ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai
Accredited by NAAC
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

ACADEMIC YEAR

2024-2025

2.3.1PARTICIPATIVE LEARNING

2.3 Teaching Learning Process

PARTICIPATIVE LEARNING

S.No	Content
1	NAAN MUDHALVAN FUNDED PROJECT
2	PEER LED ACTIVITIES
3	STUDENT SEMINAR

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
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NAAN MUDHALVAN FUNDED PROJECT

Naan Mudhalvan Niral Thiruvizha 2.0
Shortlisted Ideas (Top 1000)
Results - 2025

S.No	Theme Name	Problem Statement	NMNT ID	College Code	College Name	Team Name	Faculty Name	Team Leader Name	Team Members
1	Agriculture/ Food Tech	How can we innovate a single compact device that can test all necessary qualities of milk, such as FAT, SNF, protein, and adulteration, while also serving as an attractive, modular structure for selling milk and milk products?	NMNTSTD0002003	2	Alagappa college of technology anna university	Novel Milk Quality Detector	R Palpandi Raja	Amalin Tonetta V	Amalin Tonetta V, Nithi Arasi N
2	Agriculture/ Food Tech	How might we design an affordable device to automatically regulate the temperature in poultry farms, maintaining an optimal 35°C to prevent heat stress, reduce manual water spraying, and ensure the health and productivity of the birds?	NMNTSTD00040132	4	Madras Institute of Technology, Anna University	MIT Tech Titans	Dr O VIGNESH	PATTU HARIHARAAN N	PATTU HARIHARAAN N, SANTHANAKRISHNAN T, MATHAN RAJ S, RUBANKUAMR D
3	Agriculture/ Food Tech	How can we design a cost-effective, user-friendly automatic mini tilling and leveling machine optimized for heavy clayey soil, reducing operator fatigue and skill requirements, and making it more accessible for small and marginal farmers?	NMNTSTD0004041	4	Madras Institute of Technology, Anna University	MIT RACING	Mr S Arun Prasad	MOHANRAJKUMAR G	MOHANRAJKUMAR G, Amuthan C, Aswin S, Jayanthan D
4	Agriculture/ Food Tech	How might we develop a solution to reduce pesticide and fertilizer usage by integrating Soil Health Card data, weather data, and the Leaf Color Chart method? This app should provide farmers with precise, location-specific recommendations to optimize input usage, enhance crop health, and promote sustainable agricultural practices.	NMNTSTD1115030	1115	R M D Engineering College (Autonomous)	Creators	Dr C Bennila Thangammal	Poorna Saai M	Poorna Saai M, Nithissh S S, Muhammad Taufeeq Umar N
5	Agriculture/ Food Tech	How can we innovate a single compact device that can test all necessary qualities of milk, such as FAT, SNF, protein, and adulteration, while also serving as an attractive, modular structure for selling milk and milk products?	NMNTSTD1115072	1115	R M D Engineering College (Autonomous)	LIVESTOCK LUMINARIES	Dr J Jayaudhaya	NIKITHA K	NIKITHA K
6	Agriculture/ Food Tech	How might we develop a solution to reduce pesticide and fertilizer usage by integrating Soil Health Card data, weather data, and the Leaf Color Chart method? This app should provide farmers with precise, location-specific recommendations to optimize input usage, enhance crop health, and promote sustainable agricultural practices.	NMNTSTD1128124	1128	TJS Engineering College	TechHarvesters	Ms V PAVITHRA	Vedhalakshmi M	Vedhalakshmi M, Venkatesh M, Yogesh S, Srikanth K
7	Agriculture/ Food Tech	How might we develop advanced infrastructure and mechanization for jaggery production units to improve hygiene and manufacturing processes, while creating a dedicated platform for efficient sourcing and management of jaggery product procurement?	NMNTSTD1132084	1132	Velammal Engineering College	MECHATRON	Mr M Karthikeyan	MANOJ K	MANOJ K, Abishek P, Koushik ganapathy , Gokul E
8	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD2116169	2116	RAJALAKSHMI ENGINEERING COLLEGE	BoostX	Dr S RAMA REDDY	KUBER VISNU S	KUBER VISNU S, Dhiwakar J, Hemalatha S
9	Agriculture/ Food Tech	How might we design a cost-effective combined harvester with an integrated precision drying system to efficiently harvest, thresh, and dry paddy grains directly in the field, particularly during the samba season?	NMNTSTD2116490	2116	RAJALAKSHMI ENGINEERING COLLEGE	Regen	Mrs C Amutha	Rohan R	Rohan R, Vishva M, Sriumanath, Varsha K
10	Agriculture/ Food Tech	How might we develop an efficient shrimp peeling machine that removes shells without compromising yield, accommodates various shrimp sizes, maintains hygienic standards, minimizes processing time, and reduces operational costs to meet growing market demands?	NMNTSTD2124011	2124	SREE SASTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY	Shelly Shrimp	Dr A S Vaishnavi	G Keerthana	G Keerthana, J Saamika, Aanantha sundari K P, Mahisha Mardini J
11	Agriculture/ Food Tech	How might we design a cost-effective combined harvester with an integrated precision drying system to efficiently harvest, thresh, and dry paddy grains directly in the field, particularly during the samba season?	NMNTSTD2124040	2124	SREE SASTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY	The heat squad	Dr A S Vaishnavi	Sundaresan P	Sundaresan P, Divakar P, Jayavel S, R Surendhar
12	Agriculture/ Food Tech	How might we develop advanced infrastructure and mechanization for jaggery production units to improve hygiene and manufacturing processes, while creating a dedicated platform for efficient sourcing and management of jaggery product procurement?	NMNTSTD31050355	3105	Dhanalakshmi Srinivasan College of Engineering and Technology	Future Makers	P Suganya	Pavan Kumar T	Pavan Kumar T, Adharsh Vijayandran, Madhavan T
13	Agriculture/ Food Tech	How might we develop an efficient shrimp peeling machine that removes shells without compromising yield, accommodates various shrimp sizes, maintains hygienic standards, minimizes processing time, and reduces operational costs to meet growing market demands?	NMNTSTD3105143	3105	Dhanalakshmi Srinivasan College of Engineering and Technology	CSK	Ms A HEMALATHA	KAJENDHRAN J	KAJENDHRAN J , SAMUVEL Y , KAMALESH S
14	Agriculture/ Food Tech	How might we develop an efficient shrimp peeling machine that removes shells without compromising yield, accommodates various shrimp sizes, maintains hygienic standards, minimizes processing time, and reduces operational costs to meet growing market demands?	NMNTSTD31110336	3111	LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Shells and Shore	Mr P Chandrasekhar	V Sai Lakshath	V Sai Lakshath, Santhosh Roghan A, Shyam T, Saravana S M
15	Agriculture/ Food Tech	How might we develop a solution to reduce pesticide and fertilizer usage by integrating Soil Health Card data, weather data, and the Leaf Color Chart method? This app should provide farmers with precise, location-specific recommendations to optimize input usage, enhance crop health, and promote sustainable agricultural practices.	NMNTSTD3123011	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Mighty Warriors	Dr S Ancy	FELIX KEVINSINGH T	FELIX KEVINSINGH T, JAMES ROBIN RAJ, LAKSHMISIMHA REDDY KASIREDDY, KEVIN JEYARAJ
16	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD3123146	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Agrobot	R Sreekanth	Aiswarya T S	Aiswarya T S, Harini N
17	Agriculture/ Food Tech	How might we develop advanced infrastructure and mechanization for jaggery production units to improve hygiene and manufacturing processes, while creating a dedicated platform for efficient sourcing and management of jaggery product procurement?	NMNTSTD3123162	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Team PGH	Pravinkumar K	Gokul R	Gokul R, Harlan Rhodicson G
18	Agriculture/ Food Tech	How can we design a device to efficiently remove moisture from coir also to prevent groundwater seepage and minimize environmental impact?	NMNTSTD3123376	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Red Rocket	Dr A Simon Prabu	Ujesh S	Prithivraj S, Rohan S, Ujesh S
19	Agriculture/ Food Tech	How can we innovate a single compact device that can test all necessary qualities of milk, such as FAT, SNF, protein, and adulteration, while also serving as an attractive, modular structure for selling milk and milk products?	NMNTSTD3123579	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	MUTANTS	Ms S Yuwvaranni	Arjun Sathish R R	Arjun Sathish R R, SUCHARITA NAGESH, HEMAVARSHINI R
20	Agriculture/ Food Tech	How might we design a cost-effective combined harvester with an integrated precision drying system to efficiently harvest, thresh, and dry paddy grains directly in the field, particularly during the samba season?	NMNTSTD4124426	4124	Sri Sai Ram Institute of Technology	HARVEST HACKERS	Ms R Lakshmi Devi	MADHUMITHA N	MADHUMITHA N, SRIVARSHINI K S , DHANALAKSHMI D
21	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD4124664	4124	Sri Sai Ram Institute of Technology	Vector thirteen	Dr T Muthamizhan	Narenthira Sai Raam P P	Narenthira Sai Raam P P, Dharshan P
22	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD41251140	4125	Sri Sairam Engineering College	No risk No reward	Dr I VIMAL KANNAN	Udhayanidhi J	Udhayanidhi J, Nithish U, Varsha K, Shobana R
23	Agriculture/ Food Tech	How might we develop an innovative, economical, and user-friendly solution to help farmers prevent bird menace in crops such as sunflower, maize, and jowar? This solution should be practical and scalable, offering an effective method to safeguard these crops while being accessible to farmers.	NMNTSTD4128453	4128	SRM VALLIAMMAI ENGINEERING COLLEGE	SOLUTION SQUAD	Dr N VAIRAM	V Priyanka	V Priyanka , L MINOARULSELVAN, M Ramya, SUBHIKSHA K

751	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we automate rural water supply systems with IoT-based controls, smart metering, and real-time monitoring of tank levels and water quality to ensure equitable, efficient, and sustainable distribution?	NMNTSTD3123332	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Titans	R Sreekanth	MichaelJesvin F	MichaelJesvin F, Parethe thendral KP
752	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design a compact, cost effective device to efficiently clear long sewage canals and remove stagnated water, improving drainage flow and preventing blockages in the sewage system?	NMNTSTD4124428	4124	Sri Sai Ram Institute of Technology	ECO HARMONY	Dr S Sivarajeswari	Sakrika Kandasami	Sakrika Kandasami, HARINI V, S P Ranjana
753	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we automate rural water supply systems with IoT-based controls, smart metering, and real-time monitoring of tank levels and water quality to ensure equitable, efficient, and sustainable distribution?	NMNTSTD4125005	4125	Sri Sairam Engineering College	The water guardians	VAIDHEGI K	NIVEDITHA M	VARSHINI P, VIJAYASHREE K, NIVEDITHA M
754	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we automate rural water supply systems with IoT-based controls, smart metering, and real-time monitoring of tank levels and water quality to ensure equitable, efficient, and sustainable distribution?	NMNTSTD41251048	4125	Sri Sairam Engineering College	MECH ROXXZ	Dr ARUL PRAKASH M	Veeraraghavan T	Veeraraghavan T, Sarvanan V, Arun Aravindh
755	Rural & Urban development/ Manufacturing/ Engineering Technology	How might you develop a cost-effective, time-bound construction model for rural housing schemes? Solve challenges like outdated methods, budget limits, narrow lanes, delays, and quality concerns to benefit beneficiaries.	NMNTSTD41251464	4125	Sri Sairam Engineering College	The Alchemists	SURYA S	B Anand Babu	B Anand Babu , VASANTH N, Nafees Ahamed A, Vijay Sundar S
756	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we automate rural water supply systems with IoT-based controls, smart metering, and real-time monitoring of tank levels and water quality to ensure equitable, efficient, and sustainable distribution?	NMNTSTD4125534	4125	Sri Sairam Engineering College	Quantumania	VAIDHEGI K	Shamira shehanaz A	Shamira shehanaz A , Ponmalar J, Nithya P
757	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design and develop low-cost, fully automated machinery for manufacturing Athangudi tiles, enhancing production efficiency, reducing costs, and improving the livelihoods of local entrepreneurs while preserving traditional craftsmanship?	NMNTSTD4211116	4211	IFET COLLEGE OF ENGINEERING	Mech Designers	Dr K GANESHA BALAMURUGAN	BALAMURUGAN M	BALAMURUGAN M, BALA D, AKASH R
758	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we automate rural water supply systems with IoT-based controls, smart metering, and real-time monitoring of tank levels and water quality to ensure equitable, efficient, and sustainable distribution?	NMNTSTD4212051	4212	KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY	DHANUSHA TEAM	LAKSHMIPRABHA K E	DHANUSHA S	DHANUSHA S, SARAVANAN K, YUVARAJ D, HARIHARAN G
759	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design cost-effective, lightweight, and durable safety equipment for sanitary workers, ensuring comfort and protection for women and the elderly in our state's hot, humid climate?	NMNTSTD4212059	4212	KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY	Electrospark	MUNESHWARI VINEETHA K	DHANALAKSHMI P	DHANALAKSHMI P, HARIKARAN S, SANTHOSH KUMAR G, DHANUSH A
760	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design a feasible solution to install lightning arresters in explosive areas of fireworks industries, ensuring the safety of workers and the facility while maintaining compliance with industry regulations? The solution should be cost-effective, easy to implement, and capable of minimizing the risk of accidents due to lightning strikes.	NMNTSTD4221083	4221	St. Anne's College of Engineering and Technology	Tech Masters	Ramesh J	ASRAF ALI A	ADHIRAI V, Jaganathan, VINOTH, ASRAF ALI A
761	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design a compact, cost effective device to efficiently clear long sewage canals and remove stagnated water, improving drainage flow and preventing blockages in the sewage system?	NMNTSTD4225005	4225	UNIVERSITY COLLEGE OF ENGINEERING, VILLUPURAM	Ilam Thulir	Mr R Ramanathan	Lokesh K	Lokesh K, Usha Nandhini J, Nithish S
762	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design a system that integrates POS machines with electronic weighing machines at ration shops to ensure the correct weighment of public distribution commodities? This integration would automate billing, ensuring accurate distribution of items like rice, sugar, and wheat. The process can be monitored through a centralized dashboard by the Tamil Nadu Civil Supplies Corporation for transparency and accountability.	NMNTSTD4225013	4225	UNIVERSITY COLLEGE OF ENGINEERING, VILLUPURAM	MECHONS	Dr P Prakash	VINOTH KUMAR B	VINOTH KUMAR B, SELVAMANI S, HARIHARAN S, YUVAN SREE M
763	Rural & Urban development/ Manufacturing/ Engineering Technology	How might you develop a cost-effective, time-bound construction model for rural housing schemes? Solve challenges like outdated methods, budget limits, narrow lanes, delays, and quality concerns to benefit beneficiaries.	NMNTSTD4226008	4226	UNIVERSITY COLLEGE OF ENGINEERING PANRUTI	URBAN ARC	Dr MVVThirumuruga Poiyamozhi	SRILEKHA V	SRILEKHA V, SUGAKAVYA A, SUVEGA S
764	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we develop a system to identify water leakage, detect unauthorized connections, prevent illegal water siphoning through motors, and monitor pressure levels at the tail end of the water supply distribution main?	NMNTSTD4226011	4226	UNIVERSITY COLLEGE OF ENGINEERING PANRUTI	SIVA SAKTHI	Dr G Hariharan	SIVASUBRAMANIYAM A	SIVASUBRAMANIYAM A, AKASH S, SASIDHARAN E
765	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design a system that integrates POS machines with electronic weighing machines at ration shops to ensure the correct weighment of public distribution commodities? This integration would automate billing, ensuring accurate distribution of items like rice, sugar, and wheat. The process can be monitored through a centralized dashboard by the Tamil Nadu Civil Supplies Corporation for transparency and accountability.	NMNTSTD4226026	4226	UNIVERSITY COLLEGE OF ENGINEERING PANRUTI	Cloud Rangers	Dr G Hariharan	Manikandan A	KARTHI M, Kalaiyarasan G, Manikandan A
766	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design a compact, cost effective device to efficiently clear long sewage canals and remove stagnated water, improving drainage flow and preventing blockages in the sewage system?	NMNTSTD4227001	4227	V.R.S. COLLEGE OF ENGINEERING AND TECHNOLOGY	VRSCET MECH SEWAGE CLEANING	Mr N EJOUMALE	A Sasikumar	A Sasikumar , R Sakthivel, M Sanjai, S Santhosh Kumar
767	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we automate rural water supply systems with IoT-based controls, smart metering, and real-time monitoring of tank levels and water quality to ensure equitable, efficient, and sustainable distribution?	NMNTSTD5131001	5131	THANTHAI PERIYAR GOVT INSTITUTE OF TECHNOLOGY	AquaSphere	K Thirunavukkarasu	YOGESHWARAN V N	SHAFEEQ AHMED Z, KAUSIK V, YOGESHWARAN V N
768	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we automate rural water supply systems with IoT-based controls, smart metering, and real-time monitoring of tank levels and water quality to ensure equitable, efficient, and sustainable distribution?	NMNTSTD5131005	5131	THANTHAI PERIYAR GOVT INSTITUTE OF TECHNOLOGY	Eco Society		Somesh V	Somesh V, Shree Harsh A, Siva M
769	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design a system that integrates POS machines with electronic weighing machines at ration shops to ensure the correct weighment of public distribution commodities? This integration would automate billing, ensuring accurate distribution of items like rice, sugar, and wheat. The process can be monitored through a centralized dashboard by the Tamil Nadu Civil Supplies Corporation for transparency and accountability.	NMNTSTD51310056	5131	THANTHAI PERIYAR GOVT INSTITUTE OF TECHNOLOGY	Thanthai periyar	M ANBARASU	Siva D	Siva D, Premkumar p, Vishva T, Praveen D
770	Rural & Urban development/ Manufacturing/ Engineering Technology	How might we design and develop low-cost, fully automated machinery for manufacturing Athangudi tiles, enhancing production efficiency, reducing costs, and improving the livelihoods of local entrepreneurs while preserving traditional craftsmanship?	NMNTSTD5131025	5131	THANTHAI PERIYAR GOVT INSTITUTE OF TECHNOLOGY	MECH PROS	Rajiv P	DINESHKUMAR S	DINESHKUMAR S , JERALD P , KAPPIYAN D , KISHORE P S

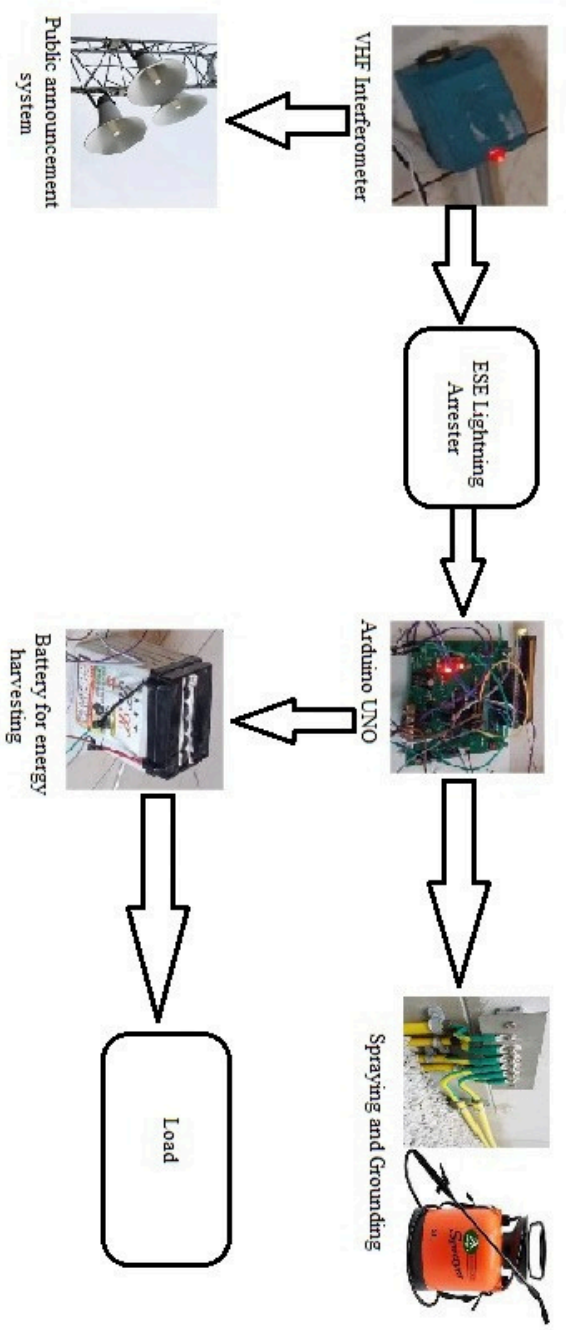
ST.ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

NAAN MUDHALVAN NIRAL THIRUVIZHA -2.0

Smart Lightning Arrester with Energy Harvesting And Early Warning System for Enhanced Safety in Firework Industries

PROBLEM STATEMENT

FIREWORK INDUSTRIES ARE HIGHLY VULNERABLE TO LIGHTNING STRIKES DUE TO THE PRESENCE OF FLAMMABLE MATERIALS AND OPEN STORAGE AREAS. TRADITIONAL LIGHTNING ARRESTERS LACK INTELLIGENT MONITORING, ENERGY UTILIZATION, AND REAL-TIME WARNING CAPABILITIES. THIS CREATES A SIGNIFICANT SAFETY RISK FOR WORKERS, INFRASTRUCTURE, AND SURROUNDING AREAS DURING THUNDERSTORMS. THERE IS A NEED FOR AN ADVANCED LIGHTNING PROTECTION SYSTEM THAT NOT ONLY DIVERTS LIGHTNING SAFELY BUT ALSO INTEGRATES SMART TECHNOLOGIES FOR EARLY DETECTION, ENERGY HARVESTING, AND IMMEDIATE ALERTS TO MITIGATE HAZARDS.



MODULES

1.SENSING MODULE: SENSING ATMOSPHERIC VERY HIGH FREQUENCY THROUGH VHF INTERFEROMETER.
2.LIGHTING ARRESTER MODULE:CAPTURE LIGHTNING DISCHARGE EFFECTIVELY
3.DISCHARGE MODULE:ENHANCED GROUNDING TECHNIQUE AND CHEMICAL SPRAYING FOR LEAKAGE PROOF
4.ALERT MODULE:ALERTING FIREWORK INDUSTRIES THROUGH PUBLIC ANNOUNCEMENT SYSTEM
5.ENERGY HARVESTING MODULE: HARVESTING 10% OF ENERGY FROM LIGHTNING

CONCLUSION

THE PROPOSED SMART LIGHTNING ARRESTER INTEGRATES ENERGY HARVESTING AND AN EARLY WARNING SYSTEM TO SIGNIFICANTLY ENHANCE SAFETY IN FIREWORK INDUSTRIES. BY ACTIVELY MONITORING ATMOSPHERIC CONDITIONS AND HARVESTING AMBIENT ELECTRICAL ENERGY, THE SYSTEM NOT ONLY MITIGATES THE RISK OF LIGHTNING STRIKES BUT ALSO ENSURES CONTINUOUS OPERATION THROUGH SELF-SUSTAINING POWER. THE EARLY WARNING FEATURE PROVIDES TIMELY ALERTS, ENABLING PREVENTIVE MEASURES TO BE TAKEN BEFORE HAZARDOUS SITUATIONS ARISE.

TAMILNADU SKILL DEVELOPMENT CORPORATION

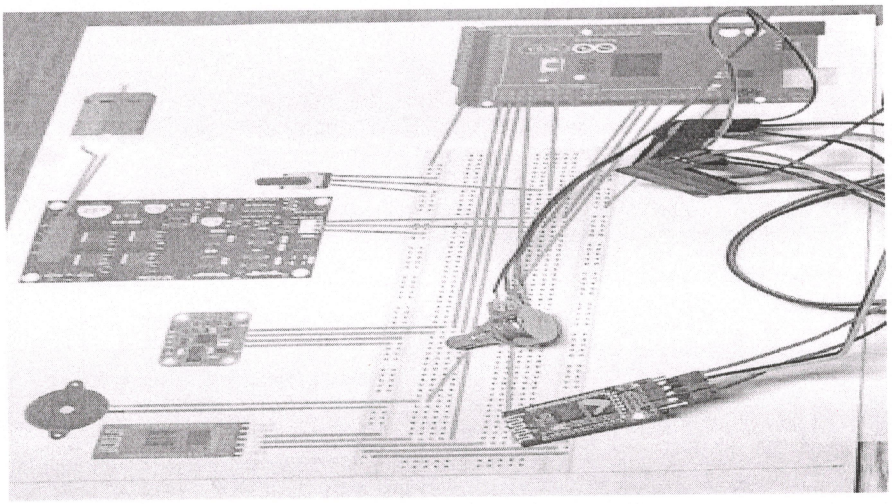
Naan Mudhalvan Niral Thiruvizha

Review - 1

1. **Name of the College**: St. Annes's College of Engineering & Technology, Panruti
2. **College code:** 4221
3. **Theme**: Rural & Urban development/ Manufacturing/ Engineering Technology
4. **Problem statement:** How might we design a feasible solution to install lightning arresters in explosive areas of fireworks industries, ensuring the safety of workers and the facility while maintaining compliance with industry regulations? The solution should be cost- effective, easy to implement, and capable of minimizing the risk of accidents due to lightning strikes.
5. **Faculty Guide Details:** Mr. J . Ramesh, Asst. Professor, Department of EEE

Team Leader Name	AU Reg.No	Year	Department	Mobile No
1. ASRAF ALI A	422121105006	4TH	EEE	+91 6384788120
Team members				
1. ADHIRAI V	422121105002	4TH	EEE	+91 6374191171
2. JAGANATHAN S	422121105018	4TH	EEE	+91 8668150905
3. VINOTH M	422121105311	4TH	EEE	+91 8189936467

6. Attach photos of the prototype/App/Software:



7. Attach photos of the 1st review being conducted:



21.3.25

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

UNDERTAKING

1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.

2. The college will undertake the financial and other management responsibilities of the project also; college will be responsible in following the time lines.

3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.

4. I hereby declare that the details furnished above are true and correct.

21/3/2025

Signature of Faculty Guide

J. RAMESH

21.3.25

Signature of Principal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

TAMILNADU SKILL DEVELOPMENT CORPORATION

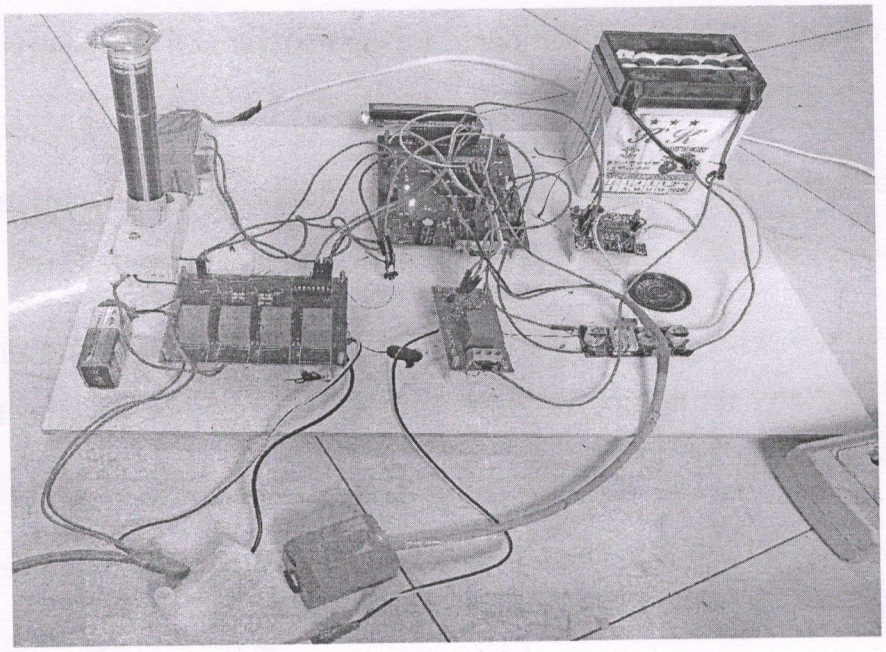
Naan Mudhalvan Niral Thiruvizha

Review - 2

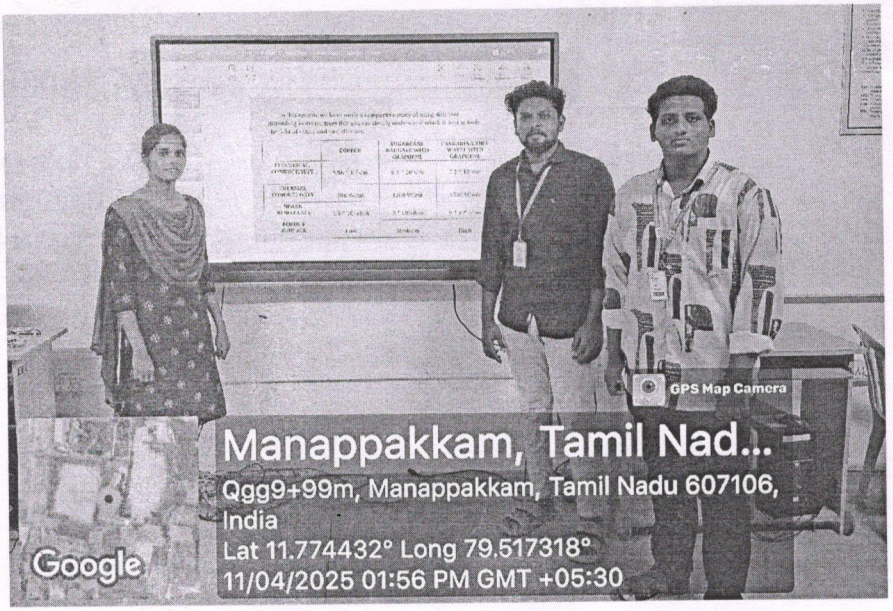
1. **Name of the College**: St. Annes's College of Engineering & Technology, Panruti
2. **College code:** 4221
3. **Theme**: Rural & Urban development/ Manufacturing/ Engineering Technology
4. **Problem statement:** How might we design a feasible solution to install lightning arresters in explosive areas of fireworks industries, ensuring the safety of workers and the facility while maintaining compliance with industry regulations? The solution should be cost- effective, easy to implement, and capable of minimizing the risk of accidents due to lightning strikes.
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Team members				
1. ADHIRAI V	422121105002	4TH	EEE	+91 6374191171
2. JAGANATHAN S	422121105018	4TH	EEE	+91 8668150905
3. VINOTH M	422121105311	4TH	EEE	+91 8189936467

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17/4/25

Signature of Faculty Guide

J-RAMESH

17/4/25

Signature of Principal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 [illegible]

PRE-RECEIPT

Niral Thiruvizha ID : NMNTSTD4221083

College Name : St. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Project Title : SMART LIGHTNING ARRESTER WITH ENERGY HARVESTING AND EARLY WARNING SYSTEM FOR ENHANCED SAFETY IN FIREWORK INDUSTRIES

Faculty Guide : J. RAMESH

Name of the students:

Sl.No.	Reg. No.	Name	Branch	Mobile No.
1	422121105006	ASRAF ALI A	EEE	6384788120
2	422121105002	ADHIRAI V	EEE	6374191171
3	422121105018	JAGANATHAN S	EEE	8668150905
4	422121105311	VINOTH M	EEE	8189936467

Received a sum of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University, towards the financial assistance for the project details indicated above. Certified further, the same will be transferred to the above student concerned.

Account Holder Name : St. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Account No. : 34916916294

Bank Name & Branch : STATE BANK OF INDIA, PUDUPET.

IFSC : SBIN0003782

Note: The bank account should be the official account of the college Head of the Institution, rather than an individual account. Enclose a copy of the first page of the bank passbook/cancelled cheque leaf for validation.

