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(An ISO 9001:2015 Certified Institution ) & Accredited by NAAC

Vijayawada, Krishna District, Andhra Pradesh, Pin Code-520008

## CERTIFICATE

This is to certify that the Project Report Entitled “INVESTIGATION OF CRACK PROPOGATION OF A SINGLE EDGE NOTCHED BEND SPECIMEN USING CASCA AND FRANC 2D TOOLS” submitted by VEDALA TOBY (17HP1A03A5), VARUN KUMAR BODAPATI (17HP1A03A7), PUTTI NAGABABU (18HP5A0327), OBULASETTY SAI PRASANNA (18HP5A0329) submitted in partial fulfillment for the award of the degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, Kakinada during the Academic Year 2020-2021 is a record of a Bonafide work carried out by them under my guidance and supervision.

Mr. JOHN RAJA RAVI KIRAN KOPELLI

Assistant Professor

PROJECT GUIDE

Dr. M. GEETA RANI

Associate Professor

Head of the Department

INTERNAL EXAMINER

EXTERNAL EXAMINER


**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**


**DEPARTMENT OF MECHANICAL ENGINEERING**

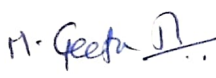


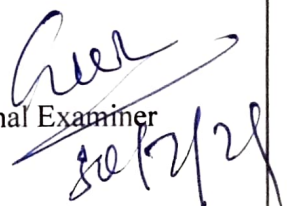
**CERTIFICATE**

This is to certify that the project entitled “**MODELING AND MACHINING OF SPHERICAL JOINT SUPPORT**”, being submitted by **D. TARUN VENU (17HP1A0343)**, **M. VENKATA SIVAGOPI (17HP1A0348)**, **D. VIDHYA SAGAR (17HP1A0350)**, **G. GOPALA KRISHNA (18HP5A0322)** in partial fulfilment for the award of degree of **Bachelor of Technology ( B. Tech )** in Mechanical Engineering is bonafide work carried out by them under my guidance during the academic year **2020-2021** and it has been found worthy of acceptance according to the requirements of the university.

  
Signature of the Project Guide  
**Mrs. B. Susmitha**  
Assistant Professor  
Dept. Mechanical Engineering

  
Signature of HOD  
**Dr. M. Geetha Rani**  
Head of the Mechanical Engineering

  
Internal Examiner

  
External Examiner



**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
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(An ISO 9001:2008 Certified Institution)  
Vijayawada, Krishna District, Andhra Pradesh, PinCode-520008

## **CERTIFICATE**

This is to certify that the Project Report Entitled  
**FABRICATION OF FOUR-WHEEL STEERING SYSTEM**

Submitted by

**K. PHANINDRA KUMAR** (17HP1A0383)  
**CH. SRI DIVAKAR** (17HP1A0390)  
**B.SRI KODANDA AKHIL** (17HP1A0392)  
**S. YOGANADHA REDDY** (17HP1A03B2)  
**KATURI TEJA** (18HP5A0332)

In partial fulfillment for

The award of the degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** to **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**, during the Academic Year **2017-2021** is a record of a Bonafide work carried out by them under my guidance and supervision.

  
**MR. M. SRINIVASA REDDY** M.Tech

**Assistant Professor**

**PROJECT GUIDE**

  
**Dr. M. GEETA RANI** Ph.D.

**Associate Professor**

**HEAD OF THE DEPARTMENT**

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**



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An ISO 9001:2008 Certified Institution, A NAAC Accredited Institution

**VIJAYAWADA-520 008**

**(2017-2021)**

**CERTIFICATE**

This is to certify that the project work entitled "**DRAFTING AND FABRICATION OF FLANGE USING SINUMERIC 828D**" is a bonafied record work done by BRAVI TEJA (17HP1A0386 ) , D.SIVA KUMAR (17HP1A0389) , A SRIKANTH (17HP1A0393) and T.GOVINDA RAJU(18HP1A0323).In partial fulfilment of the requirement for the award of B.Tech (Mechanical Engineering) degree by JNTU Kakinada.

