

ESTD: 2005

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, Hyderabad, R.R. Dist. 501 512. (Approved by AICTE, Recognized by the GOVT. of T.S., Permanent Affiliation from JNTUH, Hyderabad.) Accredited by "NAAC" with "A" Grade, Recognized by UGC Under Section 2(f) and 12(B).

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DEPARTMENT OF MECHANICAL ENGINEERING ROLL LIST (AY 2018-19) PROJECT WORK

		OJECT WORKS
	PROJECT TITLE	STUDENT ROLL NUMBER AND NAME
S.No	PROJECT THE	16T85A0319-MAHESHUNI SHIVA PRASAD
1	INTILLEGENT UNMANNED ARMY	16T85A0309-KUMMARI MADHAVI
	TANK (ROBOTICS)	15T81A0312-JEEDINADLA RAVI
		16T85A0308-CH HARIPRAKASH
2.0	FABRICATION OF POWER GENERATION USING RAILWAY TRACK(Production of technology PT) FABRICATION OF BUTTON OPERATED ELETROMAGNETIC GEAR SHIFTING AND SIDESTAND LIFTING FOR TWO WHEELER(Production of technology PT)	16T85A0305-P CHANDRASHEKHAR
2		16T85A0315-C ROJA
_		16T85A0316-GUNDU SAI PRAKASH
		16T85A0303-N ARUNA
3		16T85A0318-BANOTH SHANKAR
		15T81A0301-MANIR AHMAD KHAN
.	DESIGN AND FABRICATION OF HIGHWAY WIND TURBINE(Design of	14T81A0301-MOHD ABDUL MUQEED
4	Machine members-2 DMM-II)	15T81A0309- MOHD RAFEEQ
	FABRICATION OF MULTI	15T81A0307-BURRI MURALI
.	OPERATING MACHINE	15T81A0308-DASAROJU POORNA CHARY
5	(CUTTING, GRINDING AND DRILLING) (MACHINE TOOLS)	15T81A0313-PADIGAPATI RAVINDAR REDDY
		15T81A0316-A VINOD KUMAR
	INTELLIGENT BRAKING SYSTEM USING OBSTACLE	16T85A0302-M ANVESH
6	SENSOR(ROBOTICS)	16T85A0324-B VIKRAM
		16T85A0320-TUMULURI SRIKANTH
	DESIGN AND FABRICATION OF	16T85A0306-DHILEEP KUMAR REDDY NUKA
7	RAILWAY TRACK CRACK DETECTION VEHICLE (Design of	16T85A0311-DANTHURI NIKHIL KUMAR GO
	Machine members-1 DMM-I)	15T81A0304-T B N V KISHORE
		05T81A0305-MOHD FOUZAN AHMED
	FABRICATION OF AUTOMATIC	15T81A0302-VUTHIPALLY ANIL KUMAR
8	FABRICATION OF AUTOMATIC TRACK GUIDED VEHICLE(ROBOTICS)	15T81A0314-GUMMALLA SAI KUMAR
,		15T81A0315-DORNALA VIJAY KUMAR
		16T85A0310-VANKUDOTHU NAVEEN
	FABRICATION OF BATTERY OPERATED POWER WEEDER(MACHINE TOOLS)	16T85A0314-KADIYALA RAVI KIRAN
		16T85A0321-GUDLA SRINIVAS
		10185A0521-00DLA Skiller

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PRINCIPAL Annamacharya Institute o Technology & Sciences Piglipur (V), Betaaingerem (Post) Abdullapurmet (M), R.R. Dist. HYD-501 552

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Accredited by NACC with A Grade, Recognized by UGC with

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PIGLIPUR, BATASINGARAM (V), HAYATH NAGAR (M), R.R.DIST, HYDERABAD

DEPARTMENT OF MECHANICAL ENGINEERING



S. PRINCIPAL Annamacharya Institute o Technology & Sciences m (Post) Pigliour (V)

CERTIFICATE

This is to certify that the project report entitled

"FABRICATION OF MULTI OPERATING MACHINE (CUTTING,GRINDING AND DRILLING)"

being submitted by

BURRI MURALI DASAROJU POORNA CHARY PADIGAPATI RAVINDAR REDDY

ROLL NO:15T81A0307 ROLL NO:15T81A0308 ROLL NO:15T81A0313

In a partial fulfillment for the award of the degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, is a record of bonafide work carried out by them during the academic year 2018-19 under our guidance and

Work carried out of meen		. el
supervision.	HE DEPARTMENT	Nout
M 109		TERNAL EXAMINER
INTERNALIGUIDE	Pigupur (V) B. Sur Jharam (F), M.R. 0.61-501 512	$\left(\right)$
Mr. MD JAVEED	Mr. B JEEVAN KUMAR	
ASST.PROFESSOR	ASST.PROFESSOR	- PINCIPATION INTO OF
MECHANICAL ENGG.	MECHANICAL ENGG.	Annamacharva Institu
MECHANICAL Live of		Technology Batasingar hybrout
AITS,HYD	AITS,HYD	PRINCIPAL Annamacharya Institute of Technology & Scient Piglipur (V), Batasinear with Abdullapurmet (M), Iun. Jun. MULUI -

MAJOR PROJECT REPORT

ON

DESIGN AND FABRICATION OF HIGHWAY WIND TURBINE

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

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

1. MANIR AHMAD KHAN

ROLL NO.15T 81A0301

ROLL NO.14T81A0301

2. MOHD ABDUL MUQEED

3. MOHD RAFEEQ

ROLL NO.15T81A0309

Under of the esteemed guidance of

Mr. M.BHASKAR

Assistant Professor

Dept. of Mechanical Engineering

AITH, Hyderabad.



Submitted to

DEPARTMENTOFMECHANICALENGINEERING

ANNAMACHARYAINSTITUTEOF TECHNOLOGY AND SCIENCE PIGLIPUR, BATASINGARAM (V) HAYATHNAGAR (M), R.R. DIST, HYDERABAD

2015-2019

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PIGLIPUR, BATASINGARAM (V), HAYATNAGAR(M), R.R.DIST HYDERABAD

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled

DESIGN AND FABRICATION OF HIGHWAY WIND TURBINE

being submitted by

1. MANIR AHMAD KHAN

(ROLLNO:15T81A0301)

2.MOHD ABDUL MUQEED

Technology & Sciences

R.R. Dist. HYD-504 552

(ROLL NO:15T81A0309)

(ROLL NO:14T81A0301)

3.MOHD RAFEEQ

in a partial fulfillment of the requirements for the award of the degree of **BACHELOROF TECHNOLOGY** in **MECHANICAL ENGINEERING**, is a record of bonafide work carried out by them during1stJAN 2019 to 25TH APRIL under our guidance and supervision.

GUIDE SIGN HEAD OF DEPARTMENT PRINCIPA e of DEPARTMENT OF MECHANICAL ences baram (Pos Technology 8 Annan Piglipur (V), Batasir Abdullaparmet (M), R.R. (EXTPE AITS-HYDERABAD PRINCIPAL innamacharya Institute o Scanned hy CamScanner

MAJOR PROJECT REPORT

ON

RICATION OF BUTTON OPERATED ELECTROMAGNETIC GEAR SHIFTING & SIDE STAND LIFTING FOR TWO WHEELER"

Submitted in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

GUNDU SAI PRAKASH N.ARUNA BANOTH SHANKAR 16T85A0316 16T85A0303 16T85A0318

Under the esteemed guidance of

P. SRINIVASULU

Assistant Professor,

Dept. of Mechanical Engineering,

AITH, Hyderabad.



Submitted to

DEPARTMENT OF MECHANICAL ENGINEERING ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (Accredited by NACC with A Grade, Recognized by UGC with 2(f) &12(b) &Permanent Affiliation to JNTUH) PIGLIPUR, BATASINGARAM (V), HAYAT NAGAR (M), R.R.DIST, HYDERABAD

> PRINCH'AL Annamacharya Institute o' Technology & Sciences Pigipur (V), Belasingerem (Posi) Abdullapurmet (M), R.R. Dist. MYD-50* 352

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CERTIFICATE

This is to certify that the project report entitled

FABRICATION OF BUTTON OPERATED ELECTROMAGNETIC GEAR SHIFTING & SIDE STAND LIFTING FOR TWO WHEELER"

Being submitted by

GUNDU SAI PRAKASH N.ARUNA BANOTH SHANKAR 16T85A0316 16T85A0303 16T85A0318

In a partial fulfillment of the requirements for the award of the degree of BACHELORE OF CHNOLOGY in MECHANICAL ENGINEERING, is a record of bonafide work carried out by them ring 1stJanuary 2019 to 20thAPRIL 2019 under our guidance and supervision.

TMENT JEEVAN KUMAR 1000 T. . R. D. cl-501 512

sistant Professor, HOD

EPARTMENT OF MECHANICAL

ITS-HYDERABAD

PRINCIPAL

Annamackarya Institute o Technology & Sciences Piglipur (V), Batasingerem (Post) Abdullapurmet (M), R.R. Dist. HYD-50* 582 GUIDE NAME WITH SIGNATURE

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A MAJOR PROJECT REPORT ON "FABRICATION OF POWER GENERATION USING RAILWAY TRACK"

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

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

CH.HARIPRAKASH P.CHANDRASHEKHAR C.ROJA ROLL.NO: 16T85A0308 ROLL.NO: 16T85A0305 ROLL.NO: 16T85A0315

Under the esteemed guidance of

Ms. T. SRIKANTHI

Assistant Professor,

Department. of Mechanical Engineering,

AITS, Hyderabad.



Submitted to

DEPARTMENT OF MECHANICAL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

PIGLIPUR, BATASINGARAM (V), HAYATH NAGAR (M), R.R.DIST, HYDERABAD

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PIGLIPUR, BATASINGARAM (V), HAYAT NAGAR (M), R.R.DIST, HYDERABAD

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled

"FABRICATION OF POWER GENERATION USING RAILWAY TRACK"

Being submitted by -

CH.HARIPRAKASH P.CHANDRASHEKHAR C.ROJA ROLL.NO: 16T85A0308 ROLL.NO: 16T85A0305 ROLL.NO: 16T85A0315

EXTERNAL EXAMINER

In a partial fulfillment of the requirements for the award of the degree of the BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING, JNTUH. Is a record of bonafide work carried out during the academic year 2018-19 under our guidance and supervision.

INTERNAL GUIDE

Ms. T.SRIKANTHI ASSISTANT.PROFESSOR MECHANICAL ENGG. AITS, HYD.

PRINCIPAI innamacharya Institute o Technology & Sciences

Mr. B JEEVAN KUMAR ASSISTANT.PROFESSOR, MECHANICAL ENGG, AITS, HYD.

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E.D.

Annan am (Post). Piglipur (V), Batasing Abdullapurmet (M), R.R.Bizt.HYD.Con

A MAJOR PROJECT REPORT ON "INTILLEGENT UNMANNED ARMY TANK"

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

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

1. MAHESHUNI SHIVA PRASAD

2. KUMMARI MADHAVI

3. JEEDIMADLA RAVI

(ROLL NO:16T85A0319) (ROLL NO:16T85A0309) (ROLL NO:15T81A0312)

Under the esteemed guidance of

Mr. S.SIVA KUMAR

Assistant Professor,

Dept. of Mechanical Engineering,

AITH, Hyderabad.