J. Ramesh

Name and Sign
of the Faculty Guide
J. RAMESH

V. Balaji

Name and Sign
of the HoD
[V. BALAJI]

R. Arokiadass 19.5.25

Name and Sign
of the Principal with seal
College Seal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTIPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

Place: PANRUTI
Date: 15.05.2025

Bill Passed for the amount of Rs. 10,000/- (Rupees Ten Thousand Only)

AU – NM Co-ordinator

BILL SUMMARY

Niral Thiruvizha ID : NMNTSTD4221083

College Name : St. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Project Title : SMART LIGHTNING ARRESTER WITH ENERGY HARVESTING AND EARLY WARNING SYSTEM FOR ENHANCED SAFETY IN FIREWORK INDUSTRIES

Certified that the following expenditures are made by us and the bills are admitted for the above project only. Bills are in order. NO other claims are made in these bills.

Sl.No.	Bill No.	Bill Date	Description	Amount
1	923	03.03.2025	HARDWARE COMPONENTS	7500
2	1125	28.03.2025	HARDWARE COMPONENTS	2500
			TOTAL	10,000

(Rupees TEN THOUSAND RUPEES Only)

Team details

Sl.No.	Reg. No.	Student Name	Branch	Mobile No.	Sign.
1	42212110500	ASRAF ALI A	EEE	6384788120	
2	422121105002	ADHIRAI V	EEE	6374191171	
3	422121105018	JAGANATHAN S	EEE	8668150905	
4	422121105311	VINOTH M	EEE	8189936467	
5	Name, Designation, Department of the Faculty Guide	Mr. J. RAMESH, Asst.Prof, DEPARTMENT OF EEE		8015442396	

V. Balaji
Name and Sign of the HoD
[V. BALAJI]

Dr. L. Sagayaraj
Name and Sign of the Finance Officer / Auditor / Accounts Officer with seal
C.S.R. L. SAGAYARAJ
ADMINISTRATIVE OFFICER

Name and Sign 19.5.25
of the Principal with seal
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur (Post), Panruti (T.k),
Cuddalore (Dist), Pin: 607 1

Place: PANRUTI
Date: 15-5-2025

College Seal

UTILISATION CERTIFICATE

Niral Thiruvizha ID : NMNTSTD4221083

College Name : St. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Project Title : SMART LIGHTNING ARRESTER WITH ENERGY HARVESTING AND EARLY WARNING SYSTEM FOR ENHANCED SAFETY IN FIREWORK INDUSTRIES

Certified that out of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University towards the financial assistance for the project details indicated above, an amount of Rs. 10,000/- (Rupees TEN THOUSAND only) was utilised for the purpose for which it was sanctioned, leaving a balance of Rs. 0/- (Rupees ZERO only).

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the necessary checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Team details

Sl.No.	Reg. No.	Student Name	Branch	Mobile No.	Sign.
1	422121105006	ASRAF ALI A	EEE	6384788120	
2	422121105002	ADHIRAI V	EEE	6374191171	
3	422121105018	JAGANATHAN S	EEE	8668150905	
4	422121105311	VINOTH M	EEE	8189936467	
5	Name, Designation, Department of the Faculty Guide	Mr. J. RAMESH, Asst.Prof, DEPARTMENT OF EEE		8015442396	

Name and Sign of the HoD

[V. BALAJI]

Name and Sign of the Finance Officer / Auditor / Accounts Officer with seal

CSR.L. SAGAYALILY

ADMINISTRATIVE OFFICER

Name and Sign of the Principal with seal

19.5.25

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 106

College Seal

Place: PANRUTI
Date: 15.05.2025

STATEMENT OF ACCOUNT

STATE BANK OF INDIA
ACB PUDUPET
87-A MAIN ROAD
PUDUPET CUDDALORE DISTRICT, TAMILNADU
Pin Code : 607108

St. Anne's College of Engg & Technology
ANGUCHETTY PALAYAM
SIRUVATHUR POST
PANRUTI
Cuddalore
Pin Code : 607108

Branch Code : 3782
Branch Email : sbi.03782@sbi.co.in
Branch Phone : 242064

Date of Statement	: 13-05-2025
Time of Statement	: 16:28:32
Cleared Balance	: 7,09,536.02CR
Uncleared Amount	: 0.00
+MOD Bal	: 0.00
Limit	: 0.00
Monthly Avg Balance	: 0.00
Interest Rate	: 0.00 % p.a.
Drawing Power	: 0.00
Account Open Date	: 07-05-2015

CIF No	: 85770196093
Account No	: 34916916294
Product	: CA-REGULAR-PUB-OTH-ALL-INR
IFSC Code	: SBIN0003782
MICR Code	: 607002008
Currency	: INR
Account Status	: OPEN
Nominee Name	:
CKYC No	: Not Available
Email	: stannescet@gmail.com

Statement From : 01-04-2025 To 13-05-2025

Post Date	Value Date	Description	Cheque No/Reference	Debit	Credit	Balance
		BROUGHT FORWARD				12,00,351.02 CR
02-04-2025	02-04-2025	CASH DEPOSIT SELF AT 03782 ACB PUDUPET			2,76,000.00	14,76,351.02 CR
02-04-2025	02-04-2025	DEP TFR TDR CLOSURE 0043841461932 OF St. Anne's College of AT 03782 ACB PUDUPET			14,05,101.00	28,81,452.02 CR
02-04-2025	02-04-2025	DR THRU CHQ SBI 8275063 ST ANNES MARCH 2025 SALARY	022427	12,79,030.00		16,02,422.02 CR
04-04-2025	04-04-2025	DEP TFR UPI/CR/509427109728/Vanitha /IOBA/anandanand/UPI 0097737162096 AT 03782 ACB PUDUPET			15,000.00	16,17,422.02 CR
05-04-2025	05-04-2025	CASH DEPOSIT SELF AT 03782 ACB PUDUPET			3,07,400.00	19,24,822.02 CR
05-04-2025	05-04-2025	REMT THRU CHQ NEFT UTR NO: SBIN425095919200	022428	1,51,993.16		17,72,828.86 CR
07-04-2025	07-04-2025	CAS CASH CHEQUE self prawin	022429	50,000.00		17,22,828.86 CR

St. Anne's College of Engineering & Technology PANRUTI

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. Ramesh J

from St. Anne's College of Engineering and Technology

has **participated** as **Faculty Guide** in the **Niral Thiruvizha 2.0 (Hackathon) Competition**

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Nirai Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. VINOTH M

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. ADHIRAI V

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. ASRAF ALI A

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Nirai Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. JAGANATHAN S

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Naan Mudhalvan Niral Thiruvizha 2.0
Shortlisted Ideas (Top 1000)
Results - 2025

S.No	Theme Name	Problem Statement	NMNT ID	College Code	College Name	Team Name	Faculty Name	Team Leader Name	Team Members
1	Agriculture/ Food Tech	How can we innovate a single compact device that can test all necessary qualities of milk, such as FAT, SNF, protein, and adulteration, while also serving as an attractive, modular structure for selling milk and milk products?	NMNTSTD0002003	2	Alagappa college of technology anna university	Novel Milk Quality Detector	R Palpandi Raja	Amalin Tonetta V	Amalin Tonetta V, Nithi Arasi N
2	Agriculture/ Food Tech	How might we design an affordable device to automatically regulate the temperature in poultry farms, maintaining an optimal 35°C to prevent heat stress, reduce manual water spraying, and ensure the health and productivity of the birds?	NMNTSTD00040132	4	Madras Institute of Technology, Anna University	MIT Tech Titans	Dr O VIGNESH	PATTU HARIHARAAN N	PATTU HARIHARAAN N, SANTHANAKRISHNAN T, MATHAN RAJ S, RUBANKUAMR D
3	Agriculture/ Food Tech	How can we design a cost-effective, user-friendly automatic mini tilling and leveling machine optimized for heavy clayey soil, reducing operator fatigue and skill requirements, and making it more accessible for small and marginal farmers?	NMNTSTD0004041	4	Madras Institute of Technology, Anna University	MIT RACING	Mr S Arun Prasad	MOHANRAJKUMAR G	MOHANRAJKUMAR G, Amuthan C, Aswin S, Jayanthan D
4	Agriculture/ Food Tech	How might we develop a solution to reduce pesticide and fertilizer usage by integrating Soil Health Card data, weather data, and the Leaf Color Chart method? This app should provide farmers with precise, location-specific recommendations to optimize input usage, enhance crop health, and promote sustainable agricultural practices.	NMNTSTD1115030	1115	R M D Engineering College (Autonomous)	Creators	Dr C Bennila Thangammal	Poorna Saai M	Poorna Saai M, Nithissh S S, Muhammad Taufeeq Umar N
5	Agriculture/ Food Tech	How can we innovate a single compact device that can test all necessary qualities of milk, such as FAT, SNF, protein, and adulteration, while also serving as an attractive, modular structure for selling milk and milk products?	NMNTSTD1115072	1115	R M D Engineering College (Autonomous)	LIVESTOCK LUMINARIES	Dr J Jayaudhaya	NIKITHA K	NIKITHA K
6	Agriculture/ Food Tech	How might we develop a solution to reduce pesticide and fertilizer usage by integrating Soil Health Card data, weather data, and the Leaf Color Chart method? This app should provide farmers with precise, location-specific recommendations to optimize input usage, enhance crop health, and promote sustainable agricultural practices.	NMNTSTD1128124	1128	TJS Engineering College	TechHarvesters	Ms V PAVITHRA	Vedhalakshmi M	Vedhalakshmi M, Venkatesh M, Yogesh S, Srikanth K
7	Agriculture/ Food Tech	How might we develop advanced infrastructure and mechanization for jaggery production units to improve hygiene and manufacturing processes, while creating a dedicated platform for efficient sourcing and management of jaggery product procurement?	NMNTSTD1132084	1132	Velammal Engineering College	MECHATRON	Mr M Karthikeyan	MANOJ K	MANOJ K, Abishek P, Koushik ganapathy , Gokul E
8	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD2116169	2116	RAJALAKSHMI ENGINEERING COLLEGE	BoostX	Dr S RAMA REDDY	KUBER VISNU S	KUBER VISNU S, Dhiwakar J, Hemalatha S
9	Agriculture/ Food Tech	How might we design a cost-effective combined harvester with an integrated precision drying system to efficiently harvest, thresh, and dry paddy grains directly in the field, particularly during the samba season?	NMNTSTD2116490	2116	RAJALAKSHMI ENGINEERING COLLEGE	Regen	Mrs C Amutha	Rohan R	Rohan R, Vishva M, Sriumanath, Varsha K
10	Agriculture/ Food Tech	How might we develop an efficient shrimp peeling machine that removes shells without compromising yield, accommodates various shrimp sizes, maintains hygienic standards, minimizes processing time, and reduces operational costs to meet growing market demands?	NMNTSTD2124011	2124	SREE SASTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY	Shelly Shrimp	Dr A S Vaishnavi	G Keerthana	G Keerthana, J Saamika, Aanantha sundari K P, Mahisha Mardini J
11	Agriculture/ Food Tech	How might we design a cost-effective combined harvester with an integrated precision drying system to efficiently harvest, thresh, and dry paddy grains directly in the field, particularly during the samba season?	NMNTSTD2124040	2124	SREE SASTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY	The heat squad	Dr A S Vaishnavi	Sundaresan P	Sundaresan P, Divakar P, Jayavel S, R Surendhar
12	Agriculture/ Food Tech	How might we develop advanced infrastructure and mechanization for jaggery production units to improve hygiene and manufacturing processes, while creating a dedicated platform for efficient sourcing and management of jaggery product procurement?	NMNTSTD31050355	3105	Dhanalakshmi Srinivasan College of Engineering and Technology	Future Makers	P Suganya	Pavan Kumar T	Pavan Kumar T, Adharsh Vijayandran, Madhavan T
13	Agriculture/ Food Tech	How might we develop an efficient shrimp peeling machine that removes shells without compromising yield, accommodates various shrimp sizes, maintains hygienic standards, minimizes processing time, and reduces operational costs to meet growing market demands?	NMNTSTD3105143	3105	Dhanalakshmi Srinivasan College of Engineering and Technology	CSK	Ms A HEMALATHA	KAJENDHRAN J	KAJENDHRAN J , SAMUVEL Y , KAMALESH S
14	Agriculture/ Food Tech	How might we develop an efficient shrimp peeling machine that removes shells without compromising yield, accommodates various shrimp sizes, maintains hygienic standards, minimizes processing time, and reduces operational costs to meet growing market demands?	NMNTSTD31110336	3111	LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Shells and Shore	Mr P Chandrasekhar	V Sai Lakshath	V Sai Lakshath, Santhosh Roghan A, Shyam T, Saravana S M
15	Agriculture/ Food Tech	How might we develop a solution to reduce pesticide and fertilizer usage by integrating Soil Health Card data, weather data, and the Leaf Color Chart method? This app should provide farmers with precise, location-specific recommendations to optimize input usage, enhance crop health, and promote sustainable agricultural practices.	NMNTSTD3123011	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Mighty Warriors	Dr S Ancy	FELIX KEVINSINGH T	FELIX KEVINSINGH T, JAMES ROBIN RAJ, LAKSHMISIMHA REDDY KASIREDDY, KEVIN JEYARAJ
16	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD3123146	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Agrobot	R Sreekanth	Aiswarya T S	Aiswarya T S, Harini N
17	Agriculture/ Food Tech	How might we develop advanced infrastructure and mechanization for jaggery production units to improve hygiene and manufacturing processes, while creating a dedicated platform for efficient sourcing and management of jaggery product procurement?	NMNTSTD3123162	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Team PGH	Pravinkumar K	Gokul R	Gokul R, Harlan Rhodicson G
18	Agriculture/ Food Tech	How can we design a device to efficiently remove moisture from coir also to prevent groundwater seepage and minimize environmental impact?	NMNTSTD3123376	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Red Rocket	Dr A Simon Prabu	Ujesh S	Prithivraj S, Rohan S, Ujesh S
19	Agriculture/ Food Tech	How can we innovate a single compact device that can test all necessary qualities of milk, such as FAT, SNF, protein, and adulteration, while also serving as an attractive, modular structure for selling milk and milk products?	NMNTSTD3123579	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	MUTANTS	Ms S Yuwvaranni	Arjun Sathish R R	Arjun Sathish R R, SUCHARITA NAGESH, HEMAVARSHINI R
20	Agriculture/ Food Tech	How might we design a cost-effective combined harvester with an integrated precision drying system to efficiently harvest, thresh, and dry paddy grains directly in the field, particularly during the samba season?	NMNTSTD4124426	4124	Sri Sai Ram Institute of Technology	HARVEST HACKERS	Ms R Lakshmi Devi	MADHUMITHA N	MADHUMITHA N, SRIVARSHINI K S , DHANALAKSHMI D
21	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD4124664	4124	Sri Sai Ram Institute of Technology	Vector thirteen	Dr T Muthamizhan	Narenthira Sai Raam P P	Narenthira Sai Raam P P, Dharshan P
22	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD41251140	4125	Sri Sairam Engineering College	No risk No reward	Dr I VIMAL KANNAN	Udhayanidhi J	Udhayanidhi J, Nithish U, Varsha K, Shobana R
23	Agriculture/ Food Tech	How might we develop an innovative, economical, and user-friendly solution to help farmers prevent bird menace in crops such as sunflower, maize, and jowar? This solution should be practical and scalable, offering an effective method to safeguard these crops while being accessible to farmers.	NMNTSTD4128453	4128	SRM VALLIAMMAI ENGINEERING COLLEGE	SOLUTION SQUAD	Dr N VAIRAM	V Priyanka	V Priyanka , L MINOARULSELVAN, M Ramya, SUBHIKSHA K

422	Information/Communication Technology	How might we develop an online platform to ensure the safety and mental well-being of children and women by integrating virtual counseling services, gamified activities, awareness on legal rights and access, and essential resources? This platform would create a secure and engaging virtual environment, empowering users with interactive tools, mental health support, and knowledge to enhance their safety and overall well-being.	NMNTSTD4125167	4125	Sri Sairam Engineering College	MERRYTOPIA	Dr R VALARMATHI	YAZHINI G	YAZHINI G, A M JANANI , L S NARMADHA, SWETHA A
423	Information/Communication Technology	How might we develop a solution for automating inventory management in small warehouses, including real-time stock tracking, automated order fulfilment, and minimising human error?	NMNTSTD4125215	4125	Sri Sairam Engineering College	Synergy Squad	KAVITHA V	Kaviya Sree S	Kaviya Sree S, Prashanthi MR, Shanmugavarshini B, Ranjitha V
424	Information/Communication Technology	How might we develop a unique and efficient mechanism to automatically stop the transfer of social security funds to deceased under various schemes? The solution should ensure timely identification of deceased beneficiaries, leveraging integration with death registration databases, Aadhaar authentication, or periodic life certification through digital methods to prevent misuse and save government funds.	NMNTSTD4125652	4125	Sri Sairam Engineering College	Palo Hazel	Dr SOMA PRATHIBA	Saiganesh V	Saiganesh V, Ugendhra Raja V, Lokesh S, Mohammed Faheem M A
425	Information/Communication Technology	How might an innovative solution address communication challenges in remote areas, such as hilly and forest regions with weak or no network coverage? The goal is to develop an affordable and accessible emergency communication system, considering that satellite phones are financiallyunfeasible for most of the population.	NMNTSTD4125807	4125	Sri Sairam Engineering College	Technooks	DrSumathiS	SAIGEETHA U	SAIGEETHA U, Sai Preetha V, Rithika T, Sutharsan S
426	Information/Communication Technology	How might you create a user-friendly software solution to map government schemes to beneficiaries based on their socio-economic background? Ensure real-time access and a citizen-centric design for efficient grievance redressal.	NMNTSTD4127031	4127	Tagore Engineering College	Teamspirit	Dr R Beulah Jayakumari	Vignesh A	Vignesh A, Juswanth V, Lathifunisa Tausifa A, Surya SJ
427	Information/Communication Technology	How might we develop a unique and efficient mechanism to automatically stop the transfer of social security funds to deceased under various schemes? The solution should ensure timely identification of deceased beneficiaries, leveraging integration with death registration databases, Aadhaar authentication, or periodic life certification through digital methods to prevent misuse and save government funds.	NMNTSTD4128065	4128	SRM VALLIAMMAI ENGINEERING COLLEGE	TEAM TITANZ	Dr M SENTHILKUMAR	Mohana Meena Gnanasekaran	NAVEEN M, Mohana Meena Gnanasekaran
428	Information/Communication Technology	How might we develop a unique and efficient mechanism to automatically stop the transfer of social security funds to deceased under various schemes? The solution should ensure timely identification of deceased beneficiaries, leveraging integration with death registration databases, Aadhaar authentication, or periodic life certification through digital methods to prevent misuse and save government funds.	NMNTSTD4128067	4128	SRM VALLIAMMAI ENGINEERING COLLEGE	TEAM VEERAN	Ms S NIVEDHA	SAMRAJ T	NANDHINI P, THARUNYA M, SAMRAJ T
429	Information/Communication Technology	How might we develop a solution for connecting farmers with local markets, enabling real-time price discovery, efficient supply chain management, and fair pricing for agricultural produce.	NMNTSTD4128355	4128	SRM VALLIAMMAI ENGINEERING COLLEGE	Team Matrix	Ms I Kavitha	KOGUL M	KOGUL M, ARSHAD AHAMED M, GOKUL S, DERAL AKSHAN A
430	Information/Communication Technology	How might we develop a versatile and dynamic website with unique ID numbers to efficiently address migrant labor issues in Tamil Nadu, enabling smooth registration, tracking, and providing timely support to migrant workers while ensuring ease of use and accessibility?	NMNTSTD4204129	4204	ADHIPARASAKTHI ENGINEERING COLLEGE	code crushers	Banupriya P	PADMAVATHI A	PADMAVATHI A, HARINI K, PRIYADHARSHINI E
431	Information/Communication Technology	How might we develop an online platform to ensure the safety and mental well-being of children and women by integrating virtual counseling services, gamified activities, awareness on legal rights and access, and essential resources? This platform would create a secure and engaging virtual environment, empowering users with interactive tools, mental health support, and knowledge to enhance their safety and overall well-being.	NMNTSTD4211134	4211	IFET COLLEGE OF ENGINEERING	Team spartans	Mrs A ESWARI	Asif Basha M	Asif Basha M, SAKTHIMURUGAN S
432	Information/Communication Technology	Design and develop a comprehensive Learning Management System (LMS) that seamlessly integrates individual user logins, course enrollment, attendance tracking, learning pathways, assessments, evaluations, and certification management, all within a unified and intuitive centralized dashboard.	NMNTSTD4216484	4216	Mailam engineering college	Web Wizards	R ANANTHI	Abdul rahman A	Abdul rahman A, Deepak E, Arokiya jeffrin A, Inamulhasan J
433	Information/Communication Technology	How might we implement a GPS-based tracking system for government buses that provides passengers with real-time arrival updates, seat availability, and route information (starting and ending points), ensuring clarity, safety, and convenience at all times? This system should enhance the passenger experience by offering accurate tracking, real-time updates, and timely information for improved planning and safety.	NMNTSTD4221007	4221	St. Anne's College of Engineering and Technology	solution seekers	DURAIRAJ S	Vaishali S	Vaishali S, DEEPIKA K, ANITHA R
434	Information/Communication Technology	How might we develop a solution to combat the theft of ration goods during transportation from godowns to PDS shops, while ensuring the enforcement of stock clearance on a FIFO (First-In, First-Out) basis for better inventory management and accountability?	NMNTSTD4226036	4226	UNIVERSITY COLLEGE OF ENGINEERING PANRUTI	CLOUD SPY	Dr G Hariharan	NAVEEN P	NAVEEN P, MUGILAN T, DEVABALAKRISHNAN M
435	Information/Communication Technology	How might we create a centralized dashboard for district administration to monitor and track the real-time progress of work across all departments, ensuring efficient management and decision-making?	NMNTSTD5106005	5106	C. Abdul Hakeem college of engineering and technology	Unique lights	Mrs P Saranyadevi	Menaga R	Samah Nuha Z, Gayathri Devi D, Menaga R
436	Information/Communication Technology	How can we create an advanced agricultural bot with multi-language support and animation that helps small-scale farmers with soil testing, pest detection, crop management, irrigation, and harvesting, while providing information on local government financial aids, farming schemes, and subsidies, to improve productivity, income, and food security, and double agricultural output?	NMNTSTD5108001	5108	GANADIPATHY TULSI'S JAIN ENGINEERING COLLEGE	VinManSan	Durai kumar D	Vinod kumar S	Vinod kumar S, Sanjay P, Manojh R
437	Information/Communication Technology	How might we develop a solution for automating inventory management in small warehouses, including real-time stock tracking, automated order fulfilment, and minimising human error?	NMNTSTD5122016	5122	S.K.P. ENGINEERING COLLEGE	SKP IT Riders	SAMHITHA M	Aruna A	Aruna A , RAHILA S, Dhanusha V
438	Information/Communication Technology	How might we develop a mobile app that tracks and displays district-level officials' field visits and inspections with geo-tagging, allowing HODs and district collectors to review work, upload photos, and digitally sign inspection reports using mobile fingerprint/OTP authentication?	NMNTSTD5122040	5122	S.K.P. ENGINEERING COLLEGE	Dcode	KAUDILYAR R	Hariharan P	Jeevanprakash K, Welson P, Hariharan P
439	Information/Communication Technology	How might we develop a solution for connecting farmers with local markets, enabling real-time price discovery, efficient supply chain management, and fair pricing for agricultural produce.	NMNTSTD5133024	5133	University College of Engineering ARNI	SPARKLIGHT	Dr J SANTHANA KRISHNAN	KISHORE G	KISHORE G, SUNIL E, SANJAY S, GOWTHAM R
440	Information/Communication Technology	Design and develop a comprehensive Learning Management System (LMS) that seamlessly integrates individual user logins, course enrollment, attendance tracking, learning pathways, assessments, evaluations, and certification management, all within a unified and intuitive centralized dashboard.	NMNTSTD5133030	5133	University College of Engineering ARNI	TEAMEIGHT	Dr J SANTHANA KRISHNAN	YUVARAJ A	YUVARAJ A, SABARI S, SANJAY K, SABARINATHAN R
441	Information/Communication Technology	Design and develop a comprehensive Learning Management System (LMS) that seamlessly integrates individual user logins, course enrollment, attendance tracking, learning pathways, assessments, evaluations, and certification management, all within a unified and intuitive centralized dashboard.	NMNTSTD5134012	5134	University College of Engineering kanchipuram	Learnovers	KALA T	Tharun Appireddy	HARIHARAN V, VYSHNAV V, Tharun Appireddy
442	Information/Communication Technology	How might we develop a solution for connecting farmers with local markets, enabling real-time price discovery, efficient supply chain management, and fair pricing for agricultural produce.	NMNTSTD5134035	5134	University College of Engineering kanchipuram	Techmetro	MANI G	Mohanapriya P	Mohanapriya P, Keerthanapriya D R, Gayathri, Priyadharshini A
443	Information/Communication Technology	How might we simplify the approval process by creating a single-window platform that allows entrepreneurs to easily obtain all necessary approvals from various government agencies, reducing delays and improving efficiency?	NMNTSTD5134055	5134	University College of Engineering kanchipuram	INNOVENTURES	M SATHISHKUMAR	SARANYA R	SARANYA R, BHARANI V, POONGUZHALI S, PRIYADHARSHINI V
444	Information/Communication Technology	How might we create a centralized dashboard for district administration to monitor and track the real-time progress of work across all departments, ensuring efficient management and decision-making?	NMNTSTD6109052	6109	JAYALAKSHMI INSTITUTE OF TECHNOLOGY	Four Geeks	NANDINI P	Meenakshi Sundaram A	Gokula kannan B, Karthi J, Tamilarasan C, Meenakshi Sundaram A

REGISTRAR

ANNA UNIVERSITY

SARDAR PATEL ROAD, CHENNAI – 600 025.

Phone: 044 – 22357004
: 044 – 22357026
Web : www.annauniv.edu

03 March 2025

Dear Sir / Madam,

Sub: TNSDC-Naan Mudhalvan Niral Thiruvizha 2.0 (Hackathon) - EVEN Semester 24-25 – B.E/B.Tech – Results - Final Year Student Project Work – Execution Plan– Reg.

*****

The **Niral Thiruvizha 2.0** was launched by the Honorable Deputy Chief Minister of Tamil Nadu. This initiative aims to inspire final-year engineering students to develop innovative, technology-driven solutions that address real-world challenges and improve quality of life. It is hosted by **TN Skill** and partnered by **Anna University**, **Startup TN**, **EDII TN**, **TNRISE**, and **i-TNT Hub**.

Partnering in Niral Thiruvizha 2.0 provides institutions with a unified platform to foster entrepreneurial mindsets among students through experiential learning and exposure. It bridges academia and real-world innovation, enhancing students' capabilities and building a robust entrepreneurial ecosystem.

This event showcased the exceptional talent, creativity, and innovation of students across multiple domains, and we thank you for your active participation and support in making it a grand success.

Niral Thiruvizha 2.0 registration details

- Total number of themes :12
- Total number of problem statements : 85
- Total number of institutions registered : 312
- Total number of students registered : 50605
- Total number of faculty guides registered : 14726
- Total number of ideas received : 15337

The expert committee specific to each problem statements evaluated the idea submissions. Based on the committee recommendations. Now, the results of the top 1,000 ideas of Niral Thiruvizha 2.0 are published on the web portal and the same is enclosed in Annexure.

Academic credentials:

The selected teams from Government Colleges, Government aided Colleges, Government Autonomous Colleges, University Constituent Colleges, University Departments, Self-Financing Autonomous Colleges and Self-Financing Non-Autonomous Colleges are instructed to take up this as their project work in their final semester and the academic credits can be awarded for this work as final year project. Kindly ensure that the selected students are fully engaged in their project work and that they are involved actively, effectively, efficiently, and diligently to complete their project work. As per the curriculum, you are requested to evaluate their project work internally as well as externally and award the marks for entering into the CoE Portal.

Project Timeline:

S. No.	Events	Tentative Dates
1	Publication of Niral Thiruvizha results	3rd March 2025
2	Internal Review 1	17th to 21st March 2025
3	Internal Review 2	7th to 11th April 2025
4	Regional review by the AU Experts and Industry / Submission of Project documents like Report, poster, ppt, videos, Statement of Expenditure, UC etc/ Project Expo	1st week of May 2025
5	Regional Bootcamp	2nd& 3rd week of May 2025
6	Grand final Evaluation	4th Week of May 2025

Project Report:

The project report should be prepared as per the format prescribed by the Director (Academic Courses). The report should be comprehensive and well-structured, covering all aspects of the project, including the abstract, introduction, literature survey, methodology, results, discussion, conclusion, and references. The acknowledgment should mention Naan Mudhalvan and Anna University. The submission should also include the project poster, videos with descriptions, and PPT slides. The similarity score (as per Turnitin) for the project should not exceed 15%.

Poster:

The project poster (in A3 size) should include the key findings or outcomes of the project, highlight any significant innovations, insights, or achievements, explain how the project contributes to existing knowledge or addresses real-world challenges, and describe any prototypes, models, or systems developed as part of the project. The poster should include the Niral Thiruvizha, Naan Mudhalvan, and Anna University logos.

Video:

A video presentation of the project and a demo of the prototype built should be submitted.

PowerPoint (PPT):

A PowerPoint presentation should be prepared for the project exhibition and presentation. The PPT slides should effectively communicate the project objectives, methodology, and tangible outcomes of the project work.

Funding Mechanism:

An amount not exceeding Rs. 10,000 (Rupees Ten Thousand only) for each selected project will be released to the Dean/Principal of the College for the development of the project prototype. Deans/Principals are requested to monitor the expenditure incurred by the project team. The Dean/Principal of the institution is responsible for settling accounts, and providing the Audited Statement of Expenditure (SoE) and Utilisation Certificate (UC) in the prescribed formats for the funds received. Kindly ensure that the released funds are utilized only for the project purpose.

We extend our heartfelt gratitude to all the participants, partners, and supporters who have contributed to the success of this initiative. Congratulations to the selected teams. As we move forward, let us continue to foster the spirit of innovation, collaboration, and entrepreneurship. Together, we can create a positive impact on society and drive meaningful change. Thank you once again for your active participation and support.

REGISTRAR

3/3/25

To:
All the Deans & Principals.

VAISHALI S , DEEPIKA K , ANITHA R

THEME : INFORMATION/COMMUNICATION TECHNOLOGY

GUIDED BY: DURAI RAJ.S AP/ECE SANCET

GPS TRACKING SYSTEM FOR GOVERNMENT BUS

ADVANTAGES

Live bus tracking,Real-time seat info,Safer travel

problem statement:

Government buses are crucial for public transportation often lackreatime tracking, leaving passengers uncertainabout arrival timesseat uvailability, and routes. The absence of such information causes delays, safety concerns, andfrustration among passengers. This project aims to create a GPS-based tracking system that will offer real-time updates, including seat availability, bus location and routes for passengers, improving their experience and convenience.

invention:

This project introduces a GPS-based bus tracking system designed to provide real-time updates, including current bus location, seat availability, and ETA . The system aims to enhance the travel experience by offering accurate and accessible information to passengers via a web-based platform.

