
Mechanical Engineering**

*At*  
**S BREWING COMPANY**

*Submitted By*

**ARJUNDAS P V  
USN: 1SP20ME001**

*Under the Guidance of*

**Mr.Kuberagouda.S.B**  
Assistant Professor  
Department of Mechanical Engineering  
SEA College of Engineering and Technology



**Department of Mechanical Engineering  
SEACOLLEGE OF ENGINEERING & TECHNOLOGY**

(Affiliated to VTU and approved by AICTE)

**Bengaluru-560049**



# SEACOLLEGE OF ENGINEERING & TECHNOLOGY

(Affiliated to VTU and approved by AICTE)

Bengaluru-560049

Department of Mechanical Engineering



## CERTIFICATE

Certified that, **Mr. ARJUNDAS P V**, bearing university seat number **1SP20ME001** has satisfactorily completed the internship report work entitled **"Manufacturing of steel vessels and production planing "** in partial fulfillment for the award of degree **Bachelor of Engineering in Mechanical Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year **2023-2024** . The **Technical Seminar** has been approved as it satisfies the academic requirements prescribed for the Degree **Bachelor of Engineering**.

Signature of the internal guide  
Mr.KUBERAGOUDA.S.B

Signature of the HOD  
Dr.SURESHA.P

Signature of the Principal  
Dr.BVENKATANARAYANA

Examiners: 1) Kuberagouda. S.B  
2) Ramesh S. Sujari

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI-590018



INTERNSHIP REPORT

on

"CREO DESIGN, CREO PRODUCTION"

*Submitted in partial fulfillment for their requirements of 6<sup>th</sup> semester*

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

Submitted by:

PRASANNA B

USN:1SP22ME407

GUIDENCE OF:

Prof. RAMESH BUJARI



*Department of Mechanical Engineering*

SEA COLLEGE OF ENGINEERING AND  
TECHNOLOGY

AYYAPANAGAR, DEVASANDRA MAIN ROAD, KR  
PURAM, BANGALORE (560049) INDIA

E-mail: [seacetblr@gmail.com](mailto:seacetblr@gmail.com) URL: [seaeduinfo@seaedu.ac.in](mailto:seaeduinfo@seaedu.ac.in)

# SEA COLLEGE OF ENGINEERING AND TECHNOLOGY

AYYAPANAGAR, DEVASANDRA MAIN ROAD, KR  
PURAM, BANGALORE (560049) INDIA

E-mail: [seacetblr@gmail.com](mailto:seacetblr@gmail.com) URL: [seaeduinfo@seaedu.ac.in](mailto:seaeduinfo@seaedu.ac.in)

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is to certify that the Internship titled "CREO DESIGN, CREO PRODUCTION" carried out by PRASANNA B (ISP22ME407) student of SEA College of Engineering and Technology, in partial fulfillment for the award of Bachelor of Engineering in computer science and engineering of Visvesvaraya Technological University, during the year 2023-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report.

The project report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the course Internship / Professional Practice (21INT49)

Signature of the guide

**Prof. KUBER  
BARAMGOWDER**  
Dept. of ME

Signature of the Coordinator

**Prof. RAMESH BUJARI**  
Dept. of ME

Signature of HOD

**Prof. DR SURESH P**  
Dept. of ME



# VISVESVARAYA TECHNOLOGICAL UNIVERSITY



BELAGAVI – 590018, Karnataka

## INTERNSHIP REPORT

ON

### “WEB DEVELOPMENT DOMAIN”

*Submitted in partial fulfilment for the award of degree (21\*\*\*\*)*

BACHELOR OF ENGINEERING IN

MECHANICAL ENGINEERING

*Submitted by:*

NAME: LITTO LALU

THOMAS

USN: 1SP21ME006

Under the guidance of

Prof. RAMESH BUJARI

Conducted at

COMPANY NAME: INTERNPE



## S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY

EktaNagar, Basavanapura, (K.R.Puram), Bangalore, Karnataka 560059 (Affiliated to Visvesvaraya Technological University, Belagavi)

## S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY

Ekta Nagar, Basavanapura, (K.R.Puram), Bangalore, Karnataka 560059

(Affiliated to Visvesvaraya Technological University, Belagavi)



### CERTIFICATE

This is to certify that the Internship titled **“WEB DEVELOPMENT”** carried out by **“Internpe”**, a bonafide student of **S.E.A College of Engineering and Technology**, in partial fulfilment for the award of **BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING** under **Visvesvaraya Technological University, Belagavi**, during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the course Internship / Professional Practice (21INT49).

