

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING

(An Autonomous Institution) Kalavakkam – 603 110

ACADEMICS

4.1 Applied learning for sustainability program

Submitted to

The Sustainability Tracking, Assessment & Rating System (STARS)

4.1 Applied learning for sustainability program

• List or sample of currently active/available applied learning or living laboratory experiences for students that address sustainability challenges

Following are the areas of institutional infrastructure and operations does SSN uses in teaching students about the topics of sustainability:

1. Students have completed research projects funded by the management related to Sustainability in the following areas.

Buildings:

Feasibility and sustainability of M-sand waste as an alternate for brick manufacturing

Study on the mechanical properties of concrete with silicon carbide waste as partial replacement of aggregate.

Energy:

Design and fabrication of low-cost solar powered electric vehicle.

Grounds:

Development of a sustainable auger

Transportation:

SSN-Indoor Navigation system

Water:

Removal of fluoride from water using a neo surface textured bio-sorbent.

Optimization of operational parameters for the adsorption of phosphates and nitrates from water to sustainably activate carbon.

Waste:

Design and fabrication of membrane bioreactor for the management of wastewater.

Pyrolysis of waste plastics into fuel.

Campus engagement:

Solar based charging station for E vehicles

Solar powered cell phone charging station

2. The events like seminar & national were organised for students as applied learnings for sustainability.

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING KALAVAKKAM-603110

EEE - PG STUDENT PROJECTS

S.	Name and Year of the	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
No	Student(s)				
1	Raghul. R	Dr. V. Rajini	Sensor-less Control of Permanent	11 Months	Budget: Rs.28000
	II year		Magnet Motor for Enhanced Electric		
			Vehicle Performance		Items Approved:
					1. BLDC Motor
					2. PCB Fabrication
					3. Electrical Items
					4. Miscellaneous



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EEE - UG STUDENT PROJECTS

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	Vedha Varrshini. J Sreyasi. S II year	Dr. V. Rajini	Design and analysis of Axial flux motor drives for electric two wheeler application	12 Months	Items Approved: 1. Hub Motor Fabrication 2. Miscellaneous
2	Nehasri. H Sornaharini. D II year	Dr. V.S. Nagarajan	Design and analysis of Inset Permanent Magnet motor drives for energy efficient Ceiling Fan application	18 Months	Budget: Rs.30000 Items Approved: 1. Permanent Magnet Inset Motor 2. Miscellaneous
3	Shreyas Y Subramanian III year Sakthi Santosh C Santhosh G S IV year	Dr. V.S. Nagarajan	Design and comparative evaluation of Less Permanent Magnet/Magnet-less motor drives for Cargo Bike application	12 Months	Budget: Rs.29000 Items Approved: 1. Outer Rotor Hub Fabrication 2. Inner Stator Fabrication 3. Permanent Magnets 4. Miscellaneous



4	Poojashri K M Radha Rukmani V Yuva Prasath S II year	Dr. V.S. Nagarajan	Design and Development of High Efficiency Induction Motor for Air Conditioning Application	18 Months	Budget: Rs.29000 Items Approved: 1. Compressor System 2. Optimized Induction Motor 3. Miscellaneous
5	Sai Kanna R Raymond Jude Harini Sree V S Saraswathy T D III year	Dr. K. Usha	IoT-based Battery and PMSM Monitoring System	12 Months	Budget: Rs.26000 Items Approved: 1. Arduino UNO 2. Electrical Components 3. Miscellaneous
6	Krishnapriya S Komal Y Vishnuvarshini R II year	Dr. Arun Ramaveerapathiran	Development of Transmission Line Fault Detection System	12 Months	Budget: Rs.7500 Items Approved: 1. Arduino Nano 2. Electrical Components 3. Miscellaneous
7	Indhuja S K Arini R S M III year	Dr. V. Thiyagarajan	IoT Based IV Pole Monitoring System	12 Months	Budget: Rs.25000 Items Approved: 1. Strain Gauge Load Cell 2. SMPS 3. Arduino Controller 4. Electrical Components 5. Miscellaneous



8	Deepti K Manasa K III year	Dr. R. Seyezhai	Efficient Solar-based Energy Harvesting with Supercapacitor for IoT Devices	12 Months	Budget: Rs.23000 Items Approved: 1. PV Panel 2. MOSFET 3. Electrical Components 4. Miscellaneous
9	A. Harish M. Karthic Thangam A. Muthukumar IV year R B Alagar Karthick II year	Dr. R. Ramaprabha	Implementation of Adjustable Gain Three Port Converter Microgrid System	7 Months	Budget: Rs.23000 Items Approved: 1. IGBT 2. Electrical Components 3. Miscellaneous
10	Sa. Viswavardhinii Shrikar S Vivekanath N M Pragadeesh M Sajanitha R III year	Dr. G.R. Venkatakrishnan	Energy Theft and defective Meter Detection	24 Months	Budget: Rs.18000 Items Approved: 1. MEGA2560 Controller Board 2. Electrical Components 3. Miscellaneous
11	Vaduhammal V IV year Parameshwaran R Sanjay M S III year	Dr. V. Thiyagarajan	Design and Implementation of Reduced Voltage Stress Asymmetrical Multilevel Inverter with Optimal Components	12 Months	Budget: Rs.18000 Items Approved: 1. Power Switches 2. Driver Circuits 3. Controller Circuit 4. Electrical Components 5. Miscellaneous



12	Dhanush Priya S Gunali T Kaarventhan II year	Dr. K. K. Nagarajan	Smart Farming using IoT and AI	12 Months	Budget: Rs.25000 Items Approved: 1. Raspberry Pi 2. Sensors 3. Electrical Components 4. Miscellaneous
13	Aathiswari M Aswin S Deepika M III year	Dr. R. Ramaprabha	Implementation of Non-Isolated Single-Phased Quadratic Switched- Boost Inverter with Step-Up Inversion Capability	16 Months	Budget: Rs.25000 Items Approved: 1. IGBT 2. Electrical Components 3. Arduino Mega Kit 4. Miscellaneous
14	Rajamithra K Renuka B Rashmika V III year	Dr. R. Ramaprabha	Development of Soldier Vest for Enhanced Military Performance and Safety	16 Months	Budget: Rs.13000 Items Approved: 1. Arduino Mega Kit 2. Sensors 3. Electrical Components 4. GPS Module 5. Miscellaneous
15	C Sneka IV year L Anshul K Vishnuvarthan II year	Dr. V. Thiyagarajan	A Pencil Shaped Multilevel Inverter with Voltage Boosting Ability for Electric Vehicle Applications	12 Months	Budget: Rs.18000 Items Approved: 1. MOSFET 2. IGBT



					3. Arduino Controller4. Electrical Components5. Miscellaneous
16	Anbu Sucitra. S Harini. M K. Harini Shri Illakkiya. A.K II year	Dr. Sajjan Kumar EEE Dr. Sachin Sarate BME	IoT based Smart Cardiac Health Monitoring System for Remote Area Applications	18 Months	Budget: Rs.10000 Items Approved: 1. Arduino Board 2. Sensors 3. Electrical Components 4. Miscellaneous
17	Sam Infant Jude Varshini S Sri Vidhya J III year	Dr. M. Balaji	Smart Traffic management System for Emergency Vehicle Using Internet of Things (IoT)	9 Months	Budget: Rs.12000 Items Approved: 1. Microcontroller 2. RFID Reader 3. Electrical Components 4. Sensor 5. Miscellaneous
18	Ariharasudhan A Asvikaa KMR Jeyakkavi M II year	Dr. U. Shajith Ali	IoT-based Smart Traffic Management System with an Integrated Speed Controller for E- Vehicles	18 Months	Budget: Rs.20000 Items Approved: 1. Camera 2. IoT Communication Module 3. Arduino 4. GPS Module 5. Electrical Components 6. Miscellaneous



