



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)

3.3.1. Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years

Our faculty members have published their research work in various international journals of repute. College is continuously supporting and motivating for publications. Following table illustrates the publications of our faculty in the last five years. Also, link in the institutional website is provided in the last column.

Year	2023-24	2022-23	2021-22	2020-21	2019-20
Number	25	33	29	26	19

List of Papers published in Journals with their Link in the Institutional Website

Sl. No.	Title of paper	Academic year	Link in the Institutional Website
1.	XOR Vector space-based S-Box generation and its application to DES and AES for the time-efficient image encryption	2023-24	View Documents
2.	Arnicolide D: a multi-targeted anticancer sesquiterpene lactone—preclinical efficacy and mechanistic insights	2023-24	View Documents
3.	Synthesis, crystal structure, Hirshfeld surface analysis, energy frameworks, and DFT calculations of (2e)-3-(dimethylamino)-1-[5-methyl-1-(4-nitrophenyl)-1h-1,2,3-triazol-4-yl]prop-2-en-1-one	2023-24	View Documents
4.	Panoptic Region Slicing Segmentation and Optimized Alexnet-Based CNN for Early Melanoma Diagnosis	2023-24	View Documents
5.	A survey on wireless sensor network (applications and architecture)	2023-24	View Documents
6.	Design, Implementation and Analysis of HIBRI Cipher on IoT Platforms	2023-24	View Documents
7.	A Unified Approach Toward Security Audit and Compliance in Cloud Computing	2023-24	View Documents
8.	On a new class of integrals involving generalized hypergeometric functions.	2023-24	View Documents



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)

9.	Toxic Comments Detection and Classifier	2023-24	View Documents
10.	Characterization of the Surface Lake and Evaluation of Its Benefits on Unconfined Aquifer Interaction—A Study on Coastal Karnataka Lake, India	2023-24	View Documents
11.	Brain tumor detection with deep learning using CNN	2023-24	View Documents
12.	Personal virtual doctor	2023-24	View Documents
13.	Microstructure and surface characterization of copper and zinc added heat treated stir cast A356 alloy	2023-24	View Documents
14.	Tribological simulation analysis of artificially aged A356 alloy with minor addition of copper and zinc	2023-24	View Documents
15.	Social media-based hate speech and stress identification through Machine learning and Natural language processing	2023-24	View Documents
16.	DRIVESAFE- The Emotive transport initiative	2023-24	View Documents
17.	Step Simple – Guiding the Visually Challenged	2023-24	View Documents
18.	Knee-Jerk Reaction for Protecting Agricultural Farms from Invasion of Wild Animals	2023-24	View Documents
19.	Karmik Connect: Revolutionizing the Daily Wage Labor Market	2023-24	View Documents
20.	Autospa for Automobile Wash and Services	2023-24	View Documents
21.	Revolutionizing Car Care: A Mobile Application for Seamless Automobile Wash and Service management	2023-24	View Documents
22.	A combined fuzzy backtracking search optimization algorithm to localize retinal blood vessels for Diabetic Retinopathy.	2023-24	View Documents
23.	Improvement in Corrosion Performance of ECAPed AZ80/91 Mg Alloys Using SS316 HVOF Coating	2023-24	View Documents



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)

24.	Secured Authentication of RFID Devices Using Lightweight Block Ciphers on FPGA Platforms	2023-24	View Documents
25.	Community input to quantification of lake restoration benefits: a pilot study of coastal Karnataka Lake, India	2023-24	View Documents
26.	Historical water body changes using spatio-temporal Indices- a case study of Dakshina Kannada	2022-23	View Documents
27.	Influence of Treated Coir Fiber on Durability Properties of Black Cotton Soil	2022-23	View Documents
28.	Sismic Performance And Retrofit For Yuvaraja's College: The Case Study	2022-23	View Documents
29.	Metal complex based on chitosan Schiff base as potent antimicrobial and Antioxidants	2022-23	View Documents
30.	Enhancement of video condensation with video browsing and retrieval for surveillance videos using heuristic-derived deep learning algorithm.	2022-23	View Documents
31.	ORPHANHUB: Orphanage learn earn and donation based application	2022-23	View Documents
32.	AI as a new psychotherapist-to learn and fight mental illness	2022-23	View Documents
33.	Textify-Lip reading to text	2022-23	View Documents
34.	Cattle disease diagnosis using deep learning	2022-23	View Documents
35.	Emotify-Emotion based music player	2022-23	View Documents
36.	Self-driving vehicle controller assistant	2022-23	View Documents
37.	Method for generating descriptions for clothing images to support intelligent systems	2022-23	View Documents
38.	Forensic Desk-Face sketch and recognition	2022-23	View Documents
39.	Transparent charity application using block chain	2022-23	View Documents
40.	Make purchase easy-A Purchase recommendation android application	2022-23	View Documents