  
Signature of Guide

  
Signature of HOD

  
Signature of Principal

(Signature with Date)

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY



BELGAUM – 590018, Karnataka

## INTERNSHIP REPORT ON “FULL STACK WEB DEVELOPMENT”

*Submitted in partial fulfilment for the award of degree(21INT68)*

### BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

*Submitted by:*

**NAME: AKSHAI JAYAN**

**USN: 1SP21ME002**

Under the guidance of  
**Prof RAMESH S. BUJARI**



Conducted at  
**VARCONS TECHNOLOGIES Pvt Ltd.**



### S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY

EktaNagar, Basavanapura, (K.R.Puram), Bangalore, Karnataka 560059 (Affiliated to Visvesvaraya Technological University), Belagavi



## **S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY**

Ekta Nagar, Basavanapura, (K.R.Puram), Bangalore, Karnataka 560059

(Affiliated to Visvesvaraya Technological University, Belagavi)



### **CERTIFICATE**

This is to certify that the Internship titled “**STACK WEB DEVELOPMENT**” carried out by “**AKSHAI JAYAN**” (ISP21ME002), a bonafide student of **S.E.A College of Engineering and Technology**, in partial fulfilment for the award of **BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING** under **Visvesvaraya Technological University, Belagavi**, during the year 2023-2024. It is certified that all corrections / suggestions indicated have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the course Internship / Professional Practice (21INT68).

Signature of Guide

Signature of HOD

Signature of Principal

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
"Jnana Sangama", Belagavi, Karnataka-590018



**BIOLOGY FOR ENGINEERS**

A Mini Project Report on

**"STUDY OF GENERATION OF ETHANOL FROM FRUIT SEEDS OF MANGO,  
AVACADO AND JACKFRUIT"**

Submitted in partial for the requirement of 6<sup>th</sup> semester for the

**BACHELOR OF ENGINEERING**

In

**MECHANICAL ENGINEERING**

For The Academic Year 2023-2024

**SUBMITTED BY:**

**CHANDAN S (1SP22ME401)**

**GAGANDEV K N (1SP22ME402)**

**HARSHIT SINGH J (1SP22ME403)**

**YATHISH K (1SP22ME414)**

**Under the Guidance of:**

**MR.RAMESH BUJARI**

**Associate Professor,**

**Dept of Mechanical**

**S.E.A.C.E.T**



**S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY**

**BENGALURU - 560049**

S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY

BENGALURU-560049

DEPARTMENT OF AGRICULTURAL ENGINEERING



CERTIFICATE

Certified that the SCR report entitled **“STUDY OF GENERATION OF ETHANOL FROM FRUIT SEEDS OF MANGO, AVACADO AND JACKFRUIT”** carried out by **CHANDAN S(1SP22ME401), GAGANDEV K N(1SP22ME402), HARSHIT SINGH J(1SP22ME403), YATHISH K(1SP22ME414)** bonafide student of S.E.A College of Engineering and Technology, partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering, Visvesvaraya Technological University, Belagavi** during the year 2023-2024. It is certified that all corrections id dictated for internal assessment have been approved in the report deposited in the department library. report has been approved as it satisfies the academic requirements o the prescribed for the said degree

**Dr.Ramesh Bujari**

Guide

  
**Dr. Suresh P**

Head of the Department

**Dr. B Venkata Narayana**

Principal



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**



**MINI PROJECT REPORT ON**

**“STUDY OF PROPERTIES OF DIESEL, BIO-DIESEL, ETHANOL AND BLENDS”**

Submitted in partial fulfilment of the requirements for the 6<sup>th</sup> semester

**BACHELOR OF ENGINEERING**

**IN**

**MECHANICAL ENGINEERING**

Submitted by

**KHALID AHMED (1SP21ME005)**

**THIRUMALA YADAV GT (1SP22ME413)**

**SRIKANTH (1SP22ME412)**

**ASHOK (1SP22ME400)**

UNDER THE GUIDANCE OF  
**PROF. RAMESH S. BUJARI**



**DEPARTMENT OF MECHANICAL ENGINEERING**

**S.E.A. COLLEGE OF ENGINEERING AND TECHNOLOGY**

**BENGALURU-560049**

BENGALURU-560049

DEPARTMENT OF AGRICULTURAL ENGINEERING

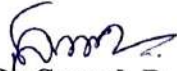


CERTIFICATE

Certified that the SCR report entitled “**STUDY OF PERFORMANCE CHARACTERISTICS OF ETHANOL,BIODIESEL,DIESEL BLENDS IN DI DIESEL ENGINE**” carried out by **SAGAR KATAPUR(1SP22ME410)**,**RATHAN R BARKAR(1SP22ME409)**,**YATHISH K(1SP22ME414)**,**SHIVANAGENDRA P(1SP22ME411)** bonafide student of S.E.A College of Engineering and Technology, partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering, Visvesvaraya Technological University, Belagavi** during the year 2023-2024. It is certified that all corrections id dictated for internal assessment have been approved in the report deposited in the department library. report has been approved as it satisfies the academic requirements o the prescribed for the said degree