CREATOR:

The project reflects a practical application of GPS technology and real-time data handling, aimed at improving public transportation infrastructure. By identifying a common public inconvenience and providing a technology

HOW THE INVENTION SOLVED THE PROBLEM:

The system provides real-time bus location, seat availability, and route details, helping passengers plan their journey efficiently. It reduces waiting time, improves safety, and makes public transport more reliable and convenient



TAMILNADU SKILL DEVELOPMENT CORPORATION

Naan Mudhalvan Niral Thiruvizha

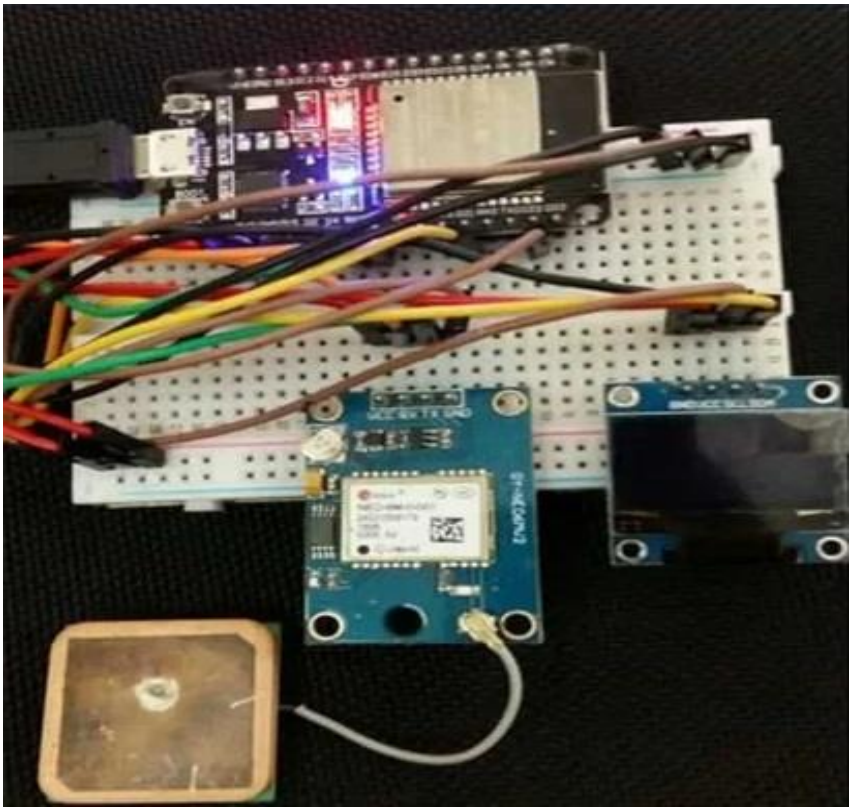
Review - 1

1. Name of the College: ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
2. College code: 4221
3. Theme: Information / Communication Technology
4. Problem statement: How might we implement a GPS-based tracking system for government buses that provides passengers with real time arrival updates, seat availability and route information (starting and end points), ensuring clarity, safety and convenience at all times? The system should enhance the passenger experience by offering accurate tracking, real-time updates and timely information for approved & improved Planning and Safety.
5. Faculty Guide Details: Mr. S. DURAI RAJ, AP/ECE

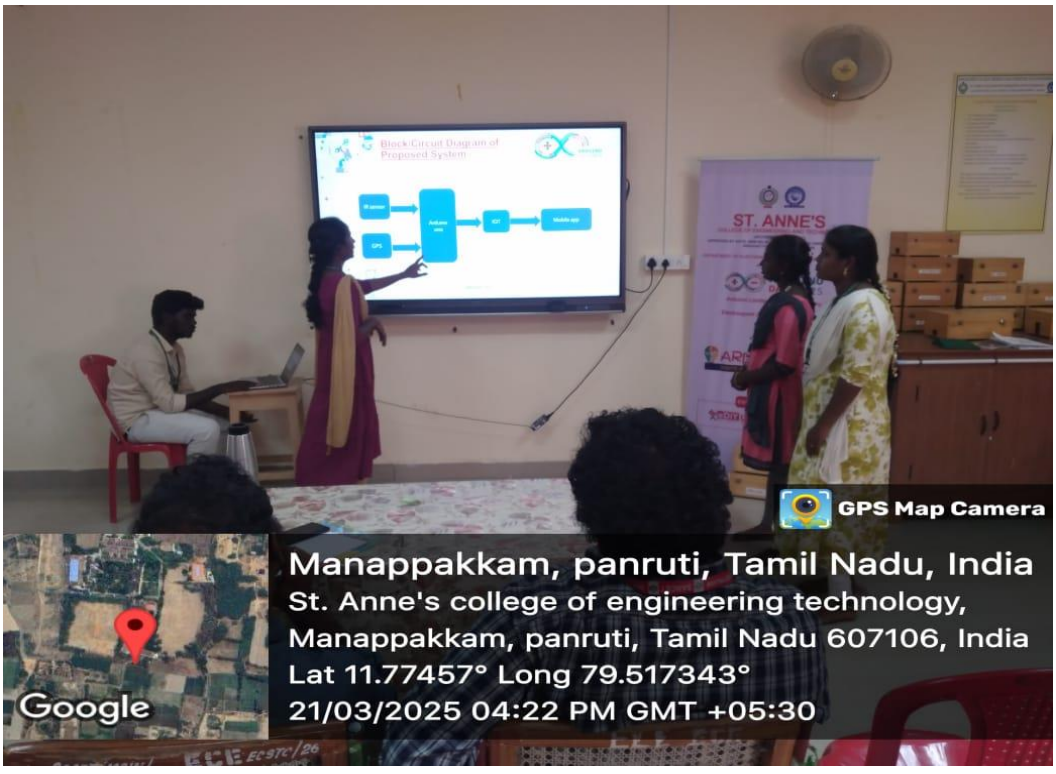
Team Leader Name	AU Reg.No	Year	Department	Mobile No
1. S. VAISHALI	422121106037	IV	ECE	7538815277
Team members				
1. K. Deepika	422121106009	IV	ECE	9500147607
2. R. Anitha	422121106003	IV	ECE	9629778095
3.				

6. Attach photos of the prototype/App/Software:
7. Attach photos of the 1st review being conducted:

6.Photo of the prototype:



7. Photo of the 1st review:



UNDERTAKING

1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.

2. The college will undertake the financial and other management responsibilities of the project also; college will be responsible in following the time lines.

3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.

4. I hereby declare that the details furnished above are true and correct.

S. Durai 24/03/2025

Signature of Faculty Guide

[S. DURAI RAJ - AP/ECE]

24.3.25

Signature of Principal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 [illegible]

TAMILNADU SKILL DEVELOPMENT CORPORATION

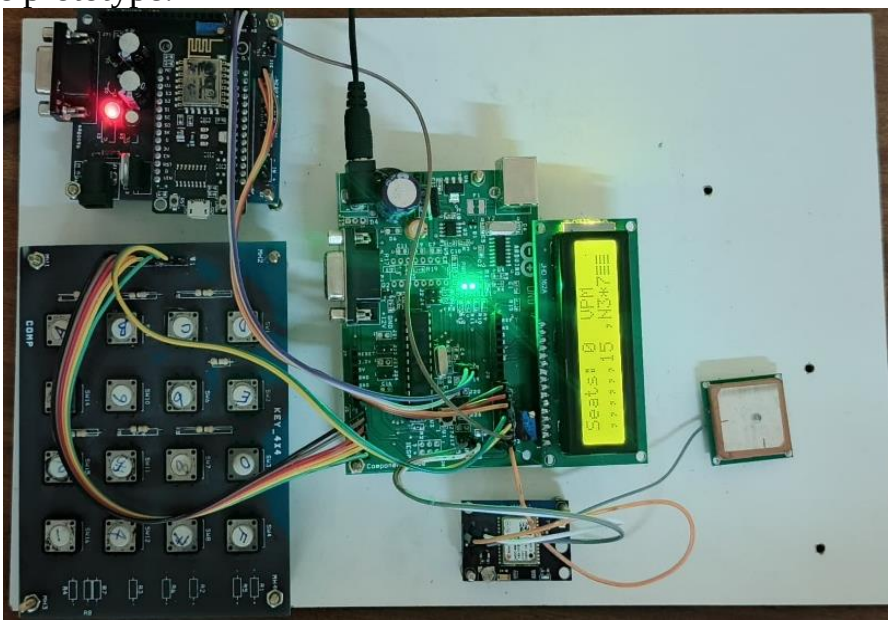
Naan Mudhalvan Niral Thiruvizha

Review - 2

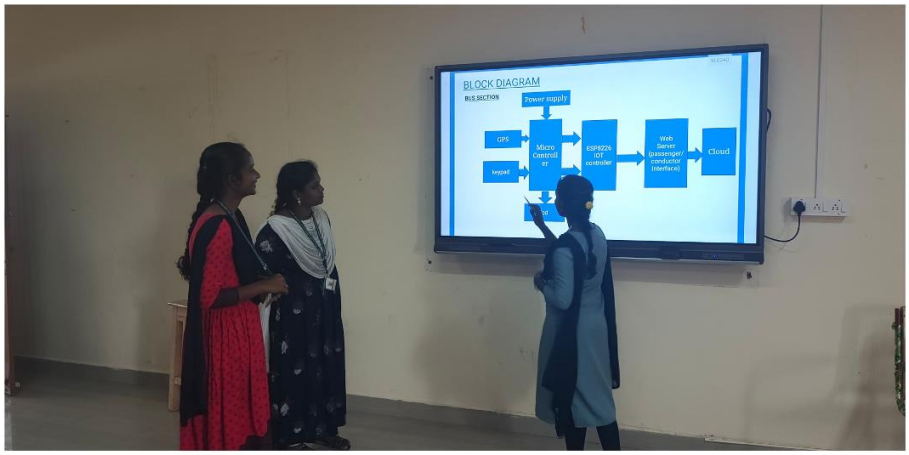
1. Name of the College: St. Anne's College of Engineering and Technology, Panruti
2. College code: 4221
3. Theme: Information / Communication Technology
4. Problem statement:
   How might we implement a GPS-based tracking system for government buses that provides passengers with real-time arrival updates, seat availability, and route information (starting and ending points), ensuring clarity, safety, and convenience at all times? This system should enhance the passenger experience by offering accurate tracking, real-time updates, and timely information for improved planning and safety.
5. Faculty Guide Details:

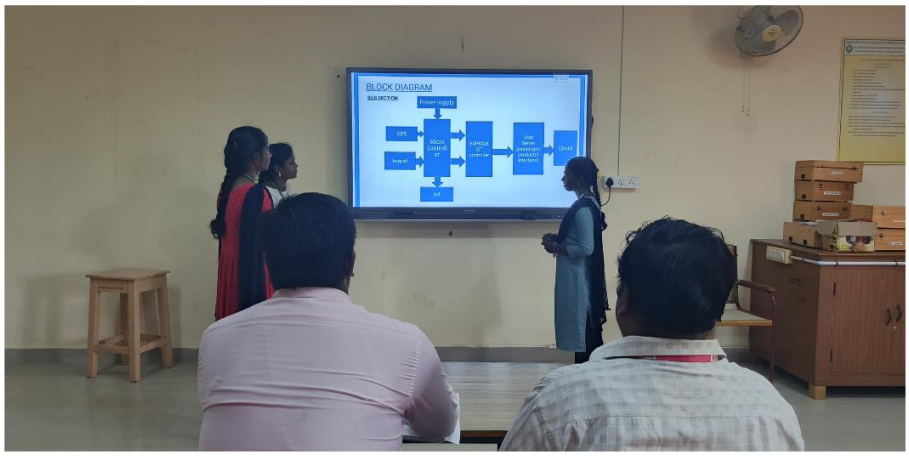
Team Leader Name	AU Reg.No	Year	Department	Mobile No
1. 422121106037	S. Vaishali	IV	ECE	7538815277
Team members				
1. 422121106009	K. Deepika	IV	ECE	9500147607
2. 422121106003	R. Anitha	IV	ECE	9629778095

6. Photos of the prototype:



7. Photos of the 2nd review:





16.7.25

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

UNDERTAKING

1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.

2. The college will undertake the financial and other management responsibilities of the project also; college will be responsible in following the time lines.

3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.

4. I hereby declare that the details furnished above are true and correct.

S. Durai 15/04/2025

Signature of Faculty Guide

[S. DURAI RAJ - AP/ECE]

R. Arokiadass 16.4.25

Signature of Principal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

UTILISATION CERTIFICATE

Niral Thiruvizha ID : NMNITSTD4221007

College Name : ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

Project Title : GPS Tracking System for Government Bus

Certified that out of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University towards the financial assistance for the project details indicated above, an amount of Rs. 10,000 /- (Rupees Ten Thousand Rupees only) was utilised for the purpose for which it was sanctioned, leaving a balance of Rs. 0 /- (Rupees _____ only).

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the necessary checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Team details

Sl.No.	Reg. No.	Student Name	Branch	Mobile No.	Sign.
1	422121106037	S. VAISHALI	ECE	7538815277	S Vaishali
2	422121106009	K. DEEPIKA	ECE	9500147607	K.Deepika
3	422121106003	R. ANITHA	ECE	9629778095	R.Anitha
4	—	—	—	—	—
5	Name, Designation, Department of the Faculty Guide	Mr. S. DURAI RAJ AP/ECE		9789518316	S.Durai

Name and Sign of the HoD
Dr. Sr. S. Anita, HoD/ECE

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti (Dist.), Pin:607 106

Name and Sign of the Finance Officer / Auditor / Accounts Officer with seal
Dr. L. SAGAYA LILY

St.Anne's College of Engineering & Technology,
Anguchettypalayam,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 106.

Name and Sign of the Principal with seal
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 106.

Place: Panruti
Date: 15/05/2025

College Seal
15 MAY 2025

PRE-RECEIPT

Niral Thiruvizha ID : NMNTSTD4221007

College Name : ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

Project Title : GPS Tracking System for Government Bus

Faculty Guide : Mr. S. DURAI RAJ, AP/ECE

Name of the students:

Sl.No.	Reg. No.	Name	Branch	Mobile No.
1	422121106037	S. VAISHALI	ECE	7538815277
2.	422121106009	K. DEEPIKA	ECE	9500147607
3	422121106003	R. ANITHA	ECE	9629778095
–	–	–	–	–

Received a sum of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University, towards the financial assistance for the project details indicated above. Certified further, the same will be transferred to the above student concerned.

Account Holder Name : ST. ANNE'S COLLEGE OF ENGG & TECHNOLOGY

Account No. : 34916916294

Bank Name & Branch : STATE BANK OF INDIA, PUDUPET

IFSC : SBIN0003782

Note: The bank account should be the official account of the college Head of the Institution, rather than an individual account. Enclose a copy of the first page of the bank passbook/cancelled cheque leaf for validation.

S. Durai 15/5/2025
Name and Sign
of the Faculty Guide
Mr. S. DURAI RAJ - AP/ECE

15/5/25
Name and Sign
of the HoD
Dr. S. Anita, HOD/ECE

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

15/5/25
Name and Sign
of the Principal with Seal

Dr. R. ARUMADAS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

College Seal

Place: Panruti
Date: 15/05/2025

Bill Passed for the amount of Rs. 10,000 /- (Rupees Ten thousand Only)

St. Anne's College of Engineering & Tech.
15 MAY 2025

AU – NM Co-ordinator

BILL SUMMARY

Niral Thiruvizha ID : NMNTSTDA221007

College Name : ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

Project Title : GPS Tracking System for Goverenment Bus

Certified that the following expenditures are made by us and the bills are admitted for the above project only. Bills are in order. NO other claims are made in these bills.

Sl.No.	Bill No.	Bill Date	Description	Amount
1	1021	17.03.2025	Hardware Components	8,000
2.	WEB1102	04.04.2025	Web Servers	2000
			TOTAL	10,000

(Rupees TEN THOUSAND RUPEES Only)

Team details

Sl.No.	Reg. No.	Student Name	Branch	Mobile No.	Sign.
1	422121106037	S. VAISHALI	ECE	7538815277	S. Vaishali
2	422121106009	K. DEEPIKA	ECE	9500147607	K. DeePika
3	422121106003	R. ANITHA	ECE	9629778095	R. Anitha
4	-	-	-	-	-
5	Name, Designation, Department of the Faculty Guide	Mr. S. DURAI RAJ AP/ECE		9789578316	S. Durai

Name and Sign 15/5/25
of the HoD
Dr. S. Anita, HoD/ECE

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

Dr. L. Sagayaraj 15/5/25
Name and Sign
of the Finance Officer / Auditor / Accounts Officer with seal
SR. L. SAGAYA LILY,
St.Anne's College of Engineering & Technology,
Anguchettypalayam,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 106.

15/5/25
Name and Sign
of the Principal with seal
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology.
ANGUCHETTYPALAYAM.

Place: Panruti
Date: 15/05/2025

College Seal
15 MAY 2025

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. Vaishali S

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. DEEPIKA K

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. ANITHA R

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. DURAIRAJ S

from St. Anne's College of Engineering and Technology

has **participated** as **Faculty Guide** in the
Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development
Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of
Special Programme Implementation Department, Government of Tamil Nadu

Naan Mudhalvan Niral Thiruvizha 2.0
Shortlisted Ideas (Top 1000)
Results - 2025

S.No	Theme Name	Problem Statement	NMNT ID	College Code	College Name	Team Name	Faculty Name	Team Leader Name	Team Members
1	Agriculture/ Food Tech	How can we innovate a single compact device that can test all necessary qualities of milk, such as FAT, SNF, protein, and adulteration, while also serving as an attractive, modular structure for selling milk and milk products?	NMNTSTD0002003	2	Alagappa college of technology anna university	Novel Milk Quality Detector	R Palpandi Raja	Amalin Tonetta V	Amalin Tonetta V, Nithi Arasi N
2	Agriculture/ Food Tech	How might we design an affordable device to automatically regulate the temperature in poultry farms, maintaining an optimal 35°C to prevent heat stress, reduce manual water spraying, and ensure the health and productivity of the birds?	NMNTSTD00040132	4	Madras Institute of Technology, Anna University	MIT Tech Titans	Dr O VIGNESH	PATTU HARIHARAAN N	PATTU HARIHARAAN N, SANTHANAKRISHNAN T, MATHAN RAJ S, RUBANKUAMR D
3	Agriculture/ Food Tech	How can we design a cost-effective, user-friendly automatic mini tilling and leveling machine optimized for heavy clayey soil, reducing operator fatigue and skill requirements, and making it more accessible for small and marginal farmers?	NMNTSTD0004041	4	Madras Institute of Technology, Anna University	MIT RACING	Mr S Arun Prasad	MOHANRAJKUMAR G	MOHANRAJKUMAR G, Amuthan C, Aswin S, Jayanthan D
4	Agriculture/ Food Tech	How might we develop a solution to reduce pesticide and fertilizer usage by integrating Soil Health Card data, weather data, and the Leaf Color Chart method? This app should provide farmers with precise, location-specific recommendations to optimize input usage, enhance crop health, and promote sustainable agricultural practices.	NMNTSTD1115030	1115	R M D Engineering College (Autonomous)	Creators	Dr C Bennila Thangammal	Poorna Saai M	Poorna Saai M, Nithissh S S, Muhammad Taufeeq Umar N
5	Agriculture/ Food Tech	How can we innovate a single compact device that can test all necessary qualities of milk, such as FAT, SNF, protein, and adulteration, while also serving as an attractive, modular structure for selling milk and milk products?	NMNTSTD1115072	1115	R M D Engineering College (Autonomous)	LIVESTOCK LUMINARIES	Dr J Jayaudhaya	NIKITHA K	NIKITHA K
6	Agriculture/ Food Tech	How might we develop a solution to reduce pesticide and fertilizer usage by integrating Soil Health Card data, weather data, and the Leaf Color Chart method? This app should provide farmers with precise, location-specific recommendations to optimize input usage, enhance crop health, and promote sustainable agricultural practices.	NMNTSTD1128124	1128	TJS Engineering College	TechHarvesters	Ms V PAVITHRA	Vedhalakshmi M	Vedhalakshmi M, Venkatesh M, Yogesh S, Srikanth K
7	Agriculture/ Food Tech	How might we develop advanced infrastructure and mechanization for jaggery production units to improve hygiene and manufacturing processes, while creating a dedicated platform for efficient sourcing and management of jaggery product procurement?	NMNTSTD1132084	1132	Velammal Engineering College	MECHATRON	Mr M Karthikeyan	MANOJ K	MANOJ K, Abishek P, Koushik ganapathy , Gokul E
8	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD2116169	2116	RAJALAKSHMI ENGINEERING COLLEGE	BoostX	Dr S RAMA REDDY	KUBER VISNU S	KUBER VISNU S, Dhiwakar J, Hemalatha S
9	Agriculture/ Food Tech	How might we design a cost-effective combined harvester with an integrated precision drying system to efficiently harvest, thresh, and dry paddy grains directly in the field, particularly during the samba season?	NMNTSTD2116490	2116	RAJALAKSHMI ENGINEERING COLLEGE	Regen	Mrs C Amutha	Rohan R	Rohan R, Vishva M, Sriumanath, Varsha K
10	Agriculture/ Food Tech	How might we develop an efficient shrimp peeling machine that removes shells without compromising yield, accommodates various shrimp sizes, maintains hygienic standards, minimizes processing time, and reduces operational costs to meet growing market demands?	NMNTSTD2124011	2124	SREE SASTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY	Shelly Shrimp	Dr A S Vaishnavi	G Keerthana	G Keerthana, J Saamika, Aanantha sundari K P, Mahisha Mardini J
11	Agriculture/ Food Tech	How might we design a cost-effective combined harvester with an integrated precision drying system to efficiently harvest, thresh, and dry paddy grains directly in the field, particularly during the samba season?	NMNTSTD2124040	2124	SREE SASTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY	The heat squad	Dr A S Vaishnavi	Sundaresan P	Sundaresan P, Divakar P, Jayavel S, R Surendhar
12	Agriculture/ Food Tech	How might we develop advanced infrastructure and mechanization for jaggery production units to improve hygiene and manufacturing processes, while creating a dedicated platform for efficient sourcing and management of jaggery product procurement?	NMNTSTD31050355	3105	Dhanalakshmi Srinivasan College of Engineering and Technology	Future Makers	P Suganya	Pavan Kumar T	Pavan Kumar T, Adharsh Vijayandran, Madhavan T
13	Agriculture/ Food Tech	How might we develop an efficient shrimp peeling machine that removes shells without compromising yield, accommodates various shrimp sizes, maintains hygienic standards, minimizes processing time, and reduces operational costs to meet growing market demands?	NMNTSTD3105143	3105	Dhanalakshmi Srinivasan College of Engineering and Technology	CSK	Ms A HEMALATHA	KAJENDHRAN J	KAJENDHRAN J , SAMUVEL Y , KAMALESH S
14	Agriculture/ Food Tech	How might we develop an efficient shrimp peeling machine that removes shells without compromising yield, accommodates various shrimp sizes, maintains hygienic standards, minimizes processing time, and reduces operational costs to meet growing market demands?	NMNTSTD31110336	3111	LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Shells and Shore	Mr P Chandrasekhar	V Sai Lakshath	V Sai Lakshath, Santhosh Roghan A, Shyam T, Saravana S M
15	Agriculture/ Food Tech	How might we develop a solution to reduce pesticide and fertilizer usage by integrating Soil Health Card data, weather data, and the Leaf Color Chart method? This app should provide farmers with precise, location-specific recommendations to optimize input usage, enhance crop health, and promote sustainable agricultural practices.	NMNTSTD3123011	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Mighty Warriors	Dr S Ancy	FELIX KEVINSINGH T	FELIX KEVINSINGH T, JAMES ROBIN RAJ, LAKSHMISIMHA REDDY KASIREDDY, KEVIN JEYARAJ
16	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD3123146	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Agrobot	R Sreekanth	Aiswarya T S	Aiswarya T S, Harini N
17	Agriculture/ Food Tech	How might we develop advanced infrastructure and mechanization for jaggery production units to improve hygiene and manufacturing processes, while creating a dedicated platform for efficient sourcing and management of jaggery product procurement?	NMNTSTD3123162	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Team PGH	Pravinkumar K	Gokul R	Gokul R, Harlan Rhodicson G
18	Agriculture/ Food Tech	How can we design a device to efficiently remove moisture from coir also to prevent groundwater seepage and minimize environmental impact?	NMNTSTD3123376	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Red Rocket	Dr A Simon Prabu	Ujesh S	Prithivraj S, Rohan S, Ujesh S
19	Agriculture/ Food Tech	How can we innovate a single compact device that can test all necessary qualities of milk, such as FAT, SNF, protein, and adulteration, while also serving as an attractive, modular structure for selling milk and milk products?	NMNTSTD3123579	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	MUTANTS	Ms S Yuwvaranni	Arjun Sathish R R	Arjun Sathish R R, SUCHARITA NAGESH, HEMAVARSHINI R
20	Agriculture/ Food Tech	How might we design a cost-effective combined harvester with an integrated precision drying system to efficiently harvest, thresh, and dry paddy grains directly in the field, particularly during the samba season?	NMNTSTD4124426	4124	Sri Sai Ram Institute of Technology	HARVEST HACKERS	Ms R Lakshmi Devi	MADHUMITHA N	MADHUMITHA N, SRIVARSHINI K S , DHANALAKSHMI D
21	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD4124664	4124	Sri Sai Ram Institute of Technology	Vector thirteen	Dr T Muthamizhan	Narenthira Sai Raam P P	Narenthira Sai Raam P P, Dharshan P
22	Agriculture/ Food Tech	How might we develop energy-efficient hybrid interfaces for conventional machines in tea industries, reducing power consumption while maintaining productivity and optimizing overall energy use?	NMNTSTD41251140	4125	Sri Sairam Engineering College	No risk No reward	Dr I VIMAL KANNAN	Udhayanidhi J	Udhayanidhi J, Nithish U, Varsha K, Shobana R
23	Agriculture/ Food Tech	How might we develop an innovative, economical, and user-friendly solution to help farmers prevent bird menace in crops such as sunflower, maize, and jowar? This solution should be practical and scalable, offering an effective method to safeguard these crops while being accessible to farmers.	NMNTSTD4128453	4128	SRM VALLIAMMAI ENGINEERING COLLEGE	SOLUTION SQUAD	Dr N VAIRAM	V Priyanka	V Priyanka , L MINOARULSELVAN, M Ramya, SUBHIKSHA K

137	Artificial Intelligence	How might we develop an AI-powered energy management system that optimizes energy consumption in industrial and commercial facilities, reducing costs, improving efficiency, and minimizing environmental impact through real-time analytics and automation?	NMNTSTD3123005	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Enervision	Dr Jayarama Pradeep	Nikith Jude Serrao	Nikith Jude Serrao
138	Artificial Intelligence	How might we leverage AI technology to identify fish resources and shoals at sea, enabling fishermen to efficiently locate fish with minimal manpower and cost, reducing fuel consumption, and improving catch rates?	NMNTSTD3123112	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Angels Light	Mrs M Angelin Ponrani	T ABISHEK	T ABISHEK, R DHIVAKAR
139	Artificial Intelligence	How might we develop an AI-powered energy management system that optimizes energy consumption in industrial and commercial facilities, reducing costs, improving efficiency, and minimizing environmental impact through real-time analytics and automation?	NMNTSTD3123169	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	Happy coders	S Sivakumar	Yogesh S	Siva Kumar K, Yogesh S
140	Artificial Intelligence	How might we develop an AI or OCR solution to digitize and convert handwritten, old registered documents into a readable and accessible format in regional languages improving public access and readability of historical records?	NMNTSTD3123323	3123	ST.JOSEPH'S COLLEGE OF ENGINEERING	idea gen	Dr KOTTEESWARAN R	Srivathsan M K	Srivathsan M K, Karthick Raja B, Ashwin B
141	Artificial Intelligence	How might we develop an AI-enabled system for real-time conversion of speech to sign language using animated avatars, ensuring effective communication and inclusivity for persons with hearing and speech impairments during government functions and public events? This solution should eliminate the dependency on sign language experts while providing accurate and accessible communication.	NMNTSTD4114022	4114	NEW PRINCE SHRI BHAVANI COLLEGE OF ENGINEERING AND TECHNOLOGY	Logic ladies	Ms M Suganya	Sakthiveni J	Sakthiveni J, R UMA MAHESWARI, Lavanya P
142	Artificial Intelligence	How might we develop an AI-enabled system for real-time conversion of speech to sign language using animated avatars, ensuring effective communication and inclusivity for persons with hearing and speech impairments during government functions and public events? This solution should eliminate the dependency on sign language experts while providing accurate and accessible communication.	NMNTSTD4124308	4124	Sri Sai Ram Institute of Technology	Tech Titans	Ms Mathupriya S	Durgha Varshini K V	Durgha Varshini K V, Swathi T, Hariharan A
143	Artificial Intelligence	How might we develop an AI-powered energy management system that optimizes energy consumption in industrial and commercial facilities, reducing costs, improving efficiency, and minimizing environmental impact through real-time analytics and automation?	NMNTSTD4124520	4124	Sri Sai Ram Institute of Technology	Wild Preventers	Dr G Thamarai Selvi	Divya Shree S	Divya Shree S, Sarath S
144	Artificial Intelligence	How might we develop an AI-powered energy management system that optimizes energy consumption in industrial and commercial facilities, reducing costs, improving efficiency, and minimizing environmental impact through real-time analytics and automation?	NMNTSTD4125085	4125	Sri Sairam Engineering College	ELECTRAX	Malini V	ARUN PRAKASH V	MANOJKUMAR S, JEGARIESH J S, ARUN PRAKASH V
145	Artificial Intelligence	How can we develop a practical, cost-effective, and eco-friendly AI-driven ultrasound technology to detect and deter wild animals from entering agricultural fields, while studying the movement of animals from reserve forests to human habitation areas and implementing a warning system to alert nearby localities for effective crop protection and wildlife management?	NMNTSTD41251475	4125	Sri Sairam Engineering College	Nth SOLUTION	SUDHA G	VANDHANAH S A	VANDHANAH S A, KAVIYA B, VENKATARAMAN P , KARTHIK K
146	Artificial Intelligence	How might we develop an AI-enabled system for real-time conversion of speech to sign language using animated avatars, ensuring effective communication and inclusivity for persons with hearing and speech impairments during government functions and public events? This solution should eliminate the dependency on sign language experts while providing accurate and accessible communication.	NMNTSTD4125332	4125	Sri Sairam Engineering College	Sound Scuplt	Gayathri S	Manish M	Vishal S, Sai Krish R J, Ashwin Kumar R D, Manish M
147	Artificial Intelligence	How can we develop a practical, cost-effective, and eco-friendly AI-driven ultrasound technology to detect and deter wild animals from entering agricultural fields, while studying the movement of animals from reserve forests to human habitation areas and implementing a warning system to alert nearby localities for effective crop protection and wildlife management?	NMNTSTD4125887	4125	Sri Sairam Engineering College	SPARKS	KALAISELVI P	Akshaya S D	Varshini N, Ramprasath S, Vijesu M, Akshaya S D
148	Artificial Intelligence	How might we be able to develop and implement an AI-powered traffic management system that aims to achieve a Zero Violation Point, ensuring optimal and efficient traffic flow while minimizing violations and enhancing overall road safety. This should be able to track the riders without helmets, seatbelts issuing challans for violations - a integrated system with less complexity that should be implementable	NMNTSTD4126002	4126	SRI VENKATESWARAA COLLEGE OF TECHNOLOGY	REBELS SQUAD	C Banupriya	Raghul P	Raghul P, K C Charuprabha , S Sasikumar
149	Artificial Intelligence	How might we develop an AI or OCR solution to digitize and convert handwritten, old registered documents into a readable and accessible format in regional languages improving public access and readability of historical records?	NMNTSTD4127048	4127	Tagore Engineering College	IT innovators	Ms G Bhuvaneshwari	Rebeca suji A	Rebeca suji A, Abirami M, Vaishnavi M R, Surekha S
150	Artificial Intelligence	How might we develop an AI-enabled system for real-time conversion of speech to sign language using animated avatars, ensuring effective communication and inclusivity for persons with hearing and speech impairments during government functions and public events? This solution should eliminate the dependency on sign language experts while providing accurate and accessible communication.	NMNTSTD4127217	4127	Tagore Engineering College	FUSION FORCE	Dr R Beulah Jayakumari	V merlin vensiya	V merlin vensiya, Hina Fathima K, K V V Mathimithra , R Avanthiga
151	Artificial Intelligence	How might we be able to develop and implement an AI-powered traffic management system that aims to achieve a Zero Violation Point, ensuring optimal and efficient traffic flow while minimizing violations and enhancing overall road safety. This should be able to track the riders without helmets, seatbelts issuing challans for violations - a integrated system with less complexity that should be implementable	NMNTSTD4127218	4127	Tagore Engineering College	The InnovEngineers	Dr P RADHAKRISHNAN	RUPESH R	RUPESH R, DEEPA S, DHINESH K, MAGESH BOOPATHI M
152	Artificial Intelligence	How might we develop an AI-enabled system for real-time conversion of speech to sign language using animated avatars, ensuring effective communication and inclusivity for persons with hearing and speech impairments during government functions and public events? This solution should eliminate the dependency on sign language experts while providing accurate and accessible communication.	NMNTSTD4128131	4128	SRM VALLIAMMAI ENGINEERING COLLEGE	AI Avatar	Ms R Vaishnavi	Palani Chinmayi	Palani Chinmayi, Prabavathi M, Sandhiya K
153	Artificial Intelligence	How might we build an AI-powered tool to efficiently analyze petitions, categorize them into relevant departments, flag urgent and important cases, and send reminders to officials, while also identifying repetitive grievances and tracking progress until resolution? The tool should also include a feature to communicate the status of the grievance to the petitioner, ensuring transparency and accountability.	NMNTSTD4204009	4204	ADHIPARASAKTHI ENGINEERING COLLEGE	THE DEFENDERS	g srinivasan	Giriprasath S	Giriprasath S, Aravindhatchan S, Raghul E, M Mohammed Javith
154	Artificial Intelligence	How can we develop a practical, cost-effective, and eco-friendly AI-driven ultrasound technology to detect and deter wild animals from entering agricultural fields, while studying the movement of animals from reserve forests to human habitation areas and implementing a warning system to alert nearby localities for effective crop protection and wildlife management?	NMNTSTD4221106	4221	St. Anne's College of Engineering and Technology	I DONT KNOW	Sr PUNITHA JILT K	Kamaleeshwaran V	Kamaleeshwaran V, Kaviyarasan V, Gopinath A, Roshanwillson V
155	Artificial Intelligence	How might we develop an AI or OCR solution to digitize and convert handwritten, old registered documents into a readable and accessible format in regional languages improving public access and readability of historical records?	NMNTSTD5105023	5105	Bharathidasan Engineering College	Alpha Achievers	VASANTHI R	Tharun Srinivasan	Tharun Srinivasan, Vallarasu, Jaya Surya, Jagadish Kumar
156	Artificial Intelligence	How might we develop an AI-powered energy management system that optimizes energy consumption in industrial and commercial facilities, reducing costs, improving efficiency, and minimizing environmental impact through real-time analytics and automation?	NMNTSTD5133001	5133	University College of Engineering ARNI	Energy Optimizers	Dr K SENTHIL KUMAR	Lokesh G	Lokesh G, Vallarasu S, Venkatesan R
157	Artificial Intelligence	How might we develop an integrated solution that provides real-time data to help visitors discover must-visit heritage sites in Tamil Nadu, offering voice-assisted, multilingual insights about the history and significance of these places? This system, powered by an advanced language model (LLM), can enhance the tourist experience by providing personalized, immersive information at iconic locations.	NMNTSTD51330045	5133	University College of Engineering ARNI	Arivu Thedal	Dr J SANTHANA KRISHNAN	Dhanalakshmi R	Dhanalakshmi R, Pavithra G , Amishaa S

