



# RESEARCH & CONSULTANCY NIT CALICUT

× × × ×

× × × ×

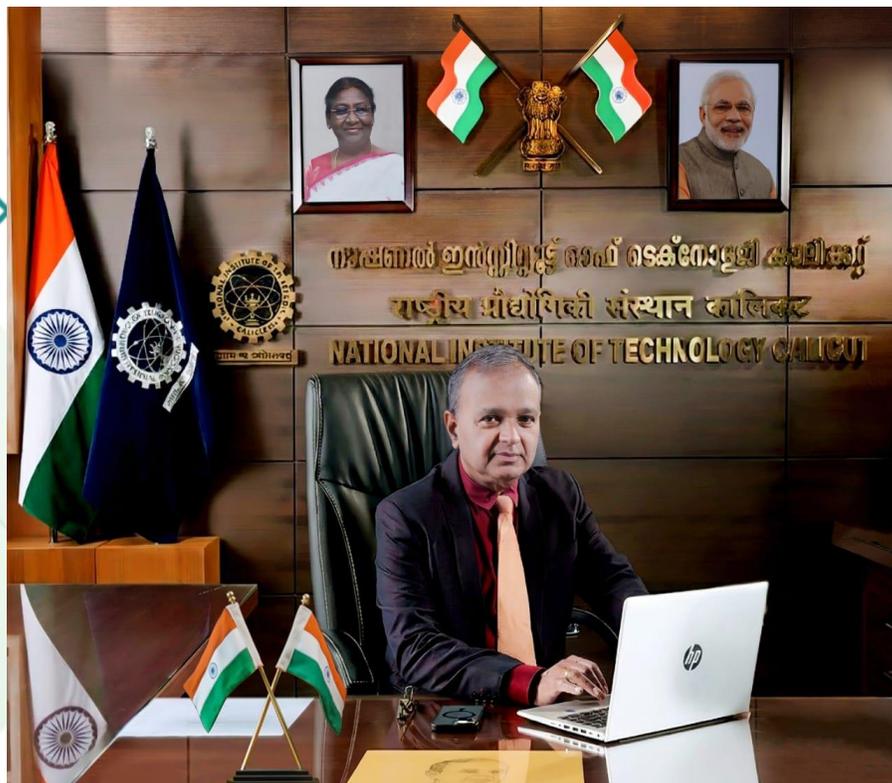


2025

× × × ×

ANNUAL  
REPORT





I am glad to witness the rapid growth in advancing the research and consultancy landscape of our Institute. Last year marked a landmark period, with a significant surge in high-value, multidisciplinary projects that reflect our evolving stature as a premier research and teaching institution. We have successfully secured 75 sponsored projects, with 6 international projects and 19 industry-sponsored projects and consultancies. One of the most encouraging trends is the rise in multidisciplinary project submissions, which highlights the commitment of our faculty members in breaking silos and addressing complex, real-world challenges through a collaborative approach. Our institute has been designated as the first I-STEM Catalyst Centre, reflecting our proactive measures in resource sharing. We have also submitted a Detailed Project Report for establishing a Research and Innovation Park at NITC, aimed at enhancing industry-academia collaboration and providing state-of-the-art facilities.

I extend my heartfelt congratulations and gratitude to the faculty, staff and students for taking our institute to greater heights. I wish everyone a productive and successful year ahead.

**Prof. Prasad Krishna**  
**Director, NITC**



# Research Advisory Board



**PROF. PRASAD KRISHNA**  
DIRECTOR  
NIT CALICUT  
(CHAIRMAN)



**PROF. B.L.V. PRASAD**  
DIRECTOR  
CENTRE FOR NANO AND  
SOFT MATTER SCIENCES  
(CENS), BANGALORE



**PROF. MADHAVI LATHA G.**  
PROFESSOR,  
DEPARTMENT OF CIVIL  
ENGINEERING,  
IISc BANGALORE



**PROF. SUKUMAR MISHRA**  
DIRECTOR, IIT(ISM)  
DHANBAD



**PROF. SUMAN CHAKRAVORTY**  
DIRECTOR  
IIT KHARAGPUR



**PROF. ROHIT SRIVASTAVA**  
HIMANSHU PATEL CHAIR  
PROFESSOR,  
DEPARTMENT OF BIOSCIENCES &  
BIO ENGINEERING, IIT BOMBAY



**PROF. N. SANDHYARANI**  
DEAN RESEARCH AND  
CONSULTANCY  
NIT CALICUT



# MEET OUR TEAM



**DR. SUBRAMANYAN N V**  
ASSOCIATE DEAN



**DR. N SANDHYARANI**  
DEAN



**DR. ANUJ A. VARGEESE**  
ASSOCIATE DEAN

## R AND C SUPPORT CELL



**MOHAMMED  
ASHIQUE P K**  
PROJECT ASSISTANT



**ANANDHU K A**  
PROJECT ASSISTANT



**Dr. SAUGATO DEY**  
TECHNICAL OFFICER



**SHAFI S M**  
SENIOR SUPERINTENDENT



**ADITYA KUMAR SINGH**  
SUPERINTENDENT



**VIGNESHWAR K**  
SENIOR ASSISTANT



**MANIKANDAN S P**  
JUNIOR ASSISTANT



**THEERTHA MADHAVAN**  
JUNIOR ASSISTANT



**BONGU SAITEJA**  
JUNIOR ASSISTANT



**YEDUKRISHNA P**  
JUNIOR ASSISTANT



**VINAY KUMAR**  
TECHNICAL ASSISTANT



**VINOD K P**  
OFFICE ATTENDANT



**ABHIJITH PAPPAN**  
JUNIOR ASSISTANT



**HARSHA BHASKARAN**  
SENIOR ASSISTANT



# 2025 IN A GLIMPSE

75

New Projects Secured

Running Sponsored Projects

188

39.6 Cr

Sanctioned Amount

2025

FRG projects Sanctioned

44

2.97 Cr

Testing & Consultancy

Consultancy Secured

57

Proposals submitted

679

Projects Secured

National

67

International

6

Industry Sponsored Project / Consultancy

19

RESEARCH INNOVATION PARK DPR

I-STEM SAMAVESHA

I-STEM CATALYST CENTRE

Major Activities

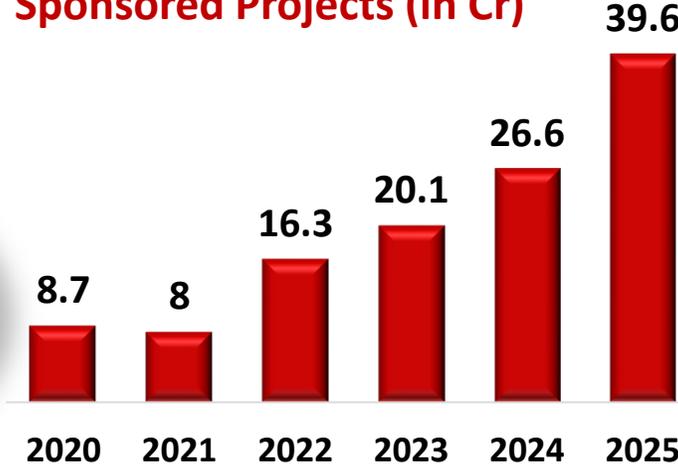


# SPONSORED RESEARCH OVER THE YEARS

## 2005-2025



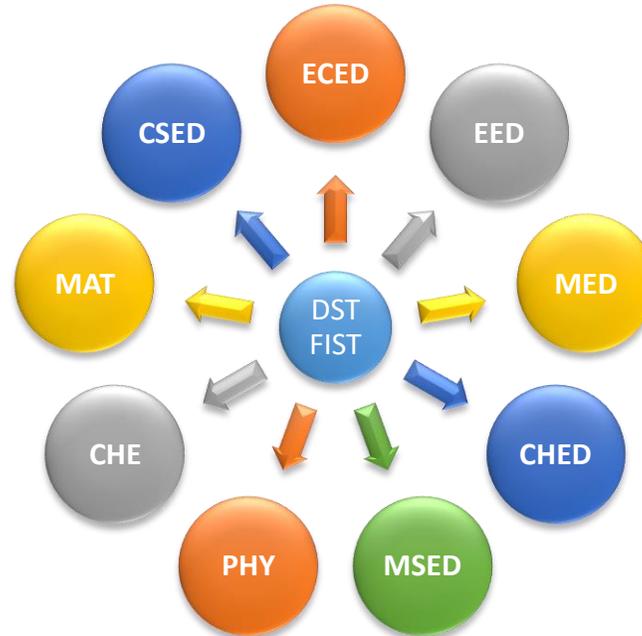
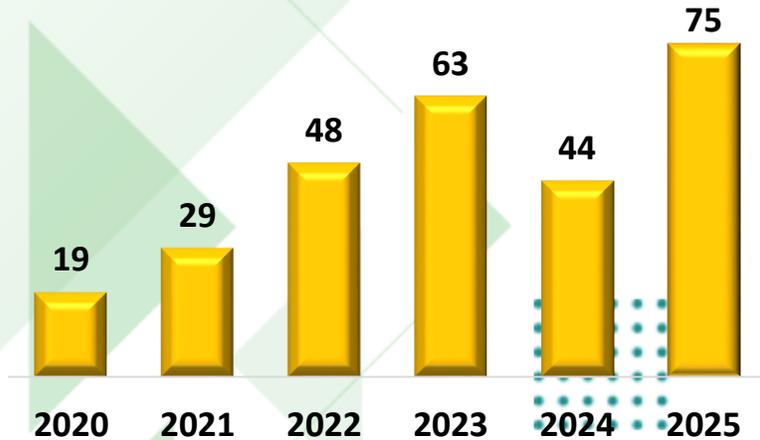
## Sponsored Projects (in Cr)



