



SEP-DEC 2025 (Vol-23)

Vision of EEE Department:

To become a role model department where students are nurtured to achieve multidisciplinary skills leading to their employability, research and can contribute to the society.

Mission of EEE Department

1. To implement effective learning Strategies with a well-structured curriculum and assessment methods
2. To develop expertise in emerging technologies through collaboration with industry and Academic institutions.
3. To prepare socially responsible Engineers by promoting sustainable practices to address societal needs, enhance employability and contribute to the quality education.



Chief Editor

Mr K. SURESH, HOD

Editors

Mrs. U. DIVYA, Asst. Professor

Learning Strategies



HITAM-EEE
News Letter



HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT
EEE DEPARTMENT

Program Educational Objectives

PEO1: Graduates will have a successful technical or professional career, including supportive and leadership roles on multidisciplinary teams.

PEO2: Graduates will be able to acquire, use and develop skills as required for effective professional practices.

PEO3: Graduates will be able to attain holistic education which is an essential prerequisite for being a responsible member of society.

Program Specific Outcomes

PSO1: Analyze, Model, Test and provide engineering solutions in the areas related to electric drives, control, and power systems.

PSO1: Apply fundamentals of electrical engineering to simulate and develop electrical and electronic systems using MATLAB, and PSPICE tools.

Paper Publication

S.no	Faculty Name	Journal Name/Book chapter/Conference	Title	Year
1.	Ms P.Madhavi Mr , S. V. Satyanarayana	<i>AIP Conference</i>	<i>Prediction of energy requirement and supply using supervised machine learning algorithms</i>	<i>Sep. 2025</i>

- *P. Madhavi, S. V. Satyanarayana, S. M. Naik, S. V. Devika, and A. Siddapuram, "Prediction of energy requirement and supply using supervised machine learning algorithms," AIP Conference Proceedings, vol. 3342, no. 1, Art. no. 030010, Sep. 2025, doi: 10.1063/5.0296338 (SCOPUS).*

Faculty Achievements

- *Dr M. Chiranjeevi Working as Associate Professor in EEE Dept, successfully completed the NPTEL Online Certification Course (July-Oct, '25) in Database Management systems with a consolidate score of 54%.*
- *Mr.K.Suresh Working as Associate Professor in EEE Dept, successfully completed the NPTEL Online Certification Course (July-Oct, '25) in Database Management systems with a consolidate score of 53%.*



The image shows a certificate from NPTEL Online Certification. It is awarded to M Chiranjivi for successfully completing the course 'Data Base Management System' with a consolidated score of 54%. The certificate includes a table with the following data:

Online Assignments	21.04/25	Proctored Exam	33/75
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Below the table, it states: Total number of candidates certified in this course: 7186

The certificate also features the NPTEL logo on the left, the Skill India logo on the right, and a portrait of the recipient, M Chiranjivi.



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)



This certificate is awarded to

K SURESH

for successfully completing the course

Data Base Management System

with a consolidated score of **53** %

Online Assignments	19.38/25	Proctored Exam	33.75/75
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Total number of candidates certified in this course: **7186**

Jul-Sep 2025

(8 week course)



Banerji
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL26CS145S537001532

To verify the certificate



No. of credits recommended: 2 or 3

- Mrs U.Divya, Mrs T.Sirisha, Mrs M. Rani, Mr M.Siddartha, working as Assistant professor in EEE dept, Published a patent titled **"LIGHTIDS : LIGHTWEIGHT STATISTICAL AND DEEP LEARNING HYBRID INTRUSION DETECTION SYSTEM"** dated on 19th Dec-2025.