GUIDE:

*M. Sudhakar*  
15/12/21

Mr. M. Sudhakar

Associate Professor

Department of Mechanical Engineering

ALLET

HEAD OF THE DEPARTMENT:

*M. Geetha Rani*  
15/12/21

Dr. M. Geetha Rani, Ph. D

Associate Professor

Department of Mechanical Engineering

ALLET

*M. Geetha Rani*

INTERNAL EXAMINER

*M. Geetha Rani*  
30/12/21

EXTERNAL EXAMINER

# ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to JNTUK, Approved by AICTE, New Delhi, NAAC  
Accredited with B<sup>++</sup> grade, Certified by ISO 9001:2008  
Opp. Govt. Polytechnic Post Office, ITI Road, Vijayawada-520008  
2017 – 2021

## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE


This is to certify the seminar report entitled “**DESIGN AND FABRICATION OF BELT GRINDER (VERTICAL/HORIZONTAL)**” submitted by **17HP1A0326 [P. NAVEEN]**, **18HP5A0304 [SK. ASIF]** and **18HP5A0309 [K. PRASANNA]** in partial fulfillment of the requirements of the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** in a bonafide record of the work carried by us during the academic year “2020-2021”.

  
Signature of Project Guide

**Ms. B. SREE CHAITANYA**

Assistant Professor,

Department of Mechanical Engineering

  
Signature of HOD

**Dr. M. GEETA RANI**

Associate Professor,

Department of Mechanical Engineering

  
Internal Examiner

  
External Examiner

DEPARTMENT OF MECHANICAL ENGINEERING  
ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

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An ISO 9001:2015 Certified Institution, Accredited by NACC


VIJAYAWADA-52008, A.P

2017-2021




CERTIFICATE

This is to certify that the seminar report entitled “EMISSION CONTROL BY USING AQUA SILENCER.” is a Bonafide record of work carried out by M.SAMUEL (17HP1A0338), B.SOMA SEKHAR REDDY (17HP1A0340), MD.FAIZULLA (17HP1A0370), S.UMA CHANDRA RAJU (18HP5A0313), G.VENKATA KARTHIK (17HP5A0327) submitted in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING, JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY Kakinada, during academic session 2017-2021.

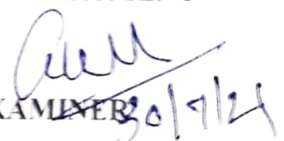
  
G.G.SRINIVAS

ASST.PROFESSOR OF ALIET

  
INTERNAL EXAMINER

  
DR. GEETHA RANI

HEAD OF THE DEPARTMENT

  
EXTERNAL EXAMINER

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING



**CERTIFICATE**

This is to certify that the project work "CFD ANALYSIS ON DOUBLE PIPE HEAT EXCHANGER WITH PRIMARY REFRIGERANTS AS COLD FLUIDS" is a bonafide record work done by P. PAVANI (17HP1A0302), N. SAI MRUDULA (17HP1A0304), N. SAI MEGHANA (17HP1A0362) & T. DIVYA LAKSHMI (18HP5A0302) in a partial fulfillment of the requirement for the award of Bachelor of Technology in **Mechanical Engineering** by JNTUK Kakinada.

*M. Geeta Rani 09/12/2021*

**Dr. M. GEETA RANI**

**Associate Professor**

**Project Guide**

*M. Geeta Rani 09/12/2021*

**Dr. M. GEETA RANI**

**Associate Professor**

**Head of the Department**

*M. Geeta Rani*

**Internal Examiner**

*[Signature]*  
**External Examiner**



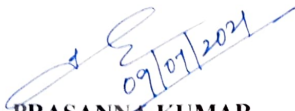
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Vijayawada, Krishna District, Andhra Pradesh, PinCode-520008

**CERTIFICATE**

This is to certify that the Project Report Entitled "FABRICATION AND STUDY OF EPOXY MATRIX COMPOSITE MATERIAL WITH JUTE AND E-GLASS FIBER REINFORCEMENT" submitted by R.ABHINAY JOEL (17HP1A0363), G.DHARMA TEJA (17HP1A0366), K.CHAITANYA SAI KUMAR (18HP5A0319) in partial fulfillment for the award of the degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA, Kakinada during the Academic Year 2017-2021 is a record of a Bonafide work carried out by them under my guidance and supervision.