## 2020-2025

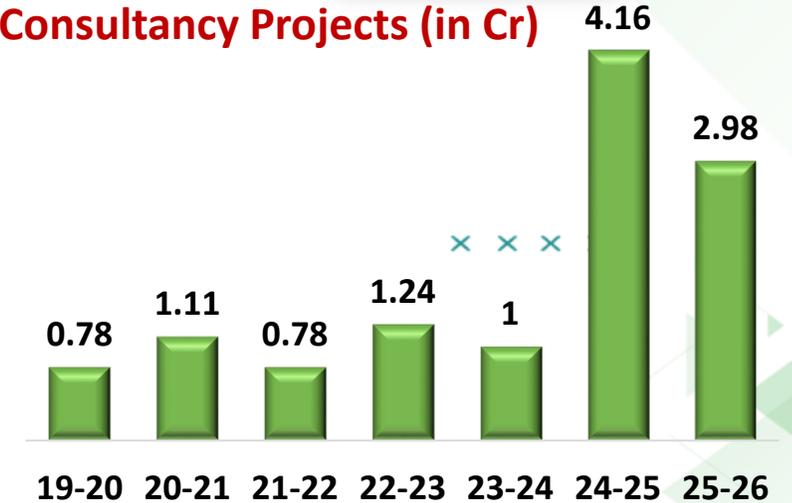


## Number of Projects



21 Crores

## Consultancy Projects (in Cr)





# Research and Consultancy Road Map

1961

REC Calicut

Projects – 194 (1961-2020)  
Funding – 82.4 Cr

NIT Calicut

2020

## During 2020-2025

Sponsored projects – 278  
Amount – 118.1 Cr  
Consultancy projects – 259  
Amount – 10.38 Cr

2025

Projected  
R&C Projects – 800  
Funding – 500 Cr

- ❖ Increase the average value of a secured project by 25% YoY
- ❖ Industry-sponsored postdoctoral fellowship
- ❖ State-of-the-art Central Research Facility
- ❖ Research and Innovation Park

2030



# RESEARCH AND INNOVATION PARK



Tagline: Igniting Research. Empowering Innovation. Transforming Communities

## NIT Calicut

Submission for THRIVE Programme under Ministry of Education

**450 Cr**  
DPR submitted to MoE on  
8<sup>th</sup> December 2025



SECTION

SECTION

## ROADMAP



- i. Land for R&I park – **40470 sq. m**
- ii. Central Research Facility – **8234 sq. m**
- iii. Innovation lab – **3374 sq. m**  
x x x x
- iv. Incubation center and CoEs – **3538 sq. m**
- v. Industry Space – **6944 sq. m**
- vi. Common amenities – **3538 sq. m**

# MAJOR PROGRAMS ORGANIZED BY R&C SECTION - 2025

## WORKSHOP ON RESEARCH GRANTS 29<sup>th</sup> January 2025



- ✓ Organized a workshop on Research Grants (Writing, Defense, and Implementation of Grant Proposals) on 29<sup>th</sup> January 2025.
- ✓ The sessions were conducted by **Dr. Rajiv K. Tayal (Former Secretary, SERB)** and **Dr. D. R. Prasada Raju (formerly with DST)**.
- ✓ Hands own training and group activity

## Interactive Session with former ISRO Chairman Dr. S. Somnath-06<sup>th</sup> February



- ✓ An interactive session was organized with **Dr. S. Somnath, former ISRO Chairman**, on 06<sup>th</sup> February.
- ✓ The session shared insights into India's space achievements.
- ✓ ISRO-sponsored research projects were highlighted.
- ✓ The session emphasis on innovation and opportunities for young researchers.



## ORGANISED EVENTS...

### Workshop on R.E.INV.ENT – 24<sup>th</sup> April 2025



- ✓ Organized a workshop on R.E.INV.ENT on 24<sup>th</sup> April , focusing on integrating research, education, innovation, and entrepreneurship for national development.
- ✓ The session was delivered by **Prof. B. Ravi, Director, NITK Surathkal**, highlighting best practices and frameworks for the four pillars of the R.E.INV.ENT ecosystem.
- ✓ Emphasized innovative engineering concepts, practical applications, and interactive discussions to inspire creativity among participants.



### Faculty interaction program with Prof. Ganpati Ramanath – 08<sup>th</sup> July



- ✓ Organized a faculty interaction program with Prof. **Ganpati Ramanath, distinguished Senior Professor**, Rensselaer Polytechnic Institute (RPI), New York, USA, on 08<sup>th</sup> July.
- ✓ Facilitated discussions on crafting a personally fulfilling and professionally impactful academic career as a professor.
- ✓ Explored collaborative research opportunities between institutions.
- ✓ Deliberated on emerging global academic and research trends.

## ORGANISED EVENTS.....

### I-STEM SAMAVESHA Episode 11 5<sup>th</sup> & 6<sup>th</sup> August 2025



- ✓ NIT Calicut hosted Episode 11 of I-STEM SAMAVESHA, a prominent outreach initiative of the Indian Science, Technology and Engineering Facilities Map (I-STEM) under the office of the Principal Scientific Adviser (OPSA), Government of India.
- ✓ The two-day interactive event was inaugurated by Prof. Prasad Krishna, Director, NIT Calicut, along with Dr. Harilal Bhaskar, Chief Operating Officer and National Coordinator, I-STEM, OPSA, Government of India.
- ✓ More than 150 participants, including faculty members, research scholars (Ph.D. and postdoctoral), startup representatives, and industry professionals from NIT Calicut as well as other institutes and organizations across neighboring districts, attended the event.

### NIT Calicut Becomes India's First I-STEM Catalyst Center & Inauguration of CRF brochure



- ✓ The newly established Catalyst Center at NIT Calicut is envisioned as a regional innovation hub aimed at connecting academic institutions, industries, research laboratories, and startups; fostering inter-institutional collaboration; facilitating the sharing of scientific resources; and accelerating research, development, and innovation.
- ✓ The Hon'ble Director released the brochure of the Central Research Facility at NIT Calicut, highlighting more than 70 instruments and facilities along with their detailed specifications and user charges.
- ✓ The event marked a significant milestone in the nation's efforts to democratize access to scientific infrastructure and foster grassroots innovation.

## ORGANISED EVENTS.....

### Interactive session with the Director, DIACOE Bharathiar University- 23<sup>rd</sup> Sepetember



- ✓ Organized an interactive session with the **Dr. K Ganesan, Director, DRDO Industry Academia-Centre of Excellence Bharathiar University [DIA-CoE], Bharathiar University**, on 23<sup>rd</sup> September.
- ✓ Discussed recent initiatives, thrust areas for DRDO projects, functions and areas of interest of 15 DIACoEs, and DRDO funding opportunities.
- ✓ Encouraged knowledge sharing and collaboration.

### Interactive session with Dr. MA Aatmanand, Retd. Director, NIOT Chennai – 15<sup>th</sup> October



- ✓ Organized a Interactive session with **Dr. M A Aatmanand, Retired Director of NIOT, Chennai**, on 15<sup>th</sup> October
- ✓ Contributing valuable insights and knowledge sharing toward securing project proposals under the Naval Research Board, DRDO.

