

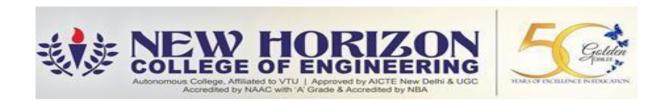
DEPARTMENT OF AUTOMOBILE ENGINEERING

VIII SEMESTER PROJECT DETAILS EVEN SEM 2020-21

Sl.No.	USN	Name of the Student	Batch	TOPIC
1	1NH17AU006	Arif Mohamed	1	DESIGN AND FABROCATION OF AN ELECTRIC TWO-WHEELER
2	1NH17AU005	Anurag		
3	1NH17AU026	MOHAMMAD FAIZAAN		
4	1NH17AU044	SAI LOHITH		
5	1NH14AU052	Suhas Sampangi Ramaiah	2	DESIGN ANALYSIS AND 3D PRINTING OF A TWO WHEELER BRAKE LEVER
6	1NH14AU069	Yogaskandan.A		
7	1NH17AU012	Harshith S		
8	1NH17AU007	Arjun		
9	1NH17AU037	Raj kumar sen	3	Design and simulation of Automatic Braking System with ABS using Arduino
10	1NH17AU041	Rishabh kumar Sinha		
11	1NH17AU051	Shubham Nayar		
12	1NH17AU063	K V Harish Kuma		
13	1NH18AU400	Akshay khot	4	Design and Fabrication of Training Module of Noise, Vibration and HarshnessTester UsingArduino
14	1NH17AU014	Himanshu ranjan mallick		
15	1NH18AU403	Manik kalsotra		
16	1NH18AU406	Setu mehra		
17	1NH17AU028	Shriram N	5	A Learning And Assistive Web Application For Driving, For Individuals With Autism
18	1NH17AU047	Sharfaa Zaib		
19	1NH17AU061	Vasudevan R		
20	1NH16AU028	Mounesh rampur	6	ADVANCE WHIPLASH PROTECTION SYSTEM DESIGN AND ANALYSIS
21	1NH16AU045	santosh Patel		
22	1NH16AU062	Vishnu kuttan		
23	1NH16AU064	sachin manivanan		

Sl.No.	USN	Name of the Student	Batch	торіс
24	1NH17AU013	Hibel Hussain	_	Design and Simulation of Regenerative suspension system
25	1NH17AU042	Rohith V		
26	1NH17AU019	Johnjo Josmon	7	
27	1NH17AU027	Mohammed Nihal		
28	1NH17AU008	Avinash	8	BIODIESEL FROM NEEM OIL AS AN ALTERNATIVE FUEL FOR DIESEL ENGINE
29	1NH17AU010	Chandan K S		
30	1NH17AU052	Yashwanth Reddy		
31	1NH17AU065	C Mahesh		
32	1NH17AU021	Karan K Murthy	9	Vibration Analysis of vehicles using Accelerometer
33	1NH17AU020	Prithvi		
34	1NH17AU053	Sohan S		
35	1NH17AU059	Tejas A		
36	1NH18AU401	Anand G	10	Design and analysis of a four wheel steering system for car
37	1NH18AU408	Shashidhar		
38	1NH18AU409	Tejas J		
39	1NH18AU413	Yeshwanth Kumar U R		
40	1NH18AU405	PAVAN PL	11	Finite element analysis of the automotive muffler
41	1NH17AU069	Nithin Kumar		
42	1NH17AU031	Nithin H R		
43	1NH17AU001	Pranav		
44	1NH17AU033	Pradeep	12	Cooking Oil As An Alternate Fuel For Single Cylinder Diesel Engine
45	1NH17AU040	Rayyan		
46	1NH17AU024	Manova		
47	1NH17AU030	Nirup		