  
**Dr. Ramesh BUJARI**

Guide

  
**Dr. Suresh P**

Head of the Department

  
**Dr. B Venkata Narayana**

Principal

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**



**MINI PROJECT REPORT ON**

**“STUDY OF PROPERTIES OF DIESEL, BIO-DIESEL, ETHANOL AND BLENDS”**

Submitted in partial fulfilment of the requirements for the 6<sup>th</sup> semester

**BACHELOR OF ENGINEERING**

**IN**

**MECHANICAL ENGINEERING**

Submitted by

**KHALID AHMED (1SP21ME005)**

**THIRUMALA YADAV GT (1SP22ME413)**

**SRIKANTH (1SP22ME412)**

**ASHOK (1SP22ME400)**

UNDER THE GUIDENCE OF  
PROF. RAMESH S. BUJARI



**DEPARTMENT OF MECHANICAL ENGINEERING**

**S.E.A. COLLEGE OF ENGINEERING AND TECHNOLOGY**

**BENGALURU-560049**



### ACKNOWLEDGEMENT

Firstly, I thank the Management late Shri A KRISHNAPPA, Chairman SEA College of Engineering and Technology for Providing Necessary infrastructure and creating good environment.

I would like to express my profound thanks to our respected principal Dr. B VENKATANARAYANA for the encouragement and support given by him.

I would like to express my sincere thanks to our respected Dr. Suresha P HOD of Mechanical Engineering department, for assistance and guidance.

I am thankful for the support rendered by my Project guide and coordinator Mrs Ramesh S.Bujari for her valuable suggestions.

I am also obliged, to the faculty members of ME Department who rendered their valuable assistance for the Project.

And, I would like to express my heart full gratitude to my parents who have extended their help throughout my Project.

And finally, I would like to express my heart full gratitude to my friends and all those who have extended their help throughout my Project.

*"DESIGN AND DEVELOPMENT OF 3D PRINTER EXTRUDER HEAT SINK WITH  
CONFORMAL COOLING CHANNEL"*



*A Project Work Report Submitted to*

**Visvesvaraya Technological University, Belagavi**

*In partial fulfillment of the requirement for the award of the degree*

**Bachelor of Engineering  
In  
Mechanical Engineering**

*Submitted By*

**SANAJAY K 1SP21ME404  
SHIVARAJ 1SP21ME406  
VASANTHA KUMAR D K 1SP21ME407**

***Under the Guidance of  
Guide***

**Mr. Ramesh S**

**Head of the Department**

**Department of Mechanical Engineering**

**SEA College of Engineering and Technology**



**Department of Mechanical Engineering  
SEACOLLEGE OF ENGINEERING & TECHNOLOGY**

**(Affiliated to VTU and approved by AICTE)**

**Bengaluru-560 049**

# SEACOLLEGE OF ENGINEERING & TECHNOLOGY

(Affiliated to VTU and approved by AICTE)

Bengaluru 560049

Department of Mechanical Engineering



## CERTIFICATE

Certified that, Project work entitled "**DESIGN AND DEVELOPMENT OF 3D PRINTER EXTRUDER HEAT SINK WITH CONFORMAL COLLING CHANNEL**" carried out by Mr. SANJAY K, 1SP21ME404, Mr. SHIVARJ, 1SP21ME406, VASANTHA KUMAR D K, and 1SP21ME407, a bonafied student of S.E.A. College of Engineering and Technology, in partial fulfillment for the award of degree **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2023-2024. The work as satisfactorily completed and has been approved as it satisfies the academic requirements prescribed for the Degree **Bachelor of Engineering**.

Signature of the internal guide  
Mr. RAMESH S

Signature of the HOD  
Dr. SURESHA P

Signature of the Principal  
Dr. B VENKATA NARAYANA

Examiners: 1)

Kubagouda S.B

2)

LOKESH M

Kubagouda S.B  
29/5/24.

Lokesh M  
29/5/24.