## ORGANISED EVENTS.....

### Interactive session with Dr. B K Das - 17<sup>th</sup> October 2025



- ✓ Organized a Interactive session with Dr. B K Das, FNAE, Distinguished Scientist & Director General - Electronics and Communication Systems (ECS) on 17<sup>th</sup> October
- ✓ Discussions included the funding opportunities of DRDO

### Interactive session with Hon'ble Director regarding PMECRG- 28<sup>th</sup> October 2025



- ✓ The Hon'ble Director addressed the participants, highlighting the importance of PMECRG and institutional support for quality research.
- ✓ Previous PMECRG recipients shared practical insights on proposal conceptualization, including idea generation, title framing, objectives, and methodology.
- ✓ Emphasis was placed on ensuring novelty, focus, and feasibility in research proposals.
- ✓ The session helped participants strategically plan competitive and well-structured research projects.

## ORGANISED EVENTS.....

### Interactive session with Prof. Damien Baigl, Exceptional Class Professor at École Normale Supérieure (ENS), Paris, – 26<sup>th</sup> November 2025

- ✓ Organized an interactive session with Prof. Damien Baigl, Exceptional Class Professor, École Normale Supérieure (ENS), Paris, on 26 November 2025.
- ✓ Prof. Baigl, an internationally recognized expert in microfluidics, DNA nanotechnology, and light-driven microsystems,
- ✓ Delivered a talk titled “Building a Meaningful Academic Career: Personal Considerations from Research and Teaching Experience.”
- ✓ The session provided valuable insights through knowledge sharing and interactive discussions.



# RESEARCH AWARDS

## INSTITUTE RESEARCH AND DEVELOPMENT AWARD-2025-EARLY CAREER



**DR. MUNIYANDI SANKARALINGAM**  
ASSISTANT PROFESSOR  
DEPARTMENT OF CHEMISTRY

## BEST YOUNG INVESTIGATOR AWARD - 2025



**DR. TAMAL PRAMANICK**  
ASSISTANT PROFESSOR  
DEPARTMENT OF MATHEMATICS

# SPONSORED PROJECTS SECURED IN 2025

## ANRF – PMECRG



**PI : Dr. A V S S H Sruvan Kumar,**  
Assistant Professor MED

**Title:** Investigation of Ultrasonic Cavitation Assisted Surface Finishing Process for Additively Manufactured Components.  
**Project Amount:** 58,94,056/-



**PI : Dr. Shyam Kumar C N,**  
Assistant Professor, MSED

**Title:** Development of all carbon microheaters for in situ Scanning Electron Microscopy.  
**Project Amount:** 60,80,222/-



**PI : Dr. Soumya Ranjan Meher,**  
Assistant Professor, EED

**Title:** A Multifunctional Cost-Effective On-Board Power Processor with Wired and Wireless Charging for Electric Vehicles.  
**Project Amount:** 71,64,480/-



**PI : Dr. Ashiq Muhammed P E ,**  
Assistant Professor, EED

**Title:** High-Frequency Design and Implementation of a 1 MHz Dual Active Bridge Converter Using Planar Magnetics.  
**Project Amount:** 59,38,540/-



**PI : Dr. Devesh Shukla,**  
Assistant Professor, EED

**Title:** Edge-Computing assisted Block-chain based Cyber Resiliency Enhancement of Integrated Transmission and Distribution systems.  
**Project Amount:** 64,62,480/-



**PI : Dr. Abhishek N Srivastava,**  
Assistant Professor, CED

**Title:** Nurturing Innovation in bio-methanation Route for enhanced Valorization of waste towards Augmented Harvesting of BioLNG.  
**Project Amount:** 39,72,480/-



तमसो मा ज्योतिर्गमय

# SPONSORED PROJECTS SECURED IN 2025

## ANRF – IRG



**PI : Dr. Lineesh M.C,**  
**Associate Professor, MAT**  
**Title:** A Study on Compactly supported, Symmetric and Orthogonal Multiwavelets using Matrix Polynomial Theory.  
**Project Amount: 26,49,366/-**



**PI : Dr. Chandru P,**  
**Assistant Professor, CED**  
**Title:** Modelling the electrochemical responses and understanding the corrosion mechanisms of coated steel bars embedded in reinforced concrete systems.  
**Project Amount: 49,46,630/-**



**PI : Dr. Abhishek Mondal,**  
**Assistant Professor, ECED**  
**Title:** Smart, Sustainable, and Low Latency Computational Offloading From Cellular Network With Cooperating UAVs Mounted RHS Communication: Multi-Agent Deep Reinforcement Learning Based Approach.  
**Project Amount: 64,44,480/-**



**PI : Dr. M. Sivakumar,**  
**Assistant Professor, CED**  
**Title:** Performance Evaluation of Micro-Structural and Rheological Characteristics of Emulsified Bitumen-Filler Mastic on Cold Bituminous Mixes.  
**Project Amount: 45,92,610/-**

## ANRF – ARG MATRICS



**PI : Dr. Ashish Awasthi,**  
**Associate Professor, MAT**  
**Title:** A Hybrid Semi-Lagrangian and Finite Point-Based Numerical Framework with Nonlinear Preservation for Solving 2D and 3D Coupled Burgers' Equations and Its Applications  
**Project Amount: 30,00,000/-**



**PI : Dr. Ashok R,**  
**Assistant Professor, MAT**  
**Title:** Water wave scattering by vertical flexible porous barriers in a two-layer fluid  
**Project Amount: 30,00,000/-**



**PI : Dr. Sekhar Ghosh,**  
**Assistant Professor, MAT**  
**Title:** Effects of Measure Data on Elliptic Partial Differential Equations with Various Singularities  
**Project Amount: 30,00,000/-**



तमसो मा ज्योतिर्गमय

# SPONSORED PROJECTS SECURED IN 2025

ANRF – ARG

*(Final budget yet to be approved)*



**PI :** Dr. Tom Skaria,  
Assistant Professor, BSED  
**Co-PI :** Dr. Suchithra TV, Professor, BSED

**Title:** Novel Role of Immunoregulatory ADAM17 in Senescence-Induced Human Vascular Endothelial Barrier Disruption and Impaired Repair: An In Vitro Study with Primary Cells and Predictive Modeling for Insights Unattainable by Wet-Lab Capabilities.  
**Project Amount :** 39,90,480/-



**PI :** Dr. K. Rajasekhara Reddy,  
Assistant Professor, BSED  
**Co-PI:** Dr. Saketh Chandra, Assistant Professor, BSED

**Title :** Development and Characterization of a Cost-Effective Cellulose-Based Matrix for Immunoprecipitation Applications.  
**Project Amount :** 25,98,000/-



**PI :** Dr. Praveen Kumar G,  
Assistant Professor, CHED  
**Co-PI:** Dr. Teja Reddy Vakamalla,  
Assistant Professor, CHED,  
Dr. Nitinkumar D. Banker,  
Associate Professor, MED

**Title :** Development of a Catalyst System for Sustainable C<sub>8</sub>–C<sub>18</sub> Liquid Fuel Production from Lignocellulosic Biomass and Real-Time Performance Evaluation in CI Engines.  
**Project Amount :** 62,00,000/-



**PI :** Dr. Anup Aprem,  
Assistant Professor, ECED  
**Co-PI:** Dr. Sanjay Viswanath,  
Assistant Professor, ECED

**Title:** ECM and ECCM in Cognitive radar electronic warfare: An inverse learning setting.  
**Project Amount:** 99,36,000/-



**PI :** Dr. Nujoom Sageer Karat  
Assistant Professor, ECED  
**Co-PI:** Dr. P. P. Deepthi,  
Professor, ECED  
Dr. Anup Aprem, Assistant Professor, ECED

**Title:** Communication Efficiency in Federated Learning with Advanced Coding Techniques and NOMA for Intelligent Transportation Systems.  
**Project Amount:** 76,16,160/-

# SPONSORED PROJECTS SECURED IN 2025

## ANRF - ARG

*(Final budget yet to be approved)*



**PI : Dr. Lalit Kumar**  
Assistant Professor, ECED

**Title:** : Dual Polarized Ambidextrous Aperture Spiral Antennas (DPAMSA) using Substrate Integrated Suspended Line (SISL).

**Project Amount:** 61,54,000/-



**PI : Dr. Nasirul Haque,**  
Assistant Professor, EED

**Title:** Development of a diagnostic apparatus and expert system for power transformer insulation based on Frequency Domain Spectroscopy (FDS) measurements.