Sl.No.	USN	Name of the Student	Batch	TOPIC
48	1NH18AU411	Varun Bharadwaj		Design & Analysis of Vertical Axis wind turbine for Power generation
49	1NH18AU407	SHARAN S	13	
50	1NH18AU404	NANDEESH R	13	
51	1NH18AU410	Thomas		
52	1NH17AU029	Naveen Raj L	14	Structural and Thermal analysis of Piston and Connecting Rod
53	1NH17AU035	Prashanth K		
54	1NH17AU003	Ajith		
55	1NH17AU062	Waseem N M		
56	1NH17AU058	Syed Yasar Arafath		Designing, Fabrication and Testing of 18650 Lithium-ion Battery Capacity Testing Rig
57	1NH17AU011	Danish Ashiq Mir	٠. ا	
58	1NH17AU009	Bharath Reddy J	15	
59	1NH17AU038	Rakshith V		
60	1NH17AU022	Rhithik M	16	Structural analysis of Automotive Chassis
61	1NH17AU015	JAYRAJ		
62	1NH17AU034	PRAJWAL		
63	1NH17AU046	shakir		
64	1NH17AU066	Charan km		Design and fabrication of sensor operated electromagnetic clutch and braking system
65	1NH18AU402	Harshit D	17	
66	1NH17AU064	Tejeshwar		
67	1NH17AU039	Ranjan		
68	1NH17AU032	Nitin T	18	Development and characterization of flame retardant polymer composite material for automobile application
69	1NH17AU036	Rahul		
70	1NH17AU054	Sri Hari		
71	1NH17AU002	Abdul Sathiq		
72	1NH16AU027	Mordi Sangma	19	DESIGN AND ANALYSIS OF AUTOMOBILE WHEEL RIM
73	1NH14AU001	Abhijeet		
74	1NH16AU029	Md. Mansoor		
75	1NH18AU412	Vishak Vignesh		



"Design and Fabrication of an Electric Two-Wheeler"

PROJECT WORK - [AUT84]

Submitted by

ANURAG (1NH17AUU05)
ARIF MOHAMED (1NH17AU006)
MOHAMMED FAIZAAN(1NH17AU026)
SAI LOHITH K N (1NH17AU044)

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

Prof. Jayasheel Kumar

Senior Assistant Professor

Department of Automobile Engineering, NHCE *July-2021*



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work- [AUT84]

On

"Design and Fabrication of an Electric Two-Wheeler"



Is a bonafide work carried out by

ANURAG (1NH17AUU05) ARIF MOHAMED (1NH17AU006) MOHAMMED FAIZAAN (1NH17AU026) SAI LOHITH K N (1NH17AU044)

In partial fulfillment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, Belgaum during even Semester, 2020-21. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library.

The project report has been approved as it satisfies the academic requirements in respect of Project work for prescribed for the said Degree.

Signature of Internal Guide

Vayashur

Signature of HOD

Signature of Principal

Prof.Jayasheel Kumar K A

Dr. Shridhar Kurse

Dr. Manjunatha

External Viva

Name of the Examiners

Signature with Date

1.



DESIGN, ANALYSIS AND 3D PRINTING OF A TWO-WHEELER BRAKE LEVER



PROJECT WORK [AUT84]

Submitted by

SUHAS SAMPANGI RAMAIAH (1NH14AU052)

YOGASKANDAN A (1NH14AU069)

HARSHITH S (1NH17AU012)

ARJUN H (1NH17AU007)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN AUTOMOBILE ENGINEERING

Under The Guidance of

Prof. JAYASHEEL Kumar K.A.

Senior Assistant Professor

Department of Automobile Engineering, NHCE

July,2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work [AUT84]

On

"DESIGN ANALYSYS AND 3D PRINTING OF A TWO-WHEELER BRAKE LEVER"

Is a bonafide work carried out by

SUHAS SAMPANGI RAMAIAH [1NH14AU052]

YOGASKANDAN A [1NH14AU069]

ARJUN H [1NH17AU007]

HARSHITH S [1NH17AU012]

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The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Signature of Internal Guide Prof. Jayasheel Kumar K A

washis

Signature of HOD

Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

External Viva

Name of the Examiners Signature with Date

1.