Submitted to

DEPARTMENT OF MECHANICAL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

I

(Accredited by NACC with A Grade, Recognized by UGC with 2(f)&12(b)&Permanent Affiliation to JNTUH) PIGLIPUR, BATASINGARAM (V), HAYAT NAGAR (M), R.R.DIST, HYDERABAD

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PIGLIPUR, BATASINGARAM (V), HAYAT NAGAR (M), R.R.DIST, HYDERABAD

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled

"INTILLEGENT UNMANNED ARMY TANK"

being submitted by

- 1. MAHESHUNI SHIVA PRASAD
- 2. KUMMARI MADHAVI
- 3. JEEDIMADLA RAVI

(ROLL NO: 16T85A0319) (ROLL NO: 16T85A0309) (ROLL NO:15T81A0312)

in a partial fulfillment of the requirements for the award of the degree of BACHELOR OF

TECHNOLOGY in **MECHANICAL ENGINEERING**, is a record of bonafide work carried out by them during 1st june 2018 to 7th july 2018 under our guidance and supervision.

HEAD OF THE DEPAETMENT	Salary	
B.JEEVAN KUMAR	PRINCIPAL SSIVA KUMAR	
AITS-HYDERABAD	PRINCIPAL Annamacharya Institute 01 Annamacharya Institute 01 Technology C. Sciences Piglipur (V), Batasingarym (Post), Piglipur (V), Batasingarym (Post), EXTERNAL EXAMINER	
PRINCIPAL Annamacbarya Institute of Technology & Sciences Pighur (V), Betasingerem (Post) Abdullapurmet (N), R.R. Dist, MYD-50* 552	11	

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A MAJOR PROJECT REPORT ON "FABRICATION OF BATTERY OPERATED POWER WEEDER"

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

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

1. VANKUDOTHU NAVEEN 2. KADIYALA RAVI KIRAN

3. GUDLA SRINIVAS

(ROLL NO:16T85A0310) (ROLL NO:16T85A0314) (ROLL NO:16T85A0321)

Under the esteemed guidance of

Mr. BHARATH KUMAR

Assistant Professor,

Dept. of Mechanical Engineering,

AITH, Hyderabad.



Submitted to

DEPARTMENT OF MECHANICAL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

1

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Technology & Sciences Piglipur (V), Batasingerem (Post) ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (Accredited by NACC with A Grade, Recognized by UGC with 2(f)&12(b)&Permanent Affiliation to JNTUH) PIGLIPUR, BATASINGARAM (V), HAYAT NAGAR (M), R.R.DIST, HYDERABAD

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled

"FABRICATON OF BATTERY OPERATED POWER WEEDER"

being submitted by

1. VANKUDOTHU NAVEEN

2. KADIYALA RAVI KIRAN

to

3. GUDLA SRINIVAS

(ROLL NO: 16T85A0310) (ROLL NO: 16T85A0314) (ROLL NO:16T85A0321)

in a partial fulfillment of the requirements for the award of the degree of BACHELOR OF

TECHNOLOGY in MECHANICAL ENGINEERING, is a record of bonafide work carried

out by them during

under our guidance and supervision.

MENT 1 Dist-501 512 **BJEEVAN KUMAR**

HEAD OF DEPARTMENT

MECHANICAL

AITS-HYDERABAD

PRINCIPAL Annamacharya Institute o Technology & Sciences Piglipur (V), Bataaingerem (Post) Ilapurmet (M), R.R. Dist. HYD-501 582

GUIDE : BHARAT KUMAR PRINC Annamacharya Inst Technology & science EXTERNAL EXAMINER Piglipur (V), Balasingaram (P Mallepurner (M), R.R.Bist.HVD-501 512.

ll

MAJOR PROJECT REPORT ON

"FABRICATION OF AUTOMATIC TRACK GUIDED VEHICLE"

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

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING Submitted by

MOHD FOUZAN AHMED
 VUTHIPALLY ANIL KUMAR
 GUMMALLA SAI KUMAR
 DORNALA VIJAY KUMAR

Calle.

DEL.

, andres -Station - - - (ROLL NO:15T81A0305) (ROLL NO:15T81A0302) (ROLL NO:15T81A0314) (ROLL NO:15T81A0315)

Under the esteemed guidance of

Mr. KOTRESH MC

Assistant Professor,

Dept. of Mechanical Engineering,

AITH, Hyderabad.



Submitted to

DEPARTMENT OF MECHANICAL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Accredited by NACC with A Grade, Recognized by UGC with

2(f)&12(b)&Permanent Affiliation to JNTUH)

PIGLIPUR, BATASINGARAM (V), HAYAT NAGAR (M), R.R.DIST, HYDERABAD

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PRINCIPAL Annamacharya Institute o Technology & Sciences (V), Betasingerem (Post) (MD, R.R. Dist, MYD-501 552 Pielipur (V), I

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CERTIFICATE

This is to certify that the project report entitled

"FABRICATION OF AUTOMATIC TRACK GUIDED VEHICLE"

Being submitted by

1. MOHD FOUZAN AHMED

2. VUTHIPALLY ANIL KUMAR

3. GUMMALLA SAI KUMAR

4. DORNALA VIJAY KUMAR

(ROLL NO:15T81A0305) (ROLL NO:15T81A0302) (ROLL NO:15T81A0314) (ROLL NO:15T81A0315)

a partial fulfillment of the requirements for the award of the degree of BACHELOR OF

CHNOLOGY in MECHANICAL ENGINEERING, is a record of bonafide work carried out by them

11

ing the academic year 2018-19 under our guidance and supervision.

: B. JEEVAN KUMAR

GUIDE NAME WITH SIGNATURE

Kotresh.M.C. L.C. Kot

AD OF MECHANICAL DEPARTMENT

S-HYDERABAD MEAD OF THE DE 2/ ROMENT Do M. of Miccion of Solar (March 1) Annand Solar (March 1) (March 1) Pignpur (M. Colenki, Januar 1), Solar (March 1)

Annamacharya Institute of Technology & Sciences PRINCIPAL EXTERNAL EXAMINER IECHTIOIOGY & DUEWCED Piglipur (V), Batasingaray (Post), Abdullapurmet (M), R.R.Bist, MD-501 512,

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PRINCIPAL Annamecharya Institute o Technology & Sciences Pigipur (V), Batasingerem (Post)

MAJOR PROJECT REPORT

ON

"DESIGN AND FABRICATION OF RAILWAY TRACK CRACK

DETECTION VEHICLE"

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

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

TUMULURI SRIKANTH T.B.N.V KISHORE DHILEEP KUMAR REDDY NUKALA DANTHURI NIKHIL KUMAR GOUD (ROLL.NO: 16T85A0320) (ROLL.NO: 15T81A0304) (ROLL.NO: 16T85A0306) (ROLL.NO: 16T85A0311)

Under the esteemed guidance of

MR.B.PRAKASH

Assistant Professor,

Department of Mechanical Engineering,

AITS, Hyderabad.



Submitted to

DEPARTMENT OF MECHANICAL ENGINEERING ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES PIGLIPUR, BATASINGARAM (V), HAYATH NAGAR (M), R.R.DIST, HYDERABAD

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND

SCIENCES

PIGLIPUR, BATASINGARAM (V), HAYAT NAGAR (M), R.R.DIST, HYDERABAD

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is to certify that the project report entitled

"DESIGN AND FABRICATION OF RAILWAY TRACK CRACK

DETECTION VEHICLE"

being submitted by

TUMULURI SRIKANTH T.B.N.V KISHORE DHILEEP KUMAR REDDY NUKALA DANTHURI NIKHIL KUMAR GOUD (ROLL.NO: 16T85A0320) (ROLL.NO: 15T81A0304) (ROLL.NO: 16T85A0306) (ROLL.NO: 16T85A0311)

in a partial fulfillment of the requirements for the award of the degree of the BACHELOROF TECHNOLOGY in MECHANICAL ENGINEERING, JNTUH is a record of bonafide work carried out during the academic year 2018-19 under our guidance and supervision

PROJECT GUIDE Mr.B.PRAKASH ASST.PROF. MECHANICAL ENGG. AITS, HYD.

MELAD CHORE DE 22 CEMERA D pt. HTDL and at Cr. (insc. P.) Mr, B. JEEVAN KUMAR 512 ASST.PROF. MECHANICAL ENGG. AITS, HYD.

> PRINCIPAL mamacharya Institute o fechnology & Sciences

EXTERNAL EXAMINER

RINCIPA charya Institute of Technology & Sciences Annama (Post) Plglipur (V), Batasingaran Abdullapumnet (M), R.R.Bist.HYD.501 51

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A Major Project Report On "INTELLIGENT BRAKING SYSTEM USING OBSTACLE SENSOR"

Submitted in partial fulfillment of the requirement For the award of the BACHELOR DEGREE

In

MECHANICAL ENGINEERING

Submitted by

A.VINOD KUMAR -15T81A0316 M.ANVESH-16T85A0302 B.VIKRAM-16T85A0324 Under the esteemed guldance of Mr.B.JEEVAN KUMAR, Assistant Professor, Dept of Mechanical Engineering, AITS, Hyderabad.



Submitted to

Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES Piglipur, Batasingaram (v), Hayathnagar (M), R.R.Dist, Hyderabad

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PRINCIPAL Annamacharya Institute o Technology & Sciences erem (Post) Piglipur (V), B urmet (M), R.R. Dist. HYD-504 552

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2015-2019

DEPARTMENT OF MECHANICAL ENGINEERING ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES Piglipur, Batasingaram (v), Hayathnagar (M), R.R.Dist, Hyderabad



CERTIFICATE

•This is to certify that the project report entitled" INTELLIGENT BRAKING SYSTEM USING OBSTACLE SENSOR" being submitted by

A.VINOD KUMAR -15T81A0316 M.ANVESH-16T85A0302 B.VIKRAM-16T85A0324

In a partial fulfillment of the requirements for the award of degree in MECHANICAL ENGINEERING, is a record of the Bonafide work carried out by them during the academic year 2018-2019 under our guidance and supervision.

<u>Under Guidance</u>

Mr.B.JEEVAN KUMAR

PRINCIPAL nnamackarya Institute c Technology & Sciences

INTERNAL GUIDE

Mr. B. JEEVAN KUMAR D . F Dist-501 512 Just gharan Th Annaira Piglipur (Vi. L EXTERNALEXAMINER

Head of the Department

PRINCIPAL Annamacharya Institute Technology & Science Technology & Sciences Piglipur (V), Batasingaram (Post), Abdullapumet (M), R.R.Bist.IVD/01 512.

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Α MAJOR PROJECT REPORT ON **"FABRICATION OF MULTI OPERATING MACHINE** (CUTTING, GRINDING AND DRILLING)"

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

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

BURRI MURALI

ROLLNO:15T81A0307 ROLLNO:15T81A0308 ROLLNO:15T81A0313

DASAROJU POORNA CHARY

PADIGAPATI RAVINDAR REDDY

Under the esteemed guidance of

Mr. MD JAVEED

Assistant Professor,

Department of Mechanical Engineering,

AITS, Hyderabad.



Submitted to

DEPARTMENT OF MECHANICAL ENGINEERING ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Accredited by NACC with A Grade, Recognized by UGC with

2(f)&12(b)&Permanent Affiliation to JNTUH)

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PIGLIPUR, BATASINGARAM (V), HAYATH NAGAR (M), R.R.DIST,

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PRINCIPAL Annamacharya Institute o Technology & Sciences Piglipur (V), Batasingeram (Post) Abdullapurmet (M), R.R. Dist. HYD-504 552

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, Hyderabad, R.R. Dist. 501 512. (Approved by AICTE, Recognized by the GOVT. of T.S., Permanent Affiliation from JNTUH, Hyderabad.) Accredited by "NAAC" with "A" Grade, Recognized by UGC Under Section 2(f) and 12(B).