**Project Amount:** 68,36,160/-



**PI :Dr. Harish Sudhakaran Nair,**  
Assistant Professor, EED  
**Co-PI: Dr. Arun Neelimegham K. M. Assistant Professor, EED**

**Title:** Development and Experimental Validation of a Novel Robust Predictive Control Framework for High-Frequency Switched Programmable Power Supplies.

**Project Amount:** 67,20,000/-



**PI : Dr. Basil Kuriachen,**  
Assistant Professor, MED  
**Co-PI: Dr. Sanjeev Kumar Manjhi,**  
Assistant Professor, MED  
**Dr. Ashutosh Mishra,**  
Assistant Professor, ECED

**Title:** Development of WC-6Co carbide cutting inserts with enhanced in-service heat dissipation and real time temperature monitoring via Material Extrusion based Additive Manufacturing.

**Project Amount:** 63,12,480/-



**PI: Dr. N Sandhyarani,**  
Professor, MSED  
**Co-PI: Dr. Raghu C. V.**  
Assistant Professor, ECED

**Title:** Multi-Biomarker Sepsis Detection: Development of Electrochemical Sensors and Point-of-Care Device.

**Project Amount:** 81,00,000/-



**PI: Dr. Ravi Varma M K**  
Professor, PHY  
**Co-PI: Dr. George. K. Varghese,**  
Associate Professor, CED

**Title:** Near-Infrared Cross Section Measurements of Atmospheric Pollutants of Health and Climate Impacts and their Atmospheric Distribution.

**Project Amount:** 1,04,00,000/-

# SPONSORED PROJECTS SECURED IN 2025

## ANRF - ARG

*(Final budget yet to be approved)*



**PI :** Dr Subramanyan N V  
Assistant Professor, PHY  
**Co-PI:** Dr. N Sandhyarani,  
Professor, MSED

**Title:** : Fabrication of highly ordered and active-site rich electrocatalytic multicomponent nano-architectures using photo-controlled colloidal crystallization.

**Project Amount:** 87,90,000/-



**PI :** Dr. P. K. Madhavan Unni  
Assistant Professor, PHY

**Title:** Quadruple Critical Point (QCP) in ternary aqueous ketonic system with trace amounts of Ionic Liquids

**Project Amount:** 25,57,000/-



**PI:** Dr. Aji A Anappara,  
Professor, PHY  
**Co-PI:** Dr Subramanyan N V  
Assistant Professor, PHY

**Title:** Self-powered graphene/superionic-Cu<sub>2</sub>S hybrid p-n heterojunction photodetector enabling visible-near-IR sensing from room-temperature to 500 °C

**Project Amount:** 64,00,000/-



**PI :** Dr. Shareef M,  
Assistant Professor, PHY

**Title:** Positive- Q value neutron transfer and fusion dynamics in low- medium mass nuclei.

**Project Amount:** 77,75,872/-



**Co-PI:** Dr. Kumaravel S  
Associate Professor, EED

**Title:** Renewable-Integrated Smart EV Charging Platform Featuring Reconfigurability, Interoperability, and Grid-Interactive Management (RISE)

**Project Amount:** 63,34,000/-



**Co-PI :** Dr. Panneerselvam Ranganathan  
Associate Professor, CHED

**Title:** Intensified CO<sub>2</sub> capture and regeneration using Joule and microwave heating

**Project Amount:** 26,00,000/-

# SPONSORED PROJECTS SECURED IN 2025

## ISRO -RESPOND



**PI : Dr. Anuj A Vargeese**  
Assistant Professor, CHY

**Title:** : Development of space grade Ammonium Dinitramide (ADN) as energetic oxidizer for composite solid propellant

**Project Amount:** 26,92,000/-



**PI : Dr. G. Unnikrishnan,**  
Professor (HAG), CHY  
**Co-PI: Dr. Muniyandi Sankaralingam**  
Assistant Professor , CHY

**Title:** Development of 'Hybrid polyhydroxyurethane foam' for aerospace applications

**Project Amount:** 23,01,400/-



**PI :Dr. Allen Anilkumar,**  
Assistant. Professor, MED

**Title:** Development of a mathematical model for a dithered ring-laser gyroscope under harmonic external excitation

**Project Amount:** 14,03,160 /-



**PI : Dr. Sujith Kumar C S,**  
Assistant. Professor, MED

**Co-PI: Dr. Vijayaraj K.**  
Assistant Professor, MED  
**Dr. Mohammed Rashad K,**  
Assistant Professor, MED

**Title:** MEMS Based Pumped Liquid Cooling Loop for Cooling High Heat Flux Dissipating Components

**Project Amount:** 27,65,600/-



**PI: Dr. Indumathi Sathisaran,**  
Assistant Professor, BSED

**Title:**. Pharmacological Challenges in Space: Stability, Packaging and Dosage form selection

**Project Amount:** 24,00,610/-



**PI: Dr. B Radhika,**  
Assistant Professor, CED

**Title:** Design of passive damping elements for a sandwich panel

**Project Amount:** 18,87,126/-



तमसो मा ज्योतिर्गमय

# SPONSORED PROJECTS SECURED IN 2025

## DRDO



**PI : Dr. Anil Kumar Dash, Assistant Professor, CED**

**Title:** Investigating Nonlinear Dynamics of Ship Maneuvering motion in Waves using Open FOAM solver

**Project Amount:** 47,12,434 /-



**PI : Dr. Basil Kuriachen, Assistant Professor, MED, Dr. Ranjith P M, Assistant Professor CHED, Dr. Arun S, Assistant Professor, MED**

**Title:** Experimental Investigation of galvanic and stray current corrosion in Marine Bronze due to the influence of micro-structural features in simulated marine atmosphere  
**Project Amount:** 23,30,240 /-



**PI : Dr. Ashiq Muhammed PE, Assistant Professor, EED Co-PI: Dr. Rijil Ramchand, Professor, EED**

**Title:** Broadband Tuning of FFR Transducers for Wideband Sonar Applications

**Project Amount** 9,48,060 /-



**PI: Dr. Prethiv Kumar R, Assistant Professor, CED Co-PI: Dr. Kondalraj R, Assistant Professor, CED**

**Title:** Experimental and Numerical Studies on Response Control Mechanism of Vortex-Induced Vibration of Flexible Cylindrical Structures

**Project Amount:** 39,01,093/-



**PI: Dr. Ashesh Saha, Assistant Professor, MED Co-PI: Dr. Allen Anilkumar, Assistant Professor, MED**

**Title:** Design and development of metamaterial housing for bearing for passive control of vibrations and force mitigation in rotor systems  
**Project Amount:** 45,64,958/-



**PI : Dr. Tom Skaria, Assistant Professor, BSED Co-PI: Dr. K. Rajasekhara Reddy, Assistant Professor, BSED**

**Title:** Immunoregulatory ADAM17 as a Mediator of Edemagenic Pulmonary Microvascular Barrier Disruption Under High-Altitude Hypoxia and a Target for Drug Repurposing

**Project Amount** 37,85,520 /-

× × × ×

# SPONSORED PROJECTS SECURED IN 2025

## DST



**PI : Dr. Panneerselvam Ranganathan**  
Associate Professor, CHED

**Title:** : Development of bench-scale system of integrated Hige-based CO<sub>2</sub> capture and conversion to light olefins  
**Project Amount:** 98,05,093/-



**PI : Dr. George. K. Varghese** Associate Professor, CED

**Title:** Source apportionment and prevention of microplastics in Indian composts  
**Project Amount:** 12,54,000/-



**PI :Dr. Jagadeesha T,** Associate Professor, MED

**Title:** Vaishvik Bharatiya Vaigyanik (VAIBHAV) fellowship  
**Prof. Manoj Gupta,** VAIBHAV fellow, National University of Singapore  
**Project Amount:** 72,22,500/-

## ANERT



**Wise-Scope Fellow - Dr. Haritha H**  
Mentor : Dr. N Sandhyarani,  
Professor, MSED

**Title:** Design and development of active materials for flexible rechargeable zinc-air batteries  
**Project Amount:** 39,89,900/-



**PI : Dr. C. S. Suchand Sangeeth,** Assistant Professor, PHY  
Co-PI: Dr. Vari Sivaji Reddy,  
Associate Professor, PHY

**Title:** Design and Fabrication of Efficient Polymer Solar cells using Modified PEDOT: PSS as Hole Transport Layer  
**Project Amount:** 3,25,000/-

## ICSSR

### MULTI INSTITUTIONAL PROJECT



**Project Director : Dr. Mohammed Firoz C,** Associate Professor, DAP

**Title** A Longitudinal Study on Post-Tsunami Housing Reconstruction and Livelihood Revitalization in the Vulnerable Coasts of India.  
**Project Amount:** 1,20,00,000/-