  
09/07/2021

**T.L. PRASANNA KUMAR**  
Assistant Professor  
PROJECT GUIDE

  
09/07/2021

**Dr. M. GEETA RANI**  
Associate Professor  
Head of the Department



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**



**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND  
TECHNOLOGY, VIJAYAWADA**

**Department of Mechanical Engineering**



**CERTIFICATE**

This is To Certify That The Project Report Entitled “ **FABRICATION OF RC CONTROLLED METAL DETECTING ROVER**” Submitted by **J.AVINASH (17HP1A0309), S.BHANU CHAND (17HP1A0312), M.JOEL PREM TEJ (17HP1A0320), T.JOHN BANAYAN (17HP1A0321)**, In Partial Fulfillment For The Award Of Degree Of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** is bonafide work carried out by them under my guidance during the academic year **2017-2021** and it has been found worthy of acceptance according to the requirements of the university.

Signature of Project Guide

**Mr. M. Sudhakar M.E (Ph.D)**  
Associate Professor, ALIET  
Department of Mechanical Engineering

Signature of H.O.D

**Dr. M. Geetha Rani**  
Associate Professor, ALIET  
Department of Mechanical Engineering

**Internal Examiner**

**External Examiner**

**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND  
TECHNOLOGY, VIJAYAWADA**  
**Department of Mechanical Engineering**



**CERTIFICATE**

This is to certify that the project entitled “**MODELLING AND MANUFACTURING OF SPUR GEAR**”, being submitted by **CH. VENTAKESH (16HP1A0352), SD. ARIF PASHA (17HP1A0308), M. MAHIDHAR REDDY (17HP1A0323) and S. MALLESWAR (17HP1A0324)** in partial fulfilment for the award of degree of **Bachelor of Technology (B. Tech)** in Mechanical Engineering in bonafide work Carried out by them under the guidance during the academic year 2020-2021 and it has been found worthy of acceptance according to the requirements of the university.

*T. Sub - R.*

**Signature of project guide**

**MR. T. SUBBA REDDY**

*MGR* 13/7/2021

**Signature of HOD**

**DR. M. GEETHA RANI**

*M. Geetha Rani*

**INTERNAL EXAMINER**

*MGR*

**EXTERNAL EXAMINER**

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING



**CERTIFICATE**

This is to certify that the project work “**FABRICATION OF DOUBLE HACK SAW CUTTER WITH CRANK ROTARY MOTION**” is a bonafide record work done by **A.SAI ESWAR (17HP1A0337), K.YASWANTH (17HP1A0353), R.GANESH (17HP1A0372), P. V NAGA MALLESWARA RAO (18HP5A0315)** in a partial fulfillment of the requirement for the award of Bachelor of Technology (B.Tech) in Mechanical Engineering by JNTU Kakinada.

**Mr. E. DURGESH**

**Assistant Professor**

**Project Guide**

**Dr. M. GEETHA RANI**

**Associate Professor**

**Head of the Department**

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

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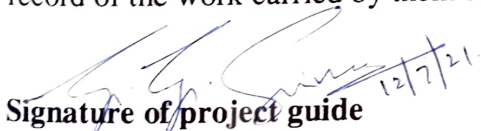
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**DEPARTMENT OF MECHANICAL ENGINEERING**

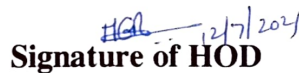


**CERTIFICATE**

This is to certify the project report entitled **“FABRICATION OF POWER GENERATING SOURCE BY APPLICATION OF THE LOADS ON CURVED SURFACES”** submitted by **B. ANKAMMA RAO (17HP1A0307), P. HARISH (17HP1A0317), G. PRADEEP KUMAR (17HP1A0328), JEEVANSON (18HP5A0307)** in partial fulfillment of the requirements of the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** in record of the work carried by them during the academic year.