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DEPARTMENT OF MECHANICAL ENGINEERING LIST OF STUDENTDS UNDERTAKING PROJECT WORK (AY 2019-20)

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S NO	STUDENT ROLL NUMBER AND NAME	_
1	16T81A0302₌MITTA AKHIL	
2	16T81A0303-ALOK KUMAR JHA	
3	16T81A0305-D ARAVIND KUMAR	
4	16T81A0308-SHAIK HAFEEZ	
5	16T81A0312-K NARSIMHA REDDY	
6	16T81A0315-KOLLI PRADEEP KUMAR	
7	16T81A0316-ANUPA RAMKUMAR	
8	16T81A0318-PESHETTI SAIROHITH	
9	16T81A0319-BANDHAM SAITEJA	
10	16T81A0320-GUNDLAPALLY SANDEEP	
11	16T81A0324-S SRIDHAR REDDY	
12	16T81A0325-NALAJALA UDAY KIRAN	
13	16T81A0326-S VENKATESH	
14	16T81A0327-PUSHKAR DEV	
15	16T85A0317-A SATISH KUMAR	
16	17T85A0301-NADIMI DODDI BHEEMAIAH	
17	17T85A0302-ESARI MALLESH	_
18	17T85A0303-BUTTA NAGARAJU	
19	17T85A0304-ENUMULA NAGARAJU	_
20	17T85A0305-N NAGARAJU	_
21	17T85A0306-UDEM NIKIL REDDY	
22	17T85A0307-PANJAGULA PRASAD	
23	17T85A0308-MANTRALA PRASHANTH	
24	17T85A0309-J RAMESH	
25	17T85A0310-YARRA RAMYA	
26	17T85A0311-RAGULA RAVITEJA	
20	17T85A0312-MANDAVA SAI TEJ	
28	17T85A0313-VEMULA SAIDA RAO	Τ
29	17T85A0314-MUDOJI SRINIVAS	\downarrow
30	17T85A0315-BAJAM VIJAY	┢
31	17T85A0316-KOTI VIJAY KUMAR	\vdash
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PRINCIPAL Annamacharya Institute o Technology & Sciences Pighpur (V), Betaaingerem (Post) Abdullapurmet (M), R.R. Dist. HYD-501 552

AL Annamacharya Institute of PRINCI Technology & Sciences Piglipur (V) Betasingarom (Post), Abdullapurmet (W), CIPALL HYO 501 512.

MAJOR Project Report on "HYBRID POWER GENERATION USING SOLAR, WIND AND PIEZOELECTRIC ENERGY SOURCE"

Submitted to

Α

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD In Partial fulfillment of the Requirement for the Award of the degree of BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING Submitted

By

ALOK KUMAR JHA 16T81A0303 P. SAI ROHITH 16T81A0318 MUDOJI SRINIVAS 17T85A0314

> Under The Esteemed Guidance Of MR. B. PRAKASH(M.TECH) ASSISTANT PROFESSOR

MECHANICAL DEPARTMENT



Department of Mechanical Engineering ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE Hayathnagar (M), R.R(D), Hyderabad-501512 (Affiliated to JNTU, Hyderabad) 2016-2020

PRINCIPAL Annamacharya Institute o

Technology & Sciences Piglipur (V), Betasingeram (Post) Abdullapurmet (M), R.R. Dist. HYD-501 5%



Department of Mechanical Engineering Annamacharya Institute Of Technology and Sciences-Hyderabad (Accredited By NAAC With A Grade, recognized by UGC With 2(f)& 12(b)&permanent Affiliated to JNTUH)

08415-201689, website:aits-hyd.org, E-mail:principalaith@gmail.com

Date:

CERTIFICATE

This is to certify that the major project report entitled "HYBRID POWER GENERATION

USING SOLAR, WIND AND PIEZOELECTRIC ENERGY SOURCE"

submitted by

ALOK KUMAR JHA(16T81A0303),

P. SAI ROHITH (16T81A0318),

MOUDOJI SRINIVAS(17T81A0314)

in partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL

ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide work

carried out by them under my guidance and supervision.

MR B. PRAKASH Assistant Professor (Project Guide)

PRINCIPAL Annamacharya Institute of Technology & Sciences Piglipur (V), Bataaingerem (Post) Illapurmet (M), R.R. Dist. HYD-501 5%

EXTERNAL EXAMINER

MR. B. JEEVAN KUMAR Head of the Department HEAD OF THE DE T RIMENT Dipt. of Mechanics It linearing Annamachary i Institute of Techn. for y D.S. c. Piglipur (V), Balacic human (F), J.F. Dat-Sci 512

PINCIP

Annamacharya Institute of Technology & Sciences Piglipur (V), Batasingaram (Post), Abdullapurmet (M), R.R.Bist.HVD-501 512.

MAJOR PROJECT REPORT ON "PIPE LINE INSPECTION ROBOT"

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

Submitted

By

K.PRADEEP KUMAR

A.RAM KUMAR

B.SAI TEJA

16T81A0316 16T81A0319

16T81A0315

Under The Esteemed Guidance Of

Mr.MD JAVEED

ASST.PROFESSOR

MECHANICAL DEPARTMENT



Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

(Affiliated to JNTU, Hyderabad &NAAC "A"GRADE)

Hayathnagar (M), R.R(D), Hyderabad-501512

2016-2020

i PRINCIPAL Annamacharya Institute o Technology & Sciences R.R. Dist. MYD-501 593 Piglipur (V).



Department of Mechanical Engineering

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08415-201689, website: aits-hyd.org, E-mail: principalaith@gmail.com

Date:

CERTIFICATE

This is to certify that the project report entitled

"PIPE LINE INSPECTION ROBOT"

submitted by

K.PRADEEP KUMAR

A.RAM KUMAR

B.SAI TEJA

16T81A0319

16T81A0315

16T81A0316

In partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING under Jawaharlal Nehru Technological University is a report of bonafide work carried out by them during the academic year 2016-2020 under my guidance and supervision.

EXTERNAL EXAMINER

ii

PROJECT GUIDE Mr.MD JAVEED

PRINCIPAL Annamackarya Institute of Technology & Sciences Piglipur (V), Batasingeram (Post) Abdullapurmet (M), R.R. Dist. MYD-50* 352

HEAD OF THE DEPARTMENT Mr.B.JEEVAN KUMAR

HE D Dupl -Anna acha : Piglipur (V) B PRINCIPA titute of Annamacharyath Technology & fien Abdullapurmat (1.1), R.R.Dist.HYD.501 \$12 Piglipur (V), Batasingarani (

A Major Project Report on

"DESIGN AND FABRICATION OF SHAFT DRIVEN BICYCLE

"

Submitted in the Partial Fulfillment of the Requirements

For the Award of the Degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

Submitted

By

UDEM NIKHIL REDDY

(17T85A0306)

PANJUGULA PRASAD

(17T85A0307)

ENUMULA NAGARAJU

(17T85A0304)

Under The Esteemed Guidance Of

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M.TECH

ASST.PROFESSOR

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Department of Mechanical Engineering

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Hayathnagar (M), R.R(D), Hyderabad-5015

(Affiliated to JNTU, Hyderabad)

[2016-2020]

PRINCIPAL

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Department of Mechanical Engineering Annamacharya Institute of Technology and Sciences-Hyderabad

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CERTIFICATE

This is to certify that project title "DESIGN AND FABRICATION OF SHAFT DRIVEN BICYCLE" is a bonafide work carried over by

UDEM NIKHIL REDDY(17T85A0306)PANJUGULA PRASAD(17T85A0307)ENUMULA NAGARAJU(17T85A0304)

In partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineering from Jawaharlal Technology University, Hyderabad (academic year 2016-2020).

External-Examiner

Mr. BHARATH KUMAR

Internal Guide

PRINCIPAL

Annamacharya Institute of Technology & Sciences Piglipur (V), Batasingaram (Post), Abdullapurmat (M), R.R.Dist.HYD-501 512

Mr. B.JEEVAN KUMAR

Head of Department of ME

PRINCIPAL Annamacharya Institute o Technology & Sciences Piglipur (V), Bataaingerem (Post) Ilapurmet (M), R.R. Dist. HYD-501 5%

MAJOR PROJECT REPORT ON "FABRICATION OF ELECTRICAL POWER GENERATION FROM SPEED BREAKER USING RACK AND PINION MECHANISM" Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

Submitted

By

VEMULA SAIDARAO

BAJAM VIJAY

17T85A0313

17T85A0315

GUNDLAPALLY SANDEEP REDDY 16T81A0320

Under The Esteemed Guidance Of

MR. R.UPENDAR

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Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

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2016-2020

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Department of Mechanical Engineering

Annamacharya Institute of Technology and Sciences-Hyderabad

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Date:

CERTIFICATE

This is to certify that the project report entitled

"FABRICATION OF ELECTRICAL OWER GENERATION FROM SPEED BREAKER USING RACK AND PINION MECHANISM"

submitted by

VEMULA SAIDARAO	17T85A0313
BAJAM VIJAY	17T85A0315
GUNDLAPALLY SANDEEP REDDY	16T81A0320

In partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING under Jawaharlal Nehru Technological University is a report of bonafide work carried out by them during the academic year 2016-2020 under my guidance and supervision.

MR.R. UPENDAR PROJECT GUIDE

RIMENT Dept. of Miccoanica 10.001 AMR.B.JEEVAN KUMAR 512

HEAD OF THE DEPARTMENT

EXTERNAL EXAMINER

PRI namecharva Institute c ology & Sciences

PRINCIPAL Annamacharya Institute of Technology & Sciences Piglipur (V), Batasingaram (Post), Abdullapurmet (MI), R.R.Bist.HYD-501 512.

A Major Project Report On "Automatic Gear Shifting"

Submitted in the Partial Fulfillment of the Requirements

For the Award of the Degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

Submitted

By

S. SRIDHAR REDDY

16T81A0324

N. NAGARAJU

17T85A0316

KOTI VIJAY KUMAR

Under The Esteemed Internal Supervisor Of

MR. SAYANNA

M.TECH.(PH.D),LLB.

ASST.PROFESSOR

IN

MECHANICAL DEPARTMENT



Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

Hayathnagar (M), R.R (D), Hyderabad-501512

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Department of Mechanical Engineering

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This is to certify that project title "AUTOMATIC GEAR TRANSMISSION" is a bonafide work carried over by

S. SRIDHAR REDDY

16T81A0324

N. NAGARAJU

KOTI VIJAY KUMAR

17T85A0305

17T85A0316

In partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineering from Jawaharlal Technology University, Hyderabad (academic year 2019-2020).

