



# A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

NH-66, Kottara Chowki, Mangaluru -575006, Karnataka, INDIA

A Unit of Laxmi Memorial Education Trust®

(Approved by AICTE, New Delhi. Affiliated to Visveswaraya Technological University, Belagavi)

Accredited by NBA (BE: CV, CSE, ECE, ISE, ME)

## 3.1.1. Grants received from Government and Non-Governmental agencies for research projects / endowments in the institution during the last five years

3.1.1.1: Total Grants from Government and Non-Governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Year	2023-24	2022-23	2021-22	2020-21	2019-20
Grant in Lakhs	3.340	8.105	6.570	3.545	3.075

### List of Grants received for research projects / endowments in past five years

Name of the research project/ endowment	Year of Award	Amount Sanctioned in Lakhs	Link to Document
Advancing Throat Disease Detection through Video Laryngoscopy	2023-24	1	<a href="#">UNDP-2023-24</a>
Empowering Farmers through Shared Resources and Sustainable Agricultural Practices with Veg Shell Community	2023-24	1	
Empowering Deaf and Mute Communication through AI Driven Translation and Community Building	2023-24	1	
Hand to Heart: AI-Driven Translation System	2023-24	0.05	<a href="#">KSCST-SPP-47<sup>th</sup> SERIES</a>
360-Degree Feedback Software for the Government Press Information Bureau (PIB) Using Artificial Intelligence and Machine Learning	2023-24	0.05	
AI Assisted Distracted Driver Detection System	2023-24	0.05	
Energy Efficient Street Lightening with Real Time Data Monitoring	2023-24	0.055	
Enhancing Road Safety with Machine Learning-Based Pothole Detection	2023-24	0.04	
Machine Learning for Early-Stage Autism Detection	2023-24	0.04	



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Effect of Cardanol Blending on the Performance, Emission, Combustion & Cycle to Cyle Variation Characteristics of Single Cylinder CI Engine with Oxygen Enrichment	2023-24	0.055	
Low-Cost Spirometer	2022-23	0.4	<a href="#">UNDP-LCS</a>
Pre-Plastered Concrete Block	2022-23	0.4	<a href="#">UNDP-PCB</a>
BIO and NON-BIO waste segregator	2022-23	0.05	<a href="#">KSCST-SPP-46th SERIES</a>
Application of Geopolymer in Dome Structures	2022-23	0.05	
Investigation On Performance Enhancement of Photovoltaic-Thermoelectric Integrated System	2022-23	0.08	
Textify - Lip Reading to Text for Dumb and Deaf people	2022-23	0.05	
Low-Cost Smart Spirometer	2022-23	0.05	
BILIRUBINOMETER	2022-23	0.05	
Evaluation of Metal Contamination Risk of Ground and Surface Water Near Municipal Solid Waste Duping Site Area Mangalore: Overview of Pollution Indices with Risk Assessment and Application of Low Cost Water Filter.	2022-23	0.5	<a href="#">KSCST-FPP</a>
Materials Today Proceedings GC-RASM 2022	2022-23	4.225	<a href="#">GC-RASM 2022</a>
2 Days Training Program on Go-Kart Design and Development	2022-23	0.35	<a href="#">Go-Kart</a>
Electronic Conference Proceedings in IOP-MSE of GC-RDCT 2022	2022-23	1.9	<a href="#">GC-RDCT 2022</a>
Esperanza-IOT Buddy@Home	2021-22	0.06	<a href="#">KSCST-SPP-45<sup>TH</sup> SERIES</a>
Low cost sensor based kit to detect the GHG gas emissions from sewage and industrial effluents in Mangalore and public awareness survey of the same	2021-22	0.07	



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Strength evaluation of steel plate girder using Staad pro	2021-22	0.04	
Evaluation of physiochemical characteristics and metal contamination risk in Nethravathi and Gurupura river basin: Overview of pollution indices with risk assessment and application of low-cost water filter.	2021-22	0.07	
A novel plastic waste management system to control Air-pollution	2021-22	0.07	
Fire Extinguisher using sound waves	2021-22	0.075	
Production of fuel from waste plastic material through injection moulding process	2021-22	0.1	
Image regeneration for old damaged reel picture	2021-22	0.045	
Chronic disease prediction after covid-19 using machine learning	2021-22	0.03	
Breast cancer histopathology image classification using machine learning	2021-22	0.05	
Object Detection based Garbage Collection Robot	2021-22	0.06	
Materials Today Proceedings of GC-RASM 2021	2021-22	3.5	<a href="#">GC-RASM 2021</a>
Electronic Conference Proceedings in IOP-MSE of GC-RDCT 2021	2021-22	1.9	<a href="#">GC-RDCT 2021</a>
Smart Wheel Chair	2021-22	0.05	
Low-cost sensor-based kit to detect the GHG gas emissions from sewage and industrial effluents in Mangalore and public awareness survey of the same	2021-22	0.05	<a href="#">VTU INNOVATIVE GRANT 21-22</a>
Water quality analysis around AJIET campus	2021-22	0.05	
Low cost Prosthetic Arm	2021-22	0.05	
E- Voting System using Block chain technology	2021-22	0.05	