# SPONSORED PROJECTS SECURED IN 2025

## SPARC



**PI :** Dr. Subha D. P  
Associate Professor, EED  
**Co-PI:** Dr. Jeetu S. Babu,  
Assistant Professor, MSED  
Dr. Satyananda Panda,  
Professor, MAT  
**Title:** MAIHRT- Mathematical AI in  
Healthcare:  
**Project Amount:** 25,69,032/-



**PI :** Dr. Shihabudheen KV,  
Assistant Professor, EED  
**Co-PI:** Dr. Sudhish N. George,  
Associate Professor, ECED  
**Title:** Next-Generation spectral  
Imaging and AI for Sustainable Agri-  
Food Quality Management.  
**Project Amount:** 1,05,06,000/-



**PI :** Dr. S K Pramada  
Assistant Professor, CED  
**Title:** Digital Twin Enabled Framework  
for Soil Erosion, Landslide Susceptibility  
and Resilient Infrastructure Planning  
**Project Amount:** 1,08,54,000/-

## ICMR



**Co- PI :** Dr. Subha D. P,  
Associate Professor, EED  
**Title:** Cardiac signals for sleep  
apnea prediction in stroke survivors  
**Project Amount:** 51,500/-



**PI :** Dr. Baiju G. Nair,  
Associate Professor, BSED  
**Co-PI :** Dr. V. Sajith,  
Professor, MSED  
**Title:** Development of a 4D Bioprinted  
Lung-on-a-Chip Model with Plant-  
Derived Bioinks for Studying  
Micro/Nanoplastic Inhalation Toxicity  
Using Fluorescent Carbon Dot Tracers  
**Project Amount:** 77,64,488/-



*(Final budget yet to be approved)*  
**PI :** Dr. Aparna Zagabathuni,  
Assistant Professor, MSED  
**Co-PI:** Dr. Hanas T, Associate  
Professor, MSED  
**Title:** Design and Development  
of Self-Healing Auxetic  
Metamaterial for Next-  
Generation Vascular Graft  
**Project Amount:** 1,23,97,858 /-



तमसो मा ज्योतिर्गमय

# SPONSORED PROJECTS SECURED IN 2025

## KSCSTE



**PI :** Dr. Anantha Singh T. S.,  
Assistant Professor, CED  
**Co-PI:** Dr. George. K. Varghese,  
Associate Professor, CED  
Dr. Aswathy E. V.,  
Assistant Professor, CED

**Title:** Assessment of coliform removal with travel distance for different soil types of Kerala and development of copper-tube disinfection system to handle the residual coliform count  
**Project Amount:** 9,78,000/-



**PI :** Dr. Aswathy E. V,  
Assistant Professor, CED  
**Co-PI:** Dr. George. K. Varghese,  
Associate Professor, CED,  
Dr. Anantha Singh T. S.,  
Assistant Professor, CED

**Title:** Characterizing the abundance and diversity of bioaerosols in Indoor environments to assess the potential exposure to human pathogens and allergens.  
**Project Amount:** 7,90,000/-



**PI :** Dr. Prateek Negi  
Assistant Professor, CED  
**Co-PI:** Dr. Praveen Nagarajan,  
Professor, CED  
Dr. Santosh G. Thampi,  
Professor (HAG), CED

**Title:** Static and Dynamic Condition Assessment of Existing Concrete Dams Employing Non-Contact Sensing Technique  
**Project Amount:** 7,60,000/-



**PI :** Dr. Subramanyan Namboodiri  
Varanakkottu,  
Assistant Professor, PHY  
**Co-PI:** Dr. Mini Mol M,  
Assistant Professor, CHY

**Title:** Magnetically responsive Janus Particle-laden liquid-liquid interface as reconfigurable optical elements  
**Project Amount:** 14,42,000/-

## DBT



**PI :** Dr. Gopi Krishna Saramekala,  
Assistant Professor, ECED  
**Co-PI:** Dr. Sudhish N. George,  
Associate Professor, ECED

**Title:** Development of an integrated Deep learning and molecular tool based expert system for early detection and identification of major insect pests and vector transmitted viruses of spice crops  
**Project Amount:** 38,48,421/-

## IKS



**PI :** Dr. Anjana Bhagyanathan,  
Assistant Professor, DAP  
**Co-PI:** Dr. Chithra K,  
Associate Professor, DAP

Dr. Kiruthiga K,  
Assistant Professor, DAP  
Dr. Ritesh Ranjan,  
Assistant Professor, DAP  
**Title:** Indian Knowledge Systems Approach to Deep Ecology: Integrating Sacred Geography and Sustainability.  
**Project Amount:** 5,00,000/-



तमसो मा ज्योतिर्गमय

# SPONSORED PROJECTS SECURED IN 2025

## CoEUPD



**PI :** Dr. Anjana Bhagyanathan,  
Assistant Professor, DAP  
**Co-PI:** Dr. Santosh G. Thampi,  
Professor, CED  
Dr. Kiruthiga K,  
Assistant Professor, DAP  
Dr. Shraddha D. Bahirat,  
Assistant Professor, DAP  
**Title:** Documentation to  
Restoration:Heritage Ponds in  
Kozhikode District  
**Project Amount:** 21,98,400/-



**PI :** Dr. George. K. Varghese,  
Associate Professor, CED  
**Co-PI:** Dr. Chithra N. R, Associate  
Professor, CED  
Dr. Anantha Singh T. S., Assistant  
Professor, CED  
Dr. Raghu C. V.  
Assistant Professor, ECED  
**Title :** Revitalizing Canolly Canal:  
Engineering a Unidirectional Flow for  
Cleaner Waters.  
**Project Amount :** 34,20,000/-



**PI :** Dr. Munavar Fairooz C,  
Assistant Professor, CED  
**Co-PI:** Dr. Harikrishna M, Associate  
Professor, CED  
Dr. Nishant Mukund Pawar,  
Assistant Professor, CED  
**Title :** AI-Driven Smart Parking  
Management System for Urban Special  
Events: A Case Study of the Beypore  
International Water Festival  
**Project Amount :** 15,01,120/-



**PI :** Dr. Bimal P,  
Assistant Professor, DAP  
**Co-PI:** Dr. Chithra K,  
Associate Professor, DAP  
Dr. Sanil Kumar,  
Assistant Professor, DAP  
**Title:** AI-Based Smart Decision  
Support System for Crowd  
Management  
**Project Amount:** 16,51,848/-



**PI :** Dr. Anantha Singh T. S, Assistant Professor, CED  
**Co-PI:** Dr. George. K. Varghese, Associate Professor,  
CED , Dr. Aswathy E. V, Assistant Professor, CED  
**Title:** Groundwater contamination from Septic  
tanks in Kozhikode city- Development of sustainable  
and location-specific solutions for mitigating  
groundwater contamination from septic tanks in  
Kozhikode, Kerala  
**Project Amount:** 15,26,400/-

× × × ×

# SPONSORED PROJECTS SECURED IN 2025

## MeitY



**PI : Dr. S.N. Deepa ,  
Associate Professor, EED**

**Title:** State-of-the-Art Indigenous Development of Battery Systems, and Telematics for Next-Generation Electric Vehicles  
**Project Amount:** 70,25,000/-

## IATSS



**PI : Dr. Yogeshwar V Navandar,  
Assistant Professor, CED**

**Title:** International Comparative Study on the Changes in Traffic Accident Risk due to Climate Changes.  
**Project Amount:** 5,72,448/-

## LSGD



**PI : Dr. Mohammed Firoz C,  
Associate Professor, DAP**  
**Co-PI : Dr. Shyni Anilkumar,  
Asst Professor, Dr. Sanil Kumar, Asst  
Professor, Dr. Jayasree T K, Asst  
Professor, Ar. Chenna Vivek Kumar,  
Asst Professor, Dr. Shraddha D  
Bahirat, Asst Professor, DAP**  
**Title:** Rationalisation of FSI in Kerala.  
**Project Amount:** 19,18,000/-

## M/s Stock well Solar Services Private Limited



**PI: Dr. Chandramani Chaudhary,  
Assistant Professor, CSED**

**Title:** Integrated Machine Learning Framework for Molecular Property Prediction in Alzheimer's Drug Discovery  
**Project Amount:** 6,05,000 /-

## Ministry of Mines



**PI : Dr. Noel Jacob Kaleekkal,  
Assistant Professor, CHED**

**Title:** Advancing circular economy developing polymer inclusion membranes(pims) for rare earth element recovery from e-waste  
**Project Amount:** 10,00,000/-