# **"DESIGN AND FABRICATION OF DUAL SIDE SHAPER MACHINE"**



*A Project Work Report Submitted to*

**Visvesvaraya Technological University, Belagavi**

*In partial fulfillment of the requirement for the award of the degree*

**Bachelor of Engineering  
In  
Mechanical Engineering**

*Submitted By*

|                     |                   |
|---------------------|-------------------|
| <b>ArjunDas P V</b> | <b>1SP20ME001</b> |
| <b>Dhanush S</b>    | <b>1SP21ME400</b> |
| <b>Manjunath V</b>  | <b>1SP21ME403</b> |

*Under the Guidance of*

**Mr. Kuberagouda.S.B**

Assistant Professor

Department of Mechanical Engineering  
SEA College of Engineering and Technology



**Department of Mechanical Engineering  
SEA COLLEGE OF ENGINEERING & TECHNOLOGY**  
(Affiliated to VTU and approved by AICTE)  
**Bengaluru-560 049**

# SEA COLLEGE OF ENGINEERING & TECHNOLOGY

(Affiliated to VTU and approved by AICTE)

Bengaluru-560 049

Department of Mechanical Engineering



## CERTIFICATE

Certified that Project work entitled "**Design and Fabrication of Dual Side Shaping Machine**" carried out by Mr.ArjunDas.P.V,1SP20ME001, Mr.Dhanush.S, 1SP21ME400, and Mr.Manjunath.V,1SP21ME403,a bonafide student of S.E.A.College of Engineering and Technology, in partial fulfillment for the award of degree **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2023-2024 .The work as satisfactorily completed and has been approved as it satisfies the academic requirements prescribed for the Degree **Bachelor of Engineering**.

Signature of the internal guide  
Mr. KUBERAGOUDA.S.B

Signature of the HOD  
Dr.SURESHA .P

Signature of the Principal  
Dr. B VENKATA NARAYANA

Examiners: 1)

Kubugouda. S-B

2)

29/5/24  
(LOKESH.M)

Kubugouda. S-B  
29/5/2024

# **“DEVELOPMENT OF ARDUINO BASED SMART VACUUM CLEANING ROBOT”**



*A Project Work Report Submitted to*

**Visvesvaraya Technological University, Belagavi**

*In partial fulfillment of the requirement for the award of the degree*

**Bachelor of Engineering  
In  
Mechanical Engineering**

*Submitted By*

|                          |                   |
|--------------------------|-------------------|
| <b>Ullas G</b>           | <b>1SP20ME002</b> |
| <b>Hemanth Kumar S V</b> | <b>1SP21ME401</b> |
| <b>Santosh D</b>         | <b>1SP21ME405</b> |

*Under the Guidance of  
Guide*

**Dr. Suresha P**

Head of the Department

Department of Mechanical Engineering  
SEA College of Engineering and Technology



**Department of Mechanical Engineering  
SEA COLLEGE OF ENGINEERING & TECHNOLOGY**  
(Affiliated to VTU and approved by AICTE)  
**Bengaluru-560 049**



# SEA COLLEGE OF ENGINEERING & TECHNOLOGY

(Affiliated to VTU and approved by AICTE)

Bengaluru-560 049

Department of Mechanical Engineering



## CERTIFICATE

Certified that, Project work entitled "*Development Of Arduino Based Smart Cleaning Robot*" carried out by Mr. Ullas.G, 1SP20ME002, Mr. Hemanth Kumar.S.V, and 1SP21ME401, Mr. Sathosh.D, 1SP21ME405, a bonafied student of S.E.A. College of Engineering and Technology, in partial fulfillment for the award of degree **Bachelor of Engineering in Mechanical Engineering** of the Visvesvaraya Technological University, Belagavi during the year 2022-2023. The work as satisfactorily completed and has been approved as it satisfies the academic requirements prescribed for the Degree **Bachelor of Engineering**.

Signature of the internal guide  
Dr. SURESHA.P

Signature of the HOD  
Dr. SURESHA.P

Signature of the Principal  
Dr. B VENKATA NARAYANA

Examiners: 1)

Kubnagouda.S.B

2)

LOKESH.M

Kubn 29/5/24

Suresh 29/5/24

**S.E.A. COLLEGE OF ENGINEERING & TECHNOLOGY,  
BANGALORE - 49**

**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the project work entitled “Controlling Robot with Eye Gaze Using Webcam” carried out by **RAGHU RAJ (ISP20CS051), SHAHBAZ IMRAN (ISP20CS062), SUMAN KUMAR JHA (ISP20CS066), SURAJ BHAGAT (ISP20CS067)**, we bonafied student of S.E.A. College of Engineering & Technology, in partial fulfillment for the 8th semester of Bachelor of Engineering in Computer Science and Engineering department of the Visvesvaraya Technological University, Belgaum during the year 2023-2024. 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 said Degree.