19	Viswesh T Esha Agnes Kayalvizhi A M II year	Dr. P. Saravanan	Development of Electric Vehicle System for Patient Mobility	12 Months	Budget: Rs.20000 Items Approved: 1. Battery & Charger 2. STM/FPGA 3. GPS Module 4. Electrical Components 5. Miscellaneous
20	Mandati Sai Sudhir K Mohamed Anas S II year Suvathi Priya J S III year	Dr. G.R. Venkatakrishnan	Smart College Bus Management System	12 Months	Budget: Rs.25000 Items Approved: 1. Raspberry Pi 2. GPS Module 3. Electrical Components 4. Miscellaneous
21	Mahalakshmi. R Mahalakshmi. S Sriram. S II year	Dr. R. Rengaraj	Smart Car System	24 Months	Budget: Rs.28000 Items Approved: 1. Raspberry Pi 2. Radar Sensor 3. Electrical Components 4. Miscellaneous



22	Shyam Sainarayanan Varadharajan Sachin Rangabaskar S. Monish Kumar Dheva. S.L. II year	Dr. M. Balaji	Smart Automated Reservoir Management for Optimal Irrigation and Flood Control	12 Months	Budget: Rs.23000 Items Approved: 1. Sensors 2. Arduino UNO 3. Electrical Components 4. Miscellaneous
23	Smithaa. S S. Sai Likhitha Tejaswini Sriharini. K Saimugil. R III year	Dr. R. Seyezhai	Implementation of Solar Homesteads for Rural Electrification	12 Months	Budget: Rs.28000 Items Approved: 1. PV Panel 2. Battery 3. Electrical Components 4. Miscellaneous



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ECE - UG STUDENT PROJECTS

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	Shri Dharshini S Manickam P A III Year	Dr. P. Vijayalakshmi	Speech enabled help desk	12 months	Budget: Rs.23000 Items Approved: 1. Raspberry Pi 2. LCD HD Display 3. Electronic Components 4. Miscellaneous
2	Biancaa R Rachel Tania A Rupadharshini R II year	Dr. A. Jawahar	Forewarning of Goat diseases diagnosis using IoMT to improve the productivity and economy of small and big farming	12 months	Budget: Rs.18000 Items Approved: 1. Raspberry Pi 2. Sensors 3. Electronic Components 4. Miscellaneous
3	K Harish Balaji B Pragdeesh T sudhakaran III year	Dr. A. Jawahar	Remote water quality monitoring and alert system	15 months	Budget: Rs.30000 Items Approved: 1. Industry Garde Water EC Sensor 2. Miscellaneous



4	Chanakya R Indra SS Leka K II year	Dr. N. Edna Elizabeth	Unclouded vision – Integrated Eye Stress Management system	12 months	Budget: Rs.14000 Items Approved: 1. Sensors 2. Battery 3. Arduino Board 4. Electronic Components 5. Miscellaneous
5	Sowmika D Sirisha R N Anamika Arivu II Year	Dr. K. Muthumeenakshi	Smart optical nano sensor for copper detection in aqueous media	12 months	Budget: Rs.18000 Items Approved: 1. Glasswares 2. Characterization 3. Electronic Components 4. Miscellaneous
6	Kavya S Mirthulaa Shree P Dharshini SS II year	Dr. S. Hanis	Automated testing of product defect in textile industry using machine learning	24 months	Budget: Rs.26000 Items Approved: 1. Cloud Storage 2. Deep Learning VM Images 3. AutoML Vision 4. Electronic Components 5. Miscellaneous



7	Pranathi S Rupasree V Vishnu Rajhan M N II year	Dr. P. Kaythry	Sustainable Weather Monitoring and Auto-irrigation system for smart rooftop gardening	12 months	Budget: Rs.14000 Items Approved: 1. Raspberry Pi 2. Sensors 3. Solar Panels 4. Electronic Components 5. Miscellaneous
8	Manoj M R Mukund R Padmapriya V III year	Dr. B. Sakthi Abirami	RF sensor for precise monitoring of moisture and nutrients in agriculture	24 months	Budget: Rs.16000 Items Approved: 1. Sensor Fabrication 2. Microcontroller 3. Electronic Components 4. Miscellaneous
9	Justin Benito B Tharun Karthikeyan S Poojitha Shree II year	Dr. S. Karthie	Efficient Vehicle Management system using Automatic number plate recognition (ANPR)	12 months	Budget: Rs.20000 Items Approved: 1. REES52 Camera 2. Raspberry Pi 3. GSM Module 4. Electronic Components 5. Miscellaneous



10	Karun Pias Aro S Kishore L II year	Dr. G. Durga	Develop a system to detect objects behind steel wall	18 months	Budget: Rs.23000 Items Approved: 1. Signal Processing Unit 2. Amplification Unit 3. Electronic Components 4. Miscellaneous
11	Anusha M Aislin Joye Anumeha R II year	Dr. R. Amutha	IoT based smart granary monitoring system	10 months	Budget: Rs.17000 Items Approved: 1. Raspberry Pi 2. Sensors 3. 3D Printing 4. Electronic Components 5. Miscellaneous
12	Nasreen D Niveditha S III year	Dr. N. Edna Elizabeth	Contactless charging of mobile phones using RFID	12 months	Budget: Rs.8000 Items Approved: 1. RFID Card Reader 2. Electronic Components 3. Miscellaneous
13	Bandaru Kundana Sri Chinmaiyee V Divya Jha II year	Dr. P. Kaythry	Safety for paragliders based on atmospheric pressure prediction and monitoring using IOT	12 months	Budget: Rs.15000 Items Approved: 1. Raspberry Pi 2. Powerbank 3. Electronic Components 4. Miscellaneous



14	Revan Kumar Kirubakaran Sanjay Chandran Shivayogesh J II Year	Dr. W. Jino Hans	Extraction of information from curved surfaces using computer vision-Techniques	12 months	Budget: Rs.8000 Items Approved: 1. Pi Camera 2. LED Display 3. Electronic Components 4. Miscellaneous
15	Aruna K Padmaja R Swetha S V II Year	Dr. R. Kishore	Charging IoT devices using footsteps	12 months	Budget: Rs.7500 Items Approved: 1. Arduino UNO 2. Battery 3. Sensors 4. Electronic Components 5. Miscellaneous
16	Krupanidhi Dwibashini Shruti Chandrasekar Shweatha B	Dr. C. Vinoth Kumar	AI-based Leaf Disease Identification using IoT	18 months	Budget: Rs.10000 Items Approved: 1. Arduino UNO 2. ESP32 Camera 3. Electronic Components 4. Miscellaneous



17	Haritha J Aarthi R Vinodhini R III year	Dr. M. P. Actlin Jeeva	Lombard speech synthesize for PA systems	12 months	Budget: Rs.23000 Items Approved: 1. Raspberry Pi 2. LCD Display 3. Electronic Components 4. Miscellaneous
18	Aravinth K Sri sai Niranjan N II year	Dr. R. Hemalatha	A Tiny ML based solution for smart agriculture	12 months	Budget: Rs.23000 Items Approved: 1. WIO Terminal 2. Sensors 3. Electronic Components 4. Miscellaneous
19	Kethanaa W V Nishanthini J Sukeerthi S II year	Dr. P. Kaythry	Adaptive Traffic system based on traffic density (IoT Domain)	10 months	Budget: Rs.12000 Items Approved: 1. Raspberry Pi 2. Battery Pack 3. Sensors 4. Electronic Components 5. Miscellaneous
20	Gopinath M Haricharan B Joshua Daniel III year	Dr. B. Ramani	Handwritten mathematical expression recognition from video lectures	12 months	Budget: Rs.7000 Items Approved: 1. Wacom CTL 2. Electronic Components 3. Miscellaneous



