

A TECHNICAL SEMINAR REPORT ON

INTERNET OF THINGS (IOT)

Bachelor of Technology in Electrical and Electronics Engineering

By

D.KIRAN (22PT5A0210)

Under the Guidance of

Mrs.M.Ragini (Assistant Professor, Department of EEE)



Department of Electrical and Electronics Engineering

Aavanthi's Scientific Technological & Research Academy
(Approved by AICTE, Affiliated to JNTUH)

Gunthapally Village, Hayath nagar (M), RR Dist Near Ramoji Film City Hyderabad

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A technical seminar report submitted to the Jawaharlal Nehru Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Electrical and Electronics Engineering

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Gunthapally Village, Near Ramoji Film City, Hayathnagar(M),RR Dist Hyderabad

(2022-2025)

CERTIFICATE

This is to certify that the technical seminar report entitled "INTERNET OF THINGS (IOT)" Submitted by DURGAM KIRAN (22PT5A0210) in partial fulfilment for the award of B. Tech in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University is a record of Bonafide work carried out by him under our guidance and supervision.

The results embodied in this technical seminar report have not been submitted to any other university or institute for the award of any degree or diploma.

Signature of Supervisor/Guide

Signature of Head of the Department

Mrs.M.Ragini

Dr. T. Kranthi kumar (professor&HOD)



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TECHNICAL SEMINAR EVALUATION CERTIFICATE

This is to certify that the technical seminar work entitled "INTERNET OF THINGS (IOT)" submitted by DURGAM KIRAN (22PT5A0210) has been examined and adjudge as sufficient for the partial fulfilment of the requirement of the degree of Bachelor of Technology in Electrical and Electronics Engineering of Jawaharlal Nehru Technological University, Hyderabad.

Internal Examiner:	
<u>(S</u>	ignature with Date)
Head of the Department:	
	(Signature with Date)

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By

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ABSTRACT

The Internet of Things (IoT) is a revolutionary concept that refers to the network of physical devices, vehicles, appliances, and other items embedded with sensors, software, and network connectivity, which enables these objects to connect and exchange data. IoT brings the power of the internet, data processing and analytics to the real world of physical objects.

By connecting everyday devices to the internet, IoT opens up a host of new opportunities and challenges. It allows for virtually endless connections to be made; this can lead to improved efficiency, accuracy, and economic benefit. It can also enable improved quality of life through applications in health and fitness, home automation, transportation, and more.

However, IoT also presents significant challenges, particularly in the areas of security, privacy, interoperability, and standards. As the number of connected devices continues to grow, so do the potential risks and vulnerabilities.

Despite these challenges, the future of IoT looks promising, with new technologies such as artificial intelligence and machine learning paving the way for more advanced and sophisticated IoT applications. As we continue to explore and innovate in this field, the impact of IoT on our lives and society is expected to be profound.