

# DESIGN AND FABRICATION OF ROVER BASED ON ROCKER BOGIE MECHANISM

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

**ABHIJITH JAYARAM      1KG16ME001**

**AKSHAY KUMAR PN      1KG17ME004**

**SANJAY SN                1KG17ME029**

**SYED TOUSIF            1KG17ME039**

Under the Guidance of  
**DR. BALAJI B**  
Professor and HOD  
**DEPARTMENT OF MECHANICAL ENGINEERING**



Department of Mechanical Engineering  
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No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109  
**2020-2021**



**KSSEM**  
K.S. Group of Institutions

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

**CERTIFICATE**

This is to certify that the project work entitled **DESIGN AND FABRICATION OF ROVER  
BASED ON ROCKER BOGIE MECHANISM** is a bonafide work carried out

by

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**SYED TOUSIF 1KG17ME039**

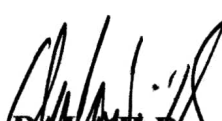
in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2020-2021. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Project Work (17MEP85)** prescribed for the degree.

**Guide**

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**Principal**

  
**DR. BALAJI B**  
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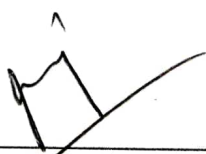
  
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**Examiners**





Name and Signature of Examiner-1

Name and Signature of Examiner-2

# **MULTI-SOURCE MODULAR DECORTICATOR FOR MULTIPLE CROPS**

Project Work submitted to



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

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

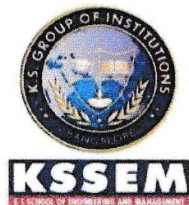
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in  
**MECHANICAL ENGINEERING**

Submitted by

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<b>GORRIPATI KARTHIK</b>	<b>1KG17ME013</b>
<b>R YASWANTH</b>	<b>1KG17ME025</b>
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Under the Guidance of  
**Dr. P.N. JYOTHI**  
Professor

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**2020-2021**





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This is to certify that the project work entitled **MULTI-SOURCE MODULAR DECORTICATOR FOR MULTIPLE CROPS** is a bonafide work carried out by

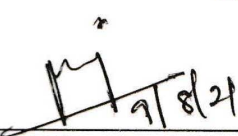
<b>BALA BABU BHARGAV</b>	<b>1KG17ME007</b>
<b>GORRIPATI KARTHIK</b>	<b>1KG17ME013</b>
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in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi**, during the year 2020-2021. 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 (17MEP85)** prescribed for the degree.

  
Project Guide

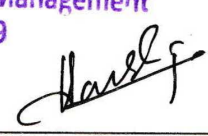
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# **Experimental Investigation On Vibrational Properties of Hybrid Composites**

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

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**JAYANTH H M    1KG16ME021**

**R DHARSHAN    1KG16ME034**

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This is to certify that the project work entitled **Experimental Investigations on Vibrational Properties on Hybrid Composites** is a Bonafede work carried out by

**JAGADISH G      1KG16ME018**

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**Examiners**

Name and Signature of Examiner-1

Name and Signature of Examiner-2

# **DESIGN AND FRABRICATION OF AUTOMATIC EGG INCUBATOR**

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**

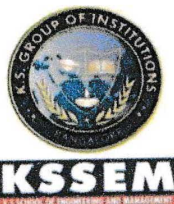
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<b>BHARATH R V</b>	<b>1KG17ME009</b>
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<b>SRI HARSHA M</b>	<b>1KG17ME36</b>

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This is to certify that the project work entitled **DESIGN AND FABRICATION OF EGG INCUBATOR** is a bonafide work carried out by

<b>BHARATH R V</b>	<b>1KG17ME009</b>
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9/6/21

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Name and Signature of Examiner-2

**DESIGN AND FABRICATION OF AN  
ELECTROMECHANICAL DEVICE TO PREVENT ON ROAD  
WHEELING AMONGST TWO WHEELER AUTOMOBILE  
SEGMENT**

Project work submitted to



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

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for the award of degree of

**BACHELOR OF ENGINEERING  
in  
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<b>NANDISH B RAJU</b>	<b>1KG17ME020</b>
<b>PAVAN KUMAR G V</b>	<b>1KG17ME023</b>