21	Arvindh TE Karthikeyan J Sivabharathi M II year	Dr. B. Partibane	An IOT enabled smart farming system to maximise farmer's yield	12 months	Budget: Rs.22000 Items Approved: 1. Arduino UNO 2. WiFi Module 3. Battery 4. Electronic Components 5. Sensors 6. Miscellaneous
22	Cristen G Kavin R B Aswinraghav G III year	Dr. S. Aasha Nandhini	Edge based video surveillance system for Anomaly Detection	12 months	Budget: Rs.12000 Items Approved: 1. Raspberry Pi 2. Web Camera 3. Electronic Components 4. Miscellaneous
23	Gracia G Karthayani T. S II year	Dr. M. Anbuselvi	Sensors enabled assistive systems	10 months	Budget: Rs.22000 Items Approved: 1. Skin Sensor Module 2. Sensors 3. Electronic Components 4. Miscellaneous



24	M M Bharath Ram R. Gokulakrishnan Karthik Raju R D III Year	Dr. R. Rajavel	Electrical Fault Diagnosis of industrial machines	12 months	Budget: Rs.30000 Items Approved: 1. Induction Motor 2. Raspberry Pi 3. Sensor Module 4. Electronic Components 5. Miscellaneous
25	Aswin Dava A Ashiq S Harshavardan S II year	Dr. M. P. Actlin Jeeva	Personalised Synthetic voice communication tool	12 months	Budget: Rs.19000 Items Approved: 1. Raspberry Pi 2. LCD Display 3. Electronic Components 4. Miscellaneous
26	K. Vijay Balachandar V. Tarun III year	Dr. S. Sakthivel Murugan	Hybrid underwater energy harvesting system using ocean water and solar cell	18 months	Budget: Rs.25000 Items Approved: 1. Electrodes 2. Chemicals 3. Stack Galvanic Cell 4. Polycrystalline Solar Cells 5. Miscellaneous



27	Madhan V Sivaprasath S Harshini J II Year	Dr. K. J. Jegadish kumar	IOT-Based smart aquarium	12 months	Budget: Rs.10000 Items Approved: 1. Arduino Mega 2560 2. ESP Module 3. Sensors 4. Electronic Components 5. Miscellaneous
28	Srivatsan M Yuvan M Masimukku Srinivasa Poojith	Dr. R. Rajavel	Smart Parking system using Lorawan	12 months	Budget: Rs.23000 Items Approved: 1. Sensors 2. Gateway Module 3. Electronic Components 4. Raspberry Pi 5. Miscellaneous
29	Kirthika G Shreejeevan C Pavithra S	Dr. K. J. Jegadish Kumar	Wireless RF Energy Harvesting using 5G antenna	18 months	Budget: Rs.12000 Items Approved: 1. Fabrication 2. Substrate 3. SMA Connector 4. Electronic Components 5. Miscellaneous



30	Pugazhendhi K Kavin Rengasamy T Jagadish Prasanna T A II Year	Dr. R. Rajavel	An image descriptor for visually challenged people	12 months	Budget: Rs.21000 Items Approved: 1. Raspberry Pi 2. Camera Module & SD Card 3. Electronic Components 4. Miscellaneous
31	Jeevanandham R Jayaprakash K Kalaiselvi K II year	Dr. N. Edna Elizabeth	Pollution monitoring and detection in green campus (SSNCE) using IOT through APP development	12 months	Budget: Rs.11000 Items Approved: 1. Raspberry Pi 2. Power Source 3. SD Card 4. Electronic Components 5. Miscellaneous
32	S. Nisha Nethraa M Pranav IV year	Dr. S. Sakthivel Murugan	Enhancement and Restoration of blurred underwater images	18 months	Budget: Rs.28000 Items Approved: 1. Underwater Camera 2. Miscellaneous
33	Kaaviya E Kavinshree P Yhokesh D II year	Dr. K. Muthumeenakshi	Energy Consumption Prediction using machine Learning	12 months	Budget: Rs.10000 Items Approved: 1. WiFi and Bluetooth Module 2. Sensors 3. Electronic Components 4. Miscellaneous



34	A. Sreenivas	Dr. N. Edna Elizabeth	Contactless doorbell using IOT	12 months	Budget: Rs.9000
	M. Siva Prasath				
	R. Rohith				Items Approved:
					1. Raspberry Pi
					2. Camera Module
					3. Sensors
					4. Electronic Components
					5. Miscellaneous



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CSE - UG STUDENT PROJECTS

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	Prithivirajan D Rishab S Tarunraj R II year	Dr. K.R. Sarath Chandran	Gesture Controlled Smart Suitcase	12 Months	Budget: Rs.20000 Items Approved: 1. Raspberry Pi 2. USB Camera 3. Electronic Components 4. Miscellaneous
2	Apurva Narayan Olirva M Charumathi P III year	Dr. K.R. Sarath Chandran	Prototyping a Graph-Based Approach for Efficient Vehicle Tracking in a Cluster Controlled CCTV Surveillance systems	12 Months	Budget: Rs.23000 Items Approved: 1. Raspberry Pi 2. Electronic Components 3. Miscellaneous
3	Rohith Arumugam S Samah Syed Muhammed Aadhil A Abishna A Mathavaroopan S II year	Dr. V. Balasubramanian	Smart Power Consumption Monitoring System	12 Months	Budget: Rs.18000 Items Approved: 1. Sensors 2. Router 3. Cloud Clusters 4. Electronic Components 5. Miscellaneous



4	Srivathsan S Harikumar G Rajesh G II year	Dr. K. R. Sarath Chandran	Wall Cleaning Robot For High Rise Building	12 Months	Budget: Rs.23000 Items Approved: 1. Raspberry Pi 2. Arduino Board 3. Electronic Components 4. Miscellaneous
5	Vaidhegi D Rajasekar Srilakshmisai K Sruthi R III year	Dr. S. Rajalakshmi	Speech-Enabled Server Robots for Restaurants	12 Months	Budget: Rs. 27000 Items Approved: 1. Raspberry Pi 2. Sensors 3. Battery 4. Electronic Components 5. Miscellaneous
6	Dharunika S Hemalatha R Vishnu Praba A J Vijay Srinivas S II year	Dr. S. Angel Deborah	Detection of Dust on High-rise Building Glass Walls and Visualization using Quadcopter	12 Months	Budget: Rs.25000 Items Approved: 1. HD Camera 2. Raspberry Pi 3. Electronic Components 4. Miscellaneous
7	Raghul Yadhav K III year Harine Cellam N S Nandhine A II year	Dr. K.R. Sarath Chandran	VR System for Interior Design	12 Months	Budget: Rs.32000 Items Approved: 1. VR Headset 2. Miscellaneous