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PRINCIPAL

Annamacharya Institute of Technology & Sciences Piglipur (V), Batasingaram (Post), Abdullapurmet (M), R.R.Bist.HYU-501 512,

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HEIAD OF THE DEPARTMENT Dept. of Mechanical Engineering Annamacharya Institute of Technology 4.5 clinices Piglipur (V), Balack charan (F), R.R. Dist-501 512

A Major Project Report

On

SOLAR POWERED AUTOMATED IRRIGATION WATER PUMP CONTROLLER WITH VOLTAGE PLOT ON MATLAB "

Submitted in the Partial Fulfillment of the Requirements

For the Award of the Degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

Submitted

By

SANDAPUR VENKATESH	16T81A0326

17T85A0311 **RAGULA RAVITEJA**

17T85A0312 MANDAVA SAITEJA

Under The Esteemed Guidance Of

MR JAVEED

M.TECH

ASST.PROFESSOR

MECHANICAL DEPARTMENT



Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

Hayathnagar (M), R.R(D), Hyderabad-501512

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PRINCIPAL Annamacharya Institute of Technology & Sciences

Piglipur (V), Betasingerem (Post) Abdullapurmet (M), R.R. Dist. HYD-504 5%



Department of Mechanical Engineering

Annamacharya Institute of Technology and Sciences-Hyderabad

(Accredited by NAAC with 'A' Grade, recognized by UGC with 2(f) & 12(b) & permanent Affiliation to JNTUH)

08415-201689, website: aits-hyd.org, E-mail: principalaith@gmail.com

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This is to certify that project title "Design And Analysis Of V6 Engine Piston" is a bonafide work carried over by

SANDAPUR VENKATESH	16T81A0326
RAGULA RAVITEJA	17T85A0311
MANDAVA SAITEJA	17T85A0312

In partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineerin from Jawaharlal Technology University, Hyderabad (academic year 2017-2018).

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ACKNOWLEDGMENT

he successful completion of any tasks would be in complete without the monition of the people who made it possible v onstant guidance and encouragement crowns all the efforts with success.

Ve take this opportunity to express my gratitude to all those who helped me to carry out this project successfully. We exprise y profound gratitude for their valuable guidance and support. We owe my sincere gratitude to our principal **Dr P.V.KRISH IURTHY** and also to our college committee members for giving their encouragement that helped me to complete the project successfully.

PRINCIPAL nnamecharva institute o Technology & Sciences

arya Infititate of Der & Sciences Balasingeram (Post), andullapurmat (M), R.R.Bist.HYD501 512 Scanned with CamScanner

A MAJOR PROJECT REPORT ON "CFD FLOW ANALYSIS OF A REFRIGERANT INSIDE ADIABATIC CAPILLARY TUBE" Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

Submitted

By K.NARSHIMHA REDDY 16T81A0312

N.UDAY KIRAN 16T81A0325

E.MALLESH 17T85A0302

Under The Esteemed Guidance Of

MR. SRINIVASULU ASST.PROFESSOR MECHANICAL DEPARTMENT



Department of Mechanical Engineering ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE (Affiliated to JNTU, Hyderabad &NAAC "A"GRADE) Hayathnagar (M), R.R(D), Hyderabad-501512 2016-2020

PRINCIPAL Annamacharya Institute o Technology & Sciences Piglipur (V), Batasingeram (Post) Ilanumet (M), R.R. Dist. HYD-504 552



Department of Mechanical Engineering Annamacharya Institute of Technology and Sciences-Hyderabad (Accredited by NAAC with 'A' Grade, recognized by UGC with 2(f) & 12(b) & permanent Affiliation to JNTUH) 08415-201689, website: aits-hyd.org, E-mail: principalaith@gmail.com Date:

CERTIFICATE

This is to certify that the project report entitled "CFD FLOW ANALYSIS OF A REFRIGERANT INSIDE ADIABATIC CAPILLARY TUBE" submitted by

K.NARASHIMHA N.UDAY KIRAN E.MALLESH

16T81A0312 16T81A0325 17T85A0302

In partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING under Jawaharlal Nehru Technological University is a report of bonafide work carried out by them during the academic year 2016-2020 under my guidance and

supervision.

MR.SRINUVASULU PROJECT GUIDE

MR.B. TEEVAN KUMAR
HEAD OF THE DEPARTMENT
HEAD
Dept. or in a character (
Annamachany :
Pigilper (V). Balasia (na Len F), R. R. Dict-501 512

EXTERNAL EXAMINER

PRINCIPAL Annamacharya Institute of Technology & Sciences Piglipur (V), Betasingerem (Post) Abdullapurmet (M), R.R. Dist. HYD-501 552

nnamacharya Institute of Technology & Sciences Piglipur (V), Batasingaram (Post), Abdullapurmat IMF, P.R.Bist, HYD-501 512.

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MAJOR PROJECT REPORT

"SOLAR BASED AIR COMPRESSOR PUMP FOR CAR, BIKE TIRE INFLATE"

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

ln

MECHANICAL ENGINEERING

Submitted

By

16T81A0308 SHAIK HAFEEZ

17T85A0301 NADIMIDODDI BHEEMAIAH

J RAMESH

17T85A0309

Under The Esteemed Guidance Of

Ms T SRIKANTHI

ASST.PROFESSOR

MECHANICAL DEPARTMENT



Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

(Affiliated to JNTU, Hyderabad &NAAC "A"GRADE)

Hayathnagar (M), R.R(D), Hyderabad-501512.

2016 - 2020

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PRINCIPAL Annamacharya Institute o Technology & Sciences pur (V), Bataaingeram (Post) met (M), R.R. Dist. HYD-501 502 Piglipur (V), Bal



Department of Mechanical Engineering

Annamacharya Institute of Technology and Sciences-Hyderabad

(Accredited by NAAC with 'A' Grade, recognized by UGC with 2(f) & 12(b) & permanent Affiliation to JNTUH)

08415-201689, website: aits-hyd.org, E-mail: principalaith@gmail.com

Date

CERTIFICATE

This is to certify that the project report entitled

"Solar based air compressor pump for car, bike tire inflate"

Submitted by

SHAIK HAFEEZ 16T81A0308

NADIMIDODDI BHEEMAIAH 17T85A0301

J RAMESH

In partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING under Jawaharlal Nehru Technological University is a report of bonafide work carried out by them during the academic year 2016-2020 under my guidance and supervision.

T. Sinew

Ms.T SRIKANTHI PROJECT GUIDE

MR.B JEEVAN KUMAR HEAD OF THE DEPARTMENT

17T85A0309

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EXTERNAL EXAMINER

2

PRINCIPAL Annamacharya Institute o Technology & Sciences ram (Post) Piglipur (V) met (M), R.R. Dist. MYD-501 522

Annamacharya PRINCIP Technology & Sciences Pielpur (V), Balagi Agaram (Post), Abdullapsemot Mar. R.A.Bist.HYD-501 512.

A Major Project Report

"Electricity Generation Through Radiator Heat" (BATCH:5)

Submitted in the Partial Fulfillment of the Requirements

17T85A0303

16T81A0305

For the Award of the Degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

Submitted

By

BUTTA NAGARAJU

MANTHRALA PRASHANTH REDDY 17T85A0308

DILLI ARAVIND KUMAR

Under The Esteemed Guidance Of

MR S SIVA KUMAR

ASST.PROFESSOR

MECHANICAL DEPARTMENT



Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCE

Hayathnagar (M), R.R(D), Hyderabad-501512

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i

PRINCIPAL Annamacharya Institute of

Technology & Sciences

Piahour (V). B

erem (Post)

R.R. Dist. HYD-504 555



Department of Mechanical Engineering

Annamacharya Institute of Technology and Sciences-Hyderabad

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08415-201689, website: aits-hyd.org, E-mail: principalaith@gmail.com

Date:....

CERTIFICATE

This is to certify that project title "Electricity Generation Through Radiator Heat" is a bonafied work carried over by

BUTTA NAGARAJU

17T85A0303

MANTHRALA PRASHANTH REDDY 17T85A0308

DILLI ARAVIND KUMAR

16T81A0305

In partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Mechanical Engineering from Jawaharlal Technology University, Hyderabad (academic year 2019-2020).

Internal Guide

PRINCIPAL Annamacharya Institute o

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Head of Department of ME

DOF THE DI ARTMENT Strategionics in plan ing Annume instruction Technicony concernies Piglipur (V), de chiligna can (T), inclusioni 512

ii

External-Examiner

Annamacharya Institute of PRINCIPA Technology & Sclences Piglipur (V). Bataambaram (Por Abdullapurmet (M), R.R. Dist.HYD.E01 512.



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur (V), Batasingaram (Post), Abdullapurmet(M), R R.Dist., Hyderabad-501512.

(Approved by AICTE, Recognized by the GOVT.of T.S., Permanent Affiliation from JNTUH, Hyderabad.)

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	DEPARTMENT (OF MECHANICA	L ENGINEERING	
	MA	JOR-PROJECT 202	20-21	
S.NO.	TITLE	GUIDE	ВАТСН	H.T NUMBER
	DEGNIC AND OPTHICATION OF HIGH OPED		M.SRAVAN KUMAR	18T85A0318
1	MOTORISED SPINDLE	R. UPENDHAR	B.MAHESH	18T85A0307
			K.HARI KIRAN	17T81A0302
			L.SAI ESHWAR	18T85A0317
1 DESING AND OPTIMISATION OF HIG MOTORISED SPINDLE DESING AND ANALYSIS OF AIRCRA		C CRIA ZIRAAD	V.MUKESH	18T85A0308
2	WITH RIBS AND SPARS USING COMPOSTIE MATERIALS	S.SIVA KUMAR	SREEMAN	18T85A0319
	MATERIALS		P.NAGARAJU	16T81A0311
			S.PAVAN KUMAR	18T85A0312
3	MODELIING AND ANALYSIS OF A ROCKET	BHARAT	G.VAMSHI KUMAR	18T85A0320
3	BASED COMBINED CYCLE ROCKET NOZZLE	KUMAR	N.NAVEEN KUMAR	17T81A0303
			K.PRASANTH	18T85A0313
			K.MUTHYALA RAO	18T85A0309
4	MODELING AND ANALYSIS OF GAS TURBINE	P.SRINIVASALU	M.VAMSHI DEVA	18T85A0321
4	COMBUSTION CHAMBER	P.SKINIVASALU	D. SAI KUMAR	18T85A0316
			P.SHEKAR	16T81A0322
	EADDICATION AND TECTING OF EDOXX DEGIN		S. ADITHYA RAJ	18T85A0301
5	FABRICATION AND TESTING OF EPOXY RESIN BASED GLASS FIBRE COCONUT FIBRE	B.PRAKESH	A.V.YASHWANTH	17T81A0308
5	COMPOSITES USING HAND LAYUP METHOD	B.PRAKESH	B.SANDEEP KUMAR	17T81A0306
			A.ADITYA	16T85a0301
			A.ANIL KUMAR	17T81A0301
6	FABRICATION OF SEMI AUTOMATIC GEAR	MD JAVEED	D. BALA GANESH	18T85A0302
6	SHIFTING MECHANISM		R.OM PRAKESH	18T85A0311
			A.AJAY KIRAN	16T81A0301
			V.BHARGAV	18T85A0303
7	DESIGN AND ANALYSIS OF COMPOSITE	T.SRIKANTHI	B.NARESH BABU	18T85A0310
,	MATERIALS FOR PROPELLER IN AIR CRAFT		K.PRAVEEN	18T85A0314
			SAI RAJESH	16T81A0317

HEAD OF THE DEPARTMENT Dept. of Mccranteal Engineering Annameharya Institute of Technilogy 3 Statiante Piglipur (V). Balesingharam (P), e.R. Dist-Sot Site

PRINCIPAL Annamacharya Institute o'

Technology & Sciences Pigipur (V), Batasingerem (Post) Abdullapurmet (M), R.R. Dist. HYD-501 552

MAJOR PROJECT REPORT

ON

"DESIGN AND OPTIMIZATION OF HIGH-SPEED MOTORIZED SPINDLE"

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

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEER

Submitted by

BAKKY MAHESH(ROLL NO: 18T85A307)MAMINDLA SRAVAN KUMAR(ROLL NO: 18T85A0318)KATAM HARI KIRAN(ROLL NO: 17T81A0302)

Under the esteemed guidance of

Mr. R. UPENDAR

Assistant Professor

Dept of Mechanical Engineering

AITH, Hyderabad.