  
Signature of project guide 12/7/21

**Mr. G.G. SRINIVASU**  
**ASSTISTANT PROFESSOR**  
Dept. Of Mechanical Engineering

  
Signature of HOD 12/7/2024

**Dr.M.Geeta Rani**  
Head of the department  
Dept. Of Mechanical Engineering

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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Vijayawada, Krishna District, Andhra Pradesh, Pin Code-520008

## CERTIFICATE

This is to certify that the Project Report Entitled “INVESTIGATION OF FRACTURE PARAMETERS OF COMPACT TENSION SPECIMEN REPAIRED BY STOP HOLE TECHNIQUE USING ANSYS (2020 R2)” submitted by **DOMMU TEJESH KUMAR** (17HP1A0344), **NALLAPU VYAS** (17HP1A0352), **JONEBOYINA ZENITH** (17HP5A0354), **MELAM ANIL** (18HP5A0318) submitted in partial fulfillment for the award of the degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** to **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Kakinada during the Academic Year 2020-2021 is a record of a Bonafide work carried out by them under my guidance and supervision.

Mr. JOHN RAJA RAVI KIRAN KOPELLI

Assistant Professor

PROJECT GUIDE

Dr. M. GEETA RANI

Associate Professor

Head of the Department

INTERNAL EXAMINER

EXTERNAL EXAMINER



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Vijayawada, Krishna District, Andhra Pradesh-520008

2017-2021

## **CERTIFICATE**

This is to certify that the project report entitled “**DRAFTING AND FABRICATION OF CRANE HOOK**”, being submitted by **P.SUREEN SEKHAR (17HP1A0399)**, **N.SWATHIK (17HP1A03A1)**, **S.VAMSI (17HP1A03A6)**, **CH.VEDAVYAS (17HP1A03A8)** in partial fulfilment for the award of degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** to **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA** in Bona fide work Carried out by them under the guidance during the academic year 2020-2021 and it has been found worthy of acceptance according to the requirements of the university.

  
Project Guide 15/7/21

**Mr. E. DURGESH**

Assistant professor

  
15/7/21  
Head of the Department

**Dr. M. GEETHA RANI**

Associate professor

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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Vijayawada, Krishna District, Andhra Pradesh, PinCode-520008

**CERTIFICATE**

This is to certify that the Project Report Entitled “**DESIGN AND ANALYSIS ON KNUCKLE JOINT**” submitted by **MD. NASIR AHMED (17HP1A0380)**, **P. SRUTHI KIRAN (17HP1A0395)**, **S. SURESH (17HP1A03A0)**, **B. VINAY (17HP1A03B0)** in partial fulfillment for the award of the degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** to **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**, Kakinada during the Academic Year **2017-2021** is a record of a Bonafide work carried out by them under my guidance and supervision.

**Mr. S. P. K. MITHRA**  
Assistant Professor  
PROJECT GUIDE

**Dr. M. GEETA RANI**  
Associate Professor  
HEAD OF THE DEPARTMENT

INTERNAL EXAMINER

EXTERNAL EXAMINER

**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project work **“WORKING ON DEVELOPMENT AND FABRICATION OF ELECTROMAGNETIC ENGINE”** is a bonafide record work done by **A.N.S. HARSHA VARDHAN (17HP1A0379), P. IGNATIUS (18HP5A0324), K.N.D. GOPAL KRISHNA (18HP5A0326) & M. RAMA KRISHNA (18HP5A0328)** in a partial fulfillment of the requirement for the award of Bachelor of Technology (B. Tech) in **Mechanical Engineering** by JNTUK Kakinada.