8	Ranjit Kumar G II year Dilfina D III year	Dr. S. Angel Deborah	AI-Enabled Smart Irrigation System for Precision Farming and Water Resource Management	12 Months	Budget: Rs.28000 Items Approved: 1. Sensors 2. Driver Board 3. Electronic Components 4. Miscellaneous
9	Sitaraman A Nikhil Narayanan S Anandharaj D Hannah II year	Dr. S. V. Jansi Rani	IoT based Water Quality Monitoring System for Aquaculture	12 Months	Budget: Rs.24000 Items Approved: 1. Sensors 2. Raspberry Pi 3. Electronic Components 4. Miscellaneous
10	Rohan Ravi Kumar Aswathy AR Shaun Allam H V Vijay Karthick II year	Dr. K.R. Sarath Chandran	Smart Automatic Windshield Wiper with Dust Detection	12 Months	Budget: Rs.21000 Items Approved: 1. Raspberry Pi 2. Pi Camera 3. Electronic Components 4. Miscellaneous



11	S Jagrath Mithun K Harish Deepak M II year	Dr. T. T. Mirnalinee	Navigation System for Vertical Glass Cleaning Robot	12 Months	Budget: Rs.24000 Items Approved: 1. Stepper Motor 2. Arduino UNO 3. Raspberry Pi 4. Electronic Components 5. Miscellaneous
12	Nandhalal S Prashanna Kumar S Micheal Berdinanth M Pranav CM II year	Ms. S. Lakshmi Priya	Smart Vehicle Security and safety System: Integration of Theft Detection and Accident Control	12 Months	Budget: Rs.15000 Items Approved: 1. Raspberry Pi 2. GSM Module 3. Sensors 4. Electronic Components 5. Miscellaneous
13	Abhishek Reddy Lingareddy Akshatha Anbalagan Niranjana A Shreedevi Seluka Balaji II year	Dr. S. Angel Deborah	Smart Brailee Transcriber	12 Months	Budget: Rs.20000 Items Approved: 1. Raspberry Pi 2. Batteries 3. Electronic Components 4. Actuators 5. Miscellaneous



14	B Saathvik Nikilesh Jayaguptha Abhishek K R II year	Dr. D. Thenmozhi	Automated Drug Dispensing Machine based on IoT and Image Processing	12 Months	Budget: Rs.14000 Items Approved: 1. Raspberry Pi 2. Stepper Motor 3. Electronic Components 4. Miscellaneous
15	Sanjay M Krithika M II year Kevin John Daniel III year	Dr. T.T. Mirnalinee	3D Printer	12 Months	Budget: Rs.32000 Items Approved: 1. Sensors 2. Stepper Motors 3. Control Board 4. Electronic Components 5. Miscellaneous
16	Shankari S R Kowshika S Keerthana K Keerthana. G. S II year	Dr. T.T. Mirnalinee	Intelligent Robotic Arm for Recognition and Object Picking	12 Months	Budget: Rs.25000 Items Approved: 1. Sensors 2. Raspberry Pi 3. Pi Camera 4. Electronic Components 5. Miscellaneous



17	Sanjivan K.P B. Vansari Vignesh III year Anierudh HS Tharunithi TJ II year	Dr. P. Mirunalini	Remaining Discharge Time Prediction For EV Batteries	15 Months	Budget: Rs.20000 Items Approved: 1. Electric Drive 2. Battery Pack 3. Charger 4. Electronic Components 5. Miscellaneous
18	Varun S. Roshan IV year Harsh Pratap Singh Charan Balakrishnan Dhinesh Ram K	Dr. S. Angel Deborah	Red Weevil detection using sound detection	10 Months	Budget: Rs.22000 Items Approved: 1. Raspberry Pi 2. Wireless Microphone 3. Electronic Components 4. Miscellaneous
19	Krithik Sathya M Aasish M Fabrizio J Naveed Buhari III year	Dr. B. Prabavathy	Human Following Smart Trolley With Barcode Scanner	12 Months	Budget: Rs.12000 Items Approved: 1. Arduino UNO 2. Sensors 3. Electronic Components 4. Miscellaneous



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IT - UG STUDENT PROJECTS

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	Adharsh Gurudev V Eraiyanbu P Harini V Harish R M Kanitha S A III year	Dr. Aravindan Chandrabose	Smart Tamil Text Input Method For Android Systems	12 Months	Budget: Rs.25000 Items Approved: 1. Tablet 2. Miscellaneous
2	Naila Nuhmam Priyamvadha Pradeep Sanjeevini R Vasundhara B III year	Dr. A. Shahina	Analysing Tremors and Gait Patterns For Early Detection of Motor Disorder Symptoms in Neurodegenerative Disease	24 Months	Budget: Rs.24000 Items Approved: 1. Bluetooth Accelerometer 2. Drawing Monitor 3. Electronic Components 4. Miscellaneous
3	Padmapriya C Madhukrishaa N K II year	Dr. K. S. Gayathri	Autonomous Delivery Robot	18 Months	Budget: Rs.30000 Items Approved: 1. Raspberry Pi 2. Web Camera 3. GPS Module 4. Fabrication 5. Electronic Components 6. Miscellaneous



4	Amitoj Singh Harsh Bansal Neha Sharma Mohammad Rayyan III year	Dr. K. S Gayathri	AI-based Career Counselling	12 Months	Budget: Rs.10000 Items Approved: 1. SQL Database 2. Domain Registration 3. Miscellaneous
5	Annu G Apoorva A Farha Afreen III year	Dr. N. Radha	Hate Speech Detection Using Machine Learning	8 Months	Budget: Rs.9000 Items Approved: 1. Wireless Camera 2. Microphone 3. Miscellaneous
6	Prithik N Purushothaman Vemula Muni Karthik Vijaymurugan N	Dr. Bhalaji Natarajan	AgriChain	24 Months	Budget: Rs.18000 Items Approved: 1. Sensors 2. Camera 3. Electronic Components 4. Miscellaneous
7	Dunya Syed Hassan Ritujaa B Tanushree Panneer Selvam Mohit Sandeep II year	Dr. K. S. Gayathri	Drowsiness Detection and Alarm System Using Image Processing and Deep Learning	12 Months	Budget: Rs.15000 Items Approved: 1. Raspberry Pi 2. LCD Display 3. SD Card 4. Electronic Components 5. Miscellaneous



8	Varsha Vijay Sindhujaa Illangovan Shreyaa S Preethi Prative II Year	Dr. I. Joe Louis Paul	LIDAR-Based Road Surface Anomaly Detection: Speed Bumps and Potholes	18 Months	Budget: Rs.21000 Items Approved: 1. LIDAR 2. Arduino Mega 2560 3. GPS Module 4. Electronic Components 5. Miscellaneous
9	Ashwin Kumar S Sundaresh Karthic Ganesan II year	Dr. E. Suganya	Smart Mental Health Identifier	9 Months	Budget: Rs.3000 Items Approved: 1. Google Colab 2. Cloud Storage 3. Miscellaneous
10	Atchaya R Priyadharshini R Keerthana N II year	Dr. E. Suganya	Train Your Brain For Autism Children	12 Months	Budget: Rs.5000 Items Approved: 1. Domain 2. Cloud VPS 3. Miscellaneous
11	Singaram P L Thejesswini B Piriyadharshini A II year	Dr. K. S. Gayathri	GameElevate: Evaluating Badminton Player's Performance Using Deep Reinforcement Learning	18 Months	Budget: Rs.13000 Items Approved: 1. Legend Sports 16 MP – Action Camera 2. Miscellaneous