DESIGN AND FABRICATION OF AUTOMATIC BRAKING SYSTEM WITH ABS USING ARDUINO

PROJECT WORK [AUT84]



Submitted by

RAJ KUMAR SEN(1NH17AU037)
RISHABH KUMAR SINHA (1NH17AU041)
SHUBHAM NAYAR (1NH17AU051)
K V HARISH KUMAR (1NH17AU063)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

PROF. SMITHA B S
Assistant Professor
Department of Automobile Engineering, NHCE
July, 2021



Outer Ring Road, Marathahalli, Bengaluru-560103 DEPARTMENT OF AUTOMOBILE ENGINEERING CERTIFICATE

This is to certify that the Project Work [AUT84]

On

DESIGN AND FABRICATION OF AUTOMATIC BRAKING SYSTEM WITH ABS USING ARDUINO

is a bonafide work carried out by

RAJ KUMAR SEN(1NH17AU037)
RISHABH KUMAR SINHA (1NH17AU041)
SHUBHAM NAYAR (1NH17AU051)
K V HARISH KUMAR(1NH17AU063)

In partial fulfilment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, Belgaum during Even Semester, 2020-21. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library.

The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Partuo

Signature of Internal Guide Prof. Smitha B S

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

External Viva
Name of the Examiners

1.

2.

Signature with Date



DESIGN AND FABRICATION OF TRAINING MODULE OF NOISE, VIBRATION AND HARSHNESS TESTER USING ARDUINO



PROJECT WORK [AUT84]

Submitted by

HIMANSHU RANJAN MALLICK (1NH17AU014)

AKSHAY KHOT (1NH18AU400)

MANIK KALSOTRA (1NH18AU403)

SETU MEHRA (1NH18AU406)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

PROF. JAYASHEEL KUMAR K A
Senior Assistant Professor

Department of Automobile Engineering, NHCE

July, 2021



Outer Ring Road, Marathahalli, Bengaluru-560103 DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

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is a bonafide work carried out by

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AKSHAY KHOT (1NH18AU400)

MANIK KALSOTRA (1NH18AU403)

SETU MEHRA (1NH18AU406)

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The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Signature of Internal Guide Prof. Javasheel

External Viva
Name of the Examiners

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

Signature with Date

1.

2.

Kumar K A



A LEARNING AND ASSISTIVE WEB APPLICATION FOR DRIVING, FOR INDIVIDUALS WITH AUTISM



PROJECT WORK [AUT84]

Submitted by

SHRIRAM N(1NH17AU028)

SHARFAA ZAIB(1NH17AU047)

VASUDEVAN R(1NH17AU061)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

Dr. Shridhar Kurse Assistant Professor

Department of Automobile Engineering, NHCE

AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work[AUT84]

On

"A LEARNING AND ASSISTIVE WEB APPLICATION FOR DRIVING, FOR INDIVIDUALS WITH AUTISM"

Is a bonafide work carried out by

SHRIRAM N(1NH17AU028)

SHARFAA ZAIB(1NH17AU047)

VASUDEVAN R(1NH17AU061)

In partial fulfilment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, Belgaum during Even Semester, 2020-21. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library.

The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Signature of Internal Guide Dr. Shridhar

Kurse

External Viva

Name of the Examiners

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

1.

2.

Signature with Date



ADVANCE WHIPLASH PROTECTION SYSTEM DESIGN AND ANALYSIS



PROJECT WORK [AUT84]

Submitted by

MouneshRampur(1NH16AU028)

santosh Patel (1NH16AU045)

Vishnu kuttan (1NH16AU062)

sachin manivanan (1NH16AU064)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

Dr. Sujin Jose
Associate Professor
Department of Automobile Engineering, NHCE

AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work[AUT84]

On

"ADVANCE WHIPLASH PROTECTION SYSTEM DESIGN AND ANALYSIS "

Is a bonafide work carried out by

MouneshRampur(1NH16AU028)
santosh Patel (1NH16AU045)
Vishnu kuttan (1NH16AU062)
sachin manivanan
(1NH16AU064)

In partial fulfilment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, Belgaum during Even Semester, 2020-21. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library.

The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Signature of Internal Guide

Dr.Sujin Jose

External Viva

Name of the Examiners

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

Signature with Date

1. 2.



