## DESIGN AND ANALYSIS OF ALL TERRAIN VEHICLE (ATV) CHASSIS

A Project Work submitted to



#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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

# BACHELOR OF ENGINEERING in MECHANICAL ENGINEERING

#### Submitted by

MOKSHA VARDHAN M J	1KG19ME014
SHRAVAN N P	1KG19ME018
JAGADISH N	1KG20ME402
SHREE THILAK K V	1KG20ME408

Under the Guidance of

Dr. BALAJI B

Professor and HOD

Dept. of Mechanical Engineering K S School of Engineering and Management 560109





#### CERTIFICATE

This is to certify that the project work entitled "DESIGN AND ANALYSIS OF

ALL TERRAIN VEHICLE (ATV) CHASSIS" is a Bonafede work carried out by

MOKSHA VARDHAN M J SHRAVAN N P JAGADISH N SHREE THILAK K V

1KG19ME014 1KG19ME018 1KG20ME402

1KG20ME408

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work 18MEP85 prescribed for the degree.

Guide

Head of the Department

Principal

Professor and HOD ad

K.S. Group Of Institutions

Dr. K. Rama Narasimha

KSSEM

Department CP WE MEical Engineering epartment

K.S. Group Of Institutions

hanical Engineering Dr. K. RAMA NARASIMHA Principal/Director

K.S. School Of Engineering & Managel R.S. School Of Engineering & Management and Management

Bangalore-560 109

Bengaluru - 560 109

Name and Signature of Examiner-1

## FABRICATION OF MULTI-SOURCE MULTI-FUNCTIONAL FARMING EQUIPMENT

A Project Work submitted to



## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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

# BACHELOR OF ENGINEERING in MECHANICAL ENGINEERING

#### Submitted by

A. BHANU VENKAT

1KG19ME001

HARISH.K

1KG19ME008

SUNITH.G

1KG19ME019

KARTHIK.C

1KG20ME403

Under the Guidance of

Dr. PN Jyothi

Professor

Dept. of Mechanical Engineering K S School of Engineering and Management 560109





#### CERTIFICATE

This is to certify that the project work entitled "FABRICATION OF MULTI-SOURCE MULTI-FUNCTIONAL FARMING EQUIPMENT" is a Bonafede work carried out by

A. BHANU VENKAT

1KG19ME001

HARISH.K

1KG19ME008

SUNITH.G

1KG19ME019

KARTHIK.C

1KG20ME403

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work 18MEP83 prescribed for the degree.

Guide

**Head of the Department** 

Principal

Dr. K. Rama Narasimha

KSSEM

Dept. of ME Professor & Head **Department Of Mechanical Engineering** 

K.S. Group Of Institutions

K.S. School Of Engineering & Management School of Engineering and Managemen

Dr. K. RAMA NARASIMHA **Principal/Director** 

Bengaluru - 560 109 Bangalore-560 109

Name and Signature of Examiner-1

#### HARNESSING WIND ENERGY USING VERTICAL AXIS WIND MILL

A Project Work submitted to



#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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

# in MECHANICAL ENGINEERING

#### Submitted by

AMITH A S	1KG19ME002
BHARGAVI B REDDY	1KG19ME003
GANGA REDDY D M	1KG19ME007
RAJALAKSHMI VEERESH	1KG19ME017

Under the Guidance of Dr. ABHISHEK M R

Associate Professor
Dept. of Mechanical Engineering
K S School of Engineering and Management
560109





#### CERTIFICATE

This is to certify that the project work entitled "HARNESSING WIND ENERGY USING VERTICAL AXIS WIND MILL" is a Bonafede work carried out by

AMITH A S	1KG19ME002
BHARGAVI B REDDY	1KG19ME003
GANGA REDDY D M	1KG19ME007
RAJALAKSHMI VEERESH	1KG19ME017

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work 18MEP83 prescribed for the degree.

Guide

Head of the Department

Principal

Dr. Abhishek M R Associate Professor

Dept. of ME

Examiners

Dr. K. Rama Narasimha

Department of Minanical Engineering Principal/Director

K.S. Group Of Institutions

K.S. School Of Engineering & Management Bangalore-560 109

Dr. K. RAMA NARASIMHA

Principal/Director

( S School of Engineering and Management Bengaluru - 560 109

Name and Signature of Examiner-1

## FABRICATION OF PORTABLE HYDROPOWER GENERATOR

A Project Work submitted to



## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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

## **BACHELOR OF ENGINEERING** MECHANICAL ENGINEERING

#### Submitted by

CHETHAN.K

1KG19ME005

RAKSHITH.R

1KG20ME406

REDDY PRAKASH.T 1KG20ME409

Under the Guidance of

Mr.Harsha.J

**Assistant Professor** 

Dept. of Mechanical Engineering K S School of Engineering & Management 560109





#### CERTIFICATE

This is to certify that the project work entitled "FABRICATION OF PORTABLE HYDROPOWER GENERATOR "is a Bonafede work carried out by

CHETHAN.K

1KG19ME005

RAKSHITH.R

1KG20ME406

REDDY PRAKASH.T 1KG20ME409

In partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work 18MEP85 prescribed for the degree.