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**2020-2021**



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**CERTIFICATE**

This is to certify that the project work entitled "Design And Fabrication Of An Electromechanical Device To Prevent On-Road Wheeling Amongst Two-Wheeler Automobile Segments " is a bonafide work carried out by

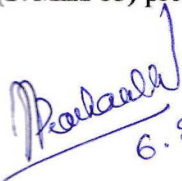
**AKASH J NAYAK                      1KG17ME003**

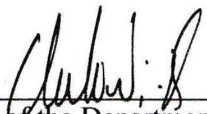
**AKSHAYKUMAR S                      1KG17ME005**

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6.8.21  
Name and Signature of  
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**Bangalore-560 109**

**Examiners**  
  
Name and Signature of Examiner-1

  
Name and Signature of Examiner-2



**SYNTHESIS AND MECHANICAL BEHAVIOUR OF  
AA5456 ALUMINIUM ALLOY AS A MATRIX  
MATERIAL / NANO-SiC AS REINFORCEMENT  
MATERIAL BY STIR CASTING METHOD**

Project Work submitted to



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

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in  
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<b>SUHAS K S</b>	<b>1KG17ME037</b>
<b>U CHETHUS</b>	<b>1KG17ME042</b>

Under the Guidance Of



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**2020-2021**



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This is to certify that the project work entitled **Synthesis and mechanical behaviour of AA5456 aluminium alloy as a matrix material / nano-SiC as reinforcement material by stir casting method** is a bonafide work carried out by


<b>ABHAY D SAMPIGETHAYA</b>	<b>1KG17ME001</b>
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<b>U CHETHUS</b>	<b>1KG17ME042</b>


in partial fulfilment for the award of **Bachelor of Engineering in Mechanical Engineering** of Visvesvaraya Technological University, Belagavi, during the year 2020-2021. 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 (17MEP85)** prescribed for the degree.

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**Examiner**

  
Name and Signature of Examiner-1

  
Name and Signature of Examiner-2

**STUDY ON MECHANICAL BEHAVIOUR OF SiC AND  
Al<sub>2</sub>O<sub>3</sub> NANO POLYMER COMPOSITES**

Project Work submitted to



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in  
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<b>TEJAS KUMAR N</b>	<b>1KG17ME041</b>
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2020-2021





**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
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This is to certify that the project work entitled “Study On Mechanical Behaviour of SiC and Al<sub>2</sub>O<sub>3</sub> Nano Polymer Composites” is a bonafide work carried out by

<b>BALIJA BHASKAR</b>	<b>1KG17ME008</b>
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<b>UMESH G</b>	<b>1KG17ME043</b>

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**Dr. K. Ramanarasimha**

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**Dr. K. RAMA NARASIMHA**

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**K.S. School of Engineering & Management**  
**Bangalore-560 109**

**Examiners**

Name and Signature of Examiner-1

Name and Signature of Examiner-2

# DESIGN AND FABRICATION OF PLASTIC COMPRESSION MOLDING MACHINE

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

<b>GOVARDHAN MAHESH</b>	<b>1KG17ME015</b>
<b>KARAN RAKESH</b>	<b>1KG17ME017</b>
<b>RANGANATH CHARAN</b>	<b>1KG17ME028</b>
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Under the Guidance of

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This is to certify that the project work entitled **Design and Fabrication of Plastic Compression Molding Machine** is a bonafide work carried out by

<b>GOVARDHAN MAHESH</b>	<b>1KG17ME015</b>
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**Head of the Department**

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**Examiner**

  
Name and Signature of Examiner-1

  
Name and Signature of Examiner-2



# DESIGN AND FABRICATION OF PLASTIC EXTRUDER MACHINE

Project Work submitted to



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

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**BACHELOR OF ENGINEERING**  
in  
**MECHANICAL ENGINEERING**

Submitted by

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PRAKASH A	1KG16ME031
ROHAN S	1KG16ME039

Under the Guidance of

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Assistant Professor  
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2020-2021



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**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT  
DEPARTMENT OF MECHANICAL ENGINEERING**

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This is to certify that the project work entitled **Design and fabrication of plastic extruder machine** is a bonafide work carried out by

<b>MANOJ R</b>	<b>1KG15ME059</b>
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<b>PRAKASH A</b>	<b>1KG16ME031</b>
<b>ROHAN S</b>	<b>1KG16ME039</b>

in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2020-2021. 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 (15MEP85)** prescribed for the degree.