(12) PATENT APPLICATION PUBLICATION (21) Application No.202541106023 A
(19) INDIA
(22) Date of filing of Application :03/11/2025 (43) Publication Date : 19/12/2025

(54) Title of the invention : LIGHTIDS : LIGHTWEIGHT STATISTICAL AND DEEP LEARNING HYBRID INTRUSION DETECTION SYSTEM "

(51) International classification	G06N 3/04, G06N 3/08, H04L 29/06, G06F 21/55, H04L 12/26	(71)Name of Applicant : 1)HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT Address of Applicant :HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT, GOWDAVELLY(VILLAGE), NEAR KOMPALLY, MEDCHAL(MANDAL), MEDCHAL-MALKAIGIRI(DISTRICT), TELANGANA, INDIA-501401 Telangana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Thirangi Sririsha 2)Nethani Shivakumar 3)Ugumudi Divya 4)P. Ramana 5)Shaik Meer Subhani Ali 6)M.Rani 7)MALLARAPU SIDDARTHA 8)CHINDALA THARUN KUMAR 9)Afreen Subuhi
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract:
Abstract The present invention, LightIDS: Lightweight Statistical and Deep Learning Hybrid intrusion Detection System, provides an efficient and scalable framework for real-time network intrusion detection. The system integrates a statistical pre-filtering module with a deep learning classification module to accurately detect normal, known, and zero-day attacks. The statistical module reduces computational overhead by filtering benign traffic using techniques such as moving averages, Z-scores, and percentile thresholds. The deep learning module, employing architectures such as CNN, RNN, LSTM, or Transformer, classifies the remaining traffic for malicious behavior. The system optionally incorporates data augmentation using Generative Adversarial Networks (GANs) to address class imbalance and improve detection accuracy. LightIDS is designed for deployment in resource-constrained devices, edge computing environments, distributed networks, and cloud platforms, enabling real-time alerts and automated responses while maintaining high accuracy. The hybrid approach provides a lightweight, robust, and scalable solution for modern cybersecurity challenges, including zero-day attacks and evolving network threats.
No. of Pages : 10 No. of Claims : 6

- Mr K.Suresh, working as Associate professor in EEE dept, Presented a paper titled "Smart Flyback-Based Converter System For Efficient Solar-Powered BLDC Motor Drives" Smart world 2025 Third International Conference on Intelligent Systems in

Mechanical, Civil, Electronics, Computer, Science & Management jointly organized by BTI & RSP Conference Hub on 1st & 2nd Dec, 2025.



- Mrs U.Divya ,Mrs T,Sirisha,N. Sunitha,K.Swathi, Samreena, R.Yaswanth , Duel Motor Electric Vehicle with Torque Vectoring, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) Volume 14, Issue 12 ,19 December – 2025.



- Mrs T. Sirisha, working as Assistant professor in EEE dept, Presented a paper titled “PLC Based load automation system” iCREATE 2025 international conference held on 27.12.2025 – 28.12.2025 in Coimbatore, Tamil Nadu, India .

CERTIFICATE

Of Participation

This Certificate is Presented to

T.Sirisha

Faculty, Department Of Electrical And Electronics Engineering, Hyderabad Institute Of Technology And Management (Hitam), Hyderabad, India

has successfully presented the research paper titled

PLC Based load automation system

at the **"iCREATE 2025: International Conference on Research, Engineering, and Advanced Technologies in Computing & Management"**- Jointly Organized by Department of Management, Ballari Institute of Technology & Management (BITM), Karnataka, India & Global Conference Hub, Coimbatore, Tamil Nadu, India on **27.12.2025 - 28.12.2025**.



Global Conference Hub

Dr. Shaheeda Banu S
Professor, Department of Management Studies (DMS), Ballari Institute of Technology and Management, Karnataka, India.

Dr. Janet Jyothi D'souza
HOD DMS, Ballari Institute of Technology and Management, Karnataka, India.

Dr. Yadavalli Basavaraj
Principal, Ballari Institute of Technology and Management, Karnataka, India.

Prof. Prithviraj
Director & Pro-Chancellor, Kishkinda University Bhupal, Ballari Institute of Technology and Management, Karnataka, India.

Faculty Participations

- Mrs U.Divya, working as Assistant professor in EEE dept, successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP on “**Electrify 5.0: The Next Generation of Smart Transport at ASHOKA WOMEN’S ENGINEERING COLLEGE** from 15/09/2025 to 20/09/2025.