ST.ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

NAAN MUDHALVAN NIRAL THIRUVIZHA -2.0

SMART ANIMAL DETECTION & CROP PROTECTION

PROBLEM STATEMENT

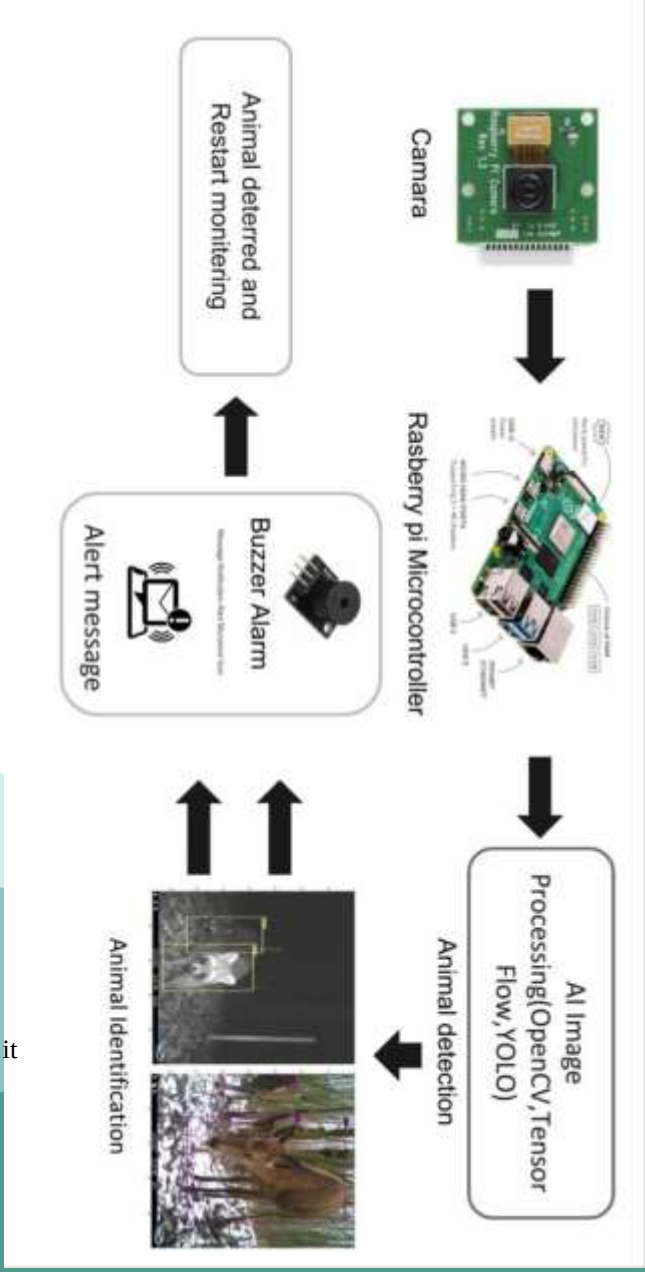
How can we develop a practical, cost-effective, a eco-friendly ai-driven ultrasound technology to detect and deter wild animals from entering agricultural fields, while studying the movement of animals from reserve forests to human habitation areas and implementing a warning system to alert nearby localities for effective crop protection and wildlife management.

MODULES

1. Image capture module: raspberry pi camera for continuous field surveillance.
2. Image processing module: OpenCV on raspberry pi for analyzing captured frames.
3. Detection module: ai algorithm to identify wild animals.
4. Alert module: buzzer to scare animals; GSM module to notify farmers.
5. Power supply module: battery or solar-powered system.
6. Field deployment module: poles or walls.

CONCLUSION

- The proposed system provides an intelligent, real-time solution to detect and deter wild animal intrusions in farmlands.
- It leverages affordable hardware and open-source software, making it accessible to small-scale farmers.



TAMILNADU SKILL DEVELOPMENT CORPORATION

Naan Mudhalvan Niral Thiruvizha

Review -1

1. **Name of the College:** St.Anne's College of Engineering & Technology

2. **College code:** 4221

3. **Theme**: Artificial Intelligence

4. **Problem statement:** How can we develop a practical, cost-effective, and eco-friendly AI-driven ultrasound technology to detect and deter wild animals from entering agricultural fields, while studying the movement of animals from reserve forests to human habitation areas and implementing a warning system to alert nearby localities for effective crop protection and wildlife management

5. **Faculty Guide Details:**

Guide Name: Sr.A.Punitha Jilt

Designation: Assistant Professor

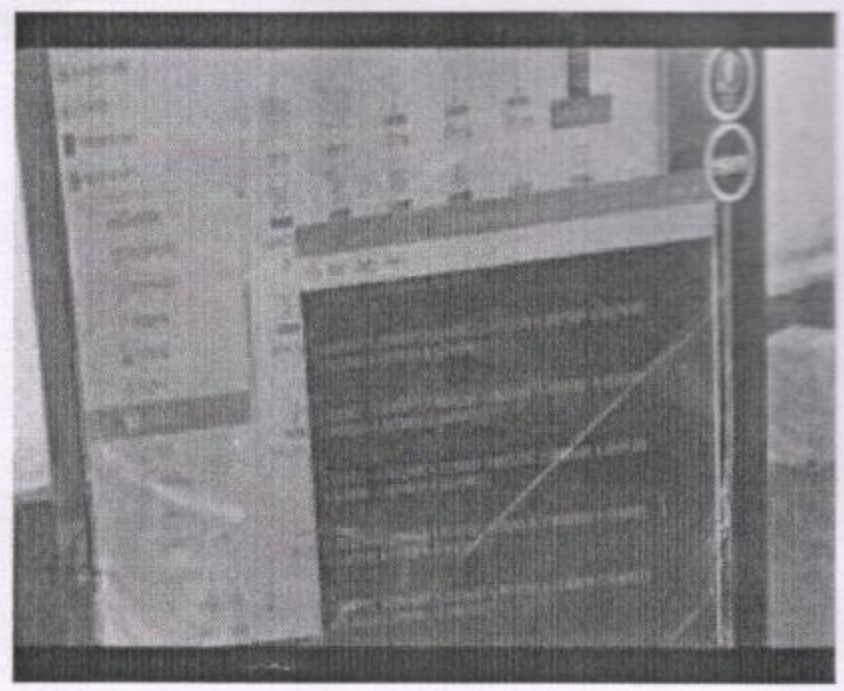
Mobile No: 9080160429

Email id: srjiltsat@gmail.com

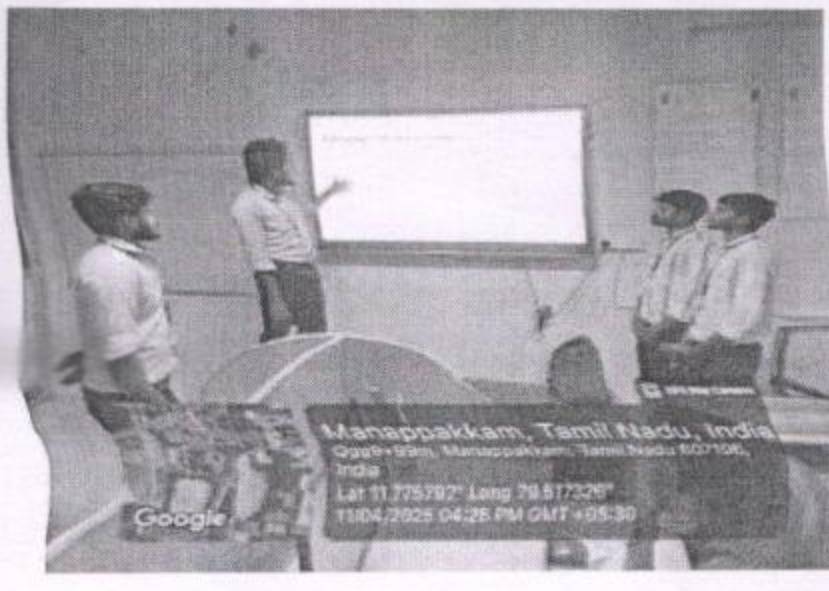
Team Leader Name	AU Reg.No	Year	Department	Mobile No
1.KAMALEESHWARAN.V	422121104022	IV	CSE	9043691254
Team members				
1. ROSHANWILLSON.V	422121104041	IV	CSE	8248767739
2. KAVIYARASAN.V	422121104027	IV	CSE	9976093582
3. GOPINATH.A	422121104015	IV	CSE	6374655405

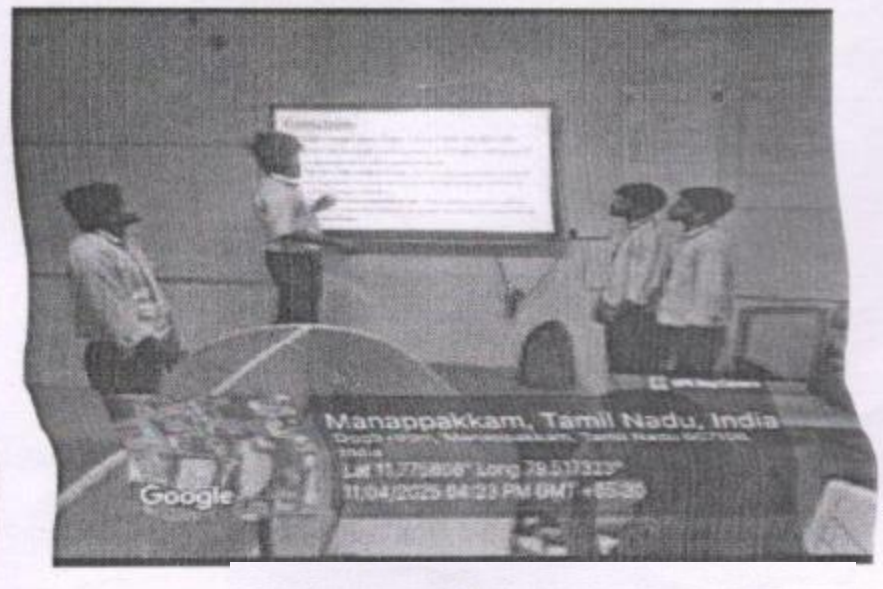
6. Attach photos of the prototype/App/Software:





7. Attach photos of the 1st review being conducted:





Signature of Principal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin. 607 110.

UNDERTAKING

1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.

2. The college will undertake the financial and other management responsibilities of the project also; college will be responsible in following the time lines.

3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.

4. I hereby declare that the details furnished above are true and correct.

Signature of Faculty Guide

Signature of Principal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin. 607 110.

TAMILNADU SKILL DEVELOPMENT CORPORATION

Naan Mudhalvan Niral Thiruvizha

Review - 2

1. **Name of the College:** St.Anne's College of Engineering & Technology

2. **College code:** 4221

3. **Theme**: Artificial Intelligence

4. **Problem statement:** How can we develop a practical, cost-effective, and eco-friendly AI-driven ultrasound technology to detect and deter wild animals from entering agricultural fields, while studying the movement of animals from reserve forests to human habitation areas and implementing a warning system to alert nearby localities for effective crop protection and wildlife management

5. **Faculty Guide Details:**

Guide Name: Sr.A.Punitha Jilt

Designation: Assistant Professor

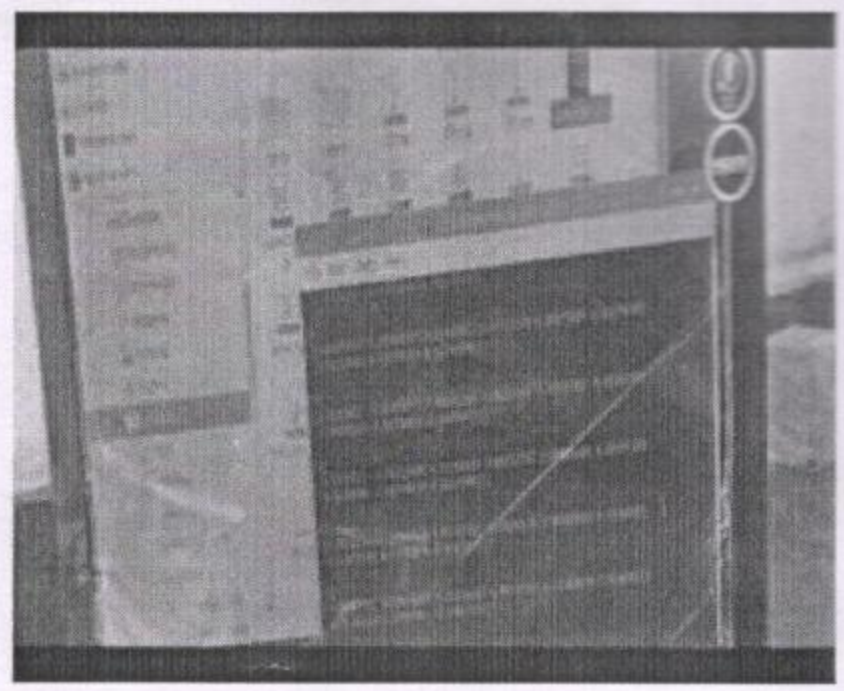
Mobile No: 9080160429

Email id: srjiltsat@gmail.com

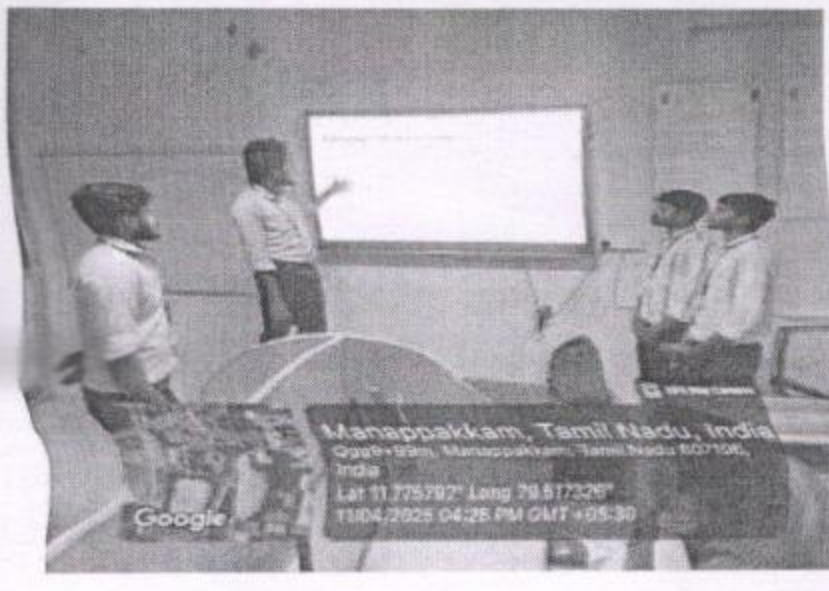
Team Leader Name	AU Reg.No	Year	Department	Mobile No
1.KAMALEESHWARAN.V	422121104022	IV	CSE	9043691254
Team members				
1. ROSHANWILLSON.V	422121104041	IV	CSE	8248767739
2. KAVIYARASAN.V	422121104027	IV	CSE	9976093582
3. GOPINATH.A	422121104015	IV	CSE	6374655405

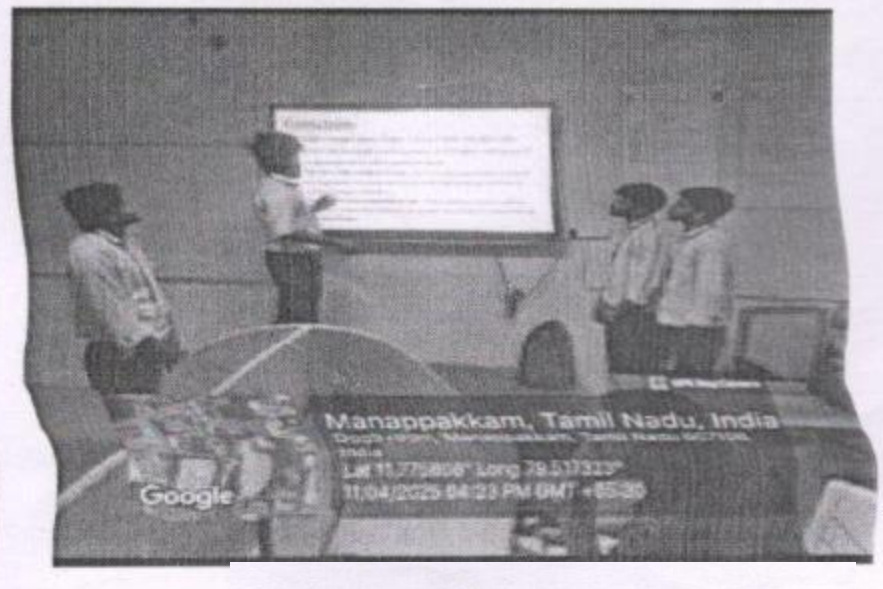
6. Attach photos of the prototype/App/Software:





7. Attach photos of the 1st review being conducted:





Signature of Principal

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Principal,
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ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin. 607 110.

UNDERTAKING

1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.

2. The college will undertake the financial and other management responsibilities of the project also; college will be responsible in following the time lines.

3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.

4. I hereby declare that the details furnished above are true and correct.

Signature of Faculty Guide

Signature of Principal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin. 607 110.

PRE-RECEIPT

Niral Thiruvizha ID : NMNTSTD4221106

College Name : St.Anne's college of engineering and technology

Project Title : Smart Animal Detection and Crop Protection

Faculty Guide : Sr.A.Punitha Jillt

Name of the students:

Sl.No.	Reg. No.	Name	Branch	Mobile No.
1	422121104041	V.ROSHAN WILLSON	CSE	8248767739
2	422121104022	V.KAMALEESHWARAN	CSE	9043691254
3	422121104015	A.GOPINATH	CSE	6374655405
4	422121104027	V.KAVIYARASAN	CSE	9976093582

Received a sum of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University, towards the financial assistance for the project details indicated above. Certified further, the same will be transferred to the above student concerned.

Account Holder Name : ST.ANNE'S COLLEGE OF ENGG & TECHNOLOGY

Account No. : 34916916294

Bank Name & Branch : State Bank of India , Pudupet

IFSC : SBIN0003782

Note: The bank account should be the official account of the college Head of the Institution, rather than an individual account. Enclose a copy of the first page of the bank passbook/cancelled cheque leaf for validation.

Name and Sign
of the Faculty Guide
(Sr.A.Punitha Jilt,
HOD/CSE)

Name and Sign
of the HoD
(Sr.A.Punitha Jilt,
HOD/CSE)

Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

Name and Sign
of the Principal with seal
(Dr.R.AROKIADASS
ME, PhD)

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 ...

College Seal

Place: Anguchettipalayam, Panruti
Date:

Bill Passed for the amount of Rs. 9000 /- (Rupees Nine Thousand Only)

AU – NM Co-Ordinator

BILL SUMMARY

Niral Thiruvizha ID: NMNTSTD4221106

College Name : St.Anne's college of engineering and technology

Project Title : Smart Animal Detection and Crop Protection

Certified that the following expenditures are made by us and the bills are admitted for the above project only. Bills are in order. NO other claims are made in these bills.

Sl.No.	Bill No.	Bill Date	Description	Amount
1	258	24.03.2025	Raspberry pi 3 + Camera	5550
2	258	24.03.2025	Buzzer	50
3	258	24.03.2025	GSM Module	1500
4	258	24.03.2025	HDMI to VGA Connector	400
5	365	13.04.2025	TYPE B to USB Adaptor	200
6	365	13.04.2025	TYPE C Charger	350
7	365	13.04.2025	GSM Power Cable & VGA Cable	600
8	365	13.04.2025	Connection wires & Wood Board	350
			TOTAL	9000

(Rupees Nine Thousand Only)

Team details

Sl.No.	Reg. No.	Student Name	Branch	Mobile No.	Sign.
1	422121104041	V.ROSHAN WILLSON	CSE	8248767739	
2	422121104022	V.KAMALEESHWARAN	CSE	9043691254	
3	422121104015	A.GOPINATH	CSE	6374655405	
4	422121104027	V.KAVIYARASAN	CSE	9976093582	
5	Name, Designation, Department of the Faculty Guide	Sr.A.Punitha Jillt ,Head of The Department ,CSE		9080160429	

Name and Sign of the HOD (Sr.A.Punitha Jilt, HOD/CSE)

Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti (T.k) Cuddalore (Dist.) Pin: 607 106

Name and Sign of the Finance Officer / Auditor / Accounts Officer with seal

SR. L. SAGAYA LILY,

Name and Sign of the Principal with seal (Dr.R.AROKIADASSME, PhD,

Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 106

Place: Anguchettypalayam, Panruti

Date:

College Seal

UTILISATION CERTIFICATE

Niral Thiruvizha ID: NMNTSTD4221106

College Name : St.Anne's college of engineering and technology

Project Title : Smart Animal Detection and Crop Protection

Certified that out of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University towards the financial assistance for the project details indicated above, an amount of Rs.9000 /- (Rupees Nine Thousand only) was utilized for the purpose for which it was sanctioned, leaving a balance of Rs. 1000 /- (Rupees One Thousand only).

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the necessary checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Team details

Sl.No.	Reg. No.	Student Name	Branch	Mobile No.	Sign.
1	422121104041	V.ROSHAN WILLSON	CSE	8248767739	
2	422121104022	V.KAMALEESHWARAN	CSE	9043691254	
3	422121104015	A.GOPINATH	CSE	6374655405	
4	422121104027	V.KAVIYARASAN	CSE	9976093582	
5	Name, Designation, Department of the Faculty Guide	Sr.A.Punitha Jillt ,Head of The Department ,CSE		9080160429	

Name and Sign
of the HOD
(Sr.A.Punitha Jilt,
Head of the Department)
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

Name and Sign
of the Finance Officer /
Auditor / Accounts
Officer with seal
SR. L. SAGAYA LILY,

Name and Sign
of the Principal with seal
(Dr.R.AROKIADASS ME PhD)
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology.
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

Place: Anguchettipalayam ,panruti
Date:

College Seal

STATEMENT OF ACCOUNT

STATE BANK OF INDIA
ACB PUDUPET
87-A MAIN ROAD
PUDUPET CUDDALORE DISTRICT, TAMILNADU
Pin Code : 607108

St. Anne's College of Engg & Technology
ANGUCHETTY PALAYAM
SIRUVATHUR POST
PANRUTI
Cuddalore
Pin Code : 607108

Branch Code : 3782
Branch Email : sbi.03782@sbi.co.in
Branch Phone : 242064

Date of Statement	: 13-05-2025
Time of Statement	: 16:28:32
Cleared Balance	: 7,09,536.02CR
Uncleared Amount	: 0.00
+MOD Bal	: 0.00
Limit	: 0.00
Monthly Avg Balance	: 0.00
Interest Rate	: 0.00 % p.a.
Drawing Power	: 0.00
Account Open Date	: 07-05-2015

CIF No	: 85770196093
Account No	: 34916916294
Product	: CA-REGULAR-PUB-OTH-ALL-INR
IFSC Code	: SBIN0003782
MICR Code	: 607002008
Currency	: INR
Account Status	: OPEN
Nominee Name	:
CKYC No	: Not Available
Email	: stannescet@gmail.com

Statement From : 01-04-2025 To 13-05-2025

Post Date	Value Date	Description	Cheque No/Reference	Debit	Credit	Balance
		BROUGHT FORWARD				12,00,351.02 CR
02-04-2025	02-04-2025	CASH DEPOSIT SELF AT 03782 ACB PUDUPET			2,76,000.00	14,76,351.02 CR
02-04-2025	02-04-2025	DEP TFR TDR CLOSURE 0043841461932 OF St. Anne's College of AT 03782 ACB PUDUPET			14,05,101.00	28,81,452.02 CR
02-04-2025	02-04-2025	DR THRU CHQ SBI 8275063 ST ANNES MARCH 2025 SALARY	022427	12,79,030.00		16,02,422.02 CR
04-04-2025	04-04-2025	DEP TFR UPI/CR/509427109728/Vanitha /IOBA/anandanand/UPI 0097737162096 AT 03782 ACB PUDUPET			15,000.00	16,17,422.02 CR
05-04-2025	05-04-2025	CASH DEPOSIT SELF AT 03782 ACB PUDUPET			3,07,400.00	19,24,822.02 CR
05-04-2025	05-04-2025	REMT THRU CHQ NEFT UTR NO: SBIN425095919200	022428	1,51,993.16		17,72,828.86 CR
07-04-2025	07-04-2025	CAS CASH CHEQUE self prawin	022429	50,000.00		17,22,828.86 CR

St. Anne's College of Engineering & Technology ★ PANRUTI ★

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. Sr. Punitha Jilt

from St. Anne's College of Engineering and Technology

has **participated** as **Faculty Guide** in the **Niral Thiruvizha 2.0 (Hackathon) Competition**

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. KAMALESWARAN V

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Nirai Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. ROSHANWILLSON.V

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Niral Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. KAVIYARASAN.V

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

Nirai Thiruvizha 2025

நான் முதல்வன்

நிரல் திருவிழா 2025

Certificate

OF PARTICIPATION

This is to certify that

Mr./Ms. GOPINATH. A

from St. Anne's College of Engineering and Technology

has **participated** in the

Niral Thiruvizha 2.0 (Hackathon) Competition

MANAGING DIRECTOR
Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY :

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
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Accredited by NAAC
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

PEER LED ACTIVITIES

SMART INDIA HACKATHON 2024

ST. ANNE'S
COLLEGE OF ENGINEERING AND TECHNOLOGY
(A unit of the Sisters of St. Anne, Trichy)
Accredited by NAAC, Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai
Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106



Date: 27/08/2024

To: Whom so it May Concern:

Sub: Smart India Hackathon 2024 – Appointment of College SPOC

This is to inform that the following Principal/ Dean/ official/ faculty member from our institute has been appointed as College Single Point of Contact (College SPOC) for Smart India Hackathon 2024.

Name of Official: Dr. S. Anita
Designation: Professor
Mobile no: 8668083982
Email id: sranitaa@stannescet.ac.in

We understand that the SPOC will be:

- Single Point of Contact to reach out to regarding any SIH2024 - related communication to the institute/ student teams from SIH organizers.
- SPOC will be responsible for nominating the top 30 teams - 25 Shortlisted and 05 Waitlist teams inclusive of both software and hardware.

St. Anne's College of Engineering & Technology
27 AUG 2024
PANRUTI

Sincerely,

R. Arokiadass 27.8.24

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

SMART INDIA HACKATHON (SIH) – 2024

INTERNAL HACKATHON

Evaluation Criteria	Description	Weightage (marks)
1. Problem Identification		**20**
- Clarity of Problem Statement	Is the problem clearly defined and well understood?	10
- Relevance	How relevant is the problem to current needs or challenges?	10
2. Solution Proposal		**30**
- Innovation	Is the proposed solution innovative and original?	15
- Feasibility	How feasible is the solution in terms of technical implementation, cost, and time?	15
3. Technical Implementation		**30**
- Technical Complexity	Does the solution demonstrate a good level of technical complexity and sophistication?	15
- Implementation Plan	Is there a clear plan for implementing the solution, including tools, technologies, and resources needed?	15
4. Presentation Quality		**20**
- Clarity and Structure	Is the presentation well-organized and clearly delivered?	10
- Engagement	How effectively does the team engage the audience and address questions?	5
- Visual Aids	Are the visual aids (slides, prototypes, etc.) clear and professional?	5

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Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106



Date: 18/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**.

Our college's AICTE Application No is 1-36229116166.

Team: MIRACLE WORKERS

	Name	Gender (M/F)	Email id	Mobile No.	Stream	Academic Year
Team Leader	GOPINATH V MBC	M	vgopi5796@gmail.com	9042223503	ECE	IV
Team Member	SENTHAMIZH NILA V SC	F	ammunila2023@gmail.com	9597425627	ECE	IV
Team Member	SRIHARI K SC	M	sriharikssriharik53@gmail.com	93633 87911	ECE	IV
Team Member	INBARAJ D SC	M	inbaraj8111063920@gmail.com	8111063920	ECE	IV
Team Member	SASIREKA M MBC	F	sasisasikee@gmail.com	7373586881	ECE	III
Team Member	SWEETY PORCIA V SC	F	sweetyvanathaiyan@gmail.com	8838948926	ECE	II

Sincerely,

20/9/24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., P.
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

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Date: 20/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in Smart India Hackathon 2024. Our college's AICTE Application No is 1-36229116166.

