| S.No | Theme Name | Problem Statement | NMNT ID | Team Name | Faculty Name | Department | Team Leader Name | Team Members |
|---|---|---|---|---|---|---|---|---|
| 1 | **Climate Change/ Disaster management** | "How might we develop a cost-effective and innovative solution to retrofit efficient drainage systems within existing cramped infrastructure, addressing the challenges of poor urban planning, inadequate drainage, and unfavorable geographical conditions, while mitigating the | NMNTSTD95080074 | GEO TECHNO | **MOHAMED YOUNUS** | **CIVIL** | **A MAHARAJA** | A MAHARAJA, JEBA HETIZHAL S, MAHADEVI N, ESAI HARINI V |
| 2 | **Climate Change/ Disaster management** | How might we design alternative biodegradable, non-reactive, and non-leachable food containers for packing liquid food items in hotels and restaurants, ensuring sustainability, safety, and consumer health while reducing environmental | NMNTSTD95080166 | Environmental team | **S PAULINE** | **CIVIL** | **Maheswari U** | Maheswari U, Dhanasri B, Ramya R, Koyilammal G |
| 3 | **Construction/ Building Technology** | How might we develop advanced, non-flammable, and lightweight construction materials for the fireworks industry to improve safety, prevent fire hazards, and maintain structural integrity and efficiency in the | NMNTSTD95080099 | GeoMasters | **T SEETHALAKSHMI** | **CIVIL** | **Nandhini N** | Nandhini N, Saranya A, Harish M, Arish Roshan M |
| 4 | **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 | NMNTSTD95080223 | Gce tly | **K SUMANGALA** | **CIVIL** | **Petchiammal** | Petchiammal , Natheera SS, Sathvikaasri R, Shanmuga Valli R |
| 5 | **Solid Waste/ Bio-waste/ E-waste** | How might we design a self-sustaining, autonomous device that efficiently converts food waste and bio-waste into valuable end products while minimizing human intervention and | NMNTSTD9508014 | SUSTAINO | **S PAULINE** | **CIVIL** | **SENTHIL MURUGAN S** | SENTHIL MURUGAN S, GNANA JESWIN G, MOHAMED AMEERUTHEEN, NITHIN SURYA S |
| 6 | **Solid Waste/ Bio-waste/ E-waste** | How might we develop a sustainable solution to reuse or recycle scrap generated in the rubber industry (such as from manufacturers of caskets, bushes, and other rubber components) to minimize waste and promote resource | NMNTSTD95080240 | GCETLY CIVIL | **K SUMANGALA** | **CIVIL** | **MSubash** | MSubash |
| 7 | **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 | NMNTSTD95080089 | Tech Titans | **TAMILPAVAI G** | **CSE** | **Ayisha Sabana J** | Ayisha Sabana J, Renugha P , Sri Abinesh R K, Sokka Thanga Aathithan S |
| 8 | **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? | NMNTSTD95080138 | Code Hacks | **SONA G** | **CSE** | **Balasubramanian K** | Balasubramanian K, Siva M, Karthick S |
| 9 | **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 | NMNTSTD95080145 | Deciders | **MAHIL M** | **CSE** | **Shamilin A** | Shamilin A, Anushya B S, Dhanasree R, Gokul A |
| 10 | **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 | NMNTSTD95080149 | Techies | **JEENATH LAILA N** | **CSE** | **Hephzibah Beulah S** | Hephzibah Beulah S, Subalakshmi M, Supriya A , Sivakami R |
| 11 | **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 | NMNTSTD95080044 | POSitive scaler | **TAMILPAVAI G** | **CSE** | **Tamilarasan S** | Tamilarasan S, Ahamed Haris B, Ameer Suhair A, Abishek A |
| 12 | **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 | NMNTSTD95080248 | Coolers | **RAMESH L** | **ECE** | **Sherbin Lal V** | Sherbin Lal V, Padmanaban B, Thileepan A, Steve Antony |

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| 13 | **Clean, Green & Renewable Energy** | How might we develop a system where the temperature and humidity of perishable goods be monitored during transportation and storage to ensure product quality and minimize spoilage | NMNTSTD95080135 | TEAMSS | **PADMAPRIYA K** | **ECE** | **JANAKI DEVI K** | JANAKI DEVI K, HIRITIKA PREMA R B, MEENA G, NANDHINI B |
| 14 | **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 | NMNTSTD95080189 | Codora | **PADMAPRIYA K** | **ECE** | **Rashika K** | Rashika K, Rathi A, Suriya M, Varsha A R |
| 15 | **Robotics/ Drone/ Industry 4.0** | How can we design an economical device, such as robotic boats, to efficiently collect plastic waste in marine ecosystems and integrate anti-pollutant technologies to protect and sustain the | NMNTSTD95080255 | SEASAVERS | **E SIVARAMAN** | **ECE** | **Sabari K B** | Sabari K B, Suman M, Samjoel D, M Vishal |
| 16 | **Rural & Urban development/ Manufacturing/ Engineering Technology** | How might we design an effective safety mechanism using proximity sensors with alarm systems to prevent children from falling into uncovered borewell holes/ open drainage pits, addressing this recurring and critical safety concern? This technology should detect | NMNTSTD95080043 | Progress Pacers | **A ALICE BLESSIE** | **ECE** | **Jane Sherin A** | Jane Sherin A, Darris Jemi S, Juliana Jeyamani J, Manthira V |