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**Examiners**

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Name and Signature of Examiner-2

# CASE STUDY ON VCR WITH DIFFERENT REFRIGERANTS

Project Work submitted to



## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

in partial fulfillment of the requirements

for the award of degree of

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in

**MECHANICAL ENGINEERING**

Submitted by

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**2020-2021**





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This is to certify that the project work entitled “Case Study on VCR with Different Refrigerants” is a bonafide work carried out by

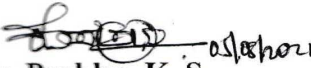
<b>BOYA SRIHARI</b>	<b>1KG17ME010</b>
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<b>MAHENDRA S</b>	<b>1KG17ME018</b>
<b>VEERESH S HIREMATH</b>	<b>1KG17ME045</b>


in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year **2020-2021**. 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 (17MEP85)** prescribed for the degree.


**Guide**

**Head of the Department**


**Principal**


  
**Mr. Prabhu. K. S**  
Assistant Professor  
Dept. of ME

  
**Dr. Balaji B**  
Professor & Head  
Dept. of ME

  
**Dr. K. Rama Narasimha**  
Principal/Director  
Principal/Director  
K S School of Engineering and Management  
KSSEM  
Bangalore - 560 109

**Examiners**

  
Name and Signature of Examiner-1

  
Name and Signature of Examiner-2

**PERFORMANCE EVALUATION OF DI-DIESEL ENGINE  
FOR DIFFERENT DIESEL BLEND RATIOS USING  
GARCINIA GUMMI GUTTA**

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

<b>NAVNEETH S SHETTY</b>	<b>1KG17ME021</b>
<b>RAKSHITH M</b>	<b>1KG17ME026</b>
<b>SATHVIK R</b>	<b>1KG17ME031</b>
<b>SHIVARAJ T</b>	<b>1KG17ME034</b>

Under the Guidance of

**Mr. Nishanth Nag HD**

Assistant Professor  
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**2020-2021**



**KSSEM**  
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 **Performance Evaluation of DI-Diesel Engine for Different Diesel Blend Ratios Using Garcinia Gummi Gutta** is a bonafide work carried out by


<b>NAVNEETH S SHETTY</b>	<b>1KG17ME021</b>
<b>RAKSHITH M</b>	<b>1KG17ME026</b>
<b>SATHVIK R</b>	<b>1KG17ME031</b>
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**Internal Guide**

  
**Mr. Nishanth Nag HD**  
Assistant Professor  
Dept. of ME

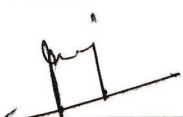
**Head of the  
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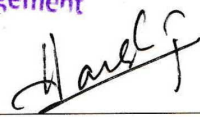
**Principal**

  
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**Examiner**

  
Name and Signature of Examiner-1

**Professor & Head**  
Department Of Mechanical Engineering  
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K.S. School Of Engineering & Management  
Bangalore-560 109

  
Name and Signature of Examiner-2



**DESIGN AND ANALYSIS OF INTERNAL COMBUSTION  
ENGINE PISTON USING CATIA SOFTWARE**

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

**ARUN KUMAR. A**

**1KG15ME001**

**DHIRAJ.P**

**1KG15ME015**

Under the Guidance of

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**2020-2021**



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**CERTIFICATE**

This is to certify that the project work entitled “**Design and Analysis of Internal Combustion Engine Piston Using Catia Software**” is a bonafide work carried out by

**ARUN KUMAR. A**                      **1KG15ME001**

**DHIRAJ.P**                                **1KG15ME015**

in partial fulfillment for the award of **Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belagavi**, during the year 2020-2021. 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 (15MEP85)** prescribed for the degree.

**Guide**

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**Examiners**

Name and Signature of Examiner-1

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