12	Balasubramaniam H Nandana M Thomas Jones Kevin J F Athish Pranav H H II year	Dr. K. S. Gayathri	AI-Enhanced Road Safety App for Wet Conditions	18 Months	Budget: Rs.12000 Items Approved: 1. Sensors 2. Arduino Set 3. Electronic Components 4. Miscellaneous
13	Neha Shanmitha Soundharya Y Tamil Mughilan II year	Dr. P. Vasuki	Design and Construction of a Smart Shoe for the Visually Impaired	12 Months	Budget: Rs.18000 Items Approved: 1. Shoe 2. Crystals 3. Microcontroller 4. GPS Module 5. Electronic Components 6. Miscellaneous
14	Subhalakshmi Chellakumar Srinivasan R Jaya Yayadhi IV year Induja M C III year	Dr. R. Swathika	Smart Bin Using Deep Learning and IoT	8 Months	Budget: Rs.12000 Items Approved: 1. Raspberry Pi 2. Pi Camera 3. Sensors 4. Electronic Components 5. Miscellaneous



15	Parthiban D Sriram J IV year Srujana Srinivasan Thanuja A III year	Dr. R. Swathika	Distress Detection and Pavement crack classification using Deep Learning for Road Safety	8 Months	Budget: Rs.16000 Items Approved: 1. Digital Camera 2. Wall Mount 3. Miscellaneous
16	Abdullah Yassir A Ashuwin P Bharath P Lewin Jesudhas H II year	Dr. E. Suganya	Gamified Approach to Develop Values and Life Skills in Children	12 Months	Budget: Rs.5000 Items Approved: 1. Domain 2. Cloud VPS 3. Miscellaneous
17	Hari Hara Sudhan R Kishore P Srinivas S Yuthika Anvitha S II year	Dr. R. Swathika	Scholar Commute Aid	14 Months	Budget: Rs.14000 Items Approved: 1. Raspberry Pi 2. Camera Module 3. Google Cloud Storage 4. Miscellaneous
18	Swetha K V Sudhiksha N B II year	Dr. S. Mohanavalli	Student Information Management System	18 Months	Budget: Rs.10000 Items Approved: 1. AWS Cloud 2. Miscellaneous



19	Shanjay Athithya G Vignesh M Saravanan B Saravanan K II year	Dr. R. Swathika	Identification of Unknown Person Entering into Hostel Using Facial Recognition	15 Months	Budget: Rs.19000 Items Approved: 1. Wireless Camera 2. Cable 3. Miscellaneous
20	Karunanudhi Ayyamperumal Kathir Kaman A Kaushik Ananth Kumar S II year	Dr. N. Sripriya	Safety Enhancement Using Helmet & Number Plate Detection	12 Months	Budget: Rs.18000 Items Approved: 1. Raspberry Pi 2. Camera 3. Miscellaneous
21	Aravind J Dhanush A Henry J M II Year	Dr. E. Suganya	Gatepass Management System	18 Months	Budget: Rs.17000 Items Approved: 1. Domain 2. Cloud VPS 3. Miscellaneous



SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING KALAVAKKAM-603110

MECHANICAL - PG STUDENT PROJECTS

S.		Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
No	Student(s)				
1	S. Sasidharan II Year	Dr. L. Poovazhagan	Design and experimental analysis of metal oxide based nanorods for	6 Months	Budget: Rs.10000
			piezoelectric accelerometer applications		Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous



SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING KALAVAKKAM-603110

MECHANICAL - UG STUDENT PROJECTS

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	Jagathratchagan S Jenis Juden J Sanjay K Mega V III year	Dr. K. S. Jayakumar	Design and development of twin module flow sewing machine	18 months	Budget: Rs.25000 Items Approved: 1. Fabrication 2. Motors 3. Power Manager Module 4. Miscellaneous
2	Kaniska N S Muthurajalakshmi P II year	Dr. S. Santosh Dr. R. Subashini (BME)	Fabrication, processing and biocompatibility studies on novel NiTiCuCo quaternary shape memory alloys	12 months	Budget: Rs.30000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
3	Aniruth Sridhar S Jaganathan S Arul Thiagarajan III year	Dr. R. Vimal Samsingh	Applications of LiDAR point cloud processing in assessment of textural damage in structural monitoring	16 months	Budget: Rs.25000 Items Approved: 1. Sensor 2. Raspberry Pi 3. Miscellaneous



4	Jobbren Xavier B Kishorekumar S II year	Dr. S. S. Mani Prabu	Non-contact actuation of shape memory alloys using induction heating method	12 months	Budget: Rs.28000 Items Approved: 1. SMA Spring 2. Induction Unit 3. Miscellaneous
5	Amritha Sudhakar Akshath Bala K S Keerthi A V R Balasubramaniam K S II year	Dr. S. Santosh	Fabrication, processing and experimental investigation on formability limit diagram of titanium based shape memory alloys	12 months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
6	Hariharan S Jeyasurya Venkatraman II year	Dr. S. Santosh	Bio-inspired laser texture patterns for super hydrophobic applications	12 months	Budget: Rs.28000 Items Approved: 1. Induction Melting 2. Characterization 3. Laser Texture 4. Miscellaneous
7	Mohamed Javeed A Riteshsai Devarajan Sujith R N II year	Dr. S. Santosh	Hybrid multi-layered smart composites for enhanced ballistic protection	12 months	Budget: Rs.32000 Items Approved: 1. Consumables 2. Characterization 3. SMA Wires 4. Miscellaneous



8	Rahul Venkatesh Rithiq Roshan A H Sadha Sivam S Saravanan V II year	Dr. R. Vimal Samsingh	Magnetic field induced silica gel actuation for minimally invasive medical field endoscopy	16 months	Budget: Rs.25000 Items Approved: 1. Wireless Camera 2. Electromagnet 3. Miscellaneous
9	Krishnaa Sudhir Gauri Jayakrishnan Nair Kiruthika Vajjiravelu Madhumitha Chandrasekaran III year	Dr. G. Satheesh Kumar	Autonomous Chess piece for navigation on chess board	8 months	Budget: Rs.32000 Items Approved: 1. Raspberry Pi 2. Sensor 3. Power Bank 4. Batteries 5. 3D Printing 6. Miscellaneous
10	Shrithesh G Ezhilarasan E II year	Dr. R. Prakash	Synthesis and comparative study of biochar-based form-stable phase change materials for thermal management of buildings	12 months	Budget: Rs.32000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
11	Adhavan Suresh Anantha Narayanann R Anirudh Kriishnan A III year	Dr. G. Satheesh Kumar	Design and development of horizontal rope traversing robot	12 months	Budget: Rs.30000 Items Approved: 1. Robot Chassis 2. Fabrication 3. Motors and Drivers 4. Raspberry Pi 5. Miscellaneous



12	Shri Sabarish R S Vigneshwar A III year	Dr. M. S. Alphin	Development of small scale wind energy device	12 months	Budget: Rs.26000 Items Approved: 1. Carbon Fibre Vane 2. Magnetostrictive Strips 3. Carbon Fibre Disc 4. Miscellaneous
13	Saurabh Kumar Gupta Satish Narayan Singh Rajat Yadav R. Sarvesh	Dr. S. Suresh Kumar	Determination of corrosion fatigue crack growth and critical stress intensity factors of naval grade steel (DMR 249B)	1 Year	Budget: Rs.33000 Items Approved: 1. Base Plates 2. Sample Preparation 3. Consumables 4. Characterization 5. Miscellaneous
14	Sachith C Santosh Vignesh Pandian R IV year Vidhun S K Shreeth V II year	Dr. S. Santosh	Structural morphology and characterization of metal nitride coatings deposited on NiTiCo for cardiovascular stents via DC magnetron sputtering process	7 months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
15	Ashwin V Mohammed Mustafa A Monesh Kumar V A III year	Dr. A. S. Ramana	PCM based sustainable solar powered refrigeration system	12 months	Budget: Rs.28000 Items Approved: 1. Acrylic Sheet 2. Fabrication 3. Solar Panel 4. Consumables 5. Miscellaneous