## MoES



**PI : Dr. Chithra NR  
Associate Professor, CED**

**Title:** Impacts of climate change on the probability of weather and hydrological extremes in India and role of global climatic teleconnections on these changes  
**Project Amount:** 38,11,720 /-

# SPONSORED PROJECTS SECURED IN 2025

## Solid Core X Brick Industry



**PI :** Dr. Susanta Banerjee,  
Assistant Professor, DAP  
**Co-PI:** Dr. Robin Davis,  
Associate Professor, CED  
**Title:** "Development and the  
viability assessment of eco friendly  
brick for conventional masonry  
construction."  
**Project Amount:** 9,26,916/-

## University of Groningen



**PI :** Dr. Panneerselvam  
Ranganathan, Associate  
Professor, CHED  
**Title:** Solid amendments and  
mapping in coffee farming at  
Wayanad.  
**Project Amount:** 2,00,000/-

## AICOE - NIREEKSHAN



**PI :** Dr. Prateek Negi,  
Assistant Professor, CED  
**C-PI:** Dr. Robin Davis ,  
Associate Professor, CED  
**Title:** Digital Twin for  
Infrastructure (including  
Physical Sensors)  
**Project Amount:** 7,20,86,400/-

## Visvesaraya

### Post Doctoral Research Fellowship

**Post Doctoral Fellow -**  
Dr. Asha Hind P,  
**Mentor -** Dr. Gaurav Siddharth,  
Assistant Professor, ECED  
**Amount -** 14,00,716/-

### Visvesvaraya Ph.D. Scheme for Electronics and IT: Phase-II

**Digital India Corporation**  
  
**Amount -** 1,45,23,200/-

## DST-INSPIRE Fellowship

**INSPIRE Fellow-** Henna Sherin P,  
**Supervisor :** Dr. Aji A Anappara,  
Professor, Physics  
**Amount:** 29,80,000/-

**INSPIRE Fellow-** Fathima T M,  
**Supervisor :** Dr. S. Gokulraj, Asst.  
Professor, MAT  
**Amount:** 29,80,000/-

# CONSULTANCY PROJECTS - 2025

SI No	Name of the faculty & Designation	Department	Title of the project	Category	Name of the agency	Amount sanctioned (INR)
1	<b>Dr. Fathima Fasmin</b> Assistant Professor	Chemical Engineering	Creation of educational content	Industry	Prosera LLC	<b>2,88,000</b>
2	<b>Dr. Sai Saketha Chandra Athkuri</b> Assistant Professor	Mechanical Engineering	Development of FDR Data Retrieval and Analysis for KM 31 helicopter	Government	Indian Navy	<b>1,77,000</b>
3	<b>Dr. Biju T Kuzhiveli</b> Professor	Mechanical Engineering & Chemical Engineering	Turbo Expanders-Design and Development of Expansion Turbine for Natural Gas Energy Recovery	Industry	RSA Turbotech Pvt. Ltd & Gasotech Consultancy & Marketing Services	<b>19,12,500</b>
4	<b>Dr. Sai Saketha Chandra Athkuri</b> Assistant Professor	Mechanical Engineering	Global Professor of Practice	Industry	Golden Gate University (partnered with upGrad)	<b>12,26,822</b>
5	<b>Dr. Biju T Kuzhiveli</b> Professor	Mechanical & Electrical Engineering	High Speed Turbo Brayton ACM-Design and Development	Industry	SANPAR Industries Pvt. Ltd	<b>17,70,000</b>
6	<b>Dr. Renjitha Mary Varghese</b> Assistant Professor	Civil Engineering	Soil Investigation and Design of Cement Concrete Road at FCI, FSD Kochi at Willingdon Island	Government	Food Cooperation of India, Kochi	<b>1,18,000</b>



तमसो मा ज्योतिर्गमय

# CONSULTANCY PROJECTS - 2025



7	<b>Dr. B Radhika</b> Assistant Professor	Civil Engineering	Structural audit work at Canara Bank Staff Quarters (Buildings A, B and C) at Paraivattom, Ernakulam, Kerala	Any other	Canara Bank	<b>11,80,000</b>
8	<b>Dr. Vinod Kumar Sharma</b> Assistant Professor	Mechanical Engineering	Design and development of Autoclave suitable for Hydrogen Embrittlement testing of metal samples and filter components	Industry	Filt Red India Technologies Private Limited	<b>4,87,934</b>
9	<b>Dr. Mohammed Rashad K</b> Assistant Professor	Mechanical Engineering	Development of a hybrid Al <sub>2</sub> O <sub>3</sub> -spinel+ fused silica lining for coreless induction furnace	Industry	VS Refractory Consultancy Services	<b>7,61,943</b>
10	<b>Dr. M Abdul Akbar</b> Assistant Professor	Civil Engineering	Vetting of Structural Drawings of Health Centre Building, Kannur Railway Redevelopment project	Industry	Uninest Developers Private Limited	<b>14,22,340</b>
11	<b>Dr. M Abdul Akbar</b> Assistant Professor	Civil Engineering	Structural Audit of Canara Bank owned building	Government	Canara Bank	<b>2,36,000</b>
12	<b>Dr. M Abdul Akbar</b> Assistant Professor	Civil Engineering	Structural Condition assesment of Kerala Maritime Insitute, Kondungallur	Government	Kerala Maritime Board	<b>1,18,000</b>
13	<b>Dr. M Abdul Akbar</b> Assistant Professor	Civil Engineering	Building fitness certificate for Brainy Kids Montessori School	Any other	Brainy Kids Montessori School	<b>47,200</b>

# CONSULTANCY PROJECTS - 2025

14	<b>Dr. M Abdul Akbar</b> Assistant Professor	Civil Engineering	Building Stability Certificate for GreenHills Public School	Any other	Meenakshi Charitable Trust	<b>47,200</b>
15	<b>Dr. M Abdul Akbar</b> Assistant Professor	Civil Engineering	Structural audit of existing Matsyafed Ice Plant	Government	Matsyafed, the Kerala state Co-operative Federation for Fisheries Development Ltd	<b>59,000</b>
16	<b>Dr. M Abdul Akbar</b> Assistant Professor	Civil Engineering	Third party review of Glass Bridge at Athirapally	Industry	Raskor Venture LLP	<b>1,53,400</b>
17	<b>Dr. B Radhika</b> Assistant Professor	Civil Engineering	Scrutinizing and vetting of structural design of the work 'Construction of S.F. with sheet roofing over science block (using RUSA Funda) at Govt. College Malappuram	Government	PWD Buildings Division Malappuram	<b>1,18,000</b>
18	<b>Dr. Sajith A S</b> Professor	Civil Engineering	Total consultancy for Centre for Advanced Livestock Production and Research (CALPR) for Kerala Live Stock Development Board	Government	Kerala Livestock Development Board	<b>80,00,000</b>
19	<b>Dr. Rohan Bhasker</b> Assistant Professor	Civil Engineering	Structural Audit of Bank of India Building, Calicut	Any other	Bank of India	<b>1,00,000</b>

# CONSULTANCY PROJECTS - 2025

20	<b>Dr. Soney Varghese, Professor</b>	Material Science and Engineering	OEN Indian Ltd Consultancy work-Relay sample analysis	Any other	OEN Indian Ltd	<b>36,816</b>
21	<b>Dr. Ajeesh S S, Assistant Professor</b>	Civil Engineering	Third party review of adcertising hoarding at karipur Airport	Any Other	Marquies Advertising and Marketing	<b>29,500</b>
22	<b>Dr. Ajeesh S S, Assistant Professor</b>	Civil Engineering	Truss design to convert Northern Light (Saw tooth) roof truss to single span roof truss at FCI. FSD kochi Site A at Willingdon island"	Government	Food Corporation	<b>2,65,500</b>
23	<b>Dr. Sajith A S , Professor</b>	Civil Engineering	MPLADS Project at Amruthabharathi Vidyanikethan, Payyoli, Kozhikode	Industry	The Chairman Construction Committee	<b>17,700</b>
24	<b>HOD</b>	Civil Engineering	Third party review of kodikuthimala tower	<b>Government</b>	FCG Entertainments LLP	<b>2,47,800</b>
25	<b>Dr. Ranjith K , Assistant Professor</b>	Civil Engineering	Structural Audit Report of Brainy Kids Montessori School,Areekode	Any other	Najna VP, Principal Briny kid Montessori School	<b>47,000</b>
26	<b>Dr. Sajith A S , Professor</b>	Civil Engineering	Kerala Adventure Tourism Promotion Society(KSTPA)Department of Tourism, Government Of Kerala	Government Of Kerala	The Direct, Office of the Tourism	<b>1,18,000</b>