Submitted to

Department of Mechanical Engineering ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Piglipur, Batasingaram (v), Hayat Nagar (M), R.R. Dist., Hyderabad

2018-2021

DEPARTMENT OF MECHANICAL ENGINEERING ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Piglipur, Batasingaram (v), Hayat Nagar (M), R.R. Dist., Hyderabad



CERTIFICATE

This is to certify that the project report entitled "DESIGN AND OPTIMIZATION OF HIGH-SPEED MOTORIZED SPINDLE" being submitted by

- **1. BAKKY MAHESH**
- 2. MAMINDLA SRAVAN KUMAR
- 3. KATAM HARI KIRAN

(ROLL NO: 18T85A307) (ROLL NO: 18T85A0318) (ROLL NO: 17T81A0302)

in a partial fulfilment of the requirements for the award of degree in **MECHANICAL ENGINEERING**, is a record of the Bonafede work carried out by them during the academic year **2020-2021** under our guidance and supervision.

Under Guidance

Mr. R. UPENDAR

PRINCIPAL Annamacharya Institute o Technology & Sciences Pighpur (V), Batasingerem (Post) Abdullapurmet (M), R.R. Dist. MYD-501 552

Head of the Department

Mr. JEEVAN

HEAD OF THE DEPARTMENT Dept of Mcchanical Engineering Annamacharya Institute of Technikogy 3 Sciences Piglipur (V). Balasingharam (P), R.R. Diob501 512

Α

Major Project Report

On

Submitted to

DESIGN AND FINITE ANALYSIS OF AIRCRAFT WITH RIBS AND SPAR **USING COMPOSITE MATERIALS**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

Bv

VELKATURI MUKESH-18T85A0308

LATCHIPATULA SAI ESWAR RAO-18T85A0317

CHERUKURI SREEMAN-18T85A0319

P.NAGARAJU-16T81A0311

Under the esteemed guidance of

Mr. S. SIVA KUMAR

M.TECH

Assistant Professor

MECHANICAL DEPARTMENT



Department of Mechanical Engineering

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Hayathnagar (M), R.R(D), Hyderabad-501512

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NA PRINCIPAL nnamacharva Institute o & Sciences

m (Post)



Department of mechanical Engineering Annamacharya Institute Of Technology and Sciences-Hyderabad

(Accredited By NAAC With A Grade, recognized by UGC With 2(f)& 12(b)&permanent Affiliation to JNTUH)

08415-201689, website:aits-hyd.org, E-mail:principalaith@gmail.com

Date:

CERTIFICATE

This is to certify that the project report entitled

"DESIGN AND FINITE ANALYSIS OF AIRCRAFT WITH RIBS AND SPAR USING COMPOSITE MATERIALS"

submitted by

VELKATURI MUKESH-18T85A0308, CHERUKURI SREEMAN-18T85A0319
LATCHIPATULA SAI ESWAR RAO-18T85A0317,P.NAGARAJU-16T81A0317
in partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL
ENGINEERING to Jawaharlal Nehru Technological University is a report of
bonafide work carried out by them under my guidance and supervision.

shirle bother

Mr.S. SIVA KUMAR

Assistant Professor

Project Guide

PRINCIPAL Annamacbarya Institute of Technology & Sciences Pighour (V), Batasingerem (Post) bdullapurmei (M), R.R. Dist, HYD-501 552

Mr.B.JEEVAN KUMAR

Head of the Department

HEAD OF THE DEPARTMENT Dept of Mechanical Engineering Annamacharya Institute of Technicory 3 Sciences Piglipur (V). Balesingheram (P), R.R. Dist-Sot 512

EXTERNAL EXAMINER

Α

Major Project Report

On

MODELING AND ANALYSIS OF A ROCKET BASED COMBINED

CYCLE ROCKET NOZZLE

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

By

SATHURIPAVAN KUMAR	18T85A0312
KUNAPRASHANTH	18T85A0313
GATTU VAMSHI KUMAR	18T85A0320
NAGOLU NAVEEN REDDY	17T81A0303

Under the esteemed guidance of BHARATH KUMAR M.TECH Assistant Professor MECHANICAL DEPARTMENT

PRINCIPAL Innamacharya Institute o

Annamackarya Inserute o Technology & Sciences Pigipur (V), Batasingerem (Post) bdullapurmet (M), R.R. Dist. HYD-50* 555



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Date:

CERTIFICATE

This is to certify that the project report entitled" MODELING AND ANALYSIS OF A ROCKET BASED COMBINED CYCLE ROCKET NOZZLE "submitted by

NAGOLU NAVEEN REDDY	17T81A0303
SATHURIPAVAN KUMAR	18T85A0312
KUNAPRASHANTH	18T85A0313
GATTU VAMSHI KUMAR	18T85A0320

in partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide work carried out by them under my guidance and supervision.

thavaus

BHARATH KUMAR Assistant Professor Project Guide

PRINCHPAL Annamacharya Institute of Technology & Sciences Pighpur (V), Belasingerem (Post) Abdullapurmet (M), R.R. Dist. HYD-50* 552

Mr.B.JEEVAN KUMAR

Head of the Department

HEAD OF THE DEPARTMENT Dopt of Micrianical Engineering Annametrarya Institute of Technifory 3 Sciences Pigliour (V). Balesingheran (P), R.R. DiskSon Sta

EXTERNAL EXAMINER

A Major Project Report

On

DESIGN AND ANALYSIS OF GAS TURBINE COMBUSTION

CHAMBER

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

By

MUNGARA VAMSI DEVA	18T85A0321
KOVVALI MUTHYALA RAO	18T85A0309
DHARAVATH SAI KMAR	18T85A0316
P SHEKAR	16T81A0322

Under the esteemed guidance of Mr.P.SRINIVASULU M.TECH

Assistant Professor

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Date:

CERTIFICATE

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

GAS TURBINE AND COMBUSTION CHAMBER" submitted by

MUNGARA VAMSI DEVA-18T85A0321,

KOVVALI MUTHYALA RAO-18T85A0309,DHARAVATH SAI KUMAR-18T85A0316,P SHEKAR-16T81A0322

in partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL

ENGINEERING to Jawaharlal Nehru Technological University is a report of

bonafide work carried out by them under my guidance and supervision.

P Scenivazulu

Mr.P.SRINIVASULU Assistant Professor Project Guide

Nr() PRINCIPAL Annamacharya Institute o Technology & Sciences Piglipur (V), Batasingerem (Post) Illapurmet (M), R.R. Dist. HYD-504 5%

Mr.B.JEEVAN KUMAR

Head of the Department

HEAD OF THE DEPARTMENT Dept. of Micrianical Engineering Annamacharya Institute of Technilony 3 Stockauts Piglipur (V). Balesingheram (P), R.R. Distort 512

EXTERNAL EXAMINER

А

Major Project Report

On

FABRICATION AND TESTING OF EPOXY RESIN BASED GLASS FIBRE COCONUT FIBRE COMPOSITES USING HAND LAYUP METHOD

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

By

S. ADITHYA RAJ	(18T85A0301)
A.V.YASHWANTH	(17T81A0308)
BATTULA SANDEEP	(17T81A0306)
R. ADITHYA	(16T85A0301)

Under the esteemed guidance of

Mr. B. PRAKASH **M.TECH Assistant Professor MECHANICAL DEPARTMENT**

PRINCIPAL Annamacharya Institute o

Technology & Sciences /), Batasingerem (Post) (M), R.R. Dist. HYD-504 5% natiour (V), E



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Date:

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This is to certify that the project report entitled "FABRICATION AND TESTING OF EPOXY RESIN BASED GLASS FIBRE COCONUT FIBRE COMPOSITES USING HAND LAYUP METHOD" submitted by

S. ADITHYA RAJ	(18T85A0301)
A.V.YASHWANTH	(17T81A0308)
BATTULA SANDEEP	(17T81A0306)
R. ADITHYA	(16T85A0301)

In partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide work carried out by them under my guidance and supervision.

(Prulles Look)

Mr. B. PRAKASH Assistant Professor Internal Guide

PRINCIPAL Annamacharya Institute o

Technology & Sciences Pighpur (V), Batasingeram (Post) Abdullapurmet (M), R.R. Dist. HYD-50* 552

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Head of the Department

HEAD OF THE DEPARTMENT Dopt of Microanical Engineering Annamacharya Institute of Tochnikory 3 Sciences Piglipur (V). Balesingharam (P), R.R. Dio-501 512

EXTERNAL EXAMINER

A MAJOR PROJECT REPORT ON "ELECTROMAGNETIC GEAR SHIFTING MECHANISM IN TWO WHEELERS"

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOROFTECHNOLOGY In MECHANICALENGINEER Submitted by

R.OM PRAKASH A. ANIL KUMAR D. BALA GANESH K. AJAY KIRAN REDDY (ROLL NO: 18T85A0311) (ROLL NO: 17T81A0301) (ROLL NO: 18T85A0302) (ROLL NO: 16T81A0301)

Under the esteemed guidance of

Mr. MD. JAVEED

M.TECH

Assistant Professor

Dept of Mechanical Engineering,



PRINCIPAL Annamacharya Institute o Technology & Sciences m (Post) Pigliour (V),

HYD-504 585

Submitted to

Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Piglipur, Batasingaram (v), Hayat Nagar (M), R.R. Dist., Hyderabad

2018-2021

DEPARTMENT OF MECHANICAL ENGINEERING ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Piglipur, Batasingaram (v), Hayat Nagar (M), R.R. Dist., Hyderabad



CERTIFICATE

This is to certify that the project report entitled **"ELECTROMAGNETIC GEAR SHIFTING MECHANISM IN TWO WHEELERS"** being submitted by

> R.OM PRAKASH A. ANIL KUMAR D. BALA GANESH K. AJAY KIRAN REDDY

(ROLL NO: 18T85A0311) (ROLL NO: 17T81A0301) (ROLL NO: 18T85A0302) (ROLL NO: 16T81A0301)

in a partial fulfilment of the requirements for the award of degree in MECHANICAL ENGINEERING, is a record of the Bonafede work carried out by them during the academic year 2020-2021 under our guidance and supervision.

Under Guidance

Mr. MD. JAVEED

W Javed

PRINCIPAL Annamacharya Institute o Technology & Sciences Piglipur (V), Batasingerem (Post) ultanurmet (M), R.R. Dist. HYD-504 552

Head of the Department

Mr. JEEVAN

HEAD OF THE DEPARTMENT Dept. of Mechanical Engineering Annamediarya Institute of Technilory 3 Sciences Piglipur (V). Baleslegharan (P), R.R. 0(1):501 512

А

Major Project Report

On

Submitted to

DESIGN AND ANALYSIS OF COMPOSITE MATERIAL FOR PROPELLER IN AIR CRAFTS

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

By

VANAM BHARGAV-18T85A0303

BANOTH NARESH BABU-18T85A0310

KORLAKUNTA.PRAVEEN-18T85A0314

SHEKAR SAI RAJESH-16T81A0317

Under the esteemed guidance of

Miss.T.SRIKANTHI

M.TECH

Assistant Professor

MECHANICAL DEPARTMENT



Department of Mechanical Engineering

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Hayathnagar (M), R.R(D), Hyderabad-501512

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Nr() PRINCIPAL

Annameckarya Institute o Technology & Sciences Piglipur (V), Batasingerem (Post) Adullanurmet (M), R.R. Dist. HYD-501 552



Department of mechanical Engineering Annamacharya Institute Of Technology and Sciences-Hyderabad

(Accredited By NAAC With A Grade, recognized by UGC With 2(f)& 12(b)&permanent Affiliation to JNTUH)

08415-201689, website:aits-hyd.org, E-mail:principalaith@gmail.com

Date:

CERTIFICATE

This is to certify that the project report entitled " DESIGN AND ANALYSIS OF COMPOSITE MATERIAL FOR PROPELLER IN AIR CRAFTS" submitted by VANAM BHARGAV-18T85A0303, BANOTH NARESH BABU-18T85A0310, K.PRAVEEN-18T85A0314, SHEKAR SAI RAJESH-16T81A0317 in partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide work carried out by them under my guidance and supervision.