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)

41.	Public work department fund allocation and tender tracking system using block chain	2022-23	View Documents
42.	Gammadion based Local Binary Pattern with Shearlet coefficients for palm print recognition	2022-23	View Documents
43.	An insight to the decadal land use land cover changes of Dakshina Kannada district	2022-23	View Documents
44.	Flood Monitoring and Alert System using IOT	2022-23	View Documents
45.	Smart Surveillance System Using Machine Learning	2022-23	View Documents
46.	Social Platform for Auctioning In-Demand Tour Plans to Agencies	2022-23	View Documents
47.	Android Messenger Application Using Flutter	2022-23	View Documents
48.	Gesture Controlled Swarm of Mini Aerial vehicles	2022-23	View Documents
49.	Lung Cancer Prediction With CT Scan Images Using Machine Learning	2022-23	View Documents
50.	Student Sentiment Analysis using NLP and ML	2022-23	View Documents
51.	Hand Gesture Recognition System to Control Keyboard functions	2022-23	View Documents
52.	Image colorization and Detection using machine learning	2022-23	View Documents
53.	A Survey Paper on Brain Tumor Detection	2022-23	View Documents
54.	AI Yoga Gesture Estimation	2022-23	View Documents
55.	Wave reflection coefficient prediction for emerged semicircular breakwater using a novel hybrid approach of GA-ANFIS	2022-23	View Documents
56.	Investigations on structural, optical and electrical properties of microwave-assisted rGO:ZnO nanocomposite thin films	2022-23	View Documents
57.	Hybrid meta heuristic technique load balancing for cloud based virtual machines	2022-23	View Documents



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)

58.	Deep learning approach for Touchless Palm print Recognition based on Alexnet and Fuzzy Support Vector Machine	2022-23	View Documents
59.	Temperature stresses in Functionally graded (FGM) material plates using deformation theory – Analytical approach	2021-22	View Documents
60.	Performance, combustion and emission characteristics of single cylinder CI engine with WCO biodiesel and nanoparticles	2021-22	View Documents
61.	On Mechanical Response of Aluminum Alloys in Corrosive Environment	2021-22	View Documents
62.	FPGA implementation novel lightweight MBRISI cipher	2021-22	View Documents
63.	On an integral involving I-Function	2021-22	View Documents
64.	A note on generalizations of Bailey's Identity involving products of generalized hypergeometric series	2021-22	View Documents
65.	On A new Class of Finite Integrals Involving Generalized Hypergeometric Function	2021-22	View Documents
66.	Certain Integral Formulae Associated with the Product of Generalized Hypergeometric Series and Several Elementary Functions Derived from Formulas for the Beta Function	2021-22	View Documents
67.	Offline signature confirmation based on cluster representation of geometrical and statistical features	2021-22	View Documents
68.	Technology assisted social reforms and online hate content	2021-22	View Documents
69.	Air quality predictive analysis using machine learning	2021-22	View Documents
70.	Thick plate bending analysis using a single variable simple plate theory	2021-22	View Documents



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)