Team : < CORBON CRUSHERS>

	Name	Gender (M/F)	Email id	Mobile no.	Stream	Academic Year
Team Leader	DENIS S MBC	M	denissathiban@gmail.com	9361372966	EEE	IV
Team Member	GNANARAJ S BC	M	ganaraj03raina@gmail.com	9360721024	EEE	IV
Team Member	JEGATHESWARI A MBC	F	jegatheswari2003@gmail.com	6385511360	EEE	IV
Team Member	JANA M SC	M	janasam023@gmail.com	9080404831	EEE	IV
Team Member	SANTHOSH P MBC	M	santhosh7639109936@gmail.com	6382733140	EEE	IV
Team Member	ABINAYA P SC	F	ayanajith54@gmail.com	6383958296	EEE	III

Sincerely,

R. Arokiadass 20/9/24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., Ph.D.
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
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Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106

Date: 20/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in Smart India Hackathon 2024. Our college's AICTE Application No is 1-36229116166.

Team : < SOIL SQUAD>

	Name	Gender (M/F)	Email id	Mobile no.	Stream	Academic Year
Team Leader	ADHARAI V MBC	F	adhiraiv335@gmail.com	6374191171	EEE	IV
Team Member	ASRAF ALI A BC	M	hajimohammedmohammed18@gmail.com	6384788120	EEE	IV
Team Member	JAGANATHAN S MBC	M	mailmejagan14@gmail.com	8668150905	EEE	IV
Team Member	VINOTH M MBC	M	vvinothm231@gmail.com	8189936467	EEE	IV
Team Member	MICHEAL AASIC B MBC	M	aasic111aa1@gmail.com	9790593307	EEE	IV
Team Member	JENIFER DENCY I BC	F	jenidencym@gmail.com	6374092441	EEE	III

Sincerely,

20/9/24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
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ST. ANNE'S
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Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106

Date: 20/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in Smart India Hackathon 2024. Our college's AICTE Application No is 1-36229116166.

Team : < FUTURE FUSION >

	Name	Gender (M/F)	Email id	Mobile no.	Stream	Academic Year
Team Leader	MEGHARJUIN S BC	M	arjun2603.s@gmail.com	9361413318	EEE	IV
Team Member	UMAR BIN HUSSAIN M BC	M	umarbinhussain1995@gmail.com	8940340309	EEE	IV
Team Member	MOHAMED IRFAN M I BC	M	mohamedirfan1766@gmail.com	8270889529	EEE	IV
Team Member	PRAVEEN KUMAR R MBC	M	praveenapple16@gamil.com	6383918344	EEE	IV
Team Member	ABITHA A MBC	F	abiayyanar297@gmail.com	9342741915	EEE	IV
Team Member	PRAVEENA P SC	F	pravirenu8@gmail.com	8072020386	EEE	III

Sincerely,

20.9.24

Dr. R. Arokiadass

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

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Date: 20/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in Smart India Hackathon 2024. Our college's AICTE Application No is 1-36229116166.

Team : < RULE BRAKERS >

	Name	Gender (M/F)	Email id	Mobile no.	Stream	Academic Year
Team Leader	MOHANRAJ K MBC	M	mohanrajmohanraj1227@gmail.com	9786816096	EEE	IV
Team Member	UDHAYALAKSHMI T MBC	F	udhayathamiz@gmail.com	6385355650	EEE	IV
Team Member	HARIHARAN V SC	M	hariharan.v2303@gmail.com	6381646373	EEE	IV
Team Member	NIJANTH KUMAR D SC	M	nijanthkumar28@gmail.com	9344219728	EEE	IV
Team Member	PRAVEEN N SC	M	praveennpraveen0103@gmail.com	9043011426	EEE	IV
Team Member	HARISH S BC	M	hh5962997@gmail.com	7904442378	EEE	III

Sincerely,

20/9/24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
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Date: 18/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**.

Our college's AICTE Application No is 1-36229116166.

Team: CROPEYES

	Name	Gender (M/F)	Email id	Mobile No.	Stream	Academic Year
Team Leader	SANJAI S	M	sanjaisenthilkumar004@gmail.com	9629593206	ECE	IV
Team Member	DURAIMURUGAN A	M	duraiarjunan2002@gmail.com	8754699061	ECE	IV
Team Member	MOHANA P	F	p.mohana1432@gmail.com	9025435346	ECE	IV
Team Member	RAGUNATH A	M	nragu1965@gmail.com	6374504760	ECE	IV
Team Member	SUJITHA K	F	suji73693@gmail.com	8148778252	ECE	III
Team Member	KAMALINISHA.S.M	F	sujithkamali44@gmail.com	9489380318	ECE	II

Sincerely,

18/9/24

Dr. R. Arokiadass
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
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Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106

Date: 18/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**.

Our college's AICTE Application No is 1-36229116166.

Team: Achievers

	Name	Gender (M/F)	Email id	Mobile No.	Stream	Academic Year
Team Leader	VISWANATH N	M MBC	viswanagendran2002@gmail.com	9361131203	ECE	IV
Team Member	RAJAMOHAN P	M MBC	rajmohanjanaki31@gmail.com	8489204784	ECE	IV
Team Member	MANGALESHWAR U	M MBC	mangaleshmangalesh830@gmail.com	9123528559	ECE	IV
Team Member	VAISHALI S	F MBC	swethamano2006@gmail.com	7538815277	ECE	IV
Team Member	MAHALAKSHMI R	F MBC	rmaha7224@gmail.com	9025766048	ECE	III
Team Member	SIVARANJANI K	F SC	ranjanisivatech2023@gmail.com	8838726681	ECE	II

Sincerely,

18/9/24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
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Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106

Date: 18/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**. Our college's AICTE Application No is 1-36229116166.

Team: FOOD EPICUR

	Name	Gender (M/F)	Email id	Mobile No.	Stream	Academic Year
Team Leader	SHEIK MOHAMED S	M	sheikmohamed0046@gmail.com	7708182774	CSE	III
Team Member	MOHMAED ASHARAF Z	M	mdasharafias2004@gmail.com	6380233007	CSE	III
Team Member	SURIYA R	M	suriyaravi0710@gmail.com	9578724516	CSE	III
Team Member	LAKSHMI B	F	lakshmibalu2212@gmail.com	8248316689	CSE	III
Team Member	POOVIZHI K	F	popoovi6@gmail.com	9360470267	CSE	III
Team Member	CHARUMATHI R	F	mathicharu13128@gmail.com	7418452644	CSE	III

Sincerely,

18.9.24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology.
ANGUCHETTYPALAYAM,
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Date: 18/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**. Our college's AICTE Application No is 1-36229116166.

Team: BOTSAGE

	Name	Gender (M/F)	Email id	Mobile No.	Stream	Academic Year
Team Leader	VIJAYALAKSHMI S	F	viji03102004@gmail.com	9360732794	CSE	IV
Team Member	SUNIL KUMAR S	M	sunils66059@gmail.com	6383990952	CSE	IV
Team Member	MUHAMMADANAS S	M	mda23032004@gmail.com	8220643258	CSE	IV
Team Member	KANIHA M	F	kanihakaniha3@gmail.com	8825759087	CSE	IV
Team Member	ABINAYA M	F	abimm1902@gmail.com	7540062410	CSE	IV
Team Member	KARTHIKA A	F	akarthika1025@gmail.com	9600646917	CSE	IV

Sincerely,

18.9.24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology.
ANGUCHETTYPALAYAM,
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Date: 18/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**. Our college's AICTE Application No is 1-36229116166.

Team: QUANTUM CODE BRAKERS

	Name	Gender (M/F)	Email id	Mobile No.	Stream	Academic Year
Team Leader	ABDUL WAHAB A	M	aw07102006@gmail.com	7604819130	CSE	II
Team Member	SANTHOSHKUMAR M	M	santhoshmass252@gmail.com	8807217210	CSE (AIML)	II
Team Member	MUKESH M	M	mukeshmuthu63@gmail.com	6369871765	CSE	II
Team Member	GIRIDHARAN R	M	alonedharan54@gmail.com	6369566698	CSE	II
Team Member	PRATHAP M	M	thejat499@gmail.com	7604974042	CSE	II
Team Member	LOGESHWARI S	F	srinivasan9362@gmail.com	9597130407	CSE	II

Sincerely,

18.9.24

Dr. R. Arokiadass
Dr.R.AROKIADASS, M.E., Ph.D.,
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Anguchettypalayam, Panruti - Taluk, Cuddalore District - 607106



Date: 18/09/2024

Sub: Smart India Hackathon 2024 – Nomination

I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**. Our college's AICTE Application No is 1-36229116166.

Team: PROTECTED VOTES TEAM

	Name	Gender (M/F)	Email id	Mobile No.	Stream	Academic Year
Team Leader	VIDHYA.K	F	vidkvino@gmail.com	7639607954	CSE	IV
Team Member	SUSHMITHA.A	F	asushmitha63@gmail.com	9150783912	CSE	IV
Team Member	ASHIKA.S	F	monicasathish651@gmail.com	8825859585	CSE	IV
Team Member	RAJKUMAR K	M	kumar2004rajkumar@gmail.com	7904163396	CSE	IV
Team Member	VASANTHAKUMAR V	M	vasanthakumarv2004@gmail.com	9840134957	CSE	IV
Team Member	JEYORGIS ALISTON B	M	aliston.j24@gmail.com	8220392373	CSE	IV

Sincerely,

18.9.24

Dr. R. Arokiadass

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Date: 18/09/2024

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I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**. Our college's AICTE Application No is 1-36229116166.

Team: INNOVATION WAREHOUSE

	Name	Gender (M/F)	Email id	Mobile No.	Stream	Academic Year
Team Leader	ISHWARYA M	F	ishwaryarajeswari1@gmail.com	9342487651	CSE	IV
Team Member	SARGUNADEVI C	F	sanasarguna315@gmail.com	8610705564	CSE	IV
Team Member	AGNES MARIA M	F	agnesmaria.528@gmail.com	9791622145	CSE	IV
Team Member	PIOSHALBI.A	F	pioarul0912@gmail.com	8870449029	CSE	IV
Team Member	SATHISHKUMAR.R	M	rsathishkumar621@gmail.com	6381857388	CSE	IV
Team Member	ROSHAN WILLSON V	M	roshanwillson@gmail.com	8248767739	CSE	IV

Sincerely,

18.9.24

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Date: 20/09/2024

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Team: AKAT SUKI

	Name	Gender (M/F)	Emailid	MobileNo.	Stream	Academic Year
Team Leader	MANIBARATHI. P	M	manibarathi995253@gmail.com	9677535946	MECH	III
Team Member	ARUL.T	M	aarul26051@gmail.com	8015295226	MECH	III
Team Member	MOHAMMEDISMAIL.S	M	ajmalsherif2000@gmail.com	7339683596	MECH	III
Team Member	SARANRAJ.S	M	saranuchiha09@gmail.com	6369550885	MECH	III
Team Member	IYYAPPAN.R	M	jpro0395@gmail.com	6374267391	MECH	III
Team Member	TAMILSELVAN.D	M	vinothvikram5594@gmail.com	9360194180	MECH	III

Sincerely,

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Date: 20/09/2024

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Team: MECH BOT

	Name	Gender (M/F)	Emailid	MobileNo.	Stream	Academic Year
Team Leader	PREM KUMAR.G	M	gokulraj15951@gmail.com	6374656104	MECH	IV
Team Member	MELWIN.R	M	melwinraja1619@gmail.com	7395881619	MECH	IV
Team Member	AHAMED ASHIF.S	M	ahamedashif543@gmail.com	9524743759	MECH	IV
Team Member	KATHIRAVAN.M	M	kathiravan.16dme@gmail.com	6369967207	MECH	IV
Team Member	KAVIARASAN. K	M	kavikaviarasan081@gmail.com	9629485163	MECH	IV
Team Member	BALA. P	M	balapbala17@gmail.com	7904813219	MECH	III

Sincerely,

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Date: 20/09/2024

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Team: MECH MARVELS

	Name	Gender (M/F)	Emailid	MobileNo.	Stream	Academic Year
Team Leader	DESIGAN R	M	ddesigan66@gmail.com	9150541865	MECH	IV
Team Member	ADHAVAN .R	M	radhavan07@gmail.com	8838175200	MECH	IV
Team Member	IGNO CROSSLY M	M	mignocrossly554@gmail.com	9363274669	MECH	IV
Team Member	AGAZHIAN M	M	aagazhiyan@gmail.com	9626407609	MECH	IV
Team Member	NAGALINGAM K	M	nagalingamk2004@gmail.com	9843877714	MECH	IV
Team Member	KABILAN.R	M	kabilan827050@gmail.com	8270509648	MECH	III

Sincerely,

20/9/24

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Date: 20/09/2024

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Team: TECH CONQUEROS

	Name	Gender (M/F)	Emailid	MobileNo.	Stream	Academic Year
Team Leader	VELPANDIYAN D	M	Velpandiyan2003@gmail.com	6374693715	MECH	IV
Team Member	VISHWA R	M	vishwarajalingam@gmail.com	9659580804	MECH	IV
Team Member	BHARATH P	M	bharath200311@gmail.com	9597016158	MECH	IV
Team Member	VISHNURAJ T	M	sr1546524@gmail.com	8220836341	MECH	IV
Team Member	KAVIPRASATH M	M	kavidhoni388@gmail.com	6383065401	MECH	IV
Team Member	DARVIN .C	M	devildarvidevildarvi@gmail.com	9597475246	MECH	III

Sincerely,

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Date: 20/09/2024

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Team: MECH ELITE

	Name	Gender (M/F)	Emailid	MobileNo.	Stream	Academic Year
Team Leader	MUTHAZHAGAN N	M	muthunarayanan08@gmail.com	8667863470	MECH	II
Team Member	VIGNESH S	M	vicky2592004@gmail.com	8111051684	MECH	II
Team Member	SARAVANAN M	M	saravananmuthuvel2005@gmail.com	7812876169	MECH	II
Team Member	ARAVIND A	M	aravindarumugam110@gmail.com	6384113971	MECH	II
Team Member	AJANTHAN S	M	ajanthansivakumar58@gmail.com	6374267391	MECH	II
Team Member	ADHIMANI A	M	adhimani651@gmail.com	6385547523	MECH	II

Sincerely,

20/9/24

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Date: 18/09/2024

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I am pleased to nominate the team below from our college to participate in the **Smart India Hackathon 2024**.

Our college's AICTE Application No is 1-36229116166.

Team: CROPEYES

	Name	Gender (M/F)	Email id	Mobile No.	Stream	Academic Year
Team Leader	SANJAI S	M	sanjaisenthilkumar004@gmail.com	9629593206	ECE	IV
Team Member	DURAIMURUGAN A	M	duraiarjunan2002@gmail.com	8754699061	ECE	IV
Team Member	MOHANA P	F	p.mohana1432@gmail.com	9025435346	ECE	IV
Team Member	RAGUNATH A	M	nragu1965@gmail.com	6374504760	ECE	IV
Team Member	SUJITHA K	F	suji73693@gmail.com	8148778252	ECE	III
Team Member	KAMALINISHA.S.M	F	sujithkamali44@gmail.com	9489380318	ECE	II

Sincerely,

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Dr. R. Arokiadass,

CSE/ROUND

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SMART INDIA HACKATHON (SIH) – 2024

INTERNAL HACKATHON (Evaluation Sheet)

S.No.	PS NUMBER	TEAM MEMBERS	Problem Identification (20)		Solution Proposal (30)		Technical Implementation (30)		Presentation Quality (20)			Total Score
			Clarity of Problem Statement	Relevance	Innovation	Feasibility	Technical Complexity	Implementation Plan	Clarity and Structure	Engagement	Visual Aids	
			10	10	15	15	15	15	10	5	5	100
1.	1644	Sathiskumaar.R Vasanthakumaar Chandrakumaar Jerisha.L Jeeva.A Nathiya.D	7	4	6	6	6	4	4	4	3	44
2.	1625	Ishwarya.M Agneshwara.M Pooshalbi.A Thamaraiselvan Sargunadevi.C	8	6	7	7	7	5	6	4	4	54
3.	1615	Kanika.M Pavithra.B Suvatha.D.N Vishnupriya.V Geetha.R Abilash.I	8	8	7	7	7	6	6	3	3	55

PS: PROBLEM STATEMENT

Jury Member

HOD

SIH SPOC

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
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19/9/24

Principal
Dr.R.AROKIADASS, M.E., Ph.D.,
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ANGUCHETTYPALAYAM

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SMART INDIA HACKATHON (SIH) – 2024

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			Clarity of Problem Statement	Relevance	Innovation	Feasibility	Technical Complexity	Implementation Plan	Clarity and Structure	Engagement	Visual Aids	
			10	10	15	15	15	15	10	5	5	100
4.	1540	Abinaya. M Kamaldeen R. Sarmesh. S Kaviyarasan. V Arumpandi. R Karthika. A	7	7	8	6	7	7	8	4	3	57
5	1604	Vijiyalakshmi S Sunilkumar. S Shanmugapriya Ragavinothini Rabika. Mohamed Anas	8	8	10	8	8	7	8	4	4	65
6.	1596	Logitkkumar. A Ashok Nameerkumar Sujan. Jagadeesh. V Mohamed Ali. MA Kaviyapriya. S	8	6	6	6	7	7.	6	4	4	54

PS: PROBLEM STATEMENT

Jury Member

HoD

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti (TK)

Principal

Dr. R. ABDULKADER, M.E., Ph.D.,
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			Clarity of Problem Statement	Relevance	Innovation	Feasibility	Technical Complexity	Implementation Plan	Clarity and Structure	Engagement	Visual Aids	
			10	10	15	15	15	15	10	5	5	100
7.	1645	Kaviya.S Balamurugan.R Kamaleshwaran.V Bhaktasri.S Vinoth.V Jeyaraja Allen.R	8	8	7	7	10	08	8	4	3	63
(8)	1589	Vidhya.K Udhayakumar.U Sushmitha.A Ashika.S Gopinath Asath.A	9	9	8	8	12	08	9	4	4	71
9.	1607	Roshan Wilson.V Rajkumar.K Ramkumar.M Susi.J Vasanth.F Jayasri.B.	8	8	8	6	10	08	8	4	3	61

PS: PROBLEM STATEMENT

Jury Member

HoD

SPOC

Head of the Department
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			Clarity of Problem Statement	Relevance	Innovation	Feasibility	Technical Complexity	Implementation Plan	Clarity and Structure	Engagement	Visual Aids	
			10	10	15	15	15	15	10	5	5	100
10	1600	Sheik Mohamed S Mohamed Ashraf Z Suriya. R Chammathi R Poovizhi. K Lakshmi. B	10	07	10	10	10	10	07	5	05	74
11.		Charumathi. R Poovizhi K Lakshmi. B Sheik Mohamed S Mohamed Ashraf Z Suriya. R	05	05	08	10	10	10	05	05	05	63
12.	SIH 1608	Abdul Wahab. A Santhosh kumar. M Mukesh. M Logeshwari. S Gnanadheepan R.	10	07	10	10	05	10	05	05	05	67

PS: PROBLEM STATEMENT

Jury Member

HOD

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SMART INDIA HACKATHON (SIH) – 2024

INTERNAL HACKATHON (Evaluation Sheet)

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			Clarity of Problem Statement	Relevance	Innovation	Feasibility	Technical Complexity	Implementation Plan	Clarity and Structure	Engagement	Visual Aids	
			10	10	15	15	15	15	10	5	5	100
1.	SIH 1545	1. G. PREM KUMAR 2. R. MELWIN 3. S. AHAMED ASHIF	10	10	10	15	5	10	10	5	5	75
2.	SIH 1573	1. R. DESIGAN 2. M. IGNO CROSSY 3. R. ADHAVAN	10	10	10	5	15	10	10	5	5	80
3.	SIH 1535	1. V. AJAY 2. M. SATHIYA BALAN 3. K. GUNAL 4. HARI HARAN	5	5	10	10	10	5	5	2	3	55
4.	SIH 1576	1. N. MUTHAZHAGAN 2. A. ADHIMANI 3. A. AJANTHAN 4. V. ARAVINDHAN	10	10	15	15	5	10	5	5	5	90

5.	SIH 1532	1. S. AKASH 2. HARI KRISHNA KUMAR 3. V. CHANDRU 4. A. ABISHEK	5	5	10	10	10	0	5	2	3	50
6.	SIH 1535	1. S. PANJAMOORTHY 2. T. VEERAPANDI 3. V. TONY FICELSYNTHIA 4. A. RAJESH 5. T. DHIVAKAR	5	5	0	10	5	5	5	2	3	40
7.	SIH 1575	1. P. MANI BARATHI 2. T. ARUL 3. MOH. ISMAIL 4. S. SARAN RAJ	10	10	10	0	15	5	10	5	5	70
8.	SIH 1572	1. D. VELPANDIYAN 2. R. VISHWA 3. P. BHARATH	5	5	10	10	15	4	10	2	3	64

PS: PROBLEM STATEMENT

1.

2. R. Sasi

Jury Member

1. Dr. D. OMMURUGADHASSAN

2. Dr. R. SASIKUMAR

K. Shanmugam 18/9/24

HoD

SIH SPOC 19/9/2024

Head of the Department
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Principal 19.9.24

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			Clarity of Problem Statement	Relevance	Innovation	Feasibility	Technical Complexity	Implementation Plan	Clarity and Structure	Engagement	Visual Aids	
			10	10	15	15	15	15	10	5	5	100
1	SIH 1536	ADHIRAI V ASRAF ALI A JAGANATHAN S VINOTH M MICHEAL AASIC B JENIFER DENCY I	10	10	12	12	10	10	10	0	2	76
2	SIH1 1583	MOHANRAJ K UDHAYALAKSHMI T HARIHARAN V NIJANTH KUMAR D PRAVEEN N HARISH. S	10	10	8	8	8	8	10	0	0	62

S.No.	PS NUMBER	TEAM MEMBERS	Problem Identification (20)		Solution Proposal (30)		Technical Implementation (20)		Presentation Quality (20)			Total Score
			Clarity of Problem Statement	Relevance	Innovation	Feasibility	Technical Complexity	Implementation Plan	Clarity and Structure	Engagement	Visual Aids	
			10	10	15	15	15	15	10	5	5	100
3	SIH 1542	MEGHARJUN S UMAR BIN HUSSAIN M MOHAMED IRFAN M I ABITHA A PRAVEEN KUMAR R	10	10	13	12	11	15	10	5	5	91
4	SIH 1576	DENIS S GNANARAJ S JEGATHESWARI A JANA.M SANTHOSH P ABINAYA. P	8	8	8	8	8	8	8	0	0	56
5	SIH 1554	PREM S PREMKUMAR S VISHNUCHANDIRAN T SURESHKUMAR S	4	3	5	5	3	4	0	0	0	24
6	SIH 1524	SRIDHAR B MANIVASAGAN M ELUMALAI G ABINAYA. S SHIBAN. K	5	5	4	4	5	5	2	0	0	30

S.No.	PS NUMBER	TEAM MEMBERS	Problem Identification (20)		Solution Proposal (30)		Technical Implementation (20)		Presentation Quality (20)			Total Score
			Clarity of Problem Statement	Relevance	Innovation	Feasibility	Technical Complexity	Implementation Plan	Clarity and Structure	Engagement	Visual Aids	
			10	10	15	15	15	15	10	5	5	100
7	SIH 1575	SOWMIYA S SUBASH B SARANRAJ S PRATHISH. K SEETHAPATHI M PRAVEENA. P	5	5	5	4	4	5	0	0	0	28
8	SIH 1545	GOKULA KRISHNAN. R SARAVANA VELU. B VASANTHAKRISHNAN. V	5	5	3	3	2	0	0	0	0	18
9	SIH 1582	ANTONY JOHNSON. M PRAVEEN RAJ. T SANJAY. N	8	8	5	5	0	10	0	0	0	36

PS: PROBLEM STATEMENT

18/9/24

Jury Member

J. RAMESH
A.P/EEE

18/9/24

HoD

19/9/24

SIH SPOC

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

19.9.24

Principal

Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k)
Cuddalore-(Dist), Pin: 607 110.

REPORT ON INTERNAL SMART INDIA HACKATHON 2024

ABOUT THE EVENT:

Smart India Hackathon (SIH) is a premier nationwide initiative designed to engage students in solving some of the most pressing challenges faced in everyday life. Launched to foster a culture of innovation and practical problem-solving, SIH provides a dynamic platform for students to develop and showcase their creative solutions to real-world problems. The hackathon aims to bridge the gap between academic knowledge and practical application by encouraging participants to think critically and innovatively.

THEMES OF SIH 2024:

1. Agriculture, Food Tech & Rural Development
2. Blockchain & Cybersecurity
3. Clean & Green Technology
4. Fitness & Sports
5. Heritage & Culture
6. MedTech/BioTech./ HealthTech
7. Miscellaneous
8. Renewable/Sustainable Energy
9. Robotics and Drones
10. Smart Automation
11. Smart Vehicles
12. Travel & Tourism
13. Transportation & Logistics

14. Disaster Management

15. Smart Education

16. Toys & Games

17. Space Technology

18. Smart Resource Conservation

The St. Anne's College of Engineering and Technology (SANCET) Smart India Hackathon (Internal Hackathon) 2024 was held on September 19th, 2024 at the Research and Development Cell. The event was a day of innovation, creativity, and excitement. The event was open to all students, and a total of 37 teams participated; each with six members consisting of at least one female member.

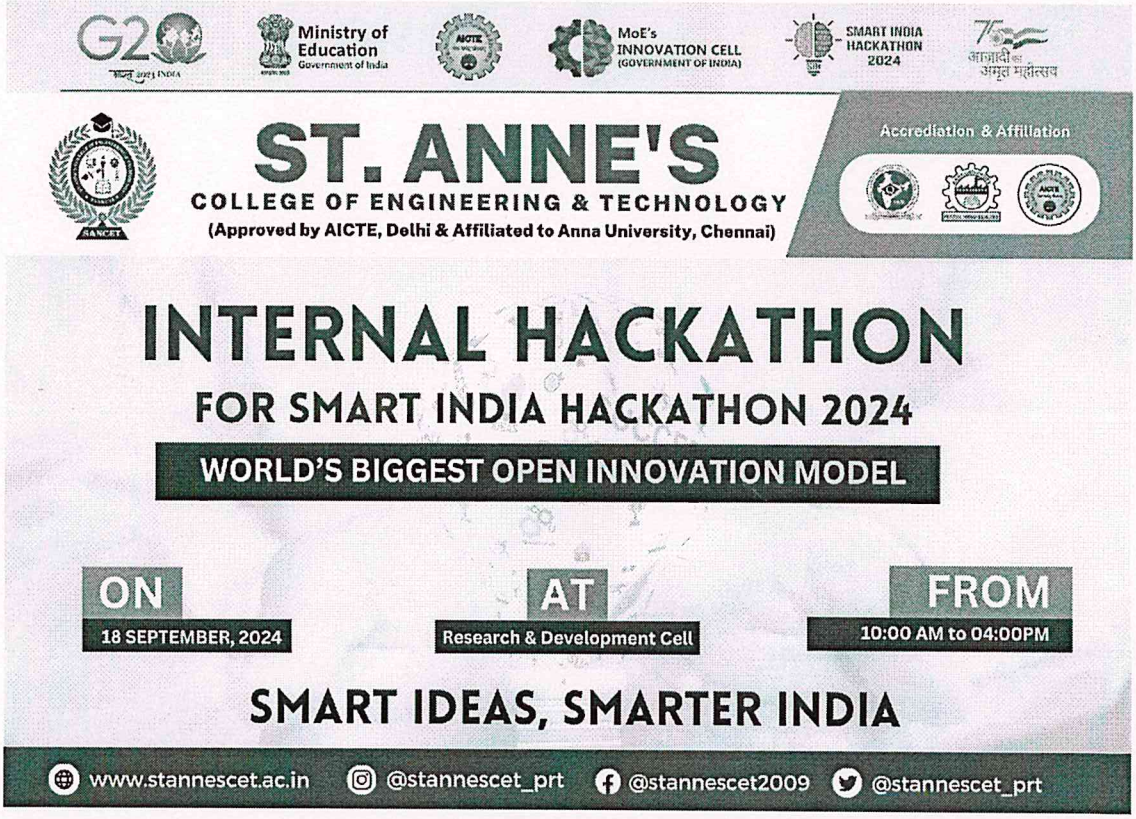
The SANCET SIH 2024 was organized with the following objectives:

- To enlighten the students with the challenges of Software and Hardware Edition.
- To scrutinize the solutions provided by team members for different problem statements listed by multiple organizations and Ministries of India.
- To help students understand the problem from different perspectives and to come up with a proper solution.
- To prepare the student teams for the national-level Smart India Hackathon 2024.

The hackathon was a great success. The students were enthusiastic and creative, and they came up with some innovative solutions to the problem statements. The judges were impressed with the solutions' quality and were confident that the students would be successful in the national-level hackathon.

The SANCET SIH 2024 was a valuable learning experience for the students. It helped them to develop their problem-solving skills, to work collaboratively, and to think creatively. The event also helped to foster a culture of innovation and entrepreneurship among the students.

