



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

List of faculty members involved in student innovative projects.

2025-2026

Sl. No.	Name of the Faculty	Name of the Project/ Initiative/ Event	Date of Event	Place of Event/Company	Website Link if any
1	Dr. Jayanth J Dr. Shyamala C	Online Condition Monitoring System for Dredge Pump-Lines Using Multi-Modal Sensing and Hybrid Communication for the challenge Online Condition Monitoring of Dredge Pump Lines.	21-10-2025	Tata Innoverse	https://tatasteeluisl.tatainnoverse.com/
2	Dr. Sushma S J	Nokia asset tracker: a centralized asset management system	03-11-2025	Nokia asset tracker	https://docs.google.com/document/d/1oYA2lwK-T1CMKf3z_vBZPcssY7CtfXuP/edit?usp=drive_link&oid=103642984291100811644&rtpof=true&sd=true
3	Dr. Thilagavathy	Vishwakarma 2026 - “Smart Health Monitoring system to check vitals”.	April 10 th to 11 th 2026	Cambridge Institute of technology, Bengaluru. (24 Hours Hackathon)	-
		Vishwakarma 2026 – “Saline Flow Block Detector”.	April 10 th to 11 th 2026	Cambridge Institute of technology, Bengaluru. (24 Hours Hackathon)	-
4	Padma R	The project implements a Smart Battery Health Monitoring System on the Renesas RA6E2 MCU, enhanced with liquid coolant monitoring and machine learning-based fault detection for EV applications.	12-09-2025	Renesas	-
5	Amrutha R	Durable Bipolar Plates for Fuel cell	02-10-2025	L&T (Techgium) online presentation	https://drive.google.com/u/0/open?usp=forms_web&id=1cMT289ZkRDJ4HBw7P-3mpw9rx8f5NHif



GSSS | GEETHA SHISHU SHIKSHANA SANGHA(R)

INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

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2024-2025

Sl. No.	Name of the Faculty	Name of the Project/ Initiative/ Event	Date of Event	Place of Event/Company	Website Link if any
1	Dr. Basavanna M	IoT Innovate-a-Thon	10-07-2024	GSSSIETW Mysuru in association with IEEE	-
2	Dr. M V Srinivas Rao	IoT Innovate-a-Thon	10-07-2024	GSSSIETW Mysuru in association with IEEE	-
3	Dr. Manjula G	Speech Controlled Wheelchair for physically disable people	14-03-2024	Karnataka State Council for Science and Technology- (KSCST)	-
4	Dr. Thilagavathy R	Survival and Rescue based water vehicle with IOT	14-03-2024	Karnataka State Council for Science and Technology- (KSCST)	-



2023-24

Sl. No.	Name of the Faculty	Name of the Project/ Initiative/ Event	Date of Event	Place of Event/Company	Website Link if any
1	Dr. Jayanth J Dr. Shyamala C	Assessing the age of underground mild steel pipes Through non-invasive method	31-03-2024	Tata Innoverse	https://tatasteeluisl.tatainnoverse.com/
2	Dr. Basavanna M	Smart India Hackathon- "Development of hand writing machine for physically disabled".	19 th to 23 rd December 2023	Bhilai Institute of Technology, Durg, Chhattisgarh	-
3	Bharathi R	Design and Development of auto power conversion for EV two-wheeler	19-04-2024	Karnataka State Council for Science and Technology- (KSCST)	-
		Fire Fighting Robot	19-04-2024	Karnataka State Council for Science and Technology- (KSCST)	-
4	Arpitha Shankar S I	Guardianbot: Advancing marine conservation through plastic cleaning and surveillance	19-04-2024	Karnataka State Council for Science and Technology- (KSCST)	-

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EEE: 01-07-2024 to 30-06-2027**Phone : 0821 - 2581304,4257304 / 2977306 Fax : 0821 - 2581305 Email : gsssegg@gmail.com, principal@gsss.edu.in Web : www.geethashishu.in****2022-23**

Sl. No.	Name of the Faculty	Name of the Project/ Initiative/ Event	Date of Event	Place of Event/Company	Website Link if any
1	Thilagavathy R	IOT Based wearable wrist band device for patients suffering from Alzheimer Disease	24-04-2023	Karnataka State Council for Science and Technology- (KSCST)	-
2	Nalina H D	Automatic medicine vending machine using RFID Technology for old age people	24-04-2023	Karnataka State Council for Science and Technology- (KSCST)	-
3	Padma R	IOT Based River Cleaning system	24-04-2023	Karnataka State Council for Science and Technology- (KSCST)	-

Fwd: Tata InnoVerse: Analyst has raised a query on your Solution

1 message

Jayanth J <jayanthnov8@gmail.com>
To: Shyamala C <shyamalac.phd@gmail.com>

Tue, Oct 21, 2025 at 4:00 PM

----- Forwarded message -----

From: **Tata InnoVerse** <tatainnoverse@tata.com>
Date: Tue, Oct 21, 2025, 11:30 AM
Subject: Tata InnoVerse: Analyst has raised a query on your Solution
To: <jayanthnov8@gmail.com>
Cc: <tatainnoverse-support@tata.com>

Dear Dr Jayanth J,

Your submission is under review and the Analyst has raised a query regarding your solution titled: Online Condition Monitoring System for Dredge Pump-Lines Using Multi-Modal Sensing and Hybrid Communication for the challenge Online Condition Monitoring of Dredge Pump Lines.