DESIGN AND SIMULATION OF REGENERATIVE SUSPENSION SYSTEM



A PROJECT REPORT[AUT84]

Submitted By:

HIBEL HUSSAIN(1NH17AU013)

JOHNJO JOSMON(1NH17AU019)

MUHAMMAD NIHAL KC (1NH17AU027)

ROHITH V (1NH17AU042)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under the Guidance of PROF. SMITHA B S

Department of Automobile Engineering, NHCE

July,2021



DEPARTMENT OF AUTOMOBILE ENGINEERING CERTIFICATE

This is to certify that the Project Work [AUT84]

On

"DESIGN AND SIMULATION OF REGENERATIVE SUSPENSION SYSTEM"

Is a bonafide work carried out by

HIBEL HUSSAIN [1NH17AU013]

JOHNJO JOSMON [1NH17AU019]

MUHAMMAD NIHAL KC [1NH17AU027]

ROHITH V [1NH17AU042]

In partial fulfilment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, Belgaum during Even Semester, 2020-21. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Major Project Work prescribed for the said Degree.

Signature of Internal Guide Prof. Smitha B S

Signature of HOD Dr. Sridhar Kurse

Signature of Principal **Dr. Manjunatha**

External Viva
Name of the Examiners

Signature with Date

1.



Outer Ring Road, Marathahalli, Bengaluru-560103

DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the project work [AUT84]

On

BIO DIESEL FROM NEEM OIL AS AN ALTERNATIVE FUEL FOR DIESEL ENGINE

Is a bonafide work carried out by AVINASH B (1NH17AU008)

CHANDAN K S (1NH17AU010)

SIRIGI REDDY YASHWANTH REDDY (1NH17AU052) CHENNAVARAM MAHESH (1NH17AU065)

In partial fulfilment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, Belgaum during Even Semester, 2020-21. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library.

The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Signature of Internal Guide

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

External Viva

Name of the Examiners

Signature with Date

1.

2



VIBRATION ANALYSIS OF VEHICLES USING ACCELEROMETER



PROJECT WORK [AUT84]

Submitted by

Karan K Murthy(1NH17AU021)

Prithvi (1NH17AU020)

Sohan S (1NH17AU053)

Tejas A(1NH17AU059)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

Dr. Shridhar Kurse Assistant Professor

Department of Automobile Engineering, NHCE

AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work[AUT84]

On

"VIBRATION ANALYSIS OF VEHICLES USING ACCELEROMETER"

Is a bonafide work carried out by

Karan K Murthy(1NH17AU021)

Prithvi (1NH17AU020)

Sohan S (1NH17AU053)

Tejas A(1NH17AU059)

In partial fulfilment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, Belgaum during Even Semester, 2020-21. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library.

The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Signature of Internal Guide Dr. Shridhar

Kurse

External Viva

Name of the Examiners

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

Signature with Date

1. 2.



Design and Analysis of a Four Wheel Steering System for a Car



PROJECT WORK [AUT84]

Submitted by

ANAND G (1NH18AU401)

SHASHIDHAR (1NH18AU408)

TEJAS J (1NH18AU409)

YESHWANTH KUMAR U R (1NH18AU413)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

UnderTheGuidance of

Mr. Mohan Kumar G R Sr.Assistant Professor

Department of Automobile Engineering, NHCE

AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work [AUT84]

On

"Design and Analysis of a Four Wheel Steering System for a Car"

Is a bonafide work carried out by

ANAND G (1NH18AU401)

SHASHIDHAR (1NH18AU408)

TEJAS J (1NH18AU409)

YESHWANTH KUMAR U R (1NH18AU413)

In partial fulfilment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, 2020-21. Itiscertified Belgaum during Even Semester, that allcorrections/suggestionsindicatedfor internal assessment has been incorporated in the report deposited in the department library.

The

 $project report has been approved a sit satisfies the acade micrequirements in {\tt transfer} and {\tt transfer} are the {\tt transfer} and {\tt transfer} are the {\tt transfer} are the$ respect of Project Work prescribed for the said Degree.