Srikanth

Miss.T.SRIKANTHI Assistant Professor Project Guide

PRINCIPAL

Annameckarya Institute oʻ Technology & Sciences Piglipur (V), Betasingerem (Post) abdullapurmet (M), R.R. Dist. MYD-50* 552

Mr.B.JEEVAN KUMAR

Head of the Department

HEAD OF THE DEPARTMENT Dopt of Microanical Engineering Annamacharya Institute of Tochn. (607 S Sciences Piglipur (V). Balesingharam (P), R.R. Diob501 512

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur (V), Batasingaram (Post), Abdullapurmet(M), R R.Dist., Hyderabad-501512.

(Approved by AICTE, Recognized by the GOVT.of T.S., Permanent Affiliation from JNTUH, Hyderabad.)

Accredited by "NAAC" with "B+" Grade, Recognized by UGC Under Section 2(f) and 12(B).

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DEPARTMENT OF MECHANICAL ENGINEERING LIST <u>OF STUDENTS UNDERTAKING PROJECT WORK (AY 2021-</u>2022)

S.No.	H.T.NO	Student Name
1	18T81A0303	K.MAHESHBABU
2	18T81A0304	E.NAVEEN GOUD
3	18T81A0305	S EJITH REDDY
4	19T85A0301	MUTTINENI AJAY KUMAR
5	19T85A0303	ANDRALA DINESH
6	19T85A0304	PATRI HRUDAY KUMAR
7	19T85A0305	GANGADEVI JOSHNA
8	19T85A0306	KASANAGOTTU KOUSHIK SAI
9	19T85A0308	NIKHIL NERELLA
10	19T85A0309	DORNALA SANDEEP
11	19T85A0310	RAPOLU SHIVA PRASAD
12	19T85A03011	PANUGANTI SHRAVAN KUMAR
13	19T85A0312	PEDAKANTI SOUNDARYA
14	19T85A0313	TULSIDHARI TEJASWI
15	19T85A0314	NADIMIPALLY UDAY
16	19T85A0315	GANGIREDDY VAJRENDHAR REDDY
17	17T81A0304	J PRABHAKAR
18	17T81A0305	LATTUPALLY RANJITH REDDY
19	17T81A0307	M SANTHOSH
20	18T85A0305	ARRA DINESH
21	18T85A0306	KOPPOLU JAYAVAMSHI
22	17TA1A0301	BALA.ESHWAR
23	185T5A0321	AJEEM SHAIK
24	185T1A0322	TIKKA VIVEK
25	195T5A0301	ANUBOTHU PRASHANTH KUMAR
26	195T5A0302	AVADARAPU DURGA PRASAD
27	19T5T5A0303	BACHANAGONI MALLIKARJUN
28	195T5A0304	BODDUPALLY MADHAVACHARY
29	195T5A0305	GANGULA VENKATESH
30	195T5A0306	KISTA. SHESHUGOPAL
31	195T5A0307	KOMATI BHARATHWAJ
32	195T5A0308	KOMIRELLI NAGARAJU REDDY
33	195T5A0309	M SHEKAR
34	19T5A0310	PARUCHURI KEERTHANA
35	195T5A0311	RAMAVATH SAIRAM NAYAK

HEAD OF THE DEPARTMENT Dept. of Microanteal Engineering Annamedrarya Institute of Technology 3 Sciences Pigliput (V). Balesingharam (P), R.R. DiskSot 512

PRINCIPAL Annamackarya Institute of Technology & Sciences Pistour (V), Batasingerem (Post) abdullapurmet (M), R.R. Dist. HYD-50* 552 Major Project Report

On

MECHANICAL CHARACTERIZATION OF CALOTROPIS – GIGANTEA COMPOSITE LAMINATE

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfilment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

By

SHAIK AJEEM	(185T5A0321)
TIKKA VIVEK	(185T5A0322)
A. PRASHANTH KUMAR	(195T5A0301)
M. SHEKAR	(195T5A0309)

Under the esteemed Supervision of

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Department of Mechanical Engineering

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Hyderabad-501512 (Affiliated to JNTU, Hyd)

I





Department of mechanical Engineering Annamacharya Institute Of Technology and Sciences-Hyderabad (Accredited By NAAC With A Grade, recognized by UGC With 2(f) & 12(b)&permanent Affiliation to JNTUH) 08415-201689, website: aits-hyd.org, E-mail: principalaith@gmail.com

Date: 06/07/2022

CERTIFICATE

This is to certify that the project report entitled "MECHANICAL CHARACTERIZATION OF CALOTROPIS – GIGANTEA COMPOSITE LAMINATE"

submitted by

 SHAIK AJEEM
 (185T5A0321)

 TIKKA VIVEK
 (185T5A0322)

 A. PRASHANTH KUMAR
 (195T5A0301)

 M. SHEKAR
 (195T5A0309)

In partial fulfilment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide work carried out by them under my guidance and supervision.

Mr. BHÁŔATH KUMAR Assistant professor M. Tech

INTERNAL GUIDE

Dr. SAYANNA GORRE Associate professor, B.E., M.Tech., Ph.D., LL.B HOD., MECH. ENGG.DEPT.

> HEAD OF THE DEPARTMENT Dopt of Miccranical Engineering Annametrarya Institute of Technicory 3 Site acros Pigliper (V). Balestegheran (P), R.R. Director Sta

EXTER

Major Project Report

ono

DESIGN AND ANALYSIS OF BEACON LIGHT IN FUSELAGE STRUCTURE OF AN AIRCRAFT

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

By

Y (195T5A0304)	(195T5A0307))Ү (195Т5А0308)	(17TA1A0306)
B.MADHAVACHARY	K.BHARATHWAJ	K.NAGARAJU REDDY	K. SUMANTH

Under the esteemed Supervision of

Mr. P. SRINIVASULU Assistant Professor M.TECH

MECHANICAL DEPARTMENT



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Date: 26.-04-2022

CERTIFICATE

OF AIRCRAFT" AND ANALYSIS AN HO project report entitled "DESIGN STRUCTURE FUSELAGE certify that the Z LIGHT BEACON to IS. This

submitted

by

B.MADHAVACHARY (19575A0304) K.BHARATHWAJ (19575A0307) K.NAGARAJU REDDY (19575A0308) K. SUMANTH (177A1A0306)

ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide work MECHANICAL .ш Technology of Bachelor carried out by them under my guidance and supervision. of Degree the for fulfillment partial In

兇. Y

Mr.P.SRINIVASULU Assistant Professor M.TECH

Dr.G.SAY

Associate Professor

B.E.,M.TECH., PH.D.,LL.B

Head of the Department

DUPL OF THE DEPARTMENT DUPL of Macranical Erginoury Annamediary Institute of Redm. 2013 55 co. auro Annamediary Institute of Redm. 2013 55 co. auro Piglipti (N). Balesticipharan (P), 82,6, 034501 512 Martin (N). Balesticipharan (P), 82,6, 034501 512 Martin (N). Balesticipharan (P), 82,6, 034501 512

Internal Guide

EXTERNAL

Major Project Report On

Y

DESIGN AND ANALYSIS OF PROPELLER SHAFT BY USING COMPOSITE STEEL MATERIALS

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

Ц

MECHANICAL ENGINEERING

By

δrī	
E. NAVEEN GOUD	(18T81A0304)
K. JAYA VAMSHI	(18T85A0306)
N. NIKHIL	(19T85A0308)
P. SHRAVAN KUMAR	(19T85A0311)

Under the esteemed guidance of

Mr. R. UPENDAR M.TECH Assistant Professor MECHANICAL DEPARTMENT



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Date.06/07/2022

CERTIFICATE

is is to certify that the Minor project report entitled " DESIGN AND ANALYSIS OF **JLLER SHAFT BY USING COMPOSITE STEEL MATERIALS**" submitted by

(18T81A0304)	(18T85A0306)	(19T85A0308)
E. NAVEEN GOUD	K. JAYA VAMSHI	N. NIKHIL

al fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING to arlal Nehru Technological University is a report of bonafide work carried out by them under my e and supervision.

(19T85A0311)

P. SHRAVAN KUMAR

Challe -

Mr. R. UPENDAR(M.TECH)

Assistant Professor Internal Guide

AB.E.,M.TECH,,PH.D.,LL.B.Y

Head of the Department,

Associate Proffesor,

MECH.ENGG. DEPT.

Dr.SAYANNA GORRE

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PRINCHVAL Annameckarya Institute o Technology & Sciences Pighour (N), Beasingmen (Posi) uliquormei (M), R.R. Diet. HYD-50' 85:

EXTERNAL EXAMINER

HEAD OF THE DEPARTMENT Dout of Mccranical Erginourg annanehray institute of featuring 3 S. c. and Piglipur (M. Baladicharan P), R.R. Diason 312

Major Project Report

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DESIGN & ANALYSIS OF EXHAUST MANIFOLD OF FOUR WHEELER

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

MECHANICAL ENGINEERING Ц

By

D. SUKENDHAR REDDY	18T81A0306
P. SOUNDARYA	19T85A0312
N. UDAY	19T85A0314

Under the esteemed guidance of

MECHANICAL DEPARTMENT Assistant Professor 🗼 Mr. R. UPENDAR M.TECH



Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Abdullapurmet (M), R.R(D), Hyderabad-







Annamacharya Institute Of Technology and Sciences-Hyderabad (Accredited By NAAC With B+ Grade, recognized by UGC With 2(f)& 12(b)&permanent 08415-201689, website:aits-hyd.org, E-mail:principalaith@gmail.com Department of mechanical Engineering Affilation to JNTUH)

Date: 26-07.2022

CERTIFICATE

OF entitled "DESIGN &ANALYSIS project report This is to certify that the

EXHAUST MANIFOLDOFFOUR WHEELERS" submitted by

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D. SUKENDHAR REDY	18T81
P. SOUNDARYA	19T85
N. UDAY	19T8:

5A0314 1A0306 5A0312

ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide In partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL work carried out by them under my guidance and supervision.

Assistant Professor Mr. R. UPENDAR Internal Guide (M.Tech)

PRIV

VEXAMINER EXTERNA

(B.E., M. Tech., Ph.D., LL.B.

Dr. G. SAYANN

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Head of the Department

Associate Professor

P.