# CONSULTANCY PROJECTS - 2025

27	<b>Dr. Ajeesh S S Assistant Professor</b>	Civil Engineering	Third party review of foundation and PED drawings of warehouse at Trans Asia warehouse logistics part, Ambattur	Private Limited	Transasta Logistics Park(Chennai) Private Limited	<b>2,36,000</b>
28	<b>Dr. Anjana Bhasi, Assistant Professor</b>	Civil Engineering	Soil investigation report for M/s engineers Diagnostic Center Pvt. Ltd, Ernakulam	Private Limited	Engineers Diagnostic Centre	<b>59,000</b>
29	<b>Dr. Anjana Bhasi, Assistant Professor</b>	Civil Engineering	Soil investigation report for Railway crossing application for Perinthalmanna municipality Phase I	Private	Fakrudheen Ali Ahammed, Malapuuram	<b>17,700</b>
30	<b>Dr. Anil Kumar Dash Assistant Professor</b>	Civil Engineering	Structural Audit Work of Canara Bank Staff Quarters (Building A, B& C at Palivattom, Ernakulam, Kerala	Any Other	Mr. Pratheesh M V, Sr. Manager (Technical) Canara Bank Premises & Estate Section circle Office Thiruvananthapuram	<b>10,60,000</b>
31	<b>Dr. Sajith A S Assistant Professor</b>	Civil Engineering	The Design Surutingy of the Substructure design of the ROB at Chala cutting, Kannur for Southern Railways	Industry	C.X Varghese, Chakkanatt House,vytila P.O	<b>59,000</b>
32	<b>Dr. Sajith A S , Professor</b>	Civil Engineering	Increasing the thickness of the RCC slab above PETSEAN Facility in Medical College Hospital, Kozhikode	AnyOther	The Superintendent, Institute of Material and Child Health, Govt Medical college Hospital Kozhikode	<b>11,800</b>
33	<b>Dr. Gopakumar Pathirikkat</b>	Electrical Engineering	NeST Digital PVT LTD to design the control for a power conversion system for reused energy storage	Private Limited	NeST Digital Private Limited	<b>30680</b>

# CONSULTANCY PROJECTS - 2025



34	<b>Dr. Rijil Ramchand Professor</b>	Electrical Engineering	he Design of a 40kW power amplifier for SONAR application by SFO Technologies PVT. LTD	Private Limited	SFO Tecnologies PVT. LTD	<b>3,04,950</b>
35	<b>Dr. Santosh G Thampi Professor</b>	Civil Engineering	KIIFB project Urgent rectification and protecting right side banks of check dam across Bharatapuzha at Mannannur in Vaniyamkulam panchayat, Palakkad District	Any Other	Kerala Irrigation Infrastructure Development Corporation Limited	<b>2,36,000</b>
36	<b>Dr. Ranjith K Assistant Professor</b>	Civil Engineering	Structural Stability Assessment of Two-Storey commercial Building at Silk Street Calicut	Any Other	Chief Manager, Ernakulam Zonal office	<b>1,18,000</b>
37	<b>Dr. Ajeesh S Assistant Professor</b>	Civil Engineering	Third Party audit of Glass bridge at Adivaram	Industry	M/S Viora Adventure Park Ward04410r Adivaram	<b>1,53,000</b>
38	<b>Dr. Kondalraj , Assistant Professor,</b>	Civil Engineering	Request for investigation and recommendations regarding formwork failure at Thorayikadavu bridge	Any Other	P.M. R Construction company, Melmuri malappuram kerala	<b>59,000</b>
39	<b>Dr. K. Ranga Swamy Assistant Professor</b>	Civil Engineering	Soil investigation for the proposed pipe line crossing along railway track for CWGM from Kunnumpuram in Tanur Municipality	Private Limited	PSB Constructions, pilling & Sinking contractors, 3rd floor, Commercial building, opp. IOC, Thenhippalam, Malappuram	<b>9,095</b>
40	<b>Dr. K. Ranga Swamy, Assistant Professor</b>	Civil Engineering	To conduct soil investigation and testing of soil sample collected from work sit at kuttiputam SBC, assessment, Thirunnavaya, Athavanad and Marakkara Panchayaths	Private Limited	Reena Engineers and contractors Pvt. Ltd	<b>3,04,950</b>

# CONSULTANCY PROJECTS - 2025

41	<b>Dr. Vinod kumar Sharma</b>	Mechanical Engineering	Design and development of Autoclave suitable for Hydrogen Embrittlement testing of metal sample and filter components	Private Limited	-	<b>2,06,752</b>
42	<b>Dr. Ajeesh S S ,Assistant Professor,</b>	Civil Engineering	Third Party audit of Glass bridge at Athirapally	Private Limited	Raskor Ventrue LLP	<b>1,53,400</b>
43	<b>Dr. Anil Kumar,Assistant Professor</b>	Civil Engineering	Inspection and Investigation of RE Facia Wall Condition-Four-Laning of ROB Section NH-17 ( New NH-66)from Km93+468(Existing Km 95+650) to Km 94+248(Existing Km 96+450) -Neeleshwaram Town(Pallikara Railway Gate),Kasaragod Districk, Kerala"	Industry	SL Living Spaces Private Limited, 3rd Floor, Sy No.116/17,Pride Hulkul, Lalbagh Road, Bengaluru-560027	<b>94,400</b>
44	<b>Dr. Sharan Kumar Goudar, Assistant Professor</b>	Civil Engineering	Checking and Assessing the Structreal Stability and Soil Stabilitiy of Building And Surrounding Soil at Thazhe Chelari, Panakkad, Chettippadi Road, Velimukku PO, Monniyur (V), Thirurangadi, Malappuram, Kerala-676317"	Any Other	Client: Meenakshi Charitable Trust. Floorm Sulthan Bathery, Moolankave P.O, WayanadGST (NIL)	<b>94,400</b>
45	<b>Dr. M Abdul Akbar, Assistant Professor,</b>	Civil Engineering	Building Stability Certificate for the newly completed Block at Greenhils public School	Private Limited	CHerian Varkey construction Company Pvt Ltd. Alpha Plaza, K.p Clon Road Coch Pin-682020	<b>47,200</b>
46	<b>Dr. Anil Kumar, Assistant Professor,</b>	Civil Engineering	KSCADC-KIIFB-Construction of fishing harbour at parappanangadi in Mallapuram Distric	Private Limited	Cherian Varkey construction company	<b>59,000</b>

# CONSULTANCY PROJECTS - 2025

47	<b>Dr. Anil Kumar Dash, Assistant Professor,</b>	Civil Engineering	Structural Audit of South Block, Income Tax Office, Kozhikode	Government	-	<b>47,200</b>
48	<b>Dr. Mohammed Rashad K , Assistant Professor,</b>	Mechanical Engineering	Development of a hybrid Al <sub>2</sub> O <sub>3</sub> - Spinel+fused silica lining for coreless induction furnace	Private Limited	VS Refractory Consultancy Services	<b>5,35,216</b>
49	<b>Dr. Ajeesh S S , Assistant Professor,</b>	Civil Engineering	Design Vetting of CWC Warehose Project at Chennai	Private Limited	Trans Asia Logistics park(Chennai)Pvt.Ltd.	<b>1,62,000</b>
50	<b>Dr. Ajeesh S S , Assistant Professor,</b>	Civil Engineering	Design vetting for the classroom building, Govt. Model Arts and Science college, kulathur, Thiruvananthapuram	Private	C Disc Technologies	<b>47,200</b>
51	<b>Dr.Santosh G Thampi, Professor,</b>	Civil Engineering	Jal Jeevan Mission-CWSS to kuttippuram, Thirunavaya, Athavanad,and Marakkara Panchayats	Government	The Executive EngineerOffice of the Executive Engineer,Project Division,Malappuram	<b>177000</b>