| 17 | **Rural & Urban development/ Manufacturing/ Engineering Technology** | How might we design an effective safety mechanism using proximity sensors with alarm systems to prevent children from falling into uncovered borewell holes/ open drainage pits, addressing this recurring and critical safety concern? This technology should detect | NMNTSTD95080092 | Electronauts | **KALAI SELVI K** | **ECE** | **MAGDALENE MARY J** | MAGDALENE MARY J, ABISHA JEBA JOICE S, AHAMED RESHMI M, GRISHAA M |
| 18 | **Rural & Urban development/ Manufacturing/ Engineering Technology** | How might we design an effective safety mechanism using proximity sensors with alarm systems to prevent children from falling into uncovered borewell holes/ open drainage pits, addressing this recurring and critical safety concern? This technology should detect | NMNTSTD95080274 | Weekend Warriors | **SELVAKUMAR** | **ECE** | **Ganesan S** | Ganesan S, Kabilan K, Naveenkumar R, Mothiram Sri B |
| 19 | **Solid Waste/ Bio-waste/ E-waste** | How might we design a cost-effective, compact, and user-friendly device to help households easily segregate wet and dry waste, improving source segregation, recycling efficiency, and reducing environmental impact at the ward | NMNTSTD95080116 | Four Us S | **AVELINE SARAH D** | **ECE** | **Seethalakshmi B** | Seethalakshmi B, Sruthi B S, Sakthi C G, Santhiya P |
| 20 | **Solid Waste/ Bio-waste/ E-waste** | How might we design a cost-effective, compact, and user-friendly device to help households easily segregate wet and dry waste, improving source segregation, recycling efficiency, and reducing environmental impact at the ward | NMNTSTD95080143 | SSSP | **IRIN DORATHY P E** | **ECE** | **Sri sakthi priya C** | Sri sakthi priya C, Parvathy Saranya S, Shrinivetha P, Suvena S |
| 21 | **Solid Waste/ Bio-waste/ E-waste** | How might we develop a sustainable solution to reuse or recycle scrap generated in the rubber industry (such as from manufacturers of caskets, bushes, and other rubber components) to minimize waste and promote resource | NMNTSTD95080196 | Glowing Gems | **ANUSHA PADMAVATHY R** | **ECE** | **RAMA KRISHNAN G** | RAMA KRISHNAN G, SABARIGIRIVASAN K R, NITHISH P, SEENIVASAN T |
| 22 | **Solid Waste/ Bio-waste/ E-waste** | How might we design a system to monitor and track the illegal disposal of meat waste, particularly incidents of cross-border dumping? The solution should help prevent these activities, enable tracking of waste disposal post-seizure by local authorities, and ensure prompt | NMNTSTD95080238 | Niral Nayagigal | **IRIN DORATHY P E** | **ECE** | **Dharsana T S** | Dharsana T S, Abinaya K, Balkees A, Mahalakshmi M |
| 23 | **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 | NMNTSTD95080091 | KKK | **RAMANI G** | **ECE** | **KALAIMATHI A** | KALAIMATHI A, KARTHIKA V, KAVIYASRI S |
| 24 | **Rural & Urban development/ Manufacturing/ Engineering** | 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 | NMNTSTD9508005 | CORE FOUR | **B PARAMASIVAM** | **EEE** | **Arun Ganeshan V** | Arun Ganeshan V, Aravind A, Litta Janet S, Keerthana S |

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| 25 | **Rural & Urban development/ Manufacturing/ Engineering** | 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 | NMNTSTD95080105 | Hydro masters | **B PARAMASIVAM** | **EEE** | **Vignesh M** | Vignesh M, Gowtham B, Mahalakshmi Sajena K, Naveen N |
| 26 | **Solid Waste/ Bio-waste/ E-waste** | How might we implement an automated solid waste management system to detect when drainage in a street remains uncleaned beyond a threshold period and promptly alert the district administration? This solution could utilize IoT sensors, AI- driven monitoring, or real-time data analytics to ensure timely intervention, | NMNTSTD9508034 | Electrolite | **DR SUBHA KARUVELAM P** | **EEE** | **Ramar P** | Ramar P, Surendar S S, Subasree M , Swathi M |
| 27 | **Clean, Green & Renewable Energy** | How might we develop a system where the temperature and humidity of perishable goods be monitored during transportation and storage to ensure product quality and minimize spoilage | NMNTSTD95080081 | Team Mechanical | **ARAVINTH R** | **MECH** | **ARUL SELVA JAYA SURYA** | ARUL SELVA JAYA SURYA , Babith ML, Munusamy T, Sri Harish SA |
| 28 | **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 | NMNTSTD95080053 | AUTOBOTS | **D JEBAKANI** | **MECH** | **Arun Kumar J** | Arun Kumar J, Anis Britto V, Adhi Chandru V, Dhanush M |
| 29 | **Rural & Urban development/ Manufacturing/ Engineering Technology** | How might we design an effective safety mechanism using proximity sensors with alarm systems to prevent children from falling into uncovered borewell holes/ open drainage pits, addressing this recurring and critical safety concern? This technology should detect | NMNTSTD95080270 | BRIGHT MINDS | **PONRAJ P** | **MECH** | **S MUTHU VENKADESH** | S MUTHU VENKADESH, S THARIQ, B VINOTH KUMAR, R S CHITHESH |