**Dr. B. SUDHEER KUMAR**  
Associate Professor  
Project Guide

**Dr. M. GEETA RANI**  
Associate Professor  
Head of the Department

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**





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Vijayawada, Krishna District, Andhra Pradesh, PinCode-520008

## **CERTIFICATE**

This is to certify that the Project Report Entitled “**DESIGN AND ANALYSIS ON COTTER JOINT**” submitted by **R. BHANUPRASAD (17HP1A0311), S. BHANU KUMAR (17HP1A0313), P. HEMANTH (17HP1A0318), B. SRIHARSHA (18HP5A0311)** in partial fulfillment for the award of the degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** to **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**, during the Academic Year **2017-2021** is a record of a Bonafide work carried out by them under my guidance and supervision.

**Mr. S. P. K. MITHRA**

Assistant Professor

PROJECT GUIDE

**Dr. M. GEETA RANI**

Associate professor

HEAD OF THE DEPARTMENT

INTERNAL EXAMINER

EXTERNAL EXAMINER

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VIJAYAWADA-520008

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify the project report entitled “**INVESTIGATION ON AL6061-AL2O3 COMPOSITE MATERIALS BY POWDER METALURGY TECHNIQUE**” submitted by **M. ARJUNA RAO (18HP5A0303), N. PREM KUMAR (17HP1A0330), K. JAGADEESHBABU (17HP1A0319), R. LAKSHMI NARAYANA (15HP1A0322)** in partial fulfillment of the requirements of the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** in record of the work carried by them during the academic year.

*Madhu E*  
*13/7/21*  
**Signature of project guide**  
**E. MADHU SRUTHI**  
Assistant Professor  
Dept. Of Mechanical Engineering

*Dr. M. Geeta Rani*  
*13/7/2021*  
**Signature of HOD**  
**Dr. M. Geeta Rani**  
Head of the department  
Dept. Of Mechanical Engineering

**INTERNAL EXAMINER**


**EXTERNAL EXAMINER**

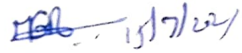
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(An ISO 9001:2008 Certified Institution)  
Vijayawada, Krishna District, Andhra Pradesh, Pincode-520008



## **CERTIFICATE**

This is to certify that the Project Report Entitled “CUSTOMNER CENTRIC SCHEDULING IN JOB SHOPS” submitted by **B. MANIKANTA (17HP1A0378)**, **P. SRI HARSHA (17HP1A0391)**, **CH. SUMANTH(17HP1A0397)**, **T. VISHNU VARDHAN(17HP1A03B1)**, in partial fulfilment for the award of the degree of **BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING** to **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA, Kakinada** during the Academic Year 2017-2021 is a record of a bonafide work carried out by them under my guidance and supervision.

  
**Dr. O. MAHESH**  
Professor  
PROJECT GUIDE

  
**Dr. M. GEETA RANI**  
Associate Professor  
Head of the Department

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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Krishna District, Andhra Pradesh, VIJAYAWADA-520008

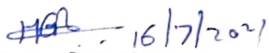
## **CERTIFICATE**

This is to certify that the project report entitled “**MODELLING AND MACHINING OF CONTROL ARM**” Submitted by **S. KIRANMAI (17HP1A0301), K. PRAVALLIKA (17HP1A0303), B. MANVITHA (17HP1A0361), L. KAVITHA (18HP5A0302)** in the partial fulfilment for the award of the degree of **BACHELOR OF TECHNOLOGY** in **MECHANICAL ENGINEERING** to **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA** during the Academic Year 2017-2021 is a record of a bona fide work carried out by them under my guidance and supervision.

  
Signature of Project Guide

**Mrs. B. SUSMITHA**  
**ASSISTANT PROFESSOR**

**Internal Examiner**

  
Signature of H.O.D

**Dr. M. GEETHA RANI**  
**ASSOCIATE PROFESSOR**

**External Examiner**

**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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Vijayawada, Krishna District, Andhra Pradesh. Pincode-520008

2017-2021

**Department of Mechanical Engineering**



**CERTIFICATE**

This is to certify that the project entitled "DESIGN & FABRICATION OF SOLAR POWER HACKSAW". is submitted by **D. CHARAN TEJA (17HP1A0315), J.JONAN BENEDECT (17HP1A0322), P. GIRISH CHANDHRA (18HP5A0305), G. RAM GOPAL (18HP5A0310)** in partial fulfilment of the requirement of degree of Bachelor of Technology (B. Tech) in **Mechanical Engineering** in record of work carried by them during academic year.