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Detection and classification of brain tumor with MRI scan using deep learning	2021-22	0.05	
Android App for Dairy Farmers	2021-22	0.05	
Sign Language Recognition	2021-22	0.05	
Electricity generation from hydrodynamic behavior of floating substances in directional seas	2021-22	0.05	
Experimental and Computational analysis of Co-centric tube heat exchanger with pin-fin	2021-22	0.05	
Medical Aid Kit	2020-21	0.05	<u>VTU INNOVATIVE GRANT 20-21</u>
Learning Alphabets and Numbers from Gesture Recognition for Visual Impaired Children	2020-21	0.05	
Design of Eco-friendly waste water treatment process by using constructed soil filter.	2020-21	0.05	
Role of lake water reuse in sustainable development of city	2020-21	0.05	
Solar refrigeration using vapour adsorption cycle	2020- 21	0.05	
Design and fabrication of shredder machine for recycling of Polyethylene terephthalate (PET) waste	2020- 21	0.05	
Smart Cane for Visually impaired	2020-21	0.05	
Smart Menstrual Cup	2020-21	0.05	
Women safety app	2020-21	0.05	
Covid detection using deep learning	2020-21	0.05	
Homato	2020-21	0.1	<u>FKCCI</u>
Sustainable and safe reuse of municipal sewage sludge for phosphorous recovery - A study on Mangalore Municipal Sewage Sludge	2020-21	0.06	<u>KSCST-SPP-44<sup>TH</sup> SERIES</u>
Geopolymer Concrete using Flyash and GGBS	2020-21	0.05	



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Performance Combustion and Emission Characteristics of Single Cylinder CI Engine with WCO Biodiesel And Nanoparticles With Oxygen Enrichment Process	2020- 21	0.06	
Mechanical Pocket Manuring	2020- 21	0.05	
Automatic Solar Powered Railway Track Crack Detecting Vehicle	2020- 21	0.05	
Automated Drain Cleaning Machine	2020- 21	0.07	
Covid detection using deep learning	2020-21	0.025	
Computational Model for the Static Analysis of Steel Composite Plate Girder	2020-21	2.58	<a href="#">VGST-RGS/F</a>
Design and Development of IOT based Smart Door for House Security	2019-20	0.045	
Automated Parking System	2019-20	0.045	
L KART	2019-20	0.045	
A proposed plan for rejuvenate and study of hydraulic response of the Kavor lake – Mangalore urban	2019-20	0.05	
Assessment of surface and ground water quality near municipal solid waste dumping site area, Vamanjoor, Mangalore, India.	2019-20	0.05	<a href="#">KSCST-SPP-43<sup>RD</sup> SERIES</a>
Performance, Combustion and Emission Characteristics of Single Cylinder CI Engine with WCO Biodiesel and Nanoparticles	2019-20	0.05	
Automation on conversion of waste into fertilizer using IOT for urban area	2019-20	0.04	
Voice controlled Wheel Chair	2019-20	0.05	
Water Quality Monitoring System using IOT	2019-20	0.05	<a href="#">VTU INNOVATIVE GRANT 19-20</a>
Kannada Language Sentiment Analysis using baseline and ML	2019-20	0.05	



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A proposed plan for rejuvenate and study of hydraulic response of the Kavor lake – Mangalore urban	2019-20	0.05	
Assessment of surface and ground water quality near municipal solid waste dumping site area, Vamanjoor, Mangalore, India.	2019-20	0.05	
Solid waste management, Title: Design and Fabrication of waste segregator using Delta Robot	2019-20	0.05	
GARUDA – Recon and Attack Drone	2019-20	0.05	
Effective way of conversion of waste into fertilizer using machine learning for Urban Area	2019-20	0.05	
Real-Time hand sign recognition using machine learning for deaf and hearing-impaired people	2019-20	0.05	
Voice controlled Wheel Chair	2019-20	0.05	
Leaf Disease detection using Image processing	2019-20	0.05	
Voice controlled Wheel Chair	2019-20	0.2	<a href="#">VTU AVISHKAR</a>
Fabrication of self -assembled Inorganic Nano patterns for Superior Photovoltaic Device Applications	2019-20	2	<a href="#">VTU-TEQIP</a>