Please check & **respond online** quickly to enable completion of evaluation.

Click on the link to respond

Tata InnoVerse

If you do not respond within 2 days, your submission shall be evaluated based on information available in the form.

Please do not respond to this email. Responses MUST be logged online.

Regards,

Admin

NOKIA ASSET TRACKER: A CENTRALIZED ASSET MANAGEMENT SYSTEM

Pallak Dunung, Pooja Sirvi, Sanjana M Gowda
Department of Electronics and Communication Engineering
GSSSIETW, Mysore, India

Abstract

Efficient asset management is a critical operational requirement for large organizations where IT assets such as laptops, peripherals, and equipment are distributed across multiple departments and cost centers. Conventional asset tracking methods based on spreadsheets and manual record keeping often result in data duplication, limited visibility, delayed approvals, and increased administrative overhead. The absence of centralized control further complicates asset ownership tracking and reporting.

This paper presents the design and implementation of the **Nokia Asset Tracker**, a centralized, web-based asset management system developed to address these limitations. The proposed system incorporates role-based access control, structured approval workflows, bulk asset operations, and automated report generation. Separate dashboards are provided for administrators and managers to ensure controlled access and accountability. The system is implemented using **React.js** for the frontend, **Node.js and Express.js** for the backend, and **MongoDB** for data persistence, with secure authentication handled through **JSON Web Tokens (JWT)**.

The developed prototype was validated through functional testing across multiple use cases, including asset allocation, request handling, and reporting. The results demonstrate improved efficiency, transparency, and scalability compared to traditional manual approaches, making the system suitable for enterprise-level asset management with scope for further enhancements.

Keywords

Asset Management, Role-Based Access Control, React.js, Node.js, MongoDB, Enterprise Systems