*K. Tejaswarup*

**Signature of project guide**

**MR. K. TEJA SWARUP**

Assistant Professor

Dept. of Mechanical Engineering

*HGR 12/7/2021*

**Signature of HOD**

**DR. M. GEETA RANI**

Head of the Department

Dept. of Mechanical Engineering

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



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(An ISO 9001:2008 Certified Institution)  
Vijayawada, Krishna District, Andhra Pradesh, Pincode-520008  
2017-2021

## CERTIFICATE

This is to certify that the Project Report Entitled “FABRICATION OF PNEUMATIC SHEET METAL CUTTER” submitted by M.CHANDU (17HP1A0365), N.EMMANUEL (17HP1A0369), I.GANAPATHI(17HP1A0371), SK.ZAKAVULLA (18HP5A0317) in partial fulfillment for the award of the degree of BACHELOR OF TECHNOLOGY in MECHANICAL ENGINEERING to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA, Kakinada during the Academic Year 2017-2021 is a record of a bonafide work carried out by them under my guidance and supervision.

*K.UDAY KIRAN*

**K.UDAY KIRAN**  
Assistant Professor  
PROJECT GUIDE

*M. GEETA RANI*  
13/7/2021

**Dr. M. GEETA RANI**  
Associate Professor  
Head of the Department

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND  
TECHNOLOGY, VIJAYAWADA**

**Department of Mechanical Engineering**



**CERTIFICATE**

This is to certify that the project entitled "**Fabrication of portable windmill for electric vehicle**", being submitted by **K.S.L SATYA MOHAN(17HP1A0341), SHAIK VAZAHETULLA (17HP1A0345), CH.VENKATA SURENDRA REDDY(17HP1A0349), DHEERAJ PIDIKITI(17HP1A0367)** in partial fulfilment for the award of degree of **Bachelor of Technology (B.Tech)** In Mechanical Engineering is Bonafide work carried out by them under my guidance during the academic year **2020-2021** and it has been found worthy of acceptance according to the requirements of the university.

Signature of project guide

**Mr G. NARESH**

**Asst. Professor**

Internal examiner

Signature of HOD

**DR.M. GEETHA RANI**

**Head of the department**

External examiner

**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Approved by AICTE & Affiliated to JNTU, Kakinada).

(An ISO 9001:2008 certified institution)

VIJAYAWADA-520008

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

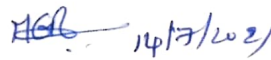
This is to certify the project report entitled "**DESIGN AND FABRICATION OF A BAG WITH UMBRELLA AND CHAIR**" submitted by **AAKASH BOSE (17HP1A0305), G. GOPI KRISHNA (17HP1A0316), V. PRAKASH (17HP1A0329), V. MANIKANTA (18HP5A0308)** in partial fulfilment of the requirements of the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** in record of the work carried by them during the academic year.



**Signature of project guide**

**T. V. Srinivasa Rao**  
Asst. Professor  
Dept. Of Mechanical Engineering

**INTERNAL EXAMINER**



**Signature of HOD**

**Dr. M. Geeta Rani**  
Head of the department  
Dept. Of Mechanical Engineering

**EXTERNAL EXAMINER**




**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND  
TECHNOLOGY, VIJAYAWADA**  
**Department of Mechanical Engineering**



**CERTIFICATE**

This is to certify that the project entitled "MODELLING MANUFACTURING OF UNIVERSAL COUPLING USING CNC MILLING & TURNING", being submitted by S.V.V. NAGARARAJU(17HP1A0346), R. VENKATA DURGA RAO(18HP5A0314) and SK. YUSAF(18HP5A0316) in partial fulfilment for the award of degree of **Bachelor of Technology (B. Tech)** in Mechanical Engineering in bonafide work Carried out by them under the guidance during the academic year 2020-2021 and it has been found worthy of acceptance according to the requirements of the university.