Mr.Harsha. J Assistant Professor

KSSEM

**Examiners** 

**Head of the Department** 

Professor, HOD

Dept of ME KSSEM

Department Of Mechanical Engineering

K.S. School Of Engineering & Management

Principal

Principat

KSSEM

Dr. K. RAMA NARASIMHA

Principal/Director

K.S. Group Of Institutions K S School of Engineering and Management Bengaluru - 560 109

Bangalore-560 109

# Fabrication and Investigation of Tribological Properties of AA5456 aluminum alloy as a matrix material Nano MoS2 as a reinforcement material

Project Work submitted to



## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

In partial fulfillment of the requirements

For the award of degree of

# BACHELOR OF ENGINEERING In MECHANICAL ENGINEERING

#### Submitted by

VENKAT RAGHAVEN V S 1KG19ME020 AKSHAYKUMAR ARADHYA K 1KG20ME400 CHETHAN A N 1KG20ME401

> Under the Guidance of Akashdeep B N

Assistant professor

Dept. of Mechanical Engineering

K S School of Engineering and Management





### K.S. SCHOOL OF ENGINEERING AND MANAGEMENT MECHANICAL ENGINEERING

#### CERTIFICATE

This is to certify that the project work entitled Fabrication and Investigation of Tribological Properties of AA5456 aluminum alloy MoS2 as a matrix material Nano MoS2 as a reinforcement material is a bonafide work carried out by

VENKAT RAGHAVEN V S

1KG19ME020

AKSHAYKUMAR ARADHYA K

1KG20ME400

CHETHAN A N

1KG20ME401

In partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work (18MEP83) prescribed for the degree.

Guide

**Head of the Department** 

Principal

Akashdeep B !

Assistant professor Dept. of ME

Professor

Dr. K. Rama Narasimha

KSSEM

ProfessorMe Head Department Of Mechanical Engineering

Dr. K. RAMA NARASIMHA Principal/Director

K.S. Group Of Institutions K S School of Engineering and Management

K.S. School Of Engineering & Management

Bengaluru - 560 109

Bangalore-560 109

Examiners

Name and Signature of Examiner-1

## DESIGN AND FABRICATION OF ELECTROMAGNETIC BRAKING SYSTEM

A Project Work submitted to



## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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

#### BACHELOR OF ENGINEERING in MECHANICAL ENGINEERING

#### Submitted by

RAVI TEJA M

1KG19ME012

PRADEEP A

1KG19ME016

RAGHAVENDRAKJ

1KG20ME405

Under the Guidance of

Mr. Santosh Kumar K J

Asst Professor

Dept. of Mechanical Engineering K S School of Engineering and Management 560109





#### CERTIFICATE

This is to certify that the project work entitled "DESIGN AND FABRICATION OF ELECTROMAGNETIC BRAKING SYSTEM" is a Bonafede work carried out by

**RAVI TEJA M** 

1KG19ME012

PRADEEP A

1KG19ME016

RAGHAVENDRA K J

1KG20ME405

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work 18MEP83 prescribed for the degree.

Guide

Head of the Department

Principal

Mr. Santosh Kumar K J

Asst Professor Dept. of ME

**Examiners** 

Professor & Head Dept. of ME

Dr. K. Rama Narasimha

Principal/ Director

**Professor & Head** 

Bengaluru - 560 109

Principal/Director Department Of Mechanical Engineeki School of Engineering and Management

K.S. Group Of Institutions

K.S. School Of Engineering & Management

Bangalore-500 109

## DESIGN AND FABRICATION OF ELECTRICITY GENERATOR USING SPEED BREAKER

A Project Work submitted to



#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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

# BACHELOR OF ENGINEERING in MECHANICAL ENGINEERING

#### Submitted by

PRUTHVI RAJ LOKESH.A.B SANTHOSH.N 1KG19ME004 1KG19ME011 1KG20ME407

#### Guide

Mr Vinod. A
Assistant Professor,
Dept of Mechanical Engg,
KSSEM

#### Co-Guide

Ms Nishchitha.A.H
Assistant Professor
Dept of Mechanical Engg,
KSSEM





#### **CERTIFICATE**

This is to certify that the project work entitled "DESIGN AND FABRICATION OF ELETRICITY GENERATOR USING SPEED BREAKER" is a Bonafede work carried out by

PRUTHVI RAJ

1KG19ME004

LOKESH.A.B

1KG19ME011

SANTHOSH.N

1KG20ME407

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work 18MEP83 prescribed for the degree.

Guide

Co-Guide

Head of the Department

Principal

Mr. Vinod. A Assistant Professor, Dept. of ME,

**KSSEM** 

Examiners

Ms. Nishchitha.A.H Assistant Professor,

> Dept. of ME, KSSEM

Dr. K. Rama Narasimha

Principal,

Dept. of Me, k SSEM

Department Of Mechanical Engineeri Dr. K. RAMA NARASIMHA

K.S. Group Of Institutions Principal/Director
K.S. School of Engineering & Management

Bangalore-560 109

#### SOLAR OPERATED EVAPORATIVE COOLING SYSTEM

A Project Work submitted to



#### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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

# BACHELOR OF ENGINEERING in MECHANICAL ENGINEERING

#### Submitted by

GAGAN.G.R 1KG19ME006

MANU.P.B 1KG19ME013

MOHIK.B 1KG20ME404

Under the Guidance of

#### **PARASHURAM A K**

Asst, Professor

Dept. of Mechanical Engineering
K S School of Engineering & Management
560109





#### CERTIFICATE

This is to certify that the project work entitled "SOLAR OPERATED EVAPORATIVE **COOLING SYSTEM**" is a bonafide work carried out by

GAGAN.G.R

1KG19ME006

MANU.P.B

1KG19ME013

MOHIK.B

1KG20ME404

in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to Project Work 18MEP85 prescribed for the degree.

Guide

Examiners

Head of the Department

Professor Dept. of ME Professor & Head

Department Of Mechanical Engineering K.S. Group Of Institutions

K,S, School Of Engineering & Managemen's School of Engineering and Managem Bangalore-560 109

Principal

Dr. K RamaNarasimha

KSSEM

Dr. K. RAMA NARASIMHA

Principal/Director

Bengaluru - 560 109

Name and Signature of Examiner-1