16	Dharaneish M Kavyan G II year	Dr. R. Prakash	Preparation, characterization and investigation of phase change materials enhanced by MXene nanoparticles for thermal energy storage	12 months	Budget: Rs.32000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
17	Kiran V K Mithun Vashudev V R IV year Advaith Sudeep III year	Dr. G. Satheesh Kumar	Development of a glass wall cleaning robot using a tethered platform	8 months	Budget: Rs.32000 Items Approved: 1. Consumables 2. Fabrication 3. Robot Chassis 4. Raspberry Pi 5. Miscellaneous



CHEMICAL - UG STUDENT PROJECTS

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	Natarajan S Rajashri L M	Dr. R. Anantharaj	Esterification of Pentanol and Acetic Acid Using Low Cost Dual Solvent –	12 Months	Budget: Rs.28000
	Sathish Kumar K		Catalyst		Items Approved:
	III year				1. Consumables
					2. Characterization
	- 11 -				3. Miscellaneous
2	Subha B Krithya E	Dr. B. Chitra	Effect of Nano-bubbles on The removal of Emerging Contaminant From	12 Months	Budget: Rs.32000
	III year		Aqueous Solution using Sorptive-		Items Approved:
			flotation Process: Intermediates,		1. Consumables
			Pathways, and Toxicity Assessment		2. Characterization
					3. Flotation Column
					4. Pressure Pump
					5. Air Flow Meter
					6. Miscellaneous
3	Sudarsan R Kallki Selvan K N	Dr. R. Anantharaj	Decolorization of Industrial Effluents Using Deep Eutectic Solvent	8 Months	Budget: Rs.24000
	III year				Items Approved:
					1. Consumables
					2. Characterization
					3. Miscellaneous



4	Jeeva M K Sankamithra G J Sarumathi K Shanmugapriya J II year	Dr. B. Ambedkar	High Frequency (470kHz) Ultrasound-Assisted CO ₂ stripping: Process Intensification by Al ₂ O ₃ Nanoarticles	10 Months	Budget: Rs.24000 Items Approved: 1. Consumables 2. Gas Cylinder Refill 3. Miscellaneous
5	Krishnapriyaa M M Malavika K V Vaibavasri S III year	Dr. D. Gnana Prakash	Synthesis And Characterisation of Nanoscale Zero-Valent Iron Supported On UiO-99 (Zr-MOF) For The Removal Of Heavy Metals	12 Months	Budget: Rs.24000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
6	Gokul Kannan R Dinesh Kumar Smilin Blessy C II year	Dr. Anup Kundu	Wind Energy Harvesting By Piezoelectric Plate	8 Months	Budget: Rs.24000 Items Approved: 1. Fabrication 2. Electrical Circuits 3. Wind Tunnel 4. Miscellaneous
7	Giridaran S Bathrasri Kannan KT Roshan III year	Dr. Nalinkanth V Ghone	Synthesis of Dimethyl Carbonated From Sequestered CO ₂ in Clay Nanotubes	12 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous



8	Balan P Binathy J S Akshaya MC III year	Dr. A. Murugesan	Synthesis, Characterization, and Properties of Polycarbonate and Co- polycarbonates using Monomers Recovered from Plastic Waste via Polycondensation Method	12 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
9	S Kaushik Krishna K Lakshitha II year	Dr. K. Sathish Kumar	Removal of Heavy Metals With the Help of Activated Carbon Modified alginate Beads	12 Months	Budget: Rs.24000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
10	Ajitha R Harshada V Artesree N II year	Dr. R. Anantharaj	Extraction of Polyamide Plastic from their water using Deep Eutectic Solvents	12 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
11	Santosh Krishna R B Kaviarasan V S Sanjana S III year	Dr. Nalinkanth V Ghone	In Vitro Characterisation of Clay Nanotube Formulation For Dermatological Applications	12 Months	Budget: Rs.30000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous



12	Tarun Gopal S Sudiksha R Karthick P III year	Dr. D. Balaji	Exploring Rapid Photocatalytic Degradation of Organic Pollutants Using Hydrochar-Mediated Magnetic Nanomaterial: Synthesis, Dye Removal, And Kinetic Studies	12 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
13	Kovan Mookiah R Murali Siva Sundar M S Meenakshi Lalitha S III year	Dr. R. Parthiban	Novel Method For The Synthesis of Hybrid Nanocoolants and Their Application On Heat Removal In Radiators	12 Months	Budget: Rs.24000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
14	N Charankumar Sujita S Varshini Seshhu J S III year	Dr. R. Anantharaj	Lab Scale Production of Propyl Acetate Using Deep Eutectic Solvent	12 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
15	Harshad Heganath J Ramya V Selvamanikantan Shahid Afridi II year	Dr. K. Sathish Kumar	Drug Development From Extracted Caffeine	12 Months	Budget: Rs.24000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous



16	Hari Priya V Hariselvi G II year	Dr. B. Chitra	Degradation of Alizarin Red Dye Using Sulfate Radical Based Advanced Oxidation Process Activated By Synthesized Zinc Oxide Nanoparticles	12 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Characterization 3. Autoclave 4. Miscellaneous
17	Ajay Chinnathambi Pratheesh T Jeyanth J II year	Dr. V. Jaikumar	Sustainable Solutions: Developing a Bio Dishwashing Liquid	8 Months	Budget: Rs.24000 Items Approved: 1. Consumables 2. Characterization 3. Stirrer and Heating System 4. Miscellaneous



BME - UG STUDENT PROJECTS

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	S. Vaishali S. Tarun Kumar III year	Dr. S. Arun Karthick	Enhancing Polyurethane properties through the incorporation of Gelatin, Chitosan, and Silver Nanoparticles for medical applicaions.	1 Year	Budget: Rs.24000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
2	Neeharika S Neelambari RA	Dr. K. Nirmala	Non-invasive Haemoglobin Concentration Monitoring System	1 Year	Budget: Rs.17000 Items Approved: 1. PPG Sensor 2. Arduino UNO 3. Miscellaneous
3	Rakshana R Sharadha G S Shravan Kumar Sowmya R Sujay A II year	Dr. S. Saranya	Pain Quantification using Electromyography (EMG) Signals	18 Months	Budget: Rs.24000 Items Approved: 1. Raspberry Pi 2. IMU 3. Software Development 4. Electrodes 5. Miscellaneous



4	Akshaya D Anchana Sri N Harishini H Madhumitha B II year	Dr. K. Nirmala	Non Invasive Dehydration Monitoring System	1 Year	Budget: Rs.14000 Items Approved: 1. Sensors 2. Analog Device 3. Arduino UNO 4. Touch Screen 5. Miscellaneous
5	Sarvesh R Tharan Prannav T Venkatesan S II year	Dr. S. Allwyn	Prevention of Varicose Vein for Prolonged Standing Personnel Using Pneumatic Based Therapeutic Device	1 Year	Budget: Rs.26000 Items Approved: 1. Consumables 2. Electronic Components 3. Miscellaneous
6	R Rithisri Rajeshwari B II year	Dr. Sachin Gaurishankar Sarate	IoT based Epinephrine Sensor	7 Months	Budget: Rs.27000 Items Approved: 1. Sensor 2. HPLC Blood Test 3. Powdered S- Nitrosoglutathione 4. Arduino UNO 5. Miscellaneous



