SKYLINE INSTITUTE OF ENGINEERING & TECHNOLOGY,G.NOIDA

A Project on

HUMANOID ROBOT

Submitted for partial fulfillment of award of

BACHELOR OF TECHNOLOGY

in

Mechanical Engineering

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Certificate

Certified that **Mohd Monish, Govind Singh, Mohd Atiqur Rahaman, Mayank Rai, AdityaVikram Singh, Vineet Jaiswal** has carried out the work presented in this project report entitled **"HUMANOID ROBOT"** for the award of **Bachelor of Technology** from Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow under my supervision.

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ABSTRACT

A Humanoid Robot is a Robot with its body shaped design & assembled to resemble the human body. Its design maybe intended for functional purposes, such as interacting with human tools & environments, for experimental purposes, such as the study of bi-pedal locomotion or for other purposes.

When it comes to the design of the humanoid robot in general humanoid robot has a torso, a head, 2 arms & 2 legs, though some forms of humanoid robot may model only part of the body, for example, for the waste up. Some humanoid robot also have head design to replicate human facial features such as eyes & mouth. Androids are humanoid robot built to aesthetically resemble humans.

The purposes of humanoid robot are vast & amazing, humanoid robot are now used as a research tool in several scientific areas.

Although the initial aim of humanoid research was to build better orthosis & prosthesis for human beings, knowledge has been transferred between both disciplines.

Besides the research, humanoid robot are being developed to perform human task like personal assistant.

In this project we have design & assembled a humanoid robot with aluminum sheet as the main structural material or the thickness of the sheet used is 2.5mm. We have programmed this robot for the purpose of personal assistance.

As this robot performs it functions on the basis of commands given by us.

Our project is a very significant step in the field of robotics world as we will explore the amazing functions of a humanoid robot.

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Symbol	Particulars
N	Speed of rotation
KW	Kilo watt
DC	Direct Current
AC	Alternate Current
T	Torque
V	Volt
cm	centimeter
Kg	kilogram
AD	Anno Domini (In the year of lords)
BC	Before Christ
mAH	milli-ampere hour
mm	millimeter
Hz	Hertz
GND	Ground
KB	kilobyte
A	Ampere
C	Celsius
MPa	Mega Pascal
W	Weight
m	Mass
F	Force
FOS	Factor of Safety