Signature of Internal Guide Mr.Mohan Kumar G R

Signature of HOD Dr.Shridhar Kurse Signature of Principal Dr.Manjunatha

External Viva Name of the Examiners

1. 2. Signature with Date



FINITE ELEMENT ANALYSIS OF AUTOMOTIVE MUFFLER



PROJECT WORK [AUT84]

Submitted by

A S pranav (1NH17AU001)

Nithin H R (1NH17AU031)

Nithin kumar (1NH17AU069)

Pavan P L (1NH18AU405)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

Mr. Mohan Kumar G R Sr. Assistant Professor

Department of Automobile Engineering, NHCE

AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

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Nithin kumar (1NH17AU069)

Pavan P L (1NH18AU405)

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The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Signature of Internal Guide Mr.Mohan Kumar G R

Signature of HOD Dr.Shridhar Kurse

Signature of Principal Dr.Manjunatha

External Viva

Name of the Examiners

1. Signature with Date



COOKING OIL AS AN ALTERNATE FUEL FOR SINGLE CYLINDER DIESEL ENGINE



PROJECT WORK [AUT84]

Submitted by

PRADEEP (1NH17AU033)

RAYYAN (1NH17AU040)

MANOVA (1NH17AU024)

NIRUP (1NH17AU030)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

Mr. Karthik A V Assistant Professor

Department of Automobile Engineering, NHCE

AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work[AUT84]

On

"COOKING OIL AS AN ALTERNATE FUEL FOR SINGLE CYLINDER DIESEL ENGINE"

Is a bonafide work carried out by

PRADEEP (1NH17AU033)

RAYYAN (1NH17AU040)

MANOVA (1NH17AU024)

NIRUP (1NH17AU030)

In partial fulfilment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, Belgaum during Even Semester, 2020-21. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library.

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Signature of Internal Guide Karthik A V Signature of HOD

Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

External Viva
Name of the Examiners

1.

Signature with Date



DESIGN & ANALYSIS OF VERTICAL

AXIS WIND TURBINE FOR POWERGENERATION



PROJECT WORK [AUT84]

Submitted by

Varun Bharadwaj (1NH18AU411)
SHARAN S (1NH18AU0407)

NANDEESH R (1NH18AU400)

Thomas (1NH18AU410)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

Dr. Sujin Jose
Associate Professor
Department of Automobile Engineering, NHCE

AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work[AUT84]

On

"DESIGN & ANALYSIS OF VERTICAL AXIS WIND TURBINE FOR POWERGENERATION"

Is a bonafide work carried out by

Varun Bharadwaj (1NH18AU411)
SHARAN S (1NH18AU0407

NANDEESH R (1NH18AU400)

Thomas (1NH18AU410)

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Signature of Internal Guide

Dr.Sujin Jose

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

External Viva

Name of the Examiners

1.

Signature with Date



STRUCTURAL AND THERMAL ANALYSIS OF PISTON AND CONNECTING ROD



PROJECT WORK [AUT84]

Submitted by

NAVEEN RAJ L(1NH17AU029)

PRASHANTH K (1NH17AU035)

AJITH (1NH17AU003)

WASEEM N M (1NH17AU023)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

Mr. Karthik A V Assistant Professor

Department of Automobile Engineering, NHCE

AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

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"STRUCTURAL AND THERMAL ANALYSIS OF PISTON AND CONNECTING ROD"

Is a bonafide work carried out by

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PRASHANTH K (1NH17AU035)

AJITH (1NH17AU003)

WASEEM N M (1NH17AU023)

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Signature of Internal Guide Karthik A V

Signature of HOD

Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

External Viva
Name of the Examiners

1.

2.

Signature with Date



"Designing, Fabrication and Testing of 18650 Lithium-ion Battery Capacity Testing Rig"



PROJECT WORK [AUT84]

Submitted by

RAKSHITH V (1NH17AU038)

SYED YASAR ARAFATH (1NH17AU058)

DANISH ASHIQ MIR (1NH17AU011)

BHARATH REDDY J (1NH17AU009)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING
IN
AUTOMOBILE ENGINEERING

Under The Guidance of

Prof. Smitha B S
Assistant Professor

Department of Automobile Engineering, NHCE AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work [AUT84]

On

"Designing, Fabrication and Testing of 18650 Lithium-ion Battery Capacity Testing Rig"

Is a bonafide work carried out by

RAKSHITH V (1NH17AU038)

SYED YASAR ARAFATH (1NH17AU058)

DANISH ASHIQ MIR (1NH17AU011)

BHARATH REDDY J (1NH17AU009)

In partial fulfilment for the award of degree of Bachelor of Engineering in Automobile Engineering of the Visvesvaraya Technological university, Belgaum during Even Semester, 2020-21. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report deposited in the department library.