7	Indra Suresh M Shivani Sneha Chandrra M	Dr. S. Allwyn	Analysis of Stress-Induced Eye Fatigue During a Voage Using Single-Channel Electrooculogram	1 Year	Budget: Rs.27000 Items Approved: 1. Electronic Components 2. Miscellaneous
8	Dalene Ephme Ben George S Shree Lakshmi Sonia T II year	Dr. S. Allwyn	Optimizing Pretern Baby Incubators: Fiber Optic-based Humidity Sensor for Precise Monitoring	1 Year	Budget: Rs.29000 Items Approved: 1. Photodetector 2. Miscellaneous
9	Abirami T Augustine Wisely Bezalel Ezhil Meenaa A Shakeel Jegsilan II year	Dr. S. Allwyn	UV-Vis Spectroscopic Analysis to Diagnose Liver Disease in Neonates Through Urine Examination	1 Year	Budget: Rs.30000 Items Approved: 1. Consumables 2. Electronic Components 3. Glasswares 2. Miscellaneous
10	S. Vidhya Sagar Siva Abinesh SJ Sabin L II year	Dr. S. Allwyn	Development of Medication (Solid and Liquid) Dispenser	1 Year	Budget: Rs.28000 Items Approved: 1. Electronic Components 2. Miscellaneous



11	Nitheesh S Shrinithi S K Vijayalakshmi M II year	Dr. S. Allwyn	Chemeleon Helmet "Enhancing Road Safet I India Through Smart Helmet Technology"	1 Year	Budget: Rs.24000 Items Approved: 1. Camera 2. Display 3. GPD 4. Battery 5. Miscellaneous
12	Mahalakshmi. I Lokiya. V Abinaya Priya. L II year	Dr. S. Allwyn	Modernizing Public Transportation: The Tamil Nadu State Transport Corporation Application	1 Year	Budget: Rs.18000 Items Approved: 1. Hosting and Domain 2. Testing Phone 3. Miscellaneous
13	Rifa Sidhiqah Karishma Sharif Merlin Mathan II year	Dr. S. Allwyn	Unmanned Aerial Vehicle to Deliver and Receive Official Documents between Administration and Departments	1 Year	Budget: Rs.28000 Items Approved: 1. BLDC Motors 2. Electronic Components 3. Battery 4. Camera 5. Miscellaneous



CIVIL - UG STUDENT PROJECTS

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	Abhishek P Heman S Lokesh Kumar S II Year	Dr. G. Aswin Sriram	Quantification of Microplastics in the Akkarai-Thiruvidanthaii Shoreline	12 Months	Budget: Rs.10000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
2	Aadanya E winy Sri Niranjani K Harini. S II Year	Dr. P. Sangeetha	Flexural behaviour of the ferrocement roof panel with different types of woven meshes	10 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Characterization 3. Strain Gauges 4. Miscellaneous
3	Shri Bharathan K Monicka J S Ramya S Logesh U II Year	Dr. R. Vijayalakshmi	Study on the Flexural Behaviour and Impact Resistance of Precast Lightweight Concrete Sandwich Panel	12 Months	Budget: Rs.30000 Items Approved: 1. Consumables 2. Fibers 3. Miscellaneous



4	Vijay Pandian M Pranavaa K III Year	Dr. S.V. Sivapriya	Durability Behaviour of Cohesive Soil Slope mixed with glass powder with and without lime under controlled room temperature	12 Months	Budget: Rs.18000 Items Approved: 1. Consumables 2. Characterization 3. Miscellaneous
5	Karthiha Devi E S Karthik S II Year	Dr. G. Aswin Sriram	Smartification of Tambaram Railway Station: An Integration of Traditional Sketching and Advanced Digital Modelling Using REVIT	12 Months	Budget: Rs.7000 Items Approved: 1. Consumables 2. Miscellaneous
6	Kiruthika S.U Nikhil Narayanan S Kavivarthini L II Year	Dr. P. Sangeetha	Effect of Orientation of Chord member on the Ultimate Load Carrying Capacity of X-Joint under Compression	10 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Strain Gauges 3. Miscellaneous
7	Niketa S Sasikumar S Pirainudal C R Sumathira B Anirudthan II Year	Dr. R. Vijayalakshmi	Experimental Study on the Behaviour of Fibre Reinforced lightweight Hollow Core Slabs Under Different Flexure To Shear Ratios	12 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Strain Gauges 2. Miscellaneous



8	P. Hariharan S. Haaris Ahamed Sindhuja K M Ragasanthoshvishagan II Year	Dr. S.V. Sivapriya	Comparison of natural and man-made reinforcement in reinforcing unstable slope	12 Months	Budget: Rs.16000 Items Approved: 1. Loading Frame 2. Polymer Fiber 3. Miscellaneous
9	Revanth kumar G D. Antony Alias Abi Sanjeev Kumar G II Year	Dr. P. Sangeetha	Diagonal Compression Testing of Brick Masonry Wallets Strengthened with GFRP and Steel Textile Reinforced Mortars	10 Months	Budget: Rs.28000 Items Approved: 1. Consumables 2. Strain Gauges 2. Miscellaneous







(An Autonomous Institution, Affiliated to Anna University, Chennai)

National Level Technical Seminar on

"Role of Solar Photovoltaics in attaining Energy Sustainability"

Date: 28/08/2023 (Monday)

Guest Speaker

Mr. Rajvikram Madurai Elavarasan,
Research and Development Division (Power& Energy), Nestlives Pvt Ltd, Chennai
Research Scholar, School of Electrical Engineering and Computer Sciences (EECS),
University of Queensland, Australia

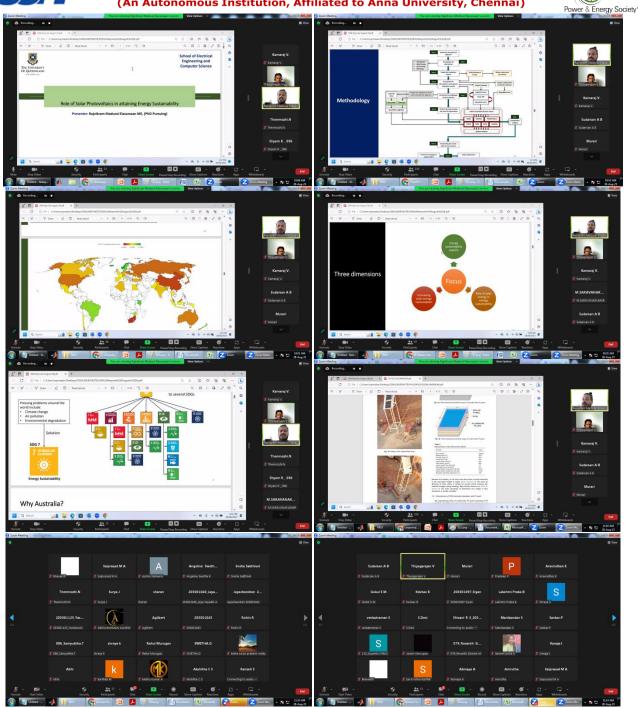
SSN-IEEE PES and ISTE student chapter jointly organized the National Level Technical Seminar on "Role of Solar Photovoltaics in attaining Energy Sustainability" on 28/08/2023 at SSN College of Engineering, Chennai. The seminar aimed to bring together experts, researchers, and enthusiasts in the field of solar energy to discuss and deliberate on the pivotal role of solar photovoltaics in achieving sustainable and renewable energy solutions. The event commenced with the welcome address by Dr V Kamaraj, Professor, Department of EEE and followed by the keynote speech. The chief guest of the event is Mr. Rajvikram Madurai Elavarasan, Research and Development Division (Power& Energy), Nestlives Pvt Ltd, Chennai and Research Scholar, School of Electrical Engineering and Computer Sciences (EECS), University of Queensland, Australia. He emphasized the significance of imparting practical knowledge and skills to participants, highlighting the role of solar photovoltaics in the broader context of energy sustainability. The event is coordinated by Dr. V Thiyagarajan, Associate Professor & Faculty Advisor, IEEE PES Student chapter. Around 100 participants were attended this event. We extend our gratitude to all the participants, speakers, and volunteers who contributed to the success of the seminar. Their enthusiasm and dedication played a crucial role in making this event a significant milestone in promoting solar energy sustainability.