तमसो मा ज्योतिर्गमय

# COMPLETED AND CLOSED PROJECTS IN 2025

Principal Investigator	Funding agency/ Scheme	Project details Grant No. /DOS/Date of Completion	Title of the project	Financial Details	Project Outcome Number of SCI/Scopus publications and Details of Patent granted
Dr.Venu Anand, Assistant Professor, ECED	SERB	Sanction Order No. SRG/2020/002343 dated 27.10.2020, Date of comp. 15 Jan. 2023	Development of a diagnostic tool for Cold Atmospheric Plasma.	Amount received: Rs. 2190230 Amount Utilized: Rs. 2135458	2 Publication, 1 conference
Dr. Aswathy R Nair Assistant Professor, ECED	SERB	Sanction Order No. SRG/2020/000728 dated 23.10.2020 Date of Completion: 13/01/2023	Fabrication and characterization of ZnON based photo sensors.	Amount received: Rs. 2510643 Amount Utilized: Rs. 2445012.5	4 SCI journal publications, 1 Scopus indexed conference publication
Dr. Muniyandi Sankaralingam Assistant professor, CHY	DST/INSPIRE	Sanction Order No. DST/INSPIRE/Fellowship/2017/IF170 136 dated 08.06.2018, Date of comp. 08/08/2022	Award of INSPIRE Fellowship (Ms. Athulyadas) in Basic and Applied Sciences.	Amount received: Rs. 2166233 Amount Utilized: Rs. 2119736	SCI publications: 08 and Patent: 01
Dr. Mini mol Menamparambath Assistant professor, CHY	DST	Offer Letter No. DST/INSPIRE/04/2015/002050 dated 15.02.2016, Date of comp. 20/04/2022	Nanomaterial-Polymer Compsites for Printable Electronics, Sensors and also for Energy related applications.	Amount received: Rs. 5220460 Amount Utilized: Rs. 5220178	Journal Papers - 11; Patents granted -3; PhD produced - 2
Dr. Anjana Bhasi Assistant professor, CED	SERB	Sanction Order No. ECR/2017/000445 dated 03.04.2017 & 31.08.2018, Date of comp. 14.12.2020	Investigation in to the Design and Performance Analysis of Encased Stone Column supported Embankments with Geocells as Basal Reinforcement.	Amount received: Rs. 3282436 Amount Utilized: Rs. 2606787	Journal Papers – 8 Coference- 12
Dr. Sreelekha G Professor, ECED	SERB	Sanction Order No. CRG/2018/004934 dated 28.03.2019, Date of comp. 29/03/2022	An Intelligent System for Retinopathy of Prematurity (ROP) Screening and Diagnosis.	Amount received: Rs. 2793080 Amount Utilized: Rs. 2581354	Journal - 1; Conference - 4; Patent - 1 (filed)



**Principal Investigator**

**Funding agency/  
Scheme**

**Project details  
Grant No. /DOS/Date of  
Completion**

**Title of the project**

**Financial Details**

**Project Outcome  
Number of SCI/Scopus  
publications and Details  
of Patent granted**

<b>Dr. Suresh P S Associate Professor, BSED</b>	DBT	Sanction Order No. BT/PR16307/MED/30/1729/2016 dated 19.01.2018, Date of comp. 18/7/2021	Exploration of the Diagnostic/Therapeutic Potential of Non-coding RNAs- Phosphatase-HER2-UPAR cross talk in breast cancer.	Amount received: Rs. 4900804 Amount Utilized: Rs 4273099	6 publications
<b>Dr. Nikhil Sasidharan Assistant Professor, EED</b>	SPARC	Sanction Order No. SPARC/2018- 2019/P512/SL dated 15.03.2019, Date of comp.- 30.09.2023	A Resilient DC Community Grid for the Provision of Ancillary Services to Local Grid.	Amount received: Rs. 1400000 Amount Utilized: Rs. 1400000	5 sci publication and 2 patents
<b>Dr. A. Shaija Professor, MED</b>	KSCSTE	Sanction Order No. 1237/2015/KSCSTE dated 31.03.2015, Date of comp.- 30.06.2018	Production of Bio diesel from Chlorella Vulgaris (Micro Algae), Salvinia Molesta (Fresh Waer Weed) and Investigation on its use in single Cylinder diesel engine.	Amount received: Rs. 997187 Amount Utilized: Rs. 974415	3 Journals, 5 publications
<b>Dr. Sujatha S, Mentor- Dr. Parameswaran P. Professor, CHY</b>	DST-WOS A	Sanction Order No. SR/WOS-A/CS- 82/2016(G) dated 23.10.2017, Date of comp.- 11.05.2020	Cationic Mesothienylporphyrins and its Transition Metal Complexes: Synthesis, Photophysical, Electrochemical Studies and DNA Interaction.	Amount received: Rs. 2843500 Amount Utilized: Rs. 2842648	Journal Papers published-6; Patent -1
<b>Dr. Anuj A Vargeese Assistant Professor, CHY</b>	DRDO	Santion order No: ARMREB/HEM/2021/241 dated 26.07.2021, Date of comp.- 06.01.2025	Development of Spray Evaporation Technique for the Preparation of Uniform Microparticles of Ammonium Dinitramide and Surface Modification by Atomized Spray Coating Method.	Amount received: Rs. 8010237 Amount Utilized: Rs. 7993341	No. of papers published in National conference -3, No. of papers published in International conference-2, International Journals- 5, No. of patents- 2
<b>Dr. Raghu chatanthodi Professor, PHY</b>	SERB	Sanction Order No.TAR/2018/000637 dated 27.02.2019, Date of comp.- 03- Mar-2025	SERB Project under TARE.	Amount received: Rs. 3315000 Amount Utilized: Rs. 2715000	3 SCI



तमसो मा ज्योतिर्गमय



Principal Investigator	Funding agency/ Scheme	Project details Grant No. /DOS/Date of Completion	Title of the project	Financial Details	Project Outcome Number of SCI/Scopus publications and Details of Patent granted
Dr. Mini mol Menamparambath Assistant professor CHY	SERB	Sanction Order No. EEQ/2019/000606 dated 14.11.2019, Date of comp.- 24/05/2023	Two-Dimensionally Tailored Conductive Polymer Ntworks for Multi-Functional Applications	Amount received: Rs. 3302115 Amount Utilized: Rs. 3203801	Indian Patents - 3 Journal Publciations - 8 PhD produced - 2
Dr. Deepak Lawrence K Professor, MED	SERB	Sanction Order No. ECR/2017/000839 DATED 23.06.2017, Date of comp.- 14.07.2021	Investigations in to the influence of 3-D surface topographic parameters and cross-hatch angle of cylinder liner surface.	Amount received: Rs. 2440415 Amount Utilized: Rs. 2211425	4 SCI Journal papers , 3 Q1 and 1 Q2
Dr. Raju Dey Assistant professor, CHY	SERB	Sanction Order No. SRG/2020/002161 dated 27.11.2020, Date of comp.- 23.03.2023	Design and Synthesis of novel single-atom catalysts for C-C bond cleavage and C-C bond formation reactions	Amount received: Rs. 2630000 Amount Utilized: Rs. 2630000	6 SCI papers
Dr. Sajith V Professor, MSED	CVRDE	CVRDE/17CR0004/WKS/16-17/LP dated 16.06.2016 & 05.07.2016, Date of comp.- 17.08.2019	Development of Nano Lubricant for Diesel Engines	Amount received: Rs. 4250460 Amount Utilized:	1 patent
Dr. Panneerselvam Associate Professor, CHED	SERB	Sanction Order No. ECR/2018/000912 dated 22.03.2019, Date of comp.- 2022	Process Intensification of Post-Combustion Co2 Capture using Rotating Packed Bed Reactor Concept	Amount received: Rs. 2662460 Amount Utilized: Rs. 2505164	Journals published : 4, CO2 capture process achieved at TRL 3
Dr. Deepthi P P Professor, ECE	ISRO	Sanction Order No. ISRO/RES/3/824/19020 dated 19.07.2019 Date of comp. 19-07-2024	VLSI Implementation of Low Density Parity Check (LDPC) Encoder/Decoder for on-board/ground satellite applications	Amount received: 27.7069 Lakhs Amount Utilized: 26.25967 Lakhs	1 Conference paper and System Porotype in Hardware



तमसो मा ज्योतिर्गमय

# Major Funding support



**Ministry of Education**

Government of India



**Anusandhan  
National  
Research  
Foundation**



सत्यमेव जयते

विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
**SCIENCE & TECHNOLOGY**



सत्यमेव जयते

इलेक्ट्रॉनिक्स एवं  
सूचना प्रौद्योगिकी मंत्रालय  
MINISTRY OF  
**ELECTRONICS AND  
INFORMATION TECHNOLOGY**



सत्यमेव जयते

**DEPARTMENT OF BIOTECHNOLOGY**  
Ministry of Science & Technology  
Government of India



**CEFIPRA**



Scheme for Promotion of Academic and Research Collaboration





**The journey to excellence continues...**