The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Signature of Internal Guide Prof. Smitha B S

Signature of HOD Dr. Shridhar Kurse Signature of Principal Dr. Manjunatha

External Viva
Name of the Examiners

Signature with Date

1.



DEVELOPMENT AND CHARACTERIZATION OF FLAME RETARDANT POLYMERCOMPOSITEMATERIALFORAUTOMOBILE APPLICATION



PROJECT WORK [AUT84]

Submitted by

Nitin T (1NH17AU032) Rahul (1NH17AU036)

Sri Hari (1NH17AU054)

Abdul Sathiq (1NH17AU002)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under The Guidance of

Dr. Sujin Jose
Associate Professor
Department of Automobile Engineering, NHCE

AUGUST, 2021



DEPARTMENT OF AUTOMOBILE ENGINEERING

CERTIFICATE

This is to certify that the Project Work[AUT84]

On

"DEVELOPMENT AND CHARACTERIZATION OF FLAME RETARDANT POLYMERCOMPOSITE MATERIAL FOR AUTOMOBILE APPLICATION"

Is a bonafide work carried out by

Nitin T (1NH17AU032) Rahul (1NH17AU036) Sri Hari (1NH17AU054)

Abdul Sathiq (1NH17AU002)

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Signature of Internal Guide
Dr.Sujin Jose

Signature of HOD

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

External Viva
Name of the Examiners

1.

Signature with Date



Design and fabrication of sensor operated electromagnetic clutch and braking system



PROJECT WORK [AUT84]

Submitted by

KM CHARAN (1NH17AU006)

HARSHIT D NAIK (1NH18AU402)

TEJESHWAR S (1NH17AU064)

RANJAN R (1NH17AU039)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

UnderTheGuidance of

Mr. Mohan Kumar G R Sr. Assistant Professor

Department of Automobile Engineering, NHCE

AUGUST, 2021



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Theprojectreporthasbeenapprovedasitsatisfiestheacademicrequirements in respect of Project Work prescribed for the said Degree.

Signature of Internal Guide Mr.Mohan Kumar G R

Signature of HOD Dr.Shridhar Kurse Signature of Principal Dr.Manjunatha

External Viva
Name of the Examiners

1. Signature with Date



DEVELOPMENT AND CHARACTERIZATION OF FLAME RETARDANT POLYMERCOMPOSITEMATERIALFORAUTOMOBILE APPLICATION



PROJECT WORK [AUT84]

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Signature of Internal Guide
Dr.Sujin Jose

Signature of HOD

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

External Viva
Name of the Examiners

1.

Signature with Date



DESIGN AND ANALYSIS OF AUTOMOBILE WHEEL RIMS



PROJECT WORK [AUT84]

Submitted by

ABHIJEET KUMAR (1NH14AU001)

MORDI SANGMA (1NH16AU027)

MUHAMMAD MANSOOR P(1NH16AU029)

VISHAK VIGNESH (1NH18AU412)

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

AUTOMOBILE ENGINEERING

Under the Guidance of

Mr. SUNIL PRASHANTH KUMAR
ASSISTANT PROFESSOR

Department of Automobile Engineering, NHCE *JULY, 2021*



DEPARTMENT OF AUTOMOBILE ENGINEERING CERTIFICATE

This is to certify that the Project Work [AUT84]

On

"DESIGN AND ANALYSIS OF AUTOMOBILE WHEEL RIM"

Is a bonafide work carried out by

MUHAMMAD MANSOOR P[1NH16AU029]

ABHIJEET KUMAR[1NH14AU001]

MORDI SANGMA[1NH16AU027]

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Signature of Internal

Guide

Mr. Sunil Prashanth

Kumar

Signature of HOD Dr. Shridhar Kurse

Signature of Principal Dr. Manjunatha

External Viva

Name of the Examiners

Signature with Date

1.