  
13/7/21  
**MR. M. SRINIVASA REDDY, Mtech**  
Assistant Professor

  
13/7/2021  
**DR. M. GEETHA RANI, Ph.D**  
Head Of The Department.

**Internal Examiner**

**External Examiner**

**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND  
TECHNOLOGY, VIJAYAWADA**

**Department of Mechanical Engineering**



**CERTIFICATE**

This is to certify that the project entitled "MOVEMENT OF MINI CONVEYOR USING GENEVA MECHANISM", being submitted by P.VENKAIAH NAIDU (17HP1A0347), B.DINESH (17HP1A0368), MD.KABEER (17HP1A0376), M.SURYA TEJA (18HP5A0312), in partial fulfilment for the award of degree of **Bachelor of Technology ( B.Tech )** In Mechanical Engineering is bonafide work carried out by them under my guidance during the academic year **2020-2021** and it has been found worthy of acceptance according to the requirements of the university.

  
**Mr T.V.SRINIVASA RAO**

Project Guide

  
**DR.M.GEETHA RANI**

Head of the Department

**Internal examiner**

**External examiner**

**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND  
TECHNOLOGY, VIJAYAWADA**  
**Department of Mechanical Engineering**

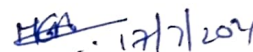


**CERTIFICATE**

This is to certify that the project entitled “**POWER GENERATION BY EXHAUST GASES OF AN ENGINE**”, being submitted by **P. SAI (17HP1A0336), D. SURYA SAI (17HP1A0342), R. JAMES (17HP1A0375) and Y. GITTITH PRABHU (18HP1A0321)** in partial fulfilment for the award of degree of **Bachelor of Technology (B. Tech)** in Mechanical Engineering in bonafide work Carried out by them under the guidance during the academic year 2020-2021 and it has been found worthy of acceptance according to the requirements of the university.

  
**Signature of project guide**

**MR. B. RAMARAO**  
**Asst. Professor**  
**Dept. of Mechanical Engineering**

  
**Signature of HOD**

**DR. M. GEETHA RANI**  
**Head of the Department**  
**Dept. of Mechanical Engineering**

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Mechanical Engineering



**CERTIFICATE**

This is to certify that the project entitled "AUTOMATIC BRAKE FAILURE INDICATOR AND ENGINE OVERHEATING ALARM" is submitted by A.TEJA (17HP1A03A3), A.TEJA (17HP1A03A4), A.SAI VENKATA DURGA RAO (18HP5A0330), G.THAVITINAIDU (18HP5A0333) in partial fulfilment of the requirement of degree of Bachelor of Technology (B. Tech) in **Mechanical Engineering** in record of work carried by them during academic year.

*K. Tejaswarup*

Signature of project guide

**MR. K. TEJA SWARUP**

Assistant Professor

Dept. of Mechanical Engineering

*HGR*  
*15/7/2021*

Signature of HOD

**DR. M. GEETHA RANI**

Head of the Department

Dept. of Mechanical Engineering

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Approved by AICTE& Affiliated to JNTU, Kakinada),

(An ISO 9001:2008 certified institution)

VIJAYAWADA-520008

**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify the project report entitled “**FABRICATION OF SOLAR CHARGED ELECTRIC GO-KART**” submitted by **T. AJAY BABU (17HP1A0306), M. RICHARD DHYAN DHEEP(17HP1A0334), B.ROHIT SAI SHANKAR(17HP1A0335), SK.GOUSE BASHA(18HP5A0306)** in partial fulfillment of the requirements of the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** in record of the work carried by them during the academic year.