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DESIGN & WEIGHT OPTIMIZATION OF LOWER CONTROL ARM

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

Ц

MECHANICAL ENGINEERING

By

J. PRABHAKAR	17T81A0304
K.MAHESH BABU	18T81A0303
S. EJITH REDDY	18T81A0305
A.DINESH	19T85A0303

Under the esteemed guidance of

MECHANICAL DEPARTMENT Mr. S. SIVA KUMAR Assistant Professor M.TECH



Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Abdullapurmet (M), R.R (D), Hyderabad- 501512

Affiliated to JNTU, Hyderabad

A CONTRACTOR OF A CONTRACTOR	nical Engineering ology and Sciences-Hyderabad zed by UGC With 2(f)& 12(b)&permanent NTUH) E-mail:principalaith@gmail.com Date: .0にしていた	CATE t entitled "DESIGN & WEIGHT ROL ARM" submitted by	17T81A0304 18T81A0303 18T81A0305 19T85A0303	helor of Technology in MECHANICAL ological University is a report of bonafide supervision.	Mr. G. SAYANNA Mr. G. SAYANNA (B.E., M. Tech., Ph.D., LL.B., Associate Professor Head of the Department	EXAMPNER
	Department of mechanical Engineering Annamacharya Institute Of Technology and Sciences-Hyderabad Annamacharya Institute Of Technology and Sciences-Hyderabad (Accredited By NAAC With B+ Grade, recognized by UGC With 2(f)& 12(b)&permanent Affilation to JNTUH) 08415-201689, website:aits-hyd.org, E-mail:principalaith@gmail.com Date: QG	CERTIFICATE This is to certify that the project report entitled "DESIGN OPTIMIZATION OF LOWER CONTROL ARM" submitted by	J. PRABHAKAR K.MAHESH BABU S. EJITH REDDY A.DINESH	In partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide work carried out by them under my guidance and supervision.	Mr. S. SIVA KUMAR Mr. S. SIVA KUMAR Assistant Professor Internal Guide	EXTERNAL

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Project Report	Major Project Report on "FABRICATION OF SEMI-AUTOMATIC MATERIAL CARRIER FOR MINING" Curber 140	nitted to	Submitted to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD	In Partial fulfilment of the Requirement for the Award of the degree of	BACHELOR OF TECHNOLOGY	П	MECHANICAL ENGINEERING	By	(19T85A0310)	(19T85A0301)	REDDY (19T85A0315)	(17T81A0307)	Under the esteemed guidance of Ms. T.SRIKANTHI M. TECH Ms. T.SRIKANTHI M. TECH Assistant Professor MECHANICAL DEPARTMENT MECHANICAL
Major	"FABRICATION OF SEMI-AUTC	Subr	JAWAHARLAL NEHRU T HYI	In Partial fulfilment of the F	BACHELOR (MECHANICA		R.SHIVA PRASAD	M.AJAY KUMAR	G.VAJRENDHAR REDDY	M.SANTHOSH	Under the Ms. T.SR Ms. T.SR Assis Assis Ansmecharys Institute of Technology & Sciences Technology & Sciences Paper (M), Nam Annander (M), R.K. (bet. HTSJO) as Annander (M), R.K. (bet. HTSJO) as Annander (M), R.K. (bet. HTSJO) as Annander (M), Rent (M), Rant Annander (M), Rant Annander (M), Rant (Affiliated t

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Department of Mechanical Engineering	Annamacharya Institute of Technology and Sciences-Hyderabad Accredited By NAAC With A Grade, recognized by UGC With 2(f)& 12(b)&permanent Affiliation to JNTUH 08415-201689, website: aits-hyd.org, E-mail: principalaith@gmail.com Date: 06. [0.7.[2023	CERTIFICATEThis is to certify that the project report entitled "FABRICTION OF SEMI- AUTOMATIC MATERIAL CARRIER FOR MINING"AUTOMATIC MATERIAL CARRIER FOR MINING"M.SAHIVA PRASAD(19785A0310)M.SANTHOSH(17781A0307)	in a partial fulfilment of the requirements for the award of degree in MECHANICAL ENGINEERING, is a record of the Bonalide work carried out by them during the academic year 2019-2022 under our guidance and supervision. Marthan Signature Marthan The Marthan The Marthan The State of the Department Marthan The Marthan The Marthan The State of the Department Marthan The Marthan The Marthan The State of the S
	AI	T R.SI M.A G.V.S	Interna Ms.T.S Ms.T.S

A

MAJOR PROJECT REPORT

ON

"PERFORMANCE AND EMISSION ANALYSIS OF CI ENGINE USING PONGAMIA OIL"

SUBMITTED TO

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

V PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

BY

A. DURGA PRASAD B. MALLIKARJUN P. KEERTHANA R. SAIRAM NAYAK (195T5A0302) (195T5A0303) (195T5A0310) (195T5A0311)

Under the esteemed supervision of Mr.B.JEEVAN KUMAR M.E ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING





Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES Piglipur, Abdullapurmet (M), R.R. (D), Hyderabad -501512 (Affiliated to JNTU, Hyderabad)



Department of Mechanical Engineering

Annamacharya Institute Of Technology and Sciences-Hyderabad

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Date: 06. 07 0022

CERTIFICATE

his is to certify that the project report entitled "PERFORMANCE AND EMISSION NALYSIS OF CI ENGINE USING PONGAMIA OIL" submitted by

A. DURGA PRASAD B. MALLIKARJUN P. KEERTHANA R. SAIRAM NAYAK (195T5A0302) (195T5A0303) (195T5A0310) (195T5A0311)

vartial fulfillment for the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** to **vaharlal Nehru Technological University** is a report of bonafide work carried out by them under my Jance and supervision.

Mr.B. JEEVAN KUMAR

(M.E) (M.E) Assistant professor Internal guide

Dr. SAYANNA GÓRRE B.E., M.TECH., PH.D., LL.B Associate professor Head of the Department MECH.ENGG.DEPT.

HEAD OF THE DEPARTMENT Dopt of Micranical Engineering Annametrarya Institute of Techni Fory 3 S. c. auto Piglipur (V). Balesingharam (P), R.R. 0):4501 512

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A

Major Project Report

On

STUDY OF MULTIPURPOSE AGRICULTURE MACHINE USING SOLAR ENERGY

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfilment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

By

B. ESHWAR	(17TA1A0301)
B. NARESH	(185T1A0301)
G. VENKATESH	(195T5A0305)
K. SHESHUGOPAL	(195T5A0306)

Under the esteemed Supervision of Mr. KOTRESH.M.C M. Tech Assistant Professor MECHANICAL DEPARTMENT



Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Piglipir(V), Abdullapurmet (M), R.R(D), -Hyderabad-501512 (Affiliated to JNTU, Hyd)

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Department of mechanical Engineering Annamacharya Institute Of Technology and Sciences-Hyderabad (Accredited By NAAC With A Grade, recognized by UGC With 2(f) & 12(b)&permanent Affiliation to JNTUH)

08415-201689, website: aits-hyd.org, E-mail: principalaith@gmail.com

Date: .06-07-2022

CERTIFICATE

This is to certify that the project report entitled "STUDY OF MULTIPURPOSE

AGRICULTURE MACHINE USING SOLAR ENERGY"

submitted

by

B. ESHWAR	(17TA1A0301)
B. NARESH	(185T1A0301)
G. VENKATESH	(195T5A0305)
K. SHESHUGOPAL	(195T5A0306)

In partial fulfilment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide work carried out by them under my guidance and supervision.

est × . KOTŔESH M.C

Korkesniki, e
 Assistant professor
 M. Tech
 Internal Guide

Dr. G.SAYANN^tA Associate professor, B.E., M.Tech., Ph.D., LL.B HOD., MECH. ENGG. DEPT.

HEAD OF THE DEPARTMENT Dupt of Microartical Erufnoutry Annanceharya Institute of Techni Jory 3 St estation Pigliour (V). Batesicyharan (P), R.R. Dickson 312

EXTER

Α

Major Project Report On

DESIGN AND ANALYSIS OF HELICAL TUBE IN

COIL TYPE HEAT EXCHANGER

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

In Partial fulfillment of the Requirement for the Award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING By

L.RANJITH D.SANDEEP T.TEJASWI

(17T81A0305) (19T85A0309) (19T85A0313)

Under the esteemed guidance of

BHARATH KUMAR Assistant Professor MECHANICAL DEPARTMENT





Department of Mechanical Engineering

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Abdullapurmet(M), R.R(D), Hyd,501512 (Affiliated to JNTU, Hyderabad)

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Department of mechanical Engineering Annamacharya Institute Of Technology and Sciences-Hyderabad (Accredited By NAAC With B+ Grade, recognized by UGC With 2(f)& 12(b)&permanent Affilation to JNTUH) 08415-201689, website:aits-hyd.org, E-mail:principalaith@gmail.com

Date: 06 07 2022

CERTIFICATE

This is to certify that the project report entitled "DESIGN AND ANALYSIS OF HELICAL TUBE IN COIL TYPE HEAT EXCHANGER" submitted by

> L.RANJITH D.SANDEEP T.TEJASWI

(17T81A0305) (19T85A0309) (19T85A0313)

In partial fulfillment for the Degree of Bachelor of Technology in MECHANICAL ENGINEERING to Jawaharlal Nehru Technological University is a report of bonafide work carried out by them under my guidance and supervision.

thaval

BHARATH KUMAR M.Tech Assistant Professor Internal Guide

EXTERNAL EX

Dr.SAYANNA GORRE [BE,M.Tech,Ph.d,LLB] Associate Professor HOD,MECH,ENGG,DEPT.

HEAD OF THE DEPARTMENT Dopt of Microantent Engineering Annamecharya tastitute of Techni fory 3 Stratauro Pipipion (M). Balesicpharan (P), R.R. 004-000 512

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Project Report	Major Project Report on "INVESTIGATION OF SINGLE POINT INCREMENTALFORMING USING SOLID LUBRICANT" Submitted to	LAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD In Partial fulfillment of the Requirement for the Award of the degree of BACHELOR OF TECHNOLOGY	In	MECHANICAL ENGINEERING	By (19T85A0306)	(18T85A0305)	(19T85A0304)	(19T85A0305)	Under the esteemed guidance of	Mr. B. PRAKASH M. Tech	Assistant Professor	MECHANICAL DEPARTMENT	STATE TRUST + 3444 Providence	anical Engineering	ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES	Hayathnagar, (M), Ranga Reddy (D), Hyderabad-501512	(Affiliated to JNTU, Hyderabad)		
Major I		"INVESTIGATION INCREMENTALFORMI Subn	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD In Partial fulfillment of the Requirement for the Award of the degree of BACHELOD OF TECHNOLOGY		MECHANICA	K. KOUSHIK SAI	A. DINESH	P. HRUDAY KUMAR	G. JOSHNA	Under the e	Mr. B. PRA	Assista	MECHANI	PRINCIPAL Amamediary lastitute of Technology Sciences Pegau (V), becarderen (Pca) contiguanter (Ch, R. J. Bar, MY 2014)	Department of Mechanical Engineering	ANNAMACHARYA INSTITU SCIEJ	Hayathnagar, (M), Ranga	(Affiliated to J	

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Annamacharya Institute of Technology and Sciences-Hyderabad

Accredited By NAAC With A Grade, recognized by UGC With 2(f)& 12(b)&permanent Affiliation to JNTUH

08415-201689, website: aits-hyd.org, E-mail: Principalaith@gmail.com



Date:

CERTIFICATE

This is to certify that the project report entitled "INVESTIGATION OF SINGLE POINT INCREMENTAL FORMING USING SOLID LUBRICANT"

submitted by

(19T85A0306)	(18T85A0305)	(19T85A0304)	(19T85A0305)
K. KOUSHIK SAI	A. DINESH	P. HRUDAY KUMAR	G. JOSHNA

partial fulfillment of the requirements for the award of degree in MECHANICAL ENGINEERING, is a record of the Bonafide work carried out by them during the academic year 2018-2022 under our guidance and supervision. а Ч

Internal Guide Who I Leal

Mr. B. PRAKASH M. Tech

DR.SAYANNA GORRE

Associate professor

Head of the Department

E. titute o (M), R.R. Dist. HYD-50 CIPAL

B.E., M.Tech., Ph.D., LL.B HEAD OF THE IDEPARTMENT Dept. of Machanicat Engineering Annamediarya Institue of factor, 24 S. co. An Annamediarya Institue of factor, 26, 013-001 312 Piglipur (V). Baselingharan (P), 318, 013-001 312

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur (V), Batasingaram (Post), Abdullapurmet(M), R R.Dist., Hyderabad-501512.

