A
PROJECT REPORT
ON

Fabrication of 3D Printer

A project report submitted in partial fulfillment of the requirements for the award of the

Degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

SUBMITTED BY

CHINTAKAYALA ADI VAMSI	**19815A0308**
GORLI SAI JAGADEESH	**19815A0319**
KANDREGULA SAI SANDEEP	**19815A0326**
GURRAM TEJA	**19815A0322**
OMMI PARAMESH	**18811A0320**

Under the esteemed guidance of
Y. JAYA SANTHOSHI KUMARI M.Tech,(Ph.D)
Assistant professor

DEPARTMENT OF MECHANICAL ENGINEERING

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An NACC & N.B.A. Accredited institution, Approved by AICTE, Affiliated to
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AVANTHI INSTITUTE OF ENGINEERING ANDTECHNOLOGY
(APPROVED BY A.I.C.I.T.E AFFILIATED TO JNTU-KAKINADA, A.P)
(AN NAAC & N.B.A ACCREDITED INSTITUTION)

TAMARAM, MAKAVARAPALLEM, VISAKHAPATNAM-531113

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is certify that the project work entitled **"Fabrication of 3D printer"** is a bonafied record of work done by CHINTAKAYALA ADI VAMSI(19815A0308), GORLI SAI JAGADEESH(19815A0319), KANDREGULA SAI SANDEEP(19815A0326), GURRAM TEJA(19815A0322), OMMI PARAMESH(18811A0320) in partial fulfilment of the requirement for the award of Bachelor of technology in MECHANICAL ENGINEERING by Jawaharlal Nehru technological university, Kakinada During the year 2018-2022.

PROJECT GUIDE

HEAD OF DEPARTMENT

Y. JAYA SANTHOSHI KUMARI M.Tech, (Ph.D)

V. HARIKIRAN M.Tech, (Ph.D)

EXTERNAL EXAMINER

Abstract

Fabrication of 3D printer

The Goal of the project is to develop the Desktop 3D printer. 3D printing is a process of prototyping where by a structure is synthesized from a 3d model. The 3d model is stored in as a STL format and after that forwarded to a 3D printer. It can use a wide range of materials such as ABS, PLA, and composites as well. 3D printing is a rapidly developing and cost optimized form of rapid prototyping. The 3D printer prints the CAD design layer by layer forming a real object. 3D printing process is derived from inkjet desktop printers in which multiple deposit jets and the printing material, layer by layer derived from the CAD 3D data. 3D printing significantly challenges mass production processes in the future. This type of printing is predicted to influence industries, like automotive, medical, education, equipment, consumer products industries and various businesses.