POSTER

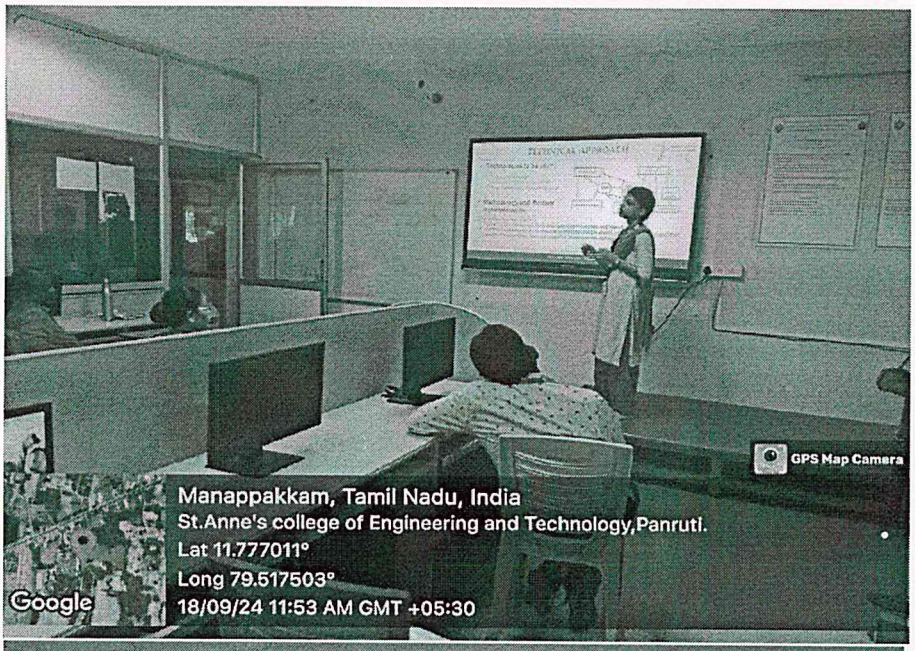


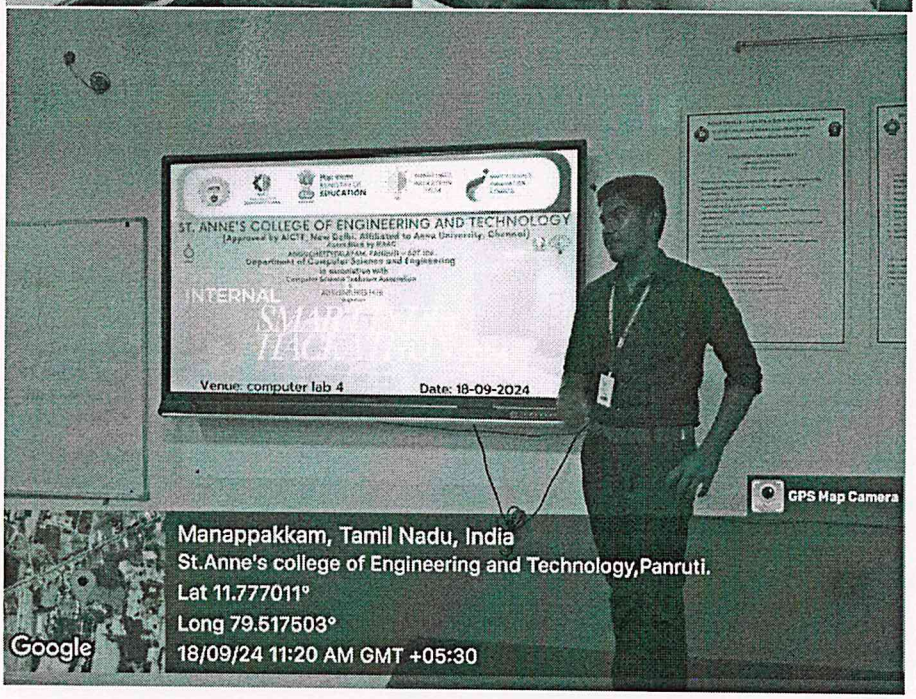
PROBLEM STATEMENTS PRESENTED:

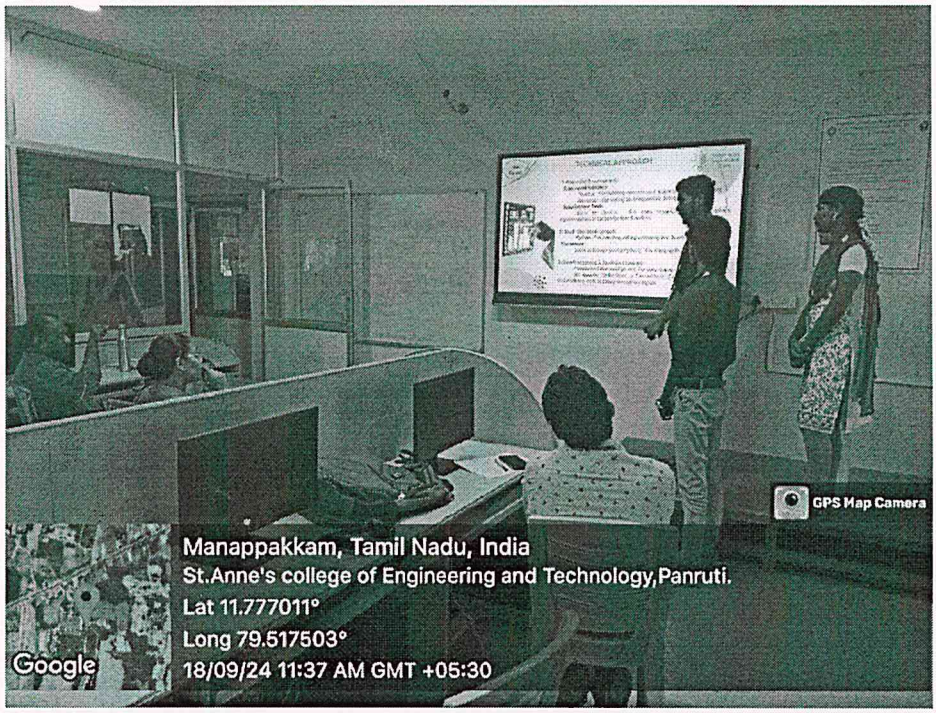
S. No.	Problem Statement ID	Theme Name	Category
1	SIH1644	Renewable / Sustainable Energy (1)	Software
2	SIH1625	Smart Automation	Software
3	SIH1615	Smart Education	Software
4	SIH1540	Smart Automation	Hardware
5	SIH1604	Smart Automation	Software
6	SIH1596	Agriculture, Food Tech. & Rural Development	Software
7	SIH1645	Smart Automation	Software
8	SIH1589	Blockchain & Cybersecurity	Software
9	SIH1607	Smart Automation	Software
10	SIH1600	Smart Automation	Software
11	SIH1557	Smart Automation	Software
12	SIH1608	Smart Education	Software
13	SIH1545	Renewable / Sustainable Energy -1	Hardware
14	SIH1573	Renewable / Sustainable Energy -3	Hardware
15	SIH1535	Smart Vehicles	Hardware
16	SIH1576	Clean & Green Technology	Hardware
17	SIH1532	Clean & Green Technology	Hardware
18	SIH1535	Smart Vehicles	Hardware
19	SIH1575	Clean & Green Technology	Hardware
20	SIH1572	Renewable / Sustainable Energy -4	Hardware
21	SIH1536	Agriculture, FoodTech & Rural Development	Hardware
22	SIH1583	Miscellaneous	Hardware
23	SIH1542	Space Technology	Hardware
24	SIH1576	Clean & Green Technology	Hardware
25	SIH1554	Agriculture, FoodTech & Rural Development	Hardware
26	SIH1524	Smart Resource Conservation	Hardware
27	SIH1575	Clean & Green Technology	Hardware

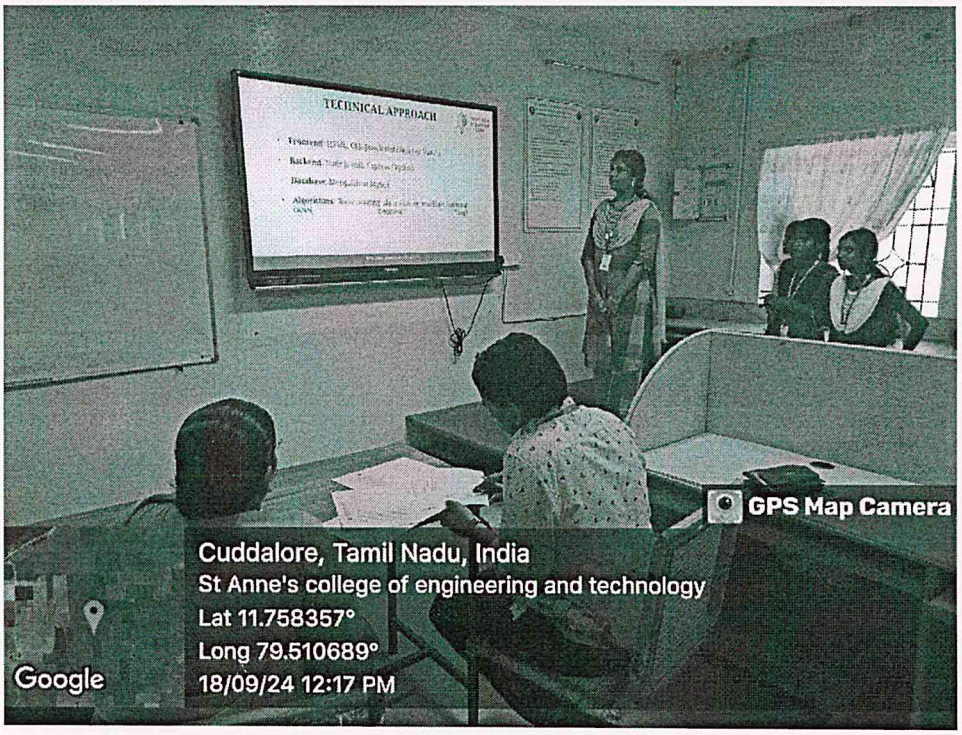
28	SIH1545	Renewable / Sustainable Energy	Hardware
29	SIH1582	Miscellaneous	Hardware
30	SIH1639	Agriculture, FoodTech & Rural Development	Software
31	SIH1545	Renewable / Sustainable Energy	Hardware
32	SIH1536	Agriculture, FoodTech & Rural Development	Hardware
33	SIH1638	Agriculture, FoodTech & Rural Development	Software
34	SIH1554	Agriculture, FoodTech & Rural Development	Hardware
35	SIH1536	Agriculture, FoodTech & Rural Development	Hardware
36	SIH1537	MedTech / BioTech / HealthTech	Hardware
37	SIH1530	Renewable / Sustainable Energy	Hardware

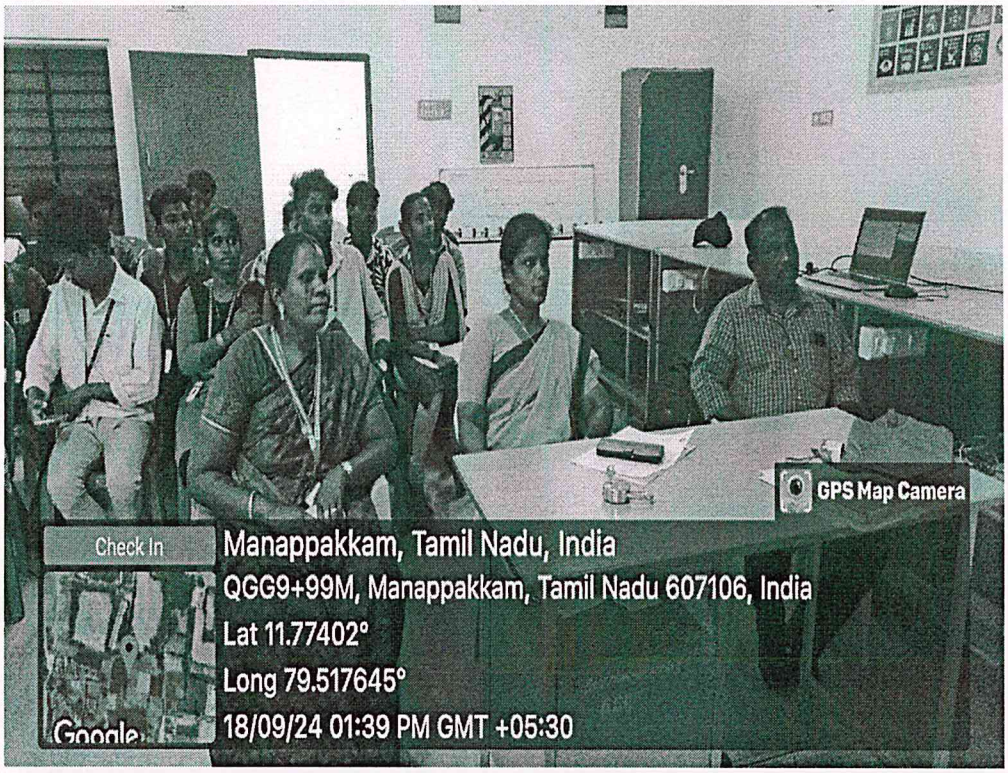
EVENT PHOTOS

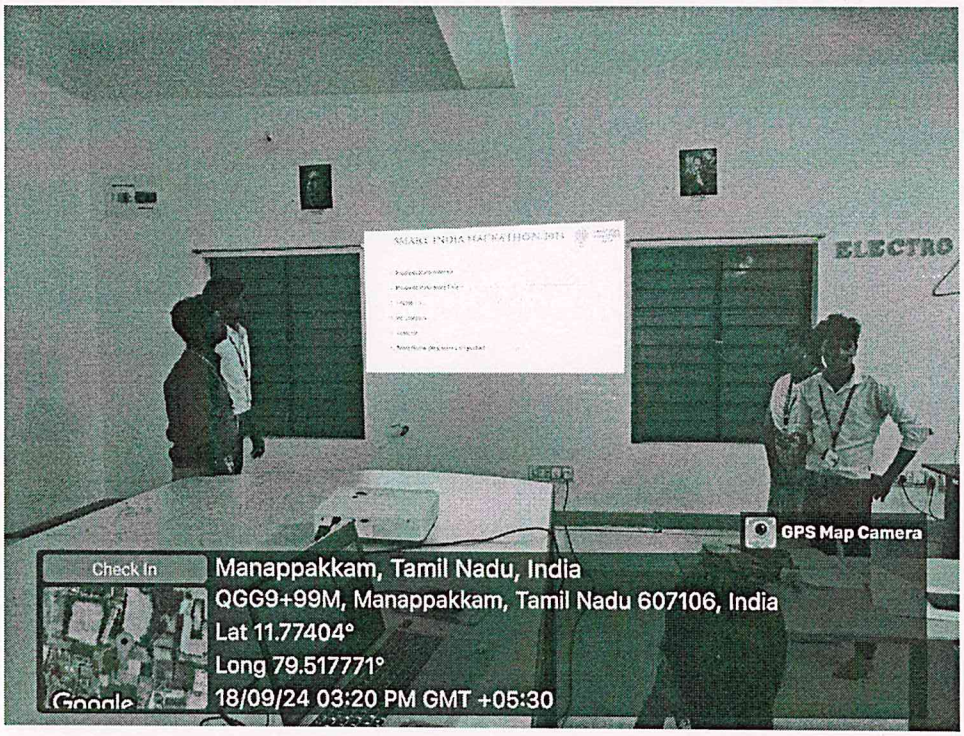


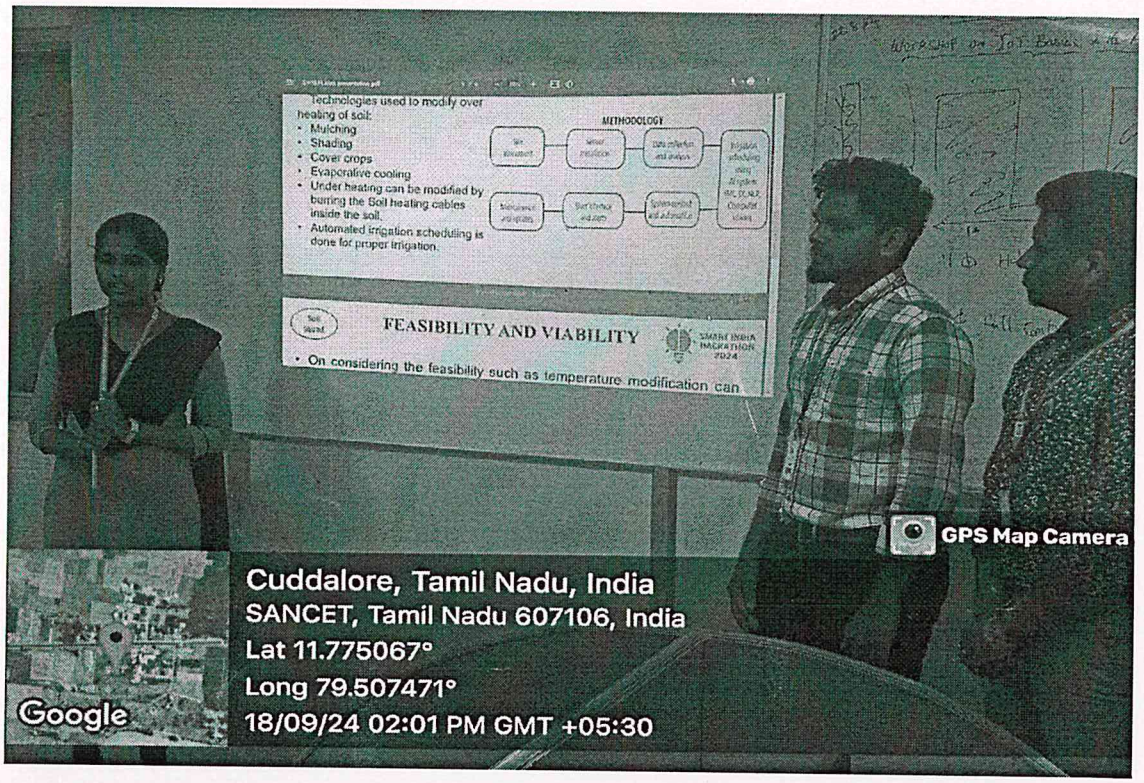


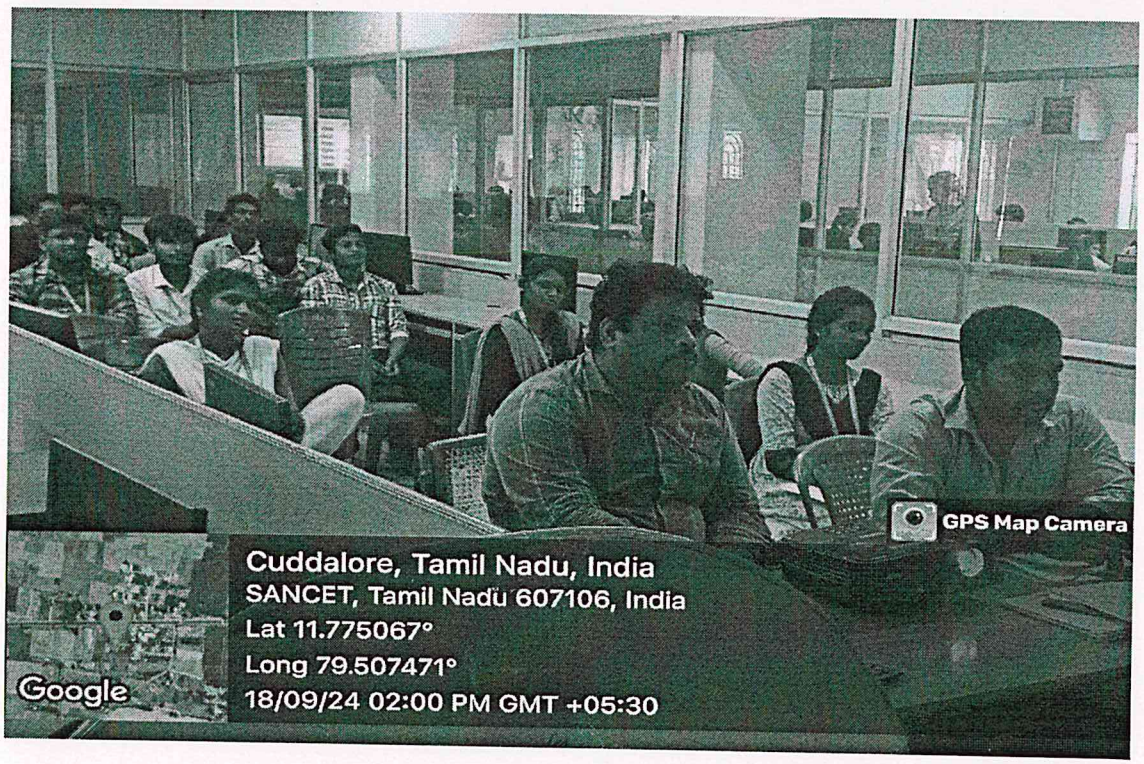

GPS Map Camera
Manappakkam, Tamil Nadu, India
St.Anne's college of Engineering and Technology,Panruti.
Lat 11.777011°
Long 79.517503°
18/09/24 11:37 AM GMT +05:30
Google

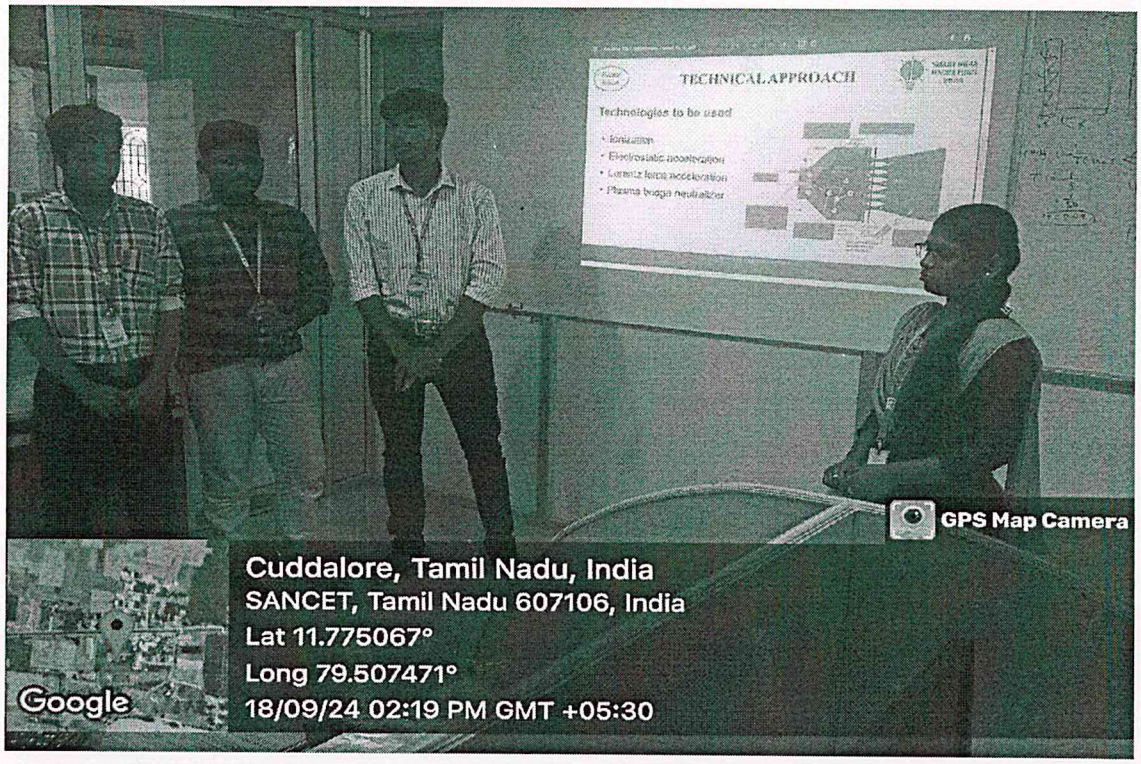

TECHNICAL APPROACH
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Cuddalore, Tamil Nadu, India
St Anne's college of engineering and technology
Lat 11.758357°
Long 79.510689°
18/09/24 12:17 PM
Google

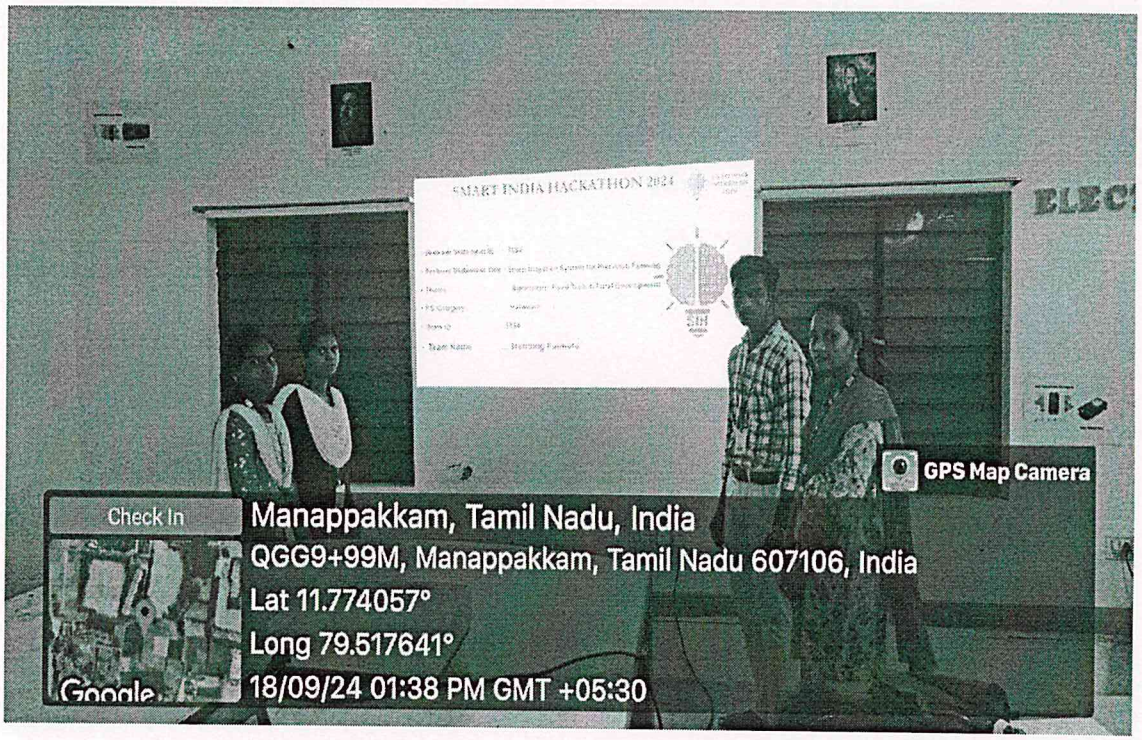

GPS Map Camera
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QGG9+99M, Manappakkam, Tamil Nadu 607106, India
Lat 11.77402°
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Google

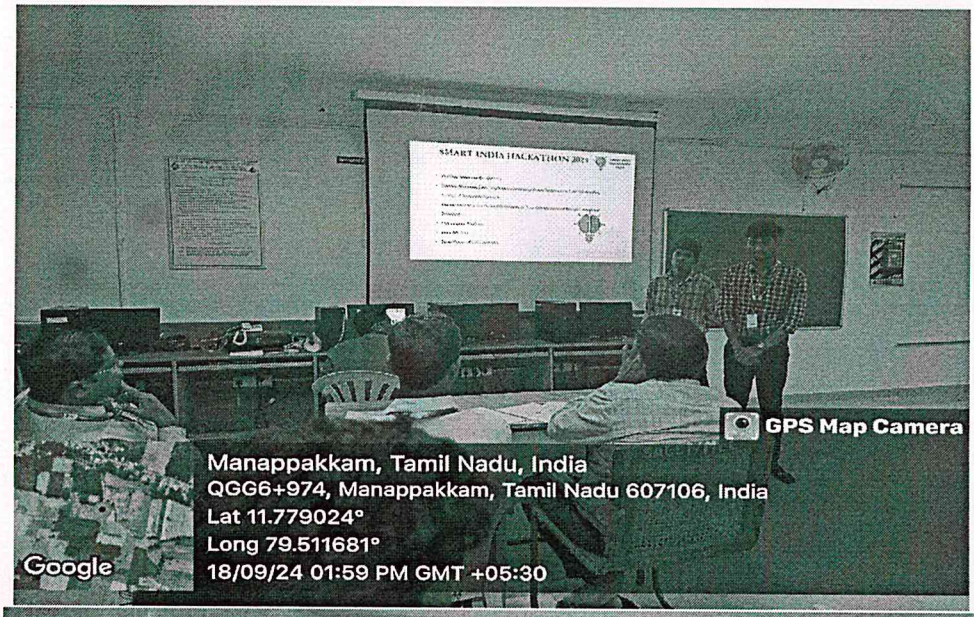

ELECTRO
GPS Map Camera
Check In
Manappakkam, Tamil Nadu, India
QGG9+99M, Manappakkam, Tamil Nadu 607106, India
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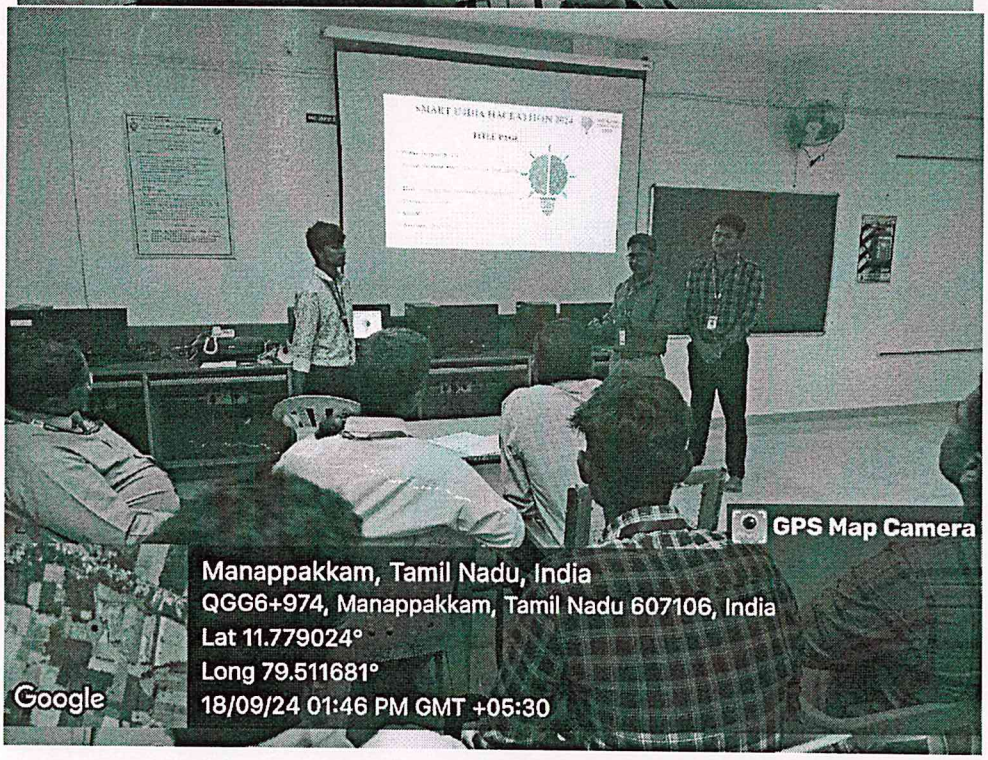

Technologies used to modify over heating of soil:
Mulching
Shading
Cover crops
Evaporative cooling
Under heating can be modified by burring the Soil heating cables inside the soil.
Automated irrigation scheduling is done for proper irrigation.
METHODOLOGY
FEASIBILITY AND VIABILITY
On considering the feasibility such as temperature modification can
GPS Map Camera
Cuddalore, Tamil Nadu, India
SANCET, Tamil Nadu 607106, India
Lat 11.775067°
Long 79.507471°
18/09/24 02:01 PM GMT +05:30
Google


GPS Map Camera
Cuddalore, Tamil Nadu, India
SANCET, Tamil Nadu 607106, India
Lat 11.775067°
Long 79.507471°
18/09/24 02:00 PM GMT +05:30
Google


TECHNICAL APPROACH
Technologies to be used
GPS Map Camera
Cuddalore, Tamil Nadu, India
SANCET, Tamil Nadu 607106, India
Lat 11.775067°
Long 79.507471°
Google
18/09/24 02:19 PM GMT +05:30


SMART INDIA HACKATHON 2024
GPS Map Camera
Check In
Manappakkam, Tamil Nadu, India
QGG9+99M, Manappakkam, Tamil Nadu 607106, India
Lat 11.774057°
Long 79.517641°
Google
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GPS Map Camera
Manappakkam, Tamil Nadu, India
QGG6+974, Manappakkam, Tamil Nadu 607106, India
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Google


GPS Map Camera
Manappakkam, Tamil Nadu, India
QGG6+974, Manappakkam, Tamil Nadu 607106, India
Lat 11.779024°
Long 79.511681°
18/09/24 01:46 PM GMT +05:30
Google

JUDGING PROCESS:

The following criteria have been followed for the judging process.

- Problem Identification - 20 Marks
- Solution Proposal – 30 Marks
- Technical Implementation - 30 Marks
- Presentation Quality - 20 Marks

JUDGES DETAILS:



Mrs. M. SANGEETHA
Software Trainer,
Skillsin Corp
Vadalur, Tamilnadu



Mr. KARTHIK BALARAMAN
Chief Executive Officer,
Innovation & Operations,
Ocean Academy, Pondicherry.