71.	Smart Power Consumption Analyzer and Controller - A Survey	2021-22	View Documents
72.	Crown services connecting neighbourhood services	2021-22	View Documents
73.	Carbon Emission and Battery Monitoring System	2021-22	View Documents
74.	A Survey on Detection and Diagnose of Malnutrition	2021-22	View Documents
75.	Literature Survey Paper on Password Manager	2021-22	View Documents
76.	Peer to Peer Online Rental Platform	2021-22	View Documents
77.	Vagabond- The Travel App Using Android Studio	2021-22	View Documents
78.	Survey on Skin Disease Detection	2021-22	View Documents
79.	Canteen Food Ordering and Managing System	2021-22	View Documents
80.	Brief Study on Hindi Text Summarization using Natural Language Processing	2021-22	View Documents
81.	Leaf Disease Detection Using Image Processing	2021-22	View Documents
82.	Investigation Of Security Breaches Due to Resource Sharing In Virtual Machine Migration Using Hybrid Ant Colony Optimization With ANN	2021-22	View Documents
83.	Cervical Cancer Prediction System Using Convolutional Neural Network	2021-22	View Documents
84.	Defluoridation of Water using Corn Cobs Powder: An Effective Risk Reducing Agent	2021-22	View Documents
85.	Flood mitigation by using Hydraulic and Hydrologic Modelling	2021-22	View Documents
86.	Numerical Investigation on the Effect of Leading-Edge Tubercles on the Laminar Separation Bubble	2021-22	View Documents



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)

87.	An Experimental Study on Utilization of Pulverized Plastic in Concrete as Fine Aggregates	2021-22	View Documents
88.	Effect of Mg on Structural, morphological and optical properties of Mg-doped V2O5 nanostructures	2020-21	View Documents
89.	Capability of Rans Simulation to Predict Laminar Separation Bubble on the E216 Airfoil	2020-21	View Documents
90.	Analytical investigation on energy separation in Ranque–Hilsch vortex tube	2020-21	View Documents
91.	Comparative study on the aerodynamic performance of airfoil with boundary layer trip of various geometrical shapes	2020-21	View Documents
92.	Estimation of fracture toughness (KIC) using Charpy impact test for Al6061T6 and Al7075T6 alloys subjected to corrosion	2020-21	View Documents
93.	Role of Composition, Growth Technique, Temperature, Substrate Effects on the efficiency of an IGZO Thin Film Transistor	2020-21	View Documents
94.	Design and Implementation of Novel BRISI Lightweight cipher for Resource Constrained Devices	2020-21	View Documents
95.	Efficient Implementation of Cryptographic Arithmetic Primitives Using Reversible Logic and Vedic Mathematics	2020-21	View Documents
96.	Role of TiO2/ ZnO Nanofillers in Modifying the properties PMMA Nanocomposites for Optical Device Applications	2020-21	View Documents
97.	An Exploratory Study on Face Recognition Based Attendance Monitoring System	2020-21	View Documents
98.	A simple shape descriptor merging arithmetical wrap around technique with absolute localized pixel differences	2020-21	View Documents
99.	WBAN implementation in a parallel processing environment for e-healthcare applications	2020-21	View Documents



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)

100.	Simply Supported Polygon Plate Frequencies using Classical and Shear Deformation Theories	2020-21	View Documents
101.	A Survey on Development of Android App for College Library	2020-21	View Documents
102.	Survey Paper on Broad Leaf Weed Detection in Ragi Crops using Supervised Learning	2020-21	View Documents
103.	Use of Waste Plastic and Used Rubber in Bituminous Pavements	2020-21	View Documents
104.	An experimental investigation on suitability of ground water for construction practice	2020-21	View Documents
105.	On two identities for I-function	2020-21	View Documents
106.	An Image Processing Based Model for Calculating Score in Electronic Target System Using Watershed Algorithm	2020-21	View Documents
107.	Mechanical Response of EN24T and EN36 Steels Subjected to Corrosion	2020-21	View Documents
108.	The growth of semiconductor thin layer on Silicon substrate using Sol-Gel Method	2020-21	View Documents
109.	FPGA Implementation of Simple Encryption Scheme for Resource-Constrained Devices	2020-21	View Documents
110.	Approximation to the k means clustering algorithm using PCA	2020-21	View Documents
111.	Review of bio signal processing software packages	2020-21	View Documents
112.	Taxonomy of DDOS attacks and performance of DDOS attack detection approaches	2020-21	View Documents
113.	Real time vehicle and environment monitoring in smart cities	2020-21	View Documents
114.	Morphometry of acromion process	2019- 20	View Documents



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)

115.	Experimental and numerical study of laminar separation bubble formation on low Reynolds number airfoil with leading-edge tubercles	