**Prof. Mrs. Soujanya CN**

Signature of the Guide

**Dr. Krishna Kumar P R**

Signature of the HOD

**Dr. B Venkata Narayana**

Signature of the Principal

**External Examiner**

**Signature with date:**

1. *Prof. Soujanya CN*
2. *Chaitanya K R*

*Dr. B Venkata Narayana*  
*29/5/24*



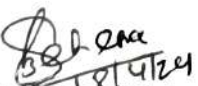
**S.E.A. COLLEGE OF ENGINEERING & TECHNOLOGY,  
BANGALORE - 49**

**Department of Computer Science and Engineering**



**CERTIFICATE**

Certified that the project work entitled **"IOT ENABLED SMART WASTE BIN MONITORING SYSTEM USING YOLO7 AND RASBERRY PI"** carried out by **Ashwini G(1SP20CS007), Sahana K(1SP20CS057), T R Bhoomika(1SP20CS068), V Madhumithaa(1SP20CS071)**, we bonafied student of S.E.A. College of Engineering & Technology, in partial fulfilment for the 8<sup>th</sup> semester of Bachelor of Engineering in Computer Science and Engineering department of the Visvesvaraya Technological University, Belgaum during the year 2023-2024. 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 said Degree.

  
Prof. Mrs. Saswati Behera  
Signature of the Guide

  
Dr. Krishna Kumar P R  
Signature of the HOD

  
Dr. B Venkata Narayana  
Signature of the Principal

  
Signature of Internal examiner

  
Signature of external Examiner



S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY  
Ekta Nagar Basavanpura Virgonagar Post K.R Puram, Bengaluru 560049, Karnataka

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is to Certify that Vicky Kumar Gupta (ISP21CS117) has completed his 4<sup>th</sup> semester in partial fulfillment for the award of B.E in Computer Science and Engineering of the Visvesvaraya Technological University, Belgaum, during the academic year 2022-23 under my supervision. It is certified that all corrections/suggestions indicated for internal assessment have been in the Report deposited in the Department. The Report has been approved as it satisfies the academic requirements.

Signature of Coordinator  
Jayakumar B L

Signature of Guide  
Jayakumar B L

Signature of HOD  
Sukesh H A

Signature of Principal  
B Venkata Narayana

PROFESSOR & HEAD  
Dept. of Computer Science & Engg.  
S.E.A. College of Engg. & Technology  
Ayyappa Nagar Circle, Devanandra Main Road,  
Basavanapura, K. R. Puram, Virgonagar Post  
BENGALURU - 560 049.

# CERTIFICATE OF INTERNSHIP

CODERS  
CAVE

## CERTIFICATE OF COMPLETION

This certificate is presented to

**Vicky Kumar Gupta**

for successful completion of 1 Month Virtual Internship in **Java Development**  
with an outstanding performance at CodersCave.



**MANOJ KUMAR**  
FOUNDER & CEO



# **S.E.A. COLLEGE OF ENGINEERING & TECHNOLOGY**

**Ekta Nagar, K.R. Puram, Bengaluru-560049**



## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

### **Certificate**

This is to certify that the Internship entitled “**NETFLIX WEBSITE CLONE USING ANGULAR**” has been successfully carried out by **Mr. SHAHADATH ALI S**, bearing **USN 1SP20CS061**, a bonafide student of **S.E.A COLLEGE OF ENGINEERING AND TECHNOLOGY**, in partial fulfilment for the award of Bachelor of Engineering, in **COMPUTER SCIENCE & ENGINEERING** under Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the course Internship / Professional Practice.

Signature of Coordinator  
**Prof. B. L Jayakumar**

Signature of HOD  
**Dr. Krishna Kumar P R**

Signature of Principal  
**Dr. B Venkata Narayana**

Signature of Internal Examiner

Signature of External Examiner





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Internship ID: TUNT/2023/1181  
Awarded Date: 23/09/2023  
Duration: 30 Days

# Internship Certificate

*This certificate is proudly presented to*

**Shahadath Ali S**

Web Technologies

*for successful completion of Internship in*

*under the guidance of* **TECHNOLOGICS GLOBAL PVT. LTD.**

*Conducted between* 22/08/2023 *to* 22/09/2023 .

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*for the student of*

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