Dr. D. OMMURUGADHASAN
Professor
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology, Panruti



Dr. K. SRIRAM
Associate Professor
Department of Electrical and Electronics Engineering
St. Anne's College of Engineering and Technology, Panruti

SIH 2024 NOMINATED TEAMS: 18

S. No.	Problem Statement ID	Theme Name	Category	Team Name
1	SIH1625	Smart Automation	Software	INNOVATION WAREHOUSE
2	SIH1604	Smart Automation	Software	BOTSAGE
3	SIH1589	Blockchain & Cybersecurity	Software	PROTECTED VOTES TEAM
4	SIH1600	Smart Automation	Software	FOOD EPICUR
5	SIH1608	Smart Education	Software	QUANTUM CODE BRAKERS
6	SIH1545	Renewable / Sustainable Energy	Hardware	MECHBOT
7	SIH1573	Renewable / Sustainable Energy	Hardware	MECH MARVELS
8	SIH1576	Clean & Green Technology	Hardware	MECH ELITE

9	SIH1575	Clean & Green Technology	Hardware	AKAT SUKI
10	SIH1572	Renewable / Sustainable Energy	Hardware	TECH CONQUEROS
11	SIH1536	Agriculture, FoodTech & Rural Development	Hardware	SOIL SQUAD
12	SIH1583	Miscellaneous	Hardware	RULE BRAKERS
13	SIH1542	Space Technology	Hardware	FUTURE FUSION
14	SIH1576	Clean & Green Technology	Hardware	CORBON CRUSHERS
15	SIH1545	Renewable / Sustainable Energy	Hardware	MIRACLE WORKERS
16	SIH1554	Agriculture, FoodTech & Rural Development	Hardware	TRENDING FARMERS
17	SIH1638	Agriculture, FoodTech & Rural Development	Software	CROPEYES
18	SIH1536	Agriculture, FoodTech & Rural Development	Hardware	Achievers

PARTICIPATION STATISTICS:

Total Number of Participants: 222

Total Teams: 37

Male Participants: 162

Female Participants: 60

	MALE	FEMALE	TOTAL	TEAM
ECE	27	21	48	08
EEE	46	8	54	09
MECH	48	-	48	08
CSE & AIML	41	31	72	12

SOCIAL MEDIA LINKS:

Facebook: https://www.facebook.com/stannescet2009/

Twitter: https://twitter.com/stannescet_prt

Instagram: https://instagram.com/stannescet_prt/

SIH SPOC 20/9/2024

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

20/9/24

PRINCIPAL
Dr.R.AROKIADASS, M.E., Ph.D.,
Principal,
St.Anne's College of Engineering & Technology,
ANGUCHETTYPALAYAM,
Siruvathur-(Post), Panruti-(T.k),
Cuddalore-(Dist), Pin: 607 110.

STUDENT SEMINAR

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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Accredited by NAAC
ANGUCHETTYPALAYAM, PANRUTI -607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

(2024-2025)

CIR. No.: SANCET/CSE/CIR/16 **Date: 03.09.24**

It is to be informed that the **Student Seminar** will be held for II/III Year/Sem students at Room No. MB206. All interested staff and students are invited for the seminar.

Name of the Student : LOGESHWARI E
Register Number **: 422123104032**
Year/Semester **: II/III**
Date and Time **: 05.09.24 @ 11.20 am**
Topic of the Seminar : IAM GOOGLE APP ENGINE

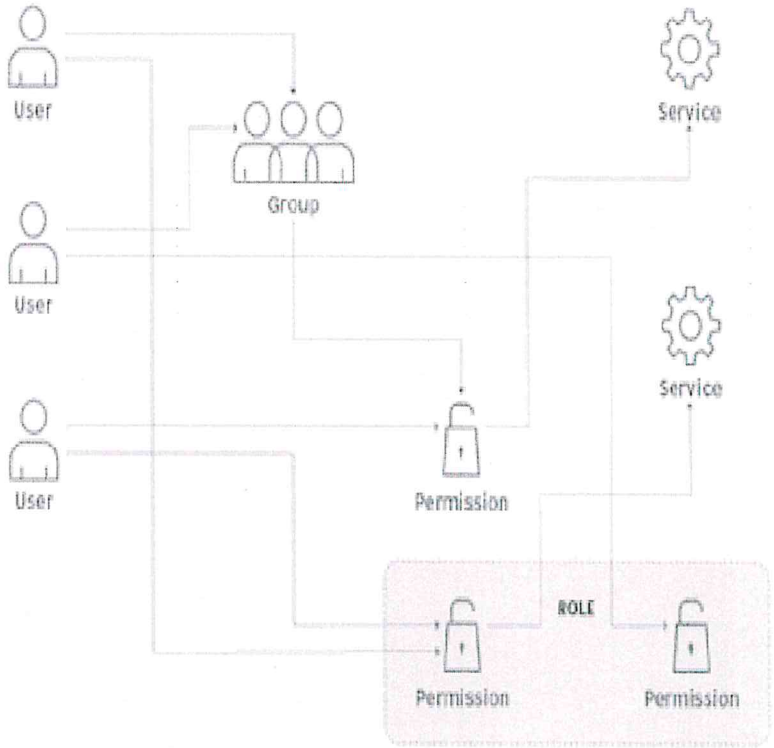
for M. Jubathisan 03/09/24.

HOD

Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

Board Presentation Content

IAM concepts



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI -607 106.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT SEMINAR

EVALUATION SHEET

Name of the Student : LOGESHWARI E

Register Number : **422123104032**

Year/Semester : **II/III**

Date and Time : **05.09.24 @ 11.20 am**

Topic of the Seminar : IAM GOOGLE APP ENGINE

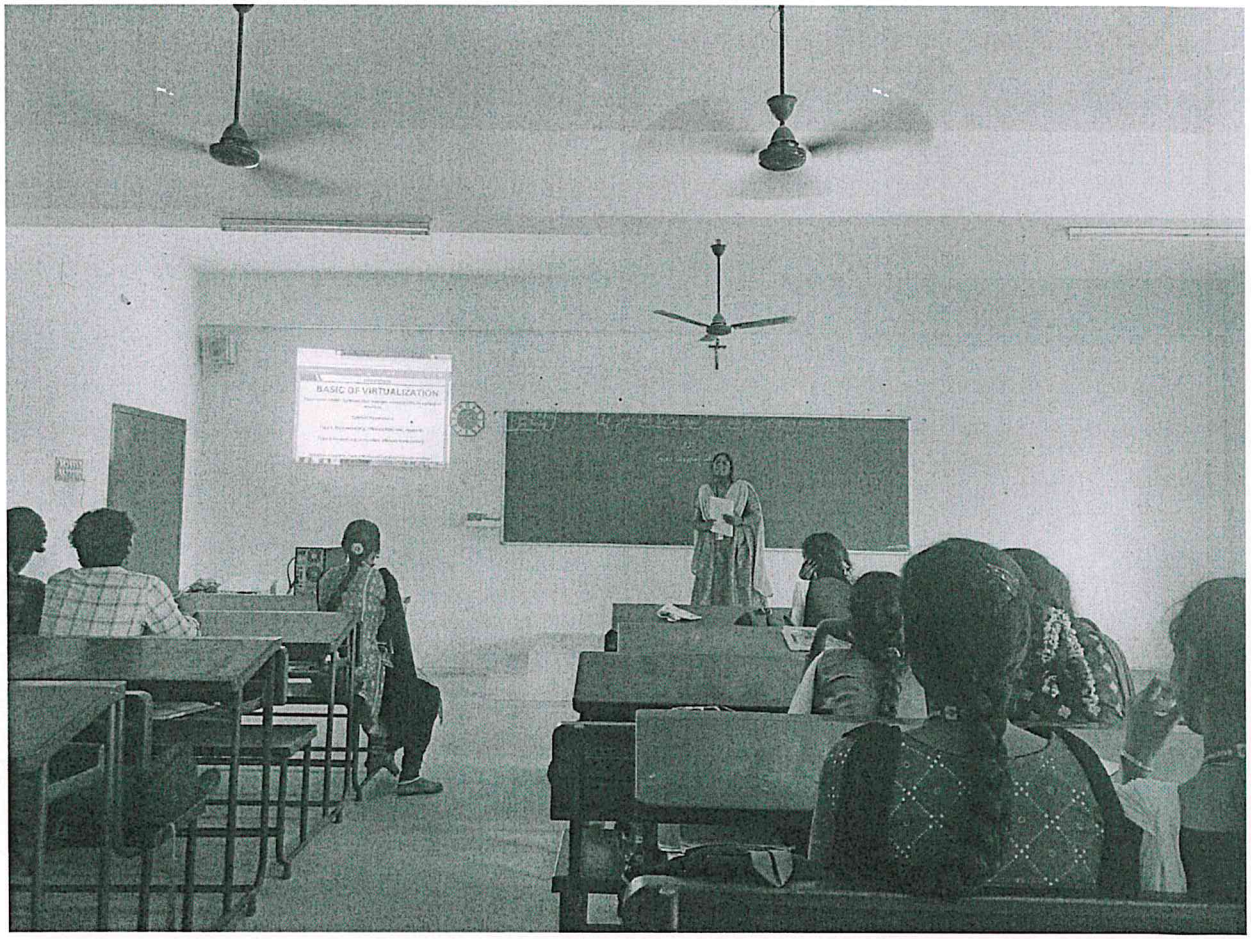
	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	08	07	06	Good 5/9/24
HOD	07	08	07	Good 5/9/24

for M. Subashini 5/9/24

HOD

Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

STUDENT AT SEMINAR SESSION



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

(2024-2025)

CIR. No.: SANCET/ME/CIR/1 **Date: 29.10.2024**

It is to be informed that the **Student Seminar** will be held for III/V year/sem students at Room No. MB 108. All interested staff and students are invited for the seminar.

Name of the Student: **MANIBARATHI P**

Register Number : **422122114018**

Year/Semester : **III/V**

Date and Time : **30.10.2024 @ 11:45 pm**

Topic of the Seminar : **"AUTOMOBILE FRONT AXLE"**

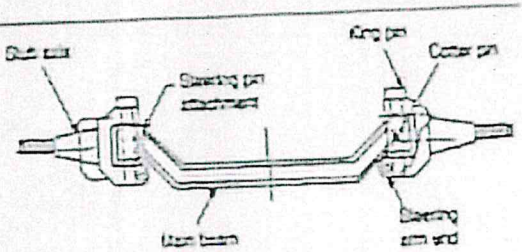
29/10/24

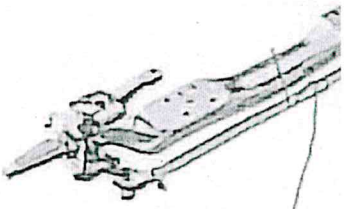
HOD

Head of the Department
Department of Mechanical Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

Board Presentation Content

Front Axle : Functions





1. It carries weight of front end of the vehicle.
2. It provides mountings for stub axle, king pin and steering arm vehicle can be steered.
3. It transmits power to front wheels in case for front wheel drive v
4. It carries front wheels.

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF MECHANICAL ENGINEERING

STUDENT SEMINAR

EVALUATION SHEET

Name of the Student: **MANIBARATHI P**

Register Number : **422122114018**

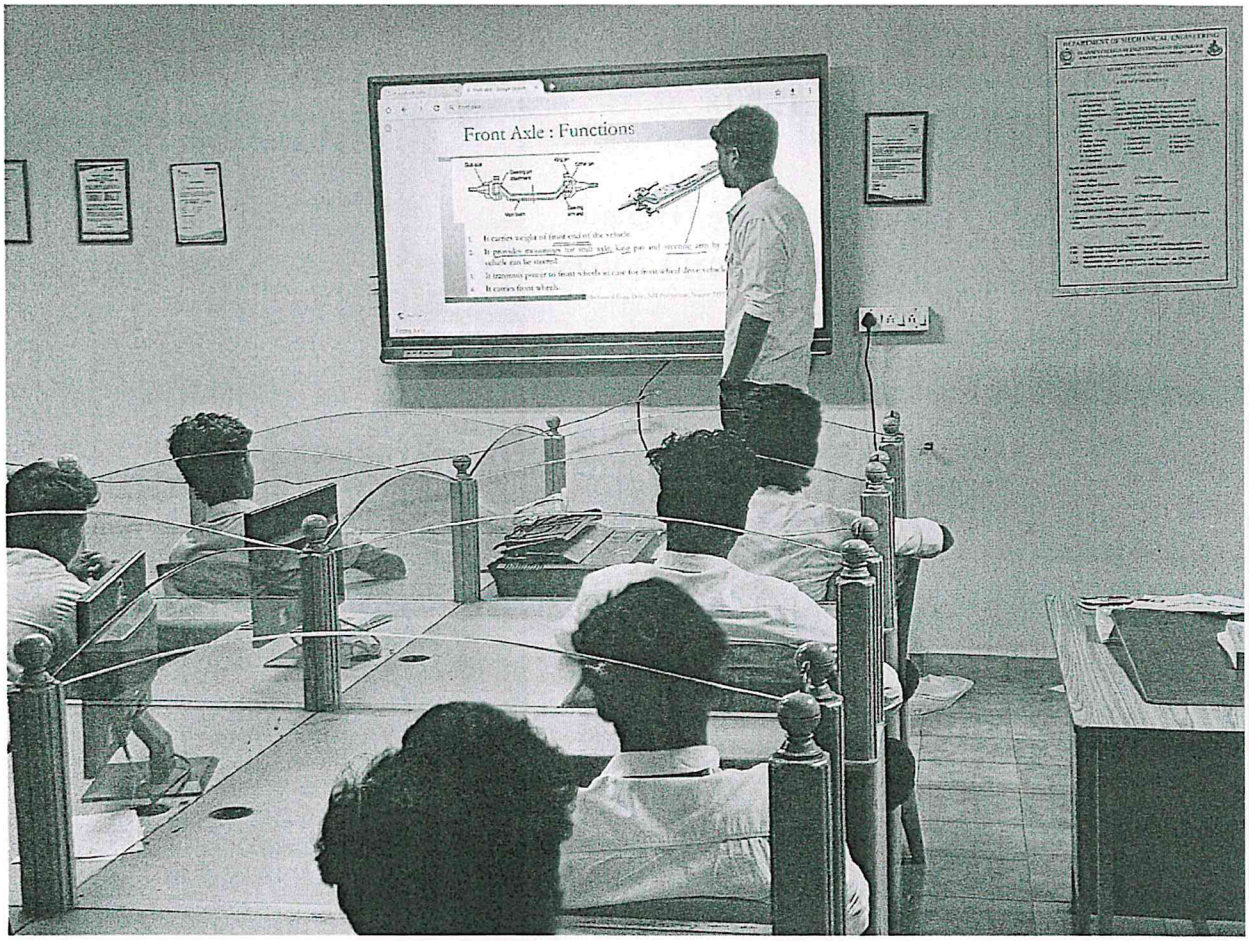
Year/Semester : **III/V**

Date and Time : **30.10.2024 @ 11:45 pm**

Topic of the Seminar : **"AUTOMOBILE FRONT AXLE"**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	10	09	08	Good
HOD	10	10	09	Good

Photo



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

(2023-2024)

CIR. No.: SANCET/ECE/CIR/17 **Date: 04. 11 2024**

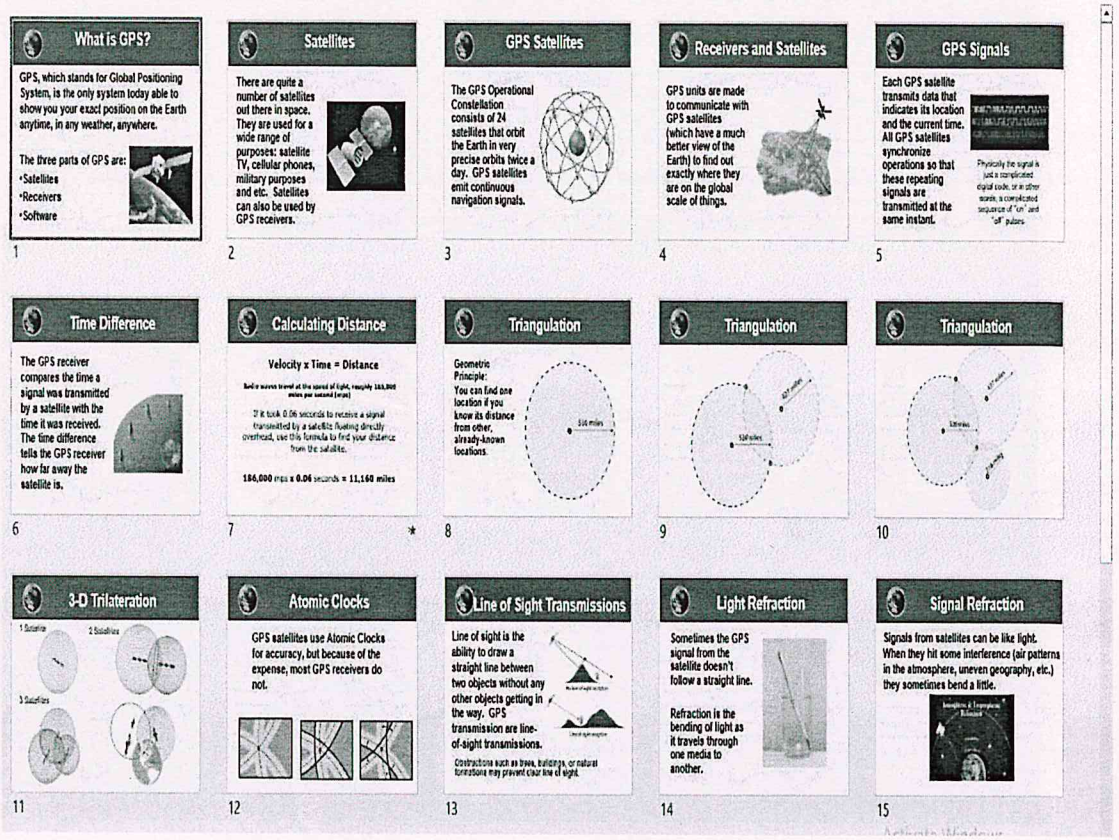
It is to be informed that the **Student Seminar** will be held for III Year/ Vth Sem students at Room No. MB 202. All interested staff and students are invited for the seminar.

Name of the Student	: **A. ARCHANA**
Register Number	: **422120106008**
Year/Semester	: **III/V**
Date and Time	: **05.11.2024 @ 11:40 pm**
Topic of the Seminar	: **"Global Position System"**

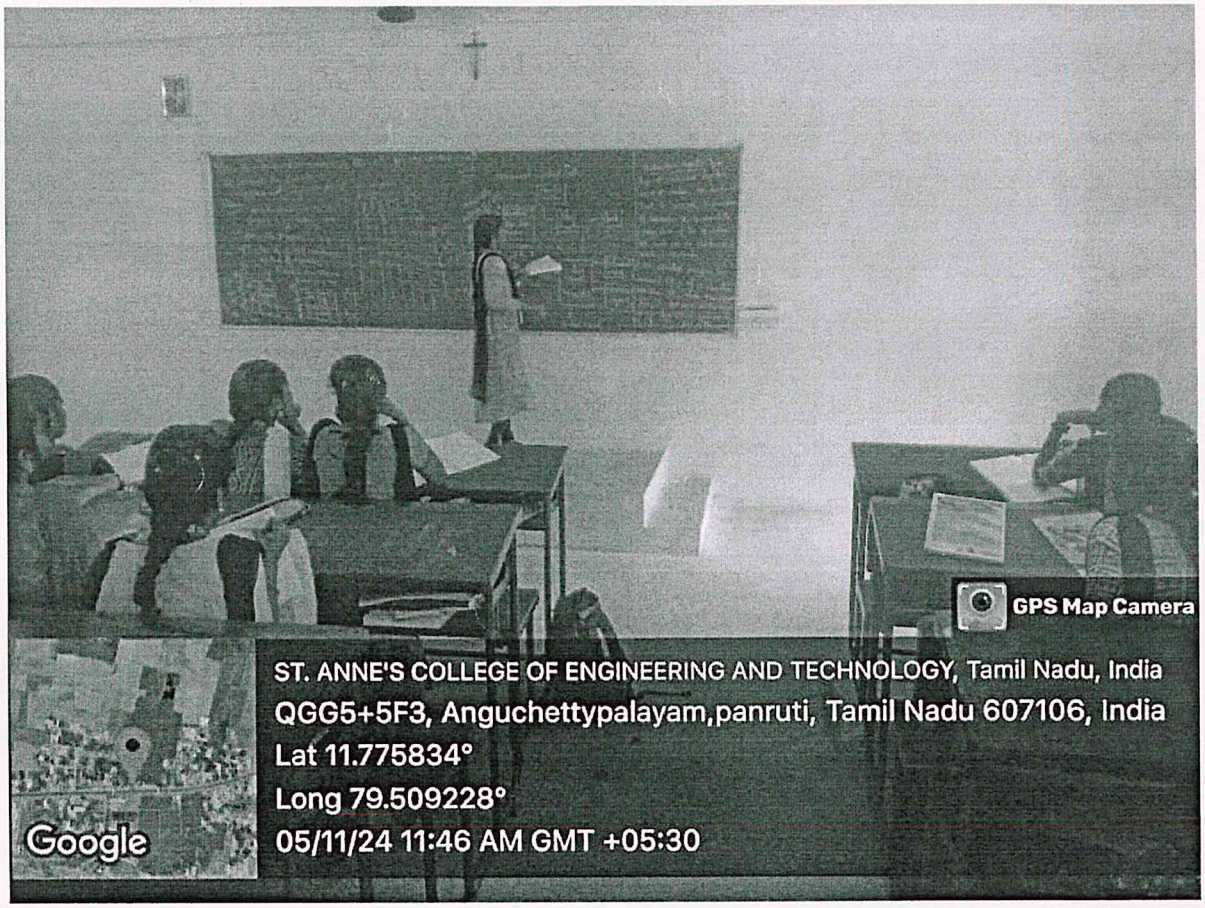
HoD 4/11/24

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

Board Presentation Content



Photo


GPS Map Camera
ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY, Tamil Nadu, India
QGG5+5F3, Anguchettypalayam,panruti, Tamil Nadu 607106, India
Lat 11.775834°
Long 79.509228°
05/11/24 11:46 AM GMT +05:30
Google

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENT SEMINAR

EVALUATION SHEET

Name of the Student : **A. ARCHANA**
Register Number : **422120106008**
Year/Semester : **III/V**
Date and Time : **05.11.2024 @ 11:40 pm**
Topic of the Seminar : **"Global Position System"**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	10	9	8	V. good
HOD	9	8	7	Good

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

(2024-2025)

CIR. No.: SANCET/ECE/CIR/18 **Date: 05.11.2024**

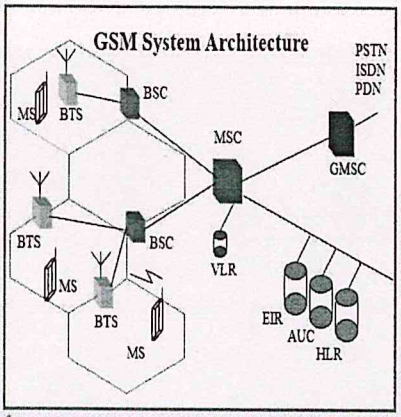
It is to be informed that the **Student Seminar** will be held for III Year/ Vth Sem students at Room No. MB 202. All interested staff and students are invited for the seminar.

Name of the Student	: **S. SRIMATHI**
Register Number	: **422120106050**
Year/Semester	: **III/V**
Date and Time	: **06.11.2024 @ 11:40 pm**
Topic of the Seminar	: **"Global System for Mobile Communication"**

HoD 5/11

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

Board Presentation Content



1

GSM System Architecture-I

- **Mobile Station (MS)**
  - Mobile Equipment (ME)
  - Subscriber Identity Module (SIM)
- **Base Station Subsystem (BSS)**
  - Base Transceiver Station (BTS)
  - Base Station Controller (BSC)
- **Network Switching Subsystem(NSS)**
  - Mobile Switching Center (MSC)
  - Home Location Register (HLR)
  - Visitor Location Register (VLR)
  - Authentication Center (AUC)
  - Equipment Identity Register (EIR)

2

GSM RF

- RF Spectrum

GSM 900

Mobile to BTS (uplink): 890-915 Mhz

BTS to Mobile(downlink):935-960 Mhz

Bandwidth : 2* 25 Mhz

GSM 1800

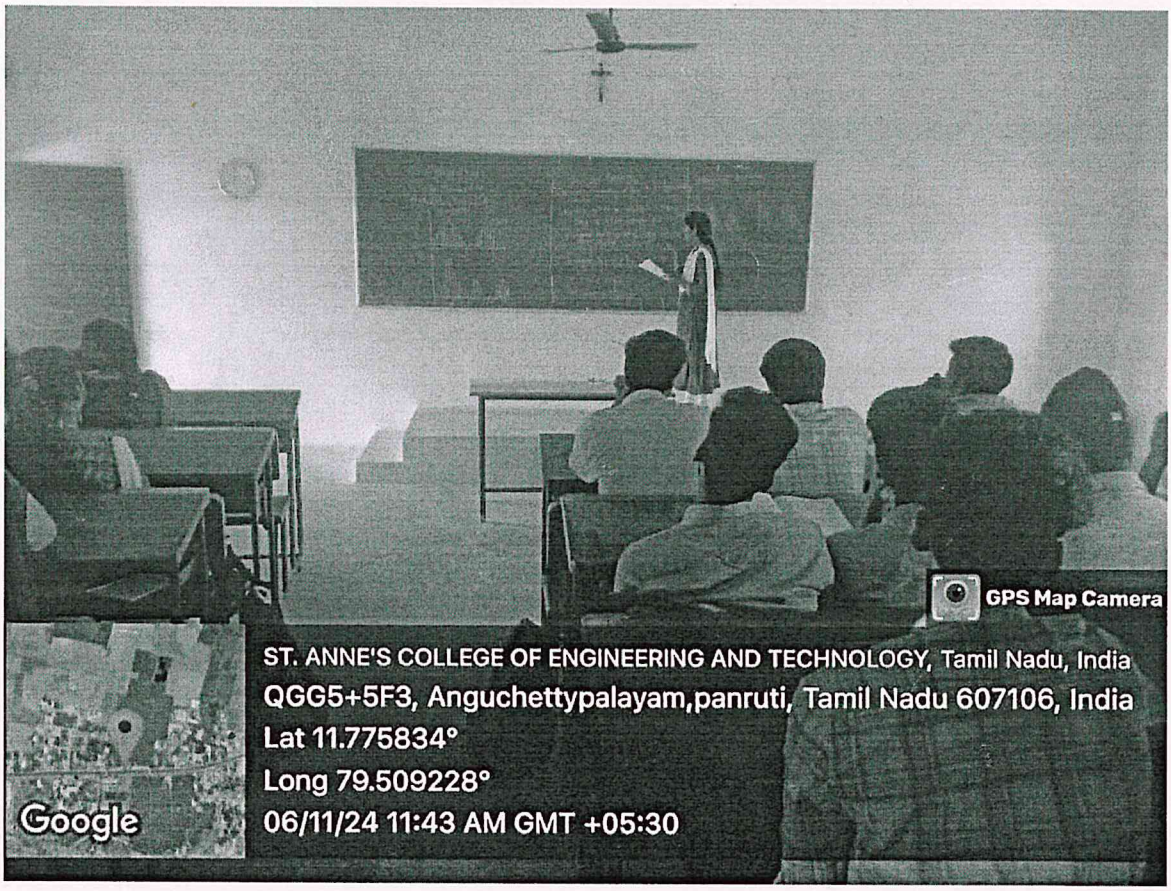
Mobile to BTS (uplink): 1710-1785 Mhz

GSM RF

- Carrier Separation : 200 Khz
- Duplex Distance : 45 Mhz
- No. of RF carriers : 124
- Access Method : TDMA/FDMA
- Modulation Method : GMSK

Activate Windows
Go to Settings to activate Windows.

Photo


GPS Map Camera
ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY, Tamil Nadu, India
QGG5+5F3, Anguchettypalayam,panruti, Tamil Nadu 607106, India
Lat 11.775834°
Long 79.509228°
06/11/24 11:43 AM GMT +05:30
Google

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENT SEMINAR

EVALUATION SHEET

Name of the Student : **S. SRIMATHI**

Register Number : **422120106050**

Year/Semester : **III/V**

Date and Time : **06.11.2024 @ 11:40 pm**

Topic of the Seminar : **"Global System for Mobile Communication"**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	9	10	8	Good
HOD	10	9	7	Good. Need to improve your Presentation

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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

CIRCULAR

(2024-2025)

CIR. No.: SANCET/AIML/CIR/10 **Date: 03.11.24**

It is to be informed that the **Student Seminar** will be held for II/III Year/Sem students at Room No. MB206. All interested staff and students are invited for the seminar.

Name of the Student : **ANANDA SABESAN S**

Register Number : **422123148005**

Year/Semester : **II/III**

Date and Time : **05.11.24 @ 01.00 Pm**

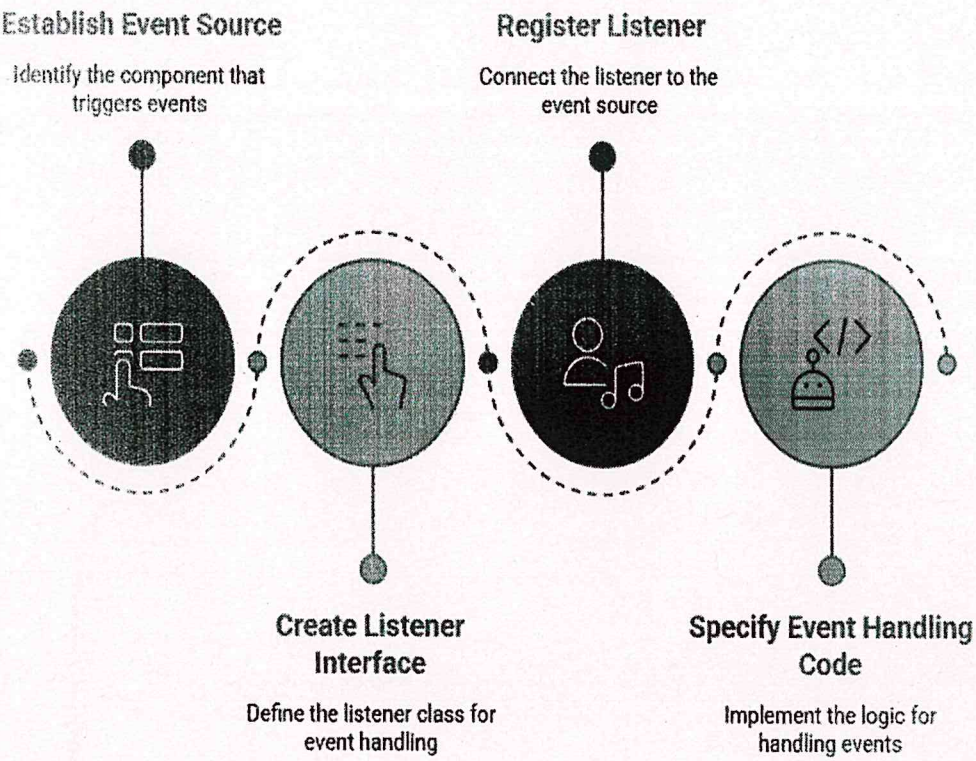
Topic of the Seminar : **" EVENT HANDLING, LAYOUTS & BUTTONS "**

for HOD 3/11/24

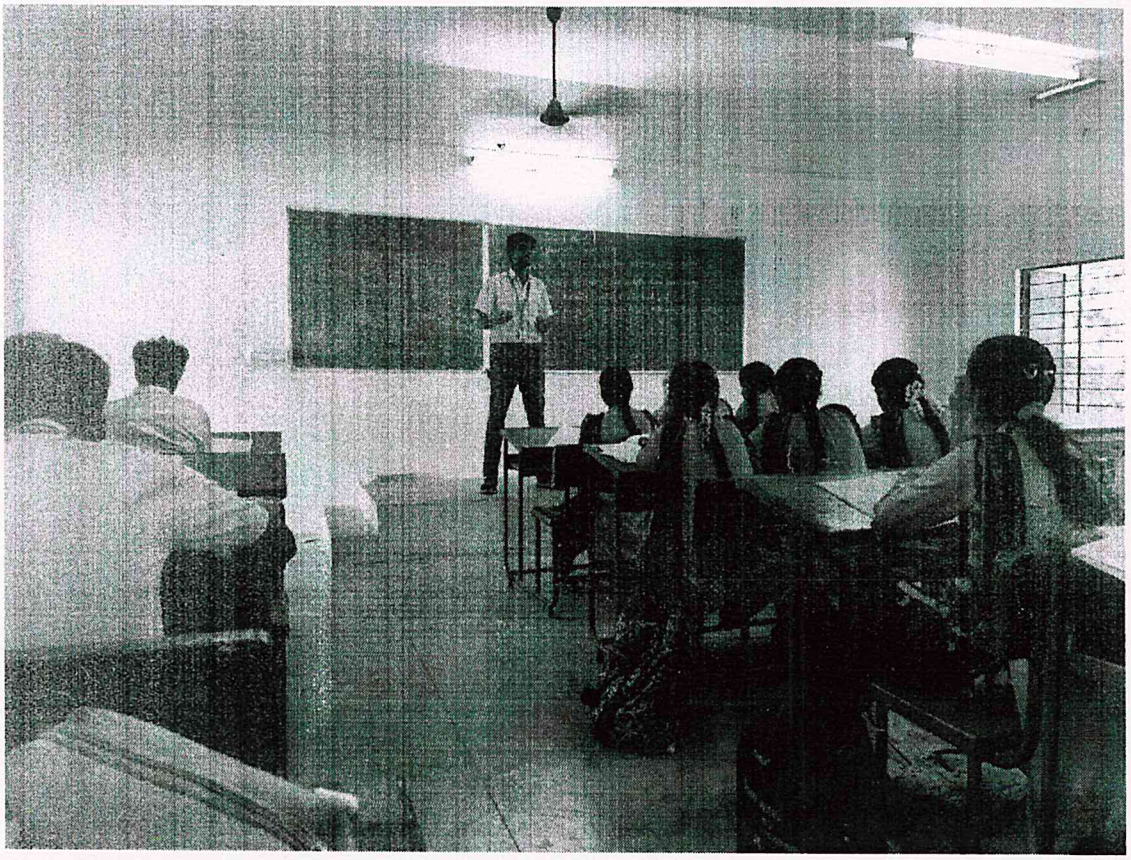
Head of the Department
Department of CSE
(ArtificialIntelligence and Machine Learning)
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

Board Presentation Content

Event Handling Process in Java



STUDENT AT SEMINAR SESSION



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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

STUDENT SEMINAR

EVALUATION SHEET

Name of the Student : ANANDA SABESAN S
Register Number : **422123148005**
Year/Semester : **II/III**
Date and Time : **05.11.24 @ 01.00 Pm**
Topic of the Seminar : **" EVENT HANDLING, LAYOUTS & BUTTONS "**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	08	07	08	Good.
HOD	06	08	09	Good.