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6 Harshavardhan J 203001037 04 harshavardhan2011021@ssn.edu.in 7 Angeline Swetha K 203001014 04 angeline2010973@ssn.edu.in 8 Vasanth R 203001122 04 vasanth2010648@ssn.edu.in 9 Ranganath. R 203001077 04 ranganath201088@ssn.edu.in 10 SRIRAM V 203001104 04 sriram2010851@ssn.edu.in 11 J Abishek 203001005 04 abishek2010999@ssn.edu.in 12 Mani Bharathi.P 203001054 04 mani2010853@ssn.edu.in 13 Saravanakumar M 203001039 04 saravanakumar2012044@ssn.edu.in 14 Amaan Meer 203001009 04 amaan2010905@ssn.edu.in 15 Suneeth D 203001107 04 suneeth2010996@ssn.edu.in 16 Shreya S 203001009 04 shreya2010937@ssn.edu.in 17 Pavvithra M 203001007 04 pavvithra2010434@ssn.edu.in 18 Agilbert Sesu Felick F 203001006 04 agilberts	4	RAGHUL S J	203001074	04	raghul2010978@ssn.edu.in
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Faculty Events

National Workshop on Energy & Sustainability

National Workshop on Energy & Sustainability was organized on 6th March 2024. Dr. A. S. Ramana, Workshop convener delivered the welcome address. Dr. K. S. Vijay Sekar Prof. & Head, Mechanical Engineering Department highlighted importance of the workshop. Ms. Nivedita Dileep Associate Counsellor, CII IGBC, Chennai in her inaugural address dealt on the green buildings' certification process, benefits, and case studies. Dr. S. Kalaiselvam Prof. & Head, Department of Applied Science & Technology, Anna University, Chennai explained the role of nanotechnology and Phase change materials in enhancing energy efficiency of thermal systems. Dr. S. Rajkumar Asso. Prof., Dept. of Mechanical Engg., lecture focused on energy conservation aspects in buildings. Dr. R. Prakash, Workshop convener actively coordinated the events. Workshop focused on sustainability features and participants were enriched by knowledge shared by the speakers. Dr. B. Jayakishan, Workshop convener proposed vote of thanks.





Ms. Nivedita Dileep, Associate Counsellor, CII IGBC







Dr. S. Rajkumar, Asso. Prof., SSNCE



SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Kalavakkam-603 110, Tamil Nadu, India.

National Workshop on

Energy & Sustainability
March 6, 2024
(Wednesday)

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

Objectives:

- The workshop will allow the participants to understand,
 - 1. Energy Efficient Buildings
 - 2. Energy Efficiency Aspects

Target participants:

 Faculty / Research Scholars / PG and UG students from Technical Institutions / Industry personnel

Registration:

- Registration is free and is limited to 100 participants.
- E-certificates will be provided only to the active participants who attend all the sessions and fill in the feedback form.
- Last date for receiving registrations: March 2, 2024.

Conveners:

Dr. A. S. Ramana Dr. R. Prakash

Associate Professor Associate Professor

Dr. S. Rajkumar Dr. B. Jayakishan

Associate Professor Assistant Professor

Registration Link:

https://forms.gle/JfitWEsoUsWGd1bG6

Resource Persons:

- Dr. S. Kalaiselvam
 Professor, Anna University, Chennai.
- Mr. S. Karthikeyan
 Deputy Executive Director, IGBC & GreenPro, CII IGBC, Hyderabad.
- Dr. S. Rajkumar
 Associate Professor, SSN College of Engineering, Chennai.

Topics Covered

- 1. Trends in Energy Efficiency
- 2. Decarbonization of Buildings
- 3. Energy Conservation in Buildings

Venue

Seminar Hall, Department of Mechanical Engineering, SSNCE, Kalavakkam.

Date and Time:

March 6, 2024, 09:00 AM

Contact:

Dr. A. S. Ramana ramanaas@ssn.edu.in **Dr. B. Jayakishan**, jayakishanb@ssn.edu.in

About the Workshop:

Economic development of a nation depends on efficient utilization of energy resources. Energy conservation measures are gaining attention to ensure affordable, reliable, and adequate supply of energy in industries and residential buildings. The difficulty of harnessing the maximum potential of the energy resources and widespread deployment of the advanced technologies for various applications at an affordable cost remains a challenge to both the technologists and policymakers. This workshop is therefore significant as it focuses on the issues and challenges in sustainable energy utilization techniques. Join us for an engaging workshop focused on the vital topics of "Energy Efficient Buildings" and "Energy Efficiency Aspects". Don't miss this opportunity to expand your knowledge and contribute to a more sustainable future.

About SSN:

Sri Sivasubramaniya Nadar College of Engineering (SSN CE) is the outcome of the vision and initiative of Dr. Shiv Nadar, Chairman of HCL Technologies Ltd. and a pioneer in the field of Information Technology. The Board of Management under the Chairmanship of Mr. R. Srinivasan, Dr. Kala Vijayakumar, President, SSN Institutions, and the Principal, Dr. V. E. Annamalai facilitate the good governance of the institution. SSN CE is accredited by NAAC with A+ grade and obtained accreditation for 7 UG and 4 PG programmes by NBA. Within a span of 25 years, SSN CE has grown into one of the top educational institutions in the country. Some of the salient features of SSN CE are: Ranked 45th in Engineering Category and 89th among all educational institutions in India Rankings 2021 by NIRF, MHRD.

About Mechanical Engineering Department

The department of Mechanical Engineering, established in the year 2007 - 08 offers a B. E. degree, M. E. (Manufacturing) and M. E. (Energy) degree courses with a mission to educate and train students to become globally competent. The department feels proud on its record making achievement in campus placement with over 90% of eligible students having placed in reputed core and IT companies. Active research takes place in the department on significant topics that include Solar thermal, Vapor absorption refrigeration, Energy storage, Friction Stir Welding, Stress corrosion cracking, Fracture Mechanics, Heat transfer, Smart Materials, Abrasives, Tribology, Non-Destructive Testing, Nano Technology and Robotics. The Department is also a recognized research centre for guiding PhD scholars under Anna University, Chennai and currently 105 scholars are pursuing PhD and 73 scholars have successfully completed PhD. The Department has highly qualified and experienced faculty members; most of them with PhD Degrees from Institutions of repute. The faculty members actively engage in research and regularly publish papers in reputed journals. The Department organizes National and International conferences and workshops in emerging areas. The department has research projects funded by DST, AICTE, NRB and Dept. of Mines to a tune of 3.7 Crore for conducting research in different areas. Industry Institute Partnership Cell (IIPC) has been established for enhancing the relationship between the institute and industry.