*MGR* 12/7/2021

**Signature of project guide**

**Dr. M. Geeta Rani**  
Associate Professor  
Dept. Of Mechanical Engineering

**INTERNAL EXAMINER**

*MGR* 12/7/2021

**Signature of HOD**

**Dr. M. Geeta Rani**  
Head of the department  
Dept. Of Mechanical Engineering

**EXTERNAL EXAMINER**



# ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi and affiliated to JNTU Kakinada

Accredited by NAAC & an ISO 9001:2015 Certified Institution

Vijayawada-520008

2017-2021

## CERTIFICATE

This is to certify that the project report entitled “DIE MANUFACTURING OF CONNECTING ROD USING SINUMERIK 828D” submitted by **SK. SALEEM (17HP1A0388)**, **K. SUJITH CHOWDARY (17HP1A0396)**, **M. VEERA BHARGAV (17HP1A03A9)** AND **R. SUNIL KRISHNA (18HP5A0331)** in partial fulfilment of requirements of the degree of the Degree of Bachelor of Technology in **MECHANICAL ENGINEERING** in a Bonafide record of the work carried out by them during the academic year 2017-2021.

Signature of the Project Guide

**Dr. B. Sudheer Kumar**

Associate Professor

Dept. Mechanical Engineering

Signature of HOD

**Dr. M. Geetha Rani**

Associate Professor

Dept. Mechanical Engineering

Internal Examiner

External Examiner

Cert. No: SIP-tSDI - 10741

PIN: 17HP1A0389



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Dooda Siva Kumar

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10742

PIN: 18HP5A0316



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Shaik Yusaf

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

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*at*

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**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC



Cert. No: SIP-tSDI - 10743

PIN: 17HP1A0348



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ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Muvva Venkata Sivagopi

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

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*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

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*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10744

PIN: 17HP1A0343



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Daram Tarun Venu

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

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*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10745

PIN: 17HP1A0301



(APSSDC)  
**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**

*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Seru Kiranmai

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

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**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10746

PIN: 18HP5A0323



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*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Tirumani Govinda Raju

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10747

PIN: 17HP1A0393



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**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

**Akula Srikanth**

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10748

PIN: 17HP1A0346



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**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**

*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

**Sykam Veera Venkata Nagaraju**

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

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**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10749

PIN: 17HP1A0386



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

**Bobbili Raviteja**

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10750

PIN: 17HP1A03A9



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Murala Veera Bhargav

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC



Cert. No: SIP-tSDI - 10727

PIN: 18HP5A0302



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Lam Kavitha

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10728

PIN: 17HP1A0399



(APSSDC)  
**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**

*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Patibandla Sureen Sekhar

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10729

PIN: 17HP1A0350



(APSSDC)  
**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**

*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Dara Vidhya Sagar

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10730

PIN: 17HP1A0324



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Sripathi Malleswar

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10731

PIN: 17HP1A03A8



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Chillapalli Vedavyas

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

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**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10732

PIN: 17HP1A0388



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Shaik Saleem

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10733

PIN: 18HP5A0314



(APSSDC)  
**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**

*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Rajamandri Venkata Durga Rao

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10734

PIN: 17HP1A03A1



(APSSDC)  
**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**

*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

**Nuthakki Swathik**

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC



Cert. No: SIP-tSDI - 10735

PIN: 17HP1A0396



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Katragadda Sujith Chowdary

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10736

PIN: 17HP1A0323



(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Manda Mahidharreddy

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10737

PIN: 18HP5A0322



(APSSDC)  
**ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION**

*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

**Gunja Gopala Krishna**

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
**Sri N. Bangaru Raju,**  
MD, APSSDC

Cert. No: SIP-tSDI - 10738

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(APSSDC)

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION



*CERTIFICATE OF TRAINING*

*This certificate is awarded to*

Regulagedda Sunil Krishna

*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

**For Successfully Completing the**

**INTERNSHIP PROGRAM**

*in*

**NX CAM & CNC MACHINING**

*at*

**t-SDI, Andhra Loyola Institute of Engineering and Technology, Vijayawada**

*from*

**15-04-2021 to 17-07-2021**

*S.V.V Ramana*  
**S.V.V Ramana**  
Project Director  
APSSDC

*Sri N. Bangaru Raju*  
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**INTERNSHIP PROGRAM**

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**NX CAM & CNC MACHINING**

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*Andhra Loyola Institute of Engineering and Technology, Vijayawada*

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**INTERNSHIP PROGRAM**

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