6/11/24
HOD

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR

(2024-2025)

CIR. No.: SANCET/ECE/CIR/25 **Date: 18.04.2025**

It is to be informed that the **Student Seminar** will be held for III/VI Year/Sem students at Room No. MB 103. All interested staff and students are invited for the seminar.

Name of the Student: **PRAVEENA**
Register Number : **422122105016**
Year/Semester : **III/VI**
Date and Time : **21.04.2025 @ 10:30 am**
Subject Code & Title : **EE3013 SMPS&UPS**
Topic of the Seminar : **"BUCK BOOST CONVERTER"**

HoD 18/4/25

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Department of Electricaland Electronics Engineering
St. Anne's College of Engineering and Technology
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENT SEMINAR

EVALUATION SHEET

Name of the Student: **PRAVEENA**

Register Number : **422122105016**

Year/Semester : **III/VI**

Date and Time : **21.04.2025 @ 10:30 am**

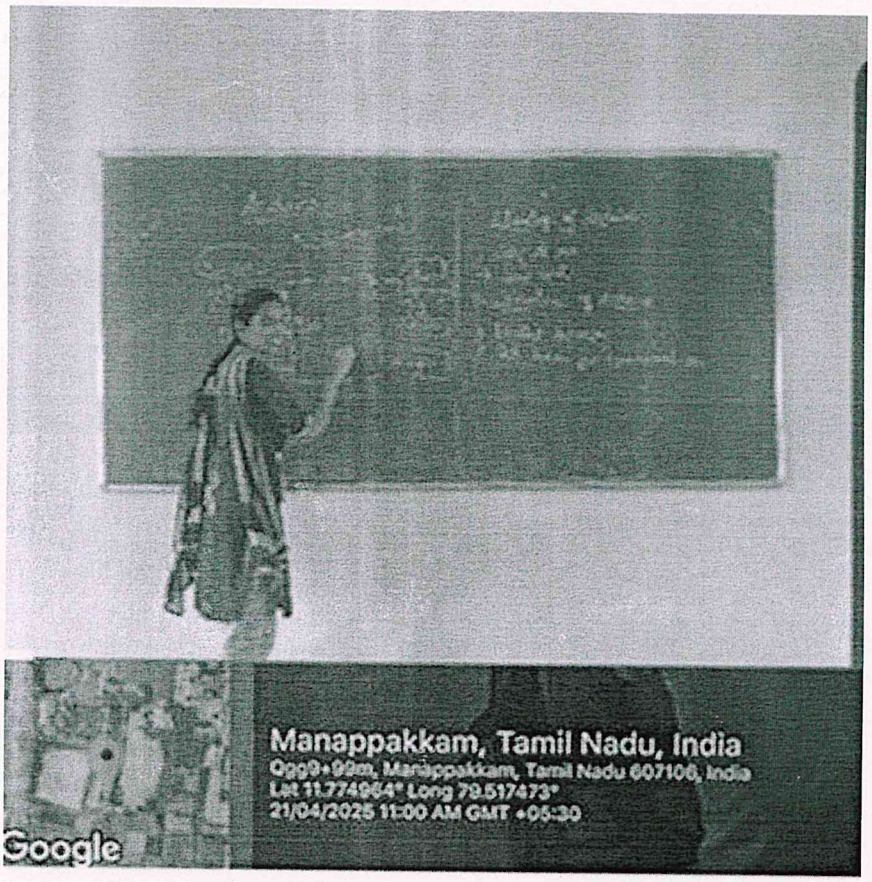
Subject Code & Title : **EE3013 SMPS&UPS**

Topic of the Seminar : **"BUCK BOOST CONVERTER"**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	07	08	08	Good T. Hh.
HOD	09	08	07	Good V.Sri

Board Presentation Content

Photo


Manappakkam, Tamil Nadu, India
Qgg9+99m, Manappakkam, Tamil Nadu 607106, India
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21/04/2025 11:00 AM GMT +05:30
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

(2024-2025)

CIR. No.: SANCET/ECE/CIR/25 **Date: 18.04.2025**

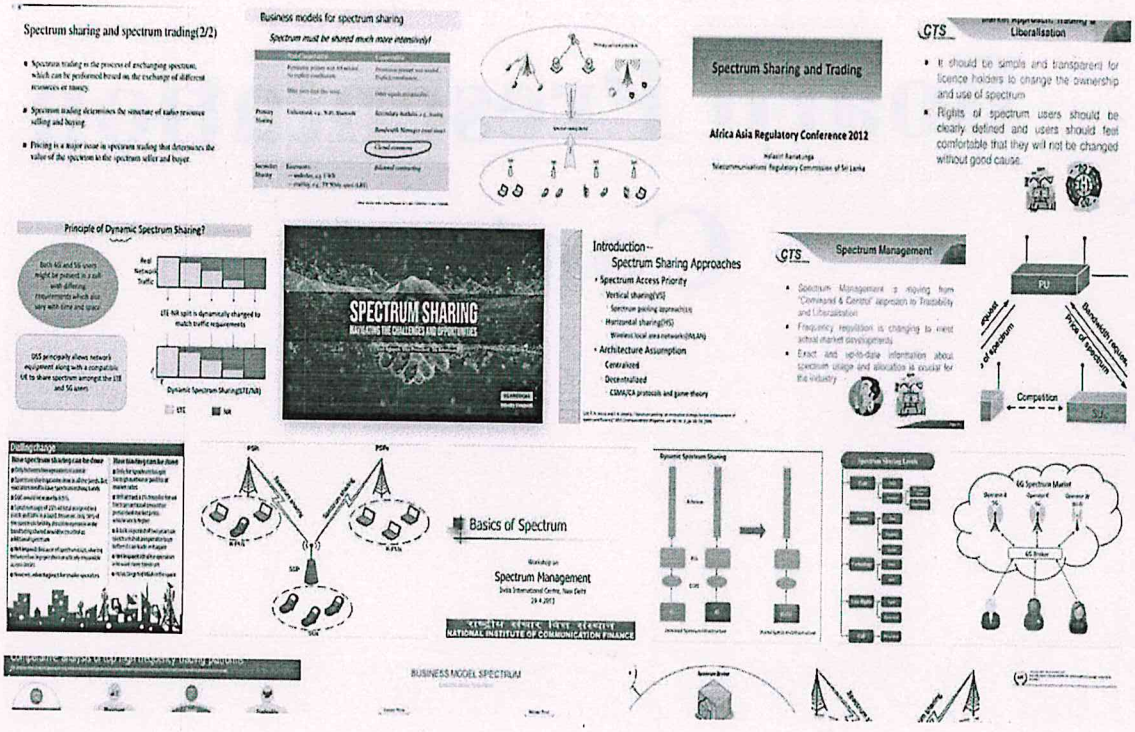
It is to be informed that the **Student Seminar** will be held for III/VI Year/Sem students at Room No. MB 202. All interested staff and students are invited for the seminar.

Name of the Student: **SUJITHA K**
Register Number : **422122106052**
Year/Semester : **III/VI**
Date and Time : **21.04.2025 @ 10:30 am**
Subject Code & Title : **CEC331 & 4G/5G Communication Networks**
Topic of the Seminar : **"SPECTRUM SHARING & TRADING"**

HoD

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
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Board Presentation Content



Spectrum sharing and spectrum trading(2/2)

- Spectrum trading is the process of exchanging spectrum, which can be performed based on the exchange of different resources or money.
- Spectrum trading determines the structure of radio resource selling and buying.
- Pricing is a major issue in spectrum trading that determines the value of the spectrum to the spectrum seller and buyer.

Business models for spectrum sharing

Spectrum must be shared much more intensively!

Spectrum Sharing and Trading

Africa Asia Regulatory Conference 2012

Hiran Ranatunga
Telecommunications Regulatory Commission of Sri Lanka

GTS Liberalisation

- It should be simple and transparent for licence holders to change the ownership and use of spectrum
- Rights of spectrum users should be clearly defined and users should feel comfortable that they will not be changed without good cause.

Principle of Dynamic Spectrum Sharing?

Both 4G and 5G users might be present in a cell with differing requirements which also vary with time and space

DSS principally allows network equipment along with a compatible UE to share spectrum amongst the LTE and 5G users

Real Network Traffic

LTE NR split is dynamically changed to match traffic requirements

Dynamic Spectrum Sharing(LTE/NR)

LTE NR

SPECTRUM SHARING
NAVIGATING THE CHALLENGES AND OPPORTUNITIES

Introduction – Spectrum Sharing Approaches

- Spectrum Access Priority
  - Vertical sharing(VS)
    - Spectrum pooling approach(SS)
  - Horizontal sharing(HS)
    - Wireless local area network(WLAN)
- Architecture Assumption
  - Centralized
  - Decentralized
    - CSMA/CA protocols and game theory

GTS Spectrum Management

- Spectrum Management is moving from "Command & Control" approach to Tradability and Liberalisation
- Frequency regulation is changing to meet actual market developments
- Exact and up-to-date information about spectrum usage and allocation is crucial for the industry

PU

Competition

SU

Dialling change

PSPs

SSP

Basics of Spectrum

Workshop on
Spectrum Management
Delhi International Centre, New Delhi
29.4.2013

NATIONAL INSTITUTE OF COMMUNICATION FINANCE

Dynamic Spectrum Sharing

66 Spectrum Market

BUSINESS MODEL SPECTRUM

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENT SEMINAR

EVALUATION SHEET

Name of the Student: **SUJITHA K**

Register Number : **422122106052**

Year/Semester : **III/VI**

Date and Time : **21.04.2025 @ 10:30 am**

Subject Code & Title : **CEC331 & 4G/5G Communication Networks**

Topic of the Seminar : **"SPECTRUM SHARING & TRADING"**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	10	9	8	Good
HOD	9	8	8	Good. You should improve your answering skill

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

(2024-2025)

CIR. No.: SANCET/ECE/CIR/26 **Date: 18.04.2025**

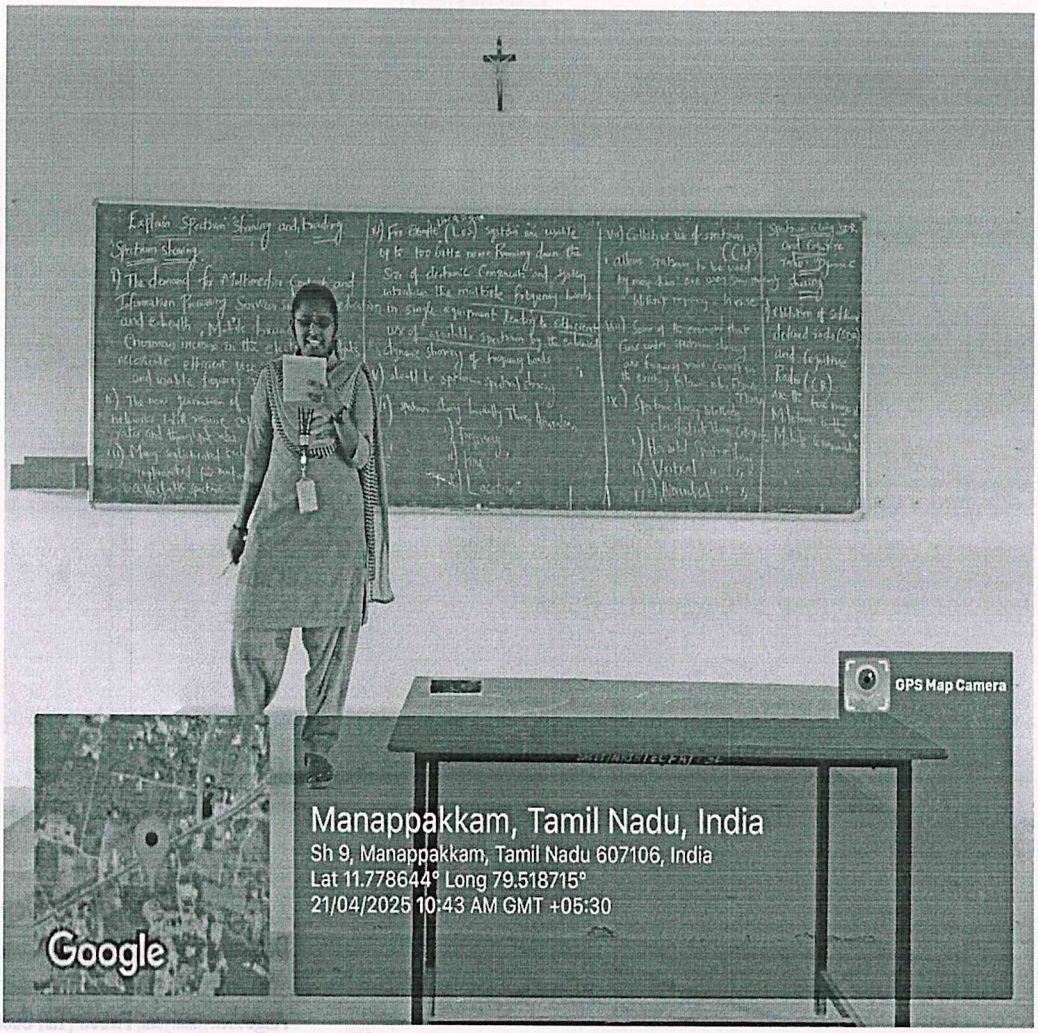
It is to be informed that the **Student Seminar** will be held for III/VI Year/Sem students at Room No. MB 202. All interested staff and students are invited for the seminar.

Name of the Student: **DEVAGURU S**
Register Number : **422122106017**
Year/Semester : **III/VI**
Date and Time : **21.04.2025 @ 11:00 am**
Subject Code & Title : **CEC331 & 4G/5G Communication Networks**
Topic of the Seminar : **"Cognitive Radio"**

HoD 18/4/2025

Head of the Department
Department of Electronics and Communication Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

Photo


GPS Map Camera
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Sh 9, Manappakkam, Tamil Nadu 607106, India
Lat 11.778644° Long 79.518715°
21/04/2025 10:43 AM GMT +05:30
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Board Presentation Content

Cognitive Radio & DSA

1

Static licensing :

2 ★

Solutions :

3 ★

Cognitive radio :

4 ★

Cognitive radio :

5 ★

Spectrum sensing:

6

Energy sensing:

7

Energy detection (con):

8

Match filter detection :

9

Cyclo-stationary detection :

10 ★

Example of Spectral Correlation Function

11

Cyclostationary Detection

12

Cooperative detection :

13

14

Collection of the measurement data:

15

Activate Windows
Go to Settings to activate Windows.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

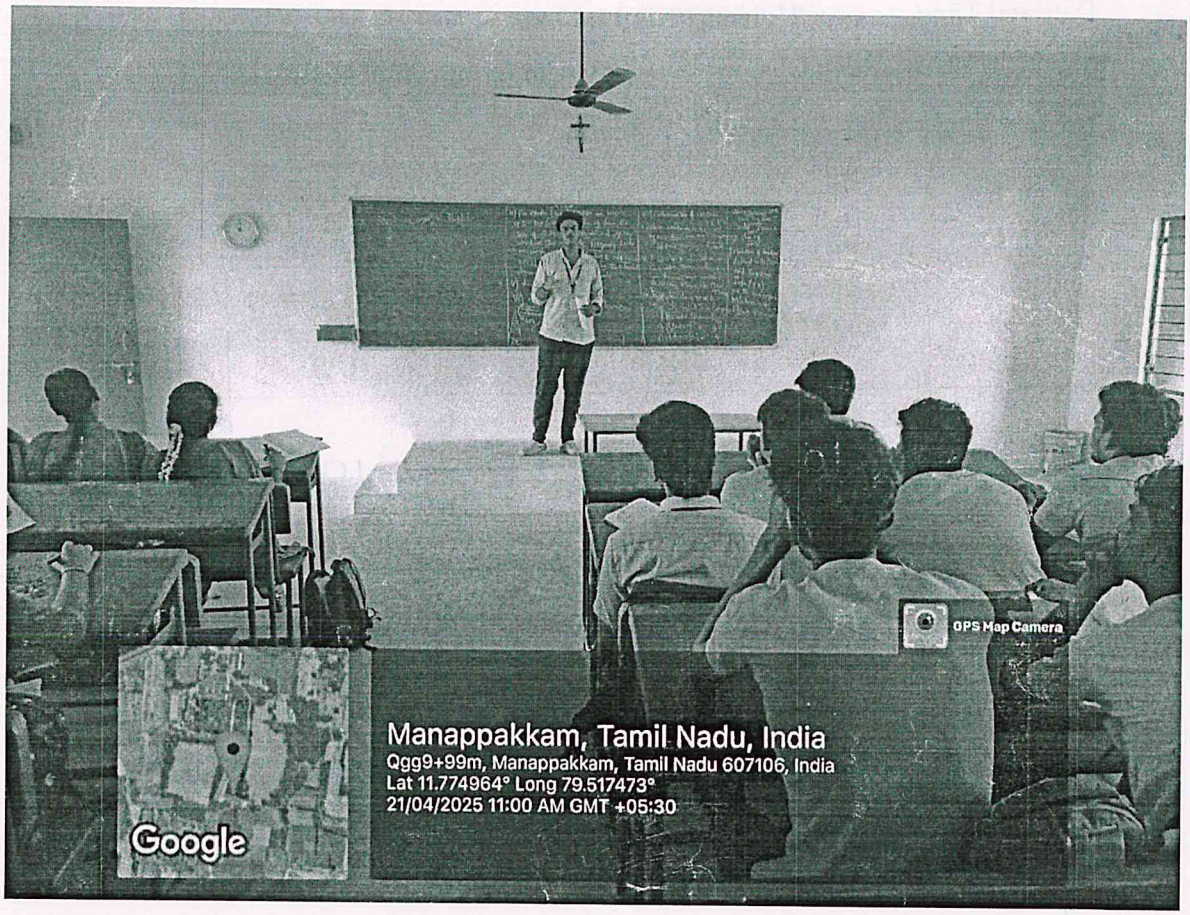
STUDENT SEMINAR

EVALUATION SHEET

Name of the Student: **DEVAGURU S**
Register Number : **422122106017**
Year/Semester : **III/VI**
Date and Time : **21.04.2025 @ 11:00 am**
Subject Code & Title : **CEC331 & 4G/5G Communication Networks**
Topic of the Seminar : **"Cognitive Radio"**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	10	9	10	Good
HOD	10	8	9	Good.

Photo


GPS Map Camera
Manappakkam, Tamil Nadu, India
Qgg9+99m, Manappakkam, Tamil Nadu 607106, India
Lat 11.774964° Long 79.517473°
21/04/2025 11:00 AM GMT +05:30
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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

CIRCULAR

(2024-2025)

CIR. No.: SANCET/AIML/CIR/25 **Date: 02.05.25**

It is to be informed that the **Student Seminar** will be held for II/IV Year/Sem students at Room No. MB206. All interested staff and students are invited for the seminar.

Name of the Student : BHUVANESHWARI M G
Register Number **: 422123148013**
Year/Semester **: II/IV**
Date and Time **: 03.05.25 @ 11.20 Am**
Topic of the Seminar : **"MC NEYMAR TEST & T-TEST "**

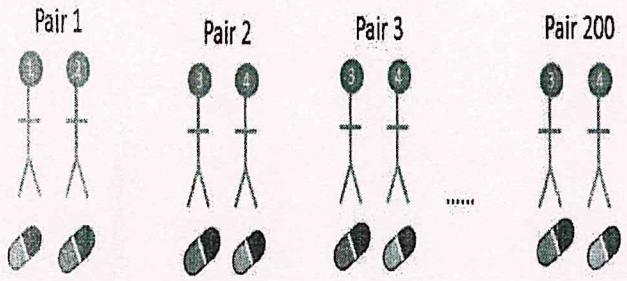
03/5/25
HOD

Head of the Department
Department of CSE
(ArtificialIntelligence and Machine Learning)
St. Anne's College of Engineering and Technology
Anguchettypalayam, Panruti-(T.k) Cuddalore-(Dist.), Pin: 607 106

Board Presentation Content

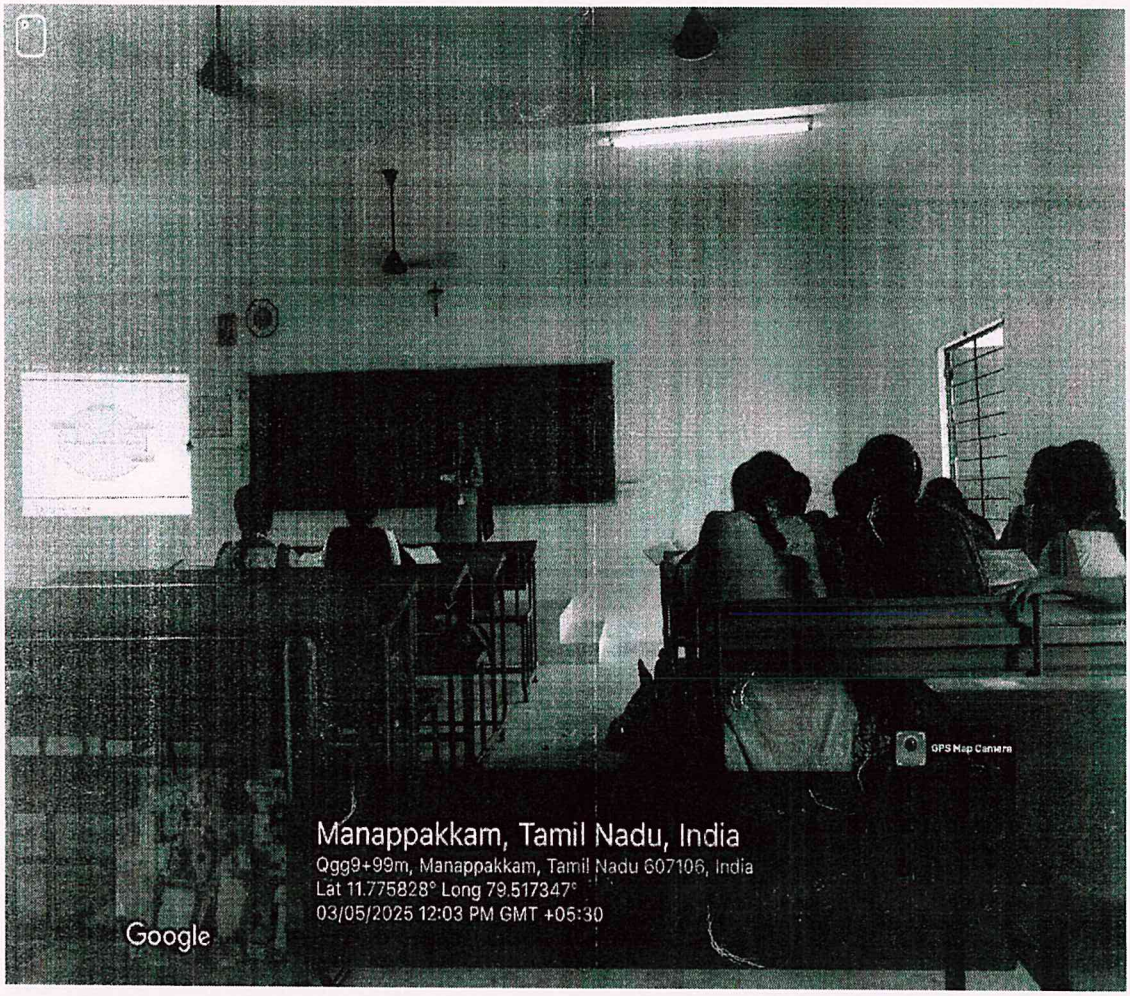
McNemar test

	Yes	No	Total
Yes	90 (a)	10 (b)	100
No	30 (c)	70 (d)	100
Total	120	80	200



TileStats

STUDENT AT SEMINAR SESSION



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DEPARTMENT OF CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

STUDENT SEMINAR

EVALUATION SHEET

Name of the Student : BHUVANESHWARI M G

Register Number : **422123148013**

Year/Semester : **II/IV**

Date and Time : **03.05.25 @ 11.20 Am**

Topic of the Seminar : **"MC NEYMAR TEST & T-TEST "**

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	08	06	08	Good 3/5/25
HOD	07	07	08	Good

HOD 03/05/25

Head of the Department
Department of CSE
(ArtificialIntelligence and Machine Learning)
St. Anne's College of Engineering and Technology
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

(2024-2025)

CIR. No.: SANCET/CSE/CIR/21 **Date: 02.06.25**

It is to be informed that the **Student Seminar** will be held for II/IV Year/Sem students at Room No. MB206. All interested staff and students are invited for the seminar.

Name of the Student : DHARANI.J
Register Number : 422123104020
Year/Semester : II/IV
Date and Time : 04.06.25 @ 11.20 am
Topic of the Seminar : CLOUD COMPUTING

for M. Subalini 02/06/25

HOD

Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
Anguchettypalayam,
Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

Board Presentation Content

Benefit of Cloud Computing



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT SEMINAR

EVALUATION SHEET

Name of the Student : DHARANI.J

Register Number : **422123104020**

Year/Semester : **II/IV**

Date and Time : **04.06.25@ 11.20 Am**

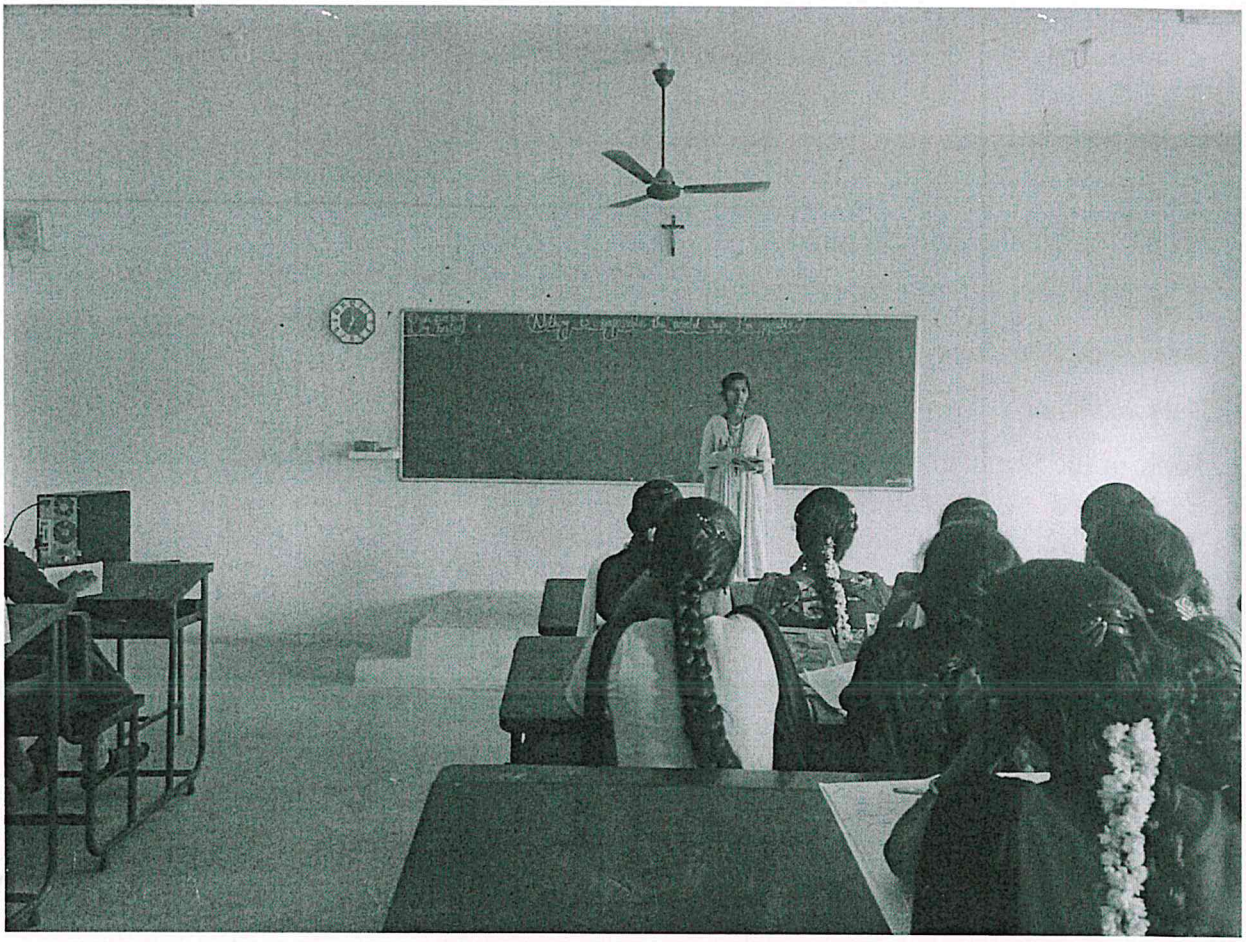
Topic of the Seminar : CLOUD COMPUTING

	PRESENTATION CONTENT (10)	PRESENTATION STYLE (10)	ANSWERING QUESTIONS (10)	REMARKS
Class Incharge	08	09	08	Good. 4/6/25
HOD	09	06	07	Good. 4/6/25

for M. Sabathiraj 4/6/25

HOD
Head of the Department
Department of Computer Science and Engineering
St. Anne's College of Engineering and Technology
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STUDENT AT SEMINAR SESSION



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Panruti-(T.k) Cuddalore-(Dist.),Pin:607 106

STUDENT AT SEMINAR SESSION