Durable Bipolar Plates For Fuel Cells

PID-2354



L&T Technology Services



Akshitha K



Chaithanya D K

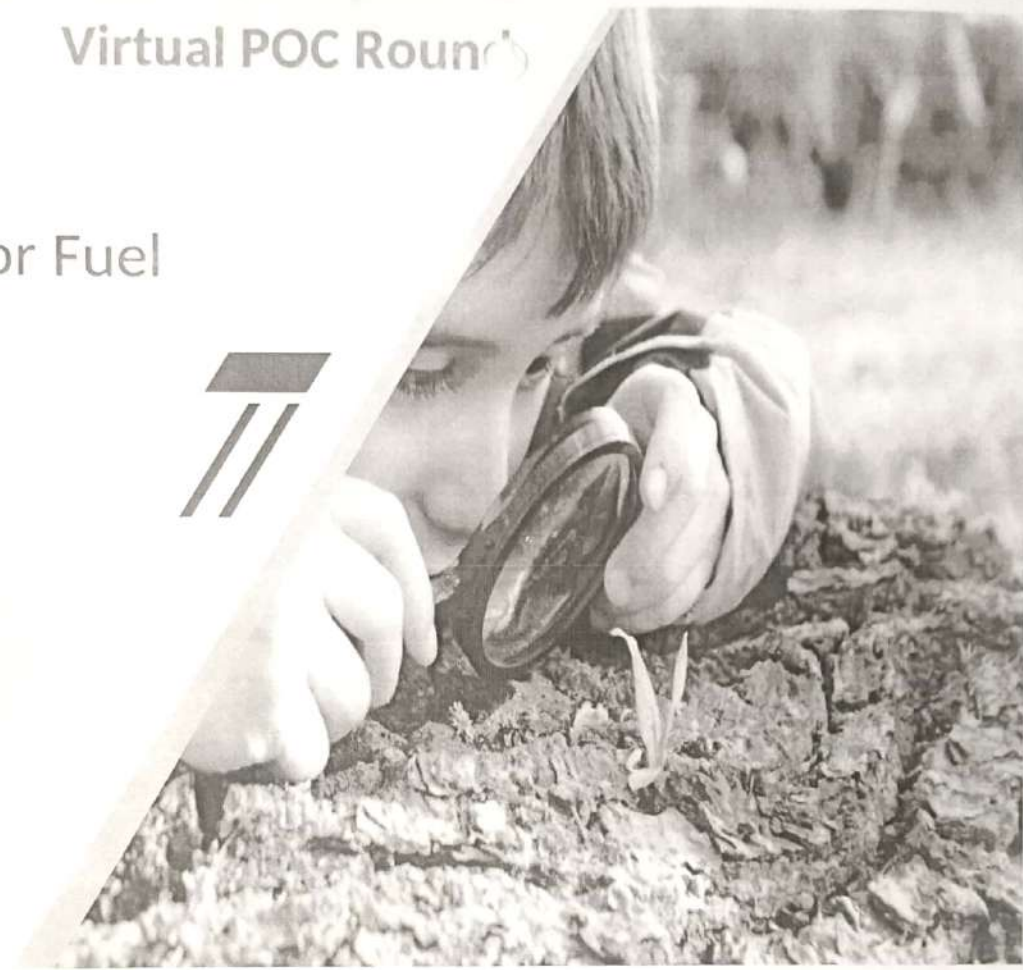


Anitha



Yashaswini K N

GSSSIETW



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Date : 13.04.2026

CIRCULAR

This is to assign **Dr. Thilagavathy R**, Assistant Professor to mentor the students **Bhavani M (4GW24EC020)**, **Deepika V J(4GW24EC035)** , **Deeksha H P (4GW24EC033)**, **Divya H (4GW24EC043)** of 4th Semester 'A' Section in developing an innovative project titled "Smart Health Monitoring system to check vitals" for the event **Vishwakarma 2026** at **Cambridge institute of technology, Bengaluru** on 10th & 11th of April 2026 (24 Hours Hackathon).

This mentoring process will support the students in implementing the project and successfully compete on external platforms.

Thilagavathy R
HoD, ECE 13/4/2026

Head of the Department
Dept of Electronics & Communication Engg
GSSSIETW, Mysuru, India-570016



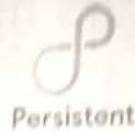
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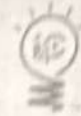
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Amrit Mahotsav



SMART INDIA
HACKATHON
2022

#SIH Senior
Software Edition

Participation

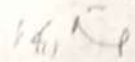


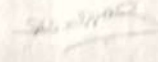
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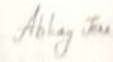
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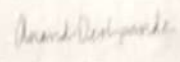
RAKSHA M

for participating in Smart India Hackathon, 2022


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Chairman, AICTE
Ministry of Education


Dr. Abhay Jere
Chief Innovation Officer,
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Date : 13.04.2026

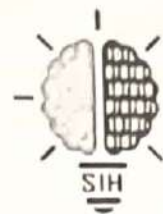
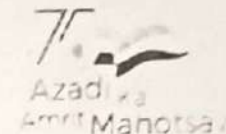
CIRCULAR

This is to assign **Dr. Thilagavathy R**, Assistant Professor to mentor the students **Chaithra M N** (4GW24EC027), **Deepikashree K R** (4GW24EC037) , **Dhanyashree** (4GW24EC041), **H B Shivani** of 4th Semester 'A' Section in developing an innovative project titled "Saline Flow Block Detector" for the event **Vishwakarma 2026** at **Cambridge institute of technology, Bengaluru** on 10th & 11th of April 2026 (24 Hours Hackathon).

This mentoring process will support the students in implementing the project and successfully compete on external platforms.

hdeapatti
HoD, ECE 13/4/26

Head of the Department
Dept of Electronics & Communication Engg
GSSSIETW, Mysuru, India-570016



SMART INDIA HACKATHON 2023

#SIH Senior Hardware Edition

Participation



Certificate

This Certificate is awarded to

Chandana.S.V

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for participating in **Smart India Hackathon, 2023**

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Prof. T. G. Sitharam
Chairman, AICTE
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Abhay Jere
Dr. Abhay Jere
Vice Chairman AICTE &
Chief Innovation Officer (CIO),
Ministry of Education

[Signature]
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Director, Principal
Vice-Chancellor



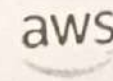
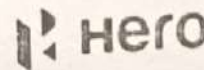
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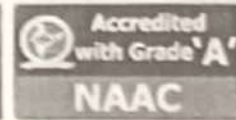


Partner





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KRS Road, Metagalli, Mysuru - 570016

Certificate of Appreciation

*This is to certify that Mr./Mrs./Dr./Prof. DR. BASAVANNA M of ECE Dept
GSSSIETW in recognition and sincere appreciation for being mentor of 3-Day
Hackathon on "IOT Innovate-a-Thon" from 8th to 10th July 2024 organized by
Department of Electronics & Communication Engineering, GSSS Institute of Engineering
and Technology for Women, Mysuru in association with IEEE CAS Society Student
Chapter of the institute.*

Dr. Rajendra R Patil
Prof. & Head, ECE Dept
GSSSIETW, Mysuru

Dr. M Shivakumar
Principal
GSSSIETW, Mysuru