- Mrs T.Siraha, working as Assistant professor in EEE dept, successfully Participated and Got the Certificate Course On” VLSI For beginners“ Organized by NIELIT Calicut dated on 10th to 14th SEP-2025



- Mrs T.Sirisha, working as Assistant professor in EEE dept, successfully Participated and completed AICTE Training and Learning (ATAL) Academy FDP on “**Integrating IoT and MaaS for Future Urban Mobility: A Smart and Sustainable Transportation Framework**”at Hyderabad Institute of Technology and Management Dated on 13/10/2025 to 18/10/2025



- Mrs.T.Sirisha, working as Assistant professor in EEE dept, successfully Participated and Got the Certificate Course On” Micro Python For beginners“ Organized by NIELIT Calicut dated on 24th to 28th Nov-2025.



- Mrs. Maduguri Rani working Assistant Professor in EEE Dept got the participation Certificate For successfully completing the three-day Faculty Development Program on Robotics and Automation in Smart Manufacturing Systems for Industry 4.0, organized by the Department of Mechanical Engineering & HITAM dated on *18th to 20th December 2025*.



- Mr M.Siddartha working Assistant Professor in EEE Dept got the participation Certificate For successfully completing the three-day Faculty Development Program on Robotics and Automation in Smart Manufacturing Systems for Industry 4.0, organized by the Department of Mechanical Engineering & HITAM dated on *18th to 20th December 2025*.



Student Achievements

- B.Srivalli Studying in III EEE got the participation certificate in BUIDATHON 2025-Model Showcase Competition organized by Anurag University on 15 Sep2025.



- Nimmala Pravalika III EEE student got the Certificate of Participation / Completion in National Cadet Corps (NCC) at Andhra Pradesh & Telangana Trek – III Camp Regimental Number: TG2023SWA161049 Rank: Cadet NCC Unit: 5 (T) BN NCC, Hyderabad Camp Organized By: Andhra Pradesh & Telangana NCC Directorate Camp Venue: RVR & JC College of Engineering, Chowdavaram, Guntur Camp Duration: 28 September 2025 to 05 October 2025 Conducted By: 22 Andhra Battalion NCC, Tenali Station: Guntur Certificate Date: 05 October 2025.



- IV EEE student K pranay got the certificate in participated in the Telangana rising vision 2047 servey on 14-10-2025.



Student Publications

- Salava V Satyanarayana, D Nikesh, B Aravind, B Ganesh, K Manasa, 2025, Automotive Glare Suppression and Night Vision Assistance, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) Volume 14, Issue 11 , November – 2025, 10.17577/IJERTV14IS110298
- Salava V Satyanarayana, K Malleshwari, Adupa Sindhuja, A Akhil Nandhan, Challa Sai Kiran, B Praveen Sai, 2025, Smart Helmet for Electrical Line Workers, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) Volume 14, Issue 11 (November 2025).



- Mrs T, Sirisha, Mrs U. Divya, Karthik, pooja, Arman. Ayush 2025, Smart Solar Web Controlled MultiFunction AgriBot, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) Volume 14, Issue 11, 24 November – 2025.



- Mrs T,Sirisha,Harsha, “Testing of single phase transformer Using MATLAB “, MUKT Shabd Journal Volume 14, Issue 11 ,24 November – 2025.



- IV EEE student K pranay got the certificate in participated in the Section Student Congress 2025 from IEEE HITAM Student Branch held on 13 Dec 2025 organized by Vardaman College Of Engineering, Hyderabad.

IEEE Hyderabad Section

SECTION
STUDENT
CONGRESS
25



IEEE
HYDERABAD SECTION

CERTIFICATE

OF PARTICIPATION

This certificate is awarded to

KALVA PRANAY

from IEEE HITAM Student Branch

for actively participating in the **Section Student Congress 2025**, held on 13th December 2025,
organized by the Student Activities Committee of the IEEE Hyderabad Section at
Vardhaman College of Engineering, Hyderabad, Telangana.

Your enthusiasm and engagement throughout the event are sincerely appreciated.

Dr. G SREE LAKSHMI
CHAIR - STUDENT ACTIVITIES COMMITTEE (SAC)
IEEE HYDERABAD SECTION

Mr. MGPL NARAYANA
CHAIRMAN
IEEE HYDERABAD SECTION