(Approved by AICTE, Recognized by the GOVT.of T.S., Permanent Affiliation from JNTUH, Hyderabad.) Accredited by "NAAC" with "B+" Grade, Recognized by UGC Under Section 2(f) and 12(B).

Mobile: 9848924705

9912344480

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DEPARTMENT OF MECHANICAL ENGINEERING H.T.LIST (AY 2022-23) MAJOR PROJECT WORK

S.NO.	PROJECT TITLE	H.T.NO.	STUDENT NAME
1	STRESS ANALYSIS OF CYLINDRICAL SHELL DUE TO	19T81A0304	MAMILLA SATHWIK REDDY
2	SADDLE SUPPORT BY L.P ZICK	20T85A0305	NUNE.RAJESH KUMAR
3	METHOD	19T81A0305	SMITH PATEL
4		19T81A0303	BUDUMARAKESH
5	ANALYSIS AS PER ASME CODE OF CYLINDRICAL SHELL THICKNESS	20T85A0306	VENNAMPALLI ROHITH
6	FOR EXTERNAL PRESSURE	19T81A0301	ARUNKUMAR CHALLA
7	CONDITION	20T85A0309	SEELAM SANDEEP
8		18T85A0302	MUDAVATHA GANESH
9	DESIGN AND ANALYSIS OF SKIRT	20T85A0307	RAVIRALASAIKRISHNA
10	SUPPORT AND ANCHOR BOLT FOR	20T85A0304	PALEM.PRASAD
11	VERTICAL POSTIONED EQUIPMENT	20T85A0302	K KALYAN
12	NOZZLE PRESSURE LOAD	20T85A0301	HARIKRISHNA
	ANALYSIS DUE TO CONNECTEDE		KOBBAJI VINAY
13	PIPE USING RESEARCH COUNCIL	20T85A0310	KUMAR
14	ANALYSIS METHODS	20T85A0303	CHELKA PRABHAKER

HEAD OF THE DEPARTMENT Dept. of Mcchanical Engineering Annamacharya Institute of Technology 3 Stockness Piglipur (V). Balesingharam (P), R.R. Diot-501 512

vn) PRINCIPAL Annamacharya Institute o Technology & Sciences Pighpur (V), Betasingerem (Post) Abdullapurmet (M), R.R. Dist. HYD-501 552

STRESS ANALYSIS OF CYLINDRICAL SHELL DUE TO SADDLE SUPPORT BY L.P ZICK METHOD

A Major Project Report Submitted To



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

In Partial fulfillment of the requirement

For the award of the degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

By

M. SATHWIK REDDY N. RAJESH KUMAR SMITH PATEL B. RAKESH (19T81A0304) (20T85A0305) (19T81A0305) (19T81A0303)

Under the Guidance of

R.UPENDAR M.TECH

Assistant Professor,

Dept. of Mechanical Engineering,

AITS, Hyderabad.



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ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES Department of Mechanical Engineering in Bachelor of Technology Piglipur, Batasingaram (v), Hayathnagar (M), R. R. Dist.



ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES Piglipur, Batasingaram (v), Hayathnagar (M), R. R. Dist

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to certify that the work embodies in this dissertation entitled 'STRESS ANALYSIS OF CYLINDRICAL SHELL DUE TO SADDLE SUPPORT BY L.P ZICK METHOD' being submitted by 'M.SATHWIK REDDY -19T81A0304, N.RAJESH KUMAR -20T85A0305, SMITH PATEL -19T81A0305, B. RAKESH -19T81A0303'for partial fulfillment of the requirement for the award of Bachelor of Technology in Mechanical Engineering to Annamacharya institute of Technology and Sciences, Piglipur, Batasingaram(V),R.R. district, Telangana State, during the academic year 2022-2023 is a record of bonafide work, undertaken by him under the supervision of the undersigned.

INTERNAL GUIDE R.UPENDAR M.TECH Asst. Professor Mechanical Department.

HEAD OF THE DEPARTMENT **DR.G. SAYANNA** B.E, M. TECH, Ph. D, LLB Assoc. Professor Mechanical Department.

HEAD OF THE DEPARTMENT Dopt. of Mcchanical Engineering Annamecharya Institute of Technology & M. Ginders Piglipur (V), Datesingheram (P), R.R. Disp601 619

EXTERNAL EXAMINER (Dy. ch. Sandeep kumay)

PRINCIPA 2 Sciences

A MAJOR PROJECT REPORT ON

ANALYSIS AS PER ASME CODE OF CYLINDRICAL SHELL THICKNESS FOR EXTERNAL PRESSURE CONDITION

A REPORT SUBMITTED

IN PARTIAL FULFULLMENT OF THE REQUIREMENT FOR THE AWARD OF

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

BY

V. ROHITH	20T85A0306
S. SANDEEP	20T85A0309
CH. ARUNKUMAR	19T81A0301
M.GANESH	18T81A0302

UNDER THE ESTEEMED SUPERVISION OF

B. PRAKASH M.Tech

Assistant professor,

Department of Mechanical Engineering





Submitted to

DEPARTMENT OF MECHANICAL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUH, Hyderabad-501512)

(2022-2023)

DEPARTMENT OF MECHANICAL ENGINEERING



This is to certify that the project work entitled.

"ANALYSIS AS PER ASME CODE OF CYLINDRICAL SHELL

THICKNESS FOR EXTERNAL PRESSURE CONDITON"

is a bonafide work done by:

V. ROHITH	20T85A0306
S. SANDEEP	20T85A0309
CH. ARUNKUMAR	19T81A0301
M.GANESH	18T81A0302

In partial fulfillment of the award of Bachelor of Technology in Department of Mechanical Engineering in ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, Piglipur, Batasingaram, Hayathnagar, Hyderabad during the academic year (2022-2023). The above work is carried out under the supervision of the internal and external supervisor. This work has not been submitted to any other university/college for the reward of any degree.

B. PRAKASH M. Tech.

ASSISTANT PROFESSOR

PRINCIPAI Innamecharya Institute o Technology & Sciences Piglipur (V), Batasingerem (Post R R. Dist, HYD-501 552

Dr G. SAYANNA

BE., M.Tech., Ph.D., LLB

HEAD OF THE DEPARTMENT

MECHANICAL ENGINEERING

HEAD OF THE DEPARTMENT Dept. of Mechanical Brighneeting Annemeoliary a Institute of Technicoly & Science in PLAR Date Still Date

Abduliagurmet (M), R.R. Dist. HYD-50° 583 The major project submitted for the External viva voice Examination on

EXTERNAL EXAMINER

INTERNAL EXAMINER

А **Major** Project Report

On

DESIGN AND ANALYSIS OF SKIRT SUPPORT AND ANCHOR BOLT FOR VERTICAL POSITIONED EQUIPMENT

Submitted To

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

In Partial fulfillment of the requirementFor the award of the degree of

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

Submitted by

RAVIRALA SAI KRISHNA PALEM PRASAD KASANABOINA KALYAN

(ROLLNO: 20T85A0307) (ROLLNO:20T85A0304) (ROLLNO:20T85A0302)

Under the esteemed Supervision of

B.JEEVAN KUMAR

M.E (CAD/CAM)

Assistant Professor,

Department of Mechanical Engineering,

AITS, Hyderabad.



Submitted to Department of Mechanical Engineering in Bachelor of Technology

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES Piglipuram, (v), AbbdulapurMettu (M), R. R .Dist, Hyderabad.

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DEPARTMENT OF MECHANICAL ENGINEERING

IN

BACHELOR OF TECHNOLOGY

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Piglipuram (v), AbbdulapurMettu (M), R.R.Dist, Hyderabad



CERTIFICATE

This is to certify that the project report entitled

DESIGN AND ANALYSIS OF SKIRT SUPPORT AND ANCHOR BOLT FOR VERTICAL POSITIONED EQUIPMENT

being submitted by

RAVIRALA SAI KRISHNA PALEM PRASAD KASANABOINA KALYAN (ROLLNO: 20T85A0307) (ROLLNO:20T85A0304) (ROLLNO:20T85A0302)

In a partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY in **MECHANICAL ENGINEERING**, is a record of the Bonafide work carried out by them during the academic year **2022-2023** under our guidance and supervision.

B. Jeeven 6---

INTERNAL GUIDE B.JEEVAN KUMAR M.E (CAD/CAM) Assistant Professor Department of Mechanical

EXTERNAL EXAMINER

(Dr. Ch: Sandeep Lumar)

HEAD OF THE DEPARTMENT Dr.G.SAYANNA B.E,M.Tech,Ph.D, LL.B Associate Professor Department of Mechanical

HEAD OF THE DEPARTMENT Dept. of Mechanical Engineering Annamachacya Institute of Technology & Socieaces Piglipur (V). Balesic parama (P), R.R. Dist-501 512

PRINCIPAL Annameckarya Institute of Technology & Sciences Pishour (V), Batasingerem (Post) aduilapurmet (M), R.R. Dist. HYD-50* 352

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MAJOR PROJECT REPORT ON

"NOZZLE PRESSURE LOAD ANALYSIS DUE TO CONNECTED PIPE USING WELDING RESEARCH COUNCIL ANALYSIS METHOD"

Submitted by

Submitted in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

G. HARIKRISHNA C. PRABHAKER K. VINAY KUMAR

(20T85A0301) (20T85A0303) (20T85A0310)

Under the esteemed supervision

of

Mr. KRISHNAPADA

SINHA

M Tech, (Manufacturing Technology)

Dept. of Mechanical engineering, AITH, Hyderabad.



Submitted to DEPARTMENT OF MECHANICAL ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Accredited by NACC with A grade, recognized by UGC with 2(f) & 12(b) & permanent Affiliation to JNTUH) PIGLIPUR, BATASINGARAM (V), HAYATHNAGAR (M), R.R.DIST, HYDERABAD

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PRINCIPAL Annamacharya Institute o Technology & Sciences Piglipur (V), Betasingerem (Post) apurmet (M), R.R. Dist. HYD-504 5% Piglipur (V), B

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ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Accredited by NACC with A grade, recognized by UGC with 2(f) & 12(b) & permanent Affiliation to JNTUH)

PIGLIPUR, BATASINGARAM (V), HAYATHNAGAR (M), R.R.DIST, HYDERABAD

DEPARTMENT OF MECHANICAL ENGINEERING



CERTIFICATE

This is certify that the project report entitled

"NOZZLE PRESSURE LOAD ANALYSIS DUE TO CONNECTED PIPE USING WELDING RESEARCH COUNCIL ANALYSIS METHOD"

Being submitted by

G. HARIKRISHNA	(20T85A0301)
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K. VINAY KUMAR	(20T85A0310)

In a partial fulfillment of the requirement for the award of the degree of **BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING**, is a record of bonafide work carried out by them during Academic year 2022-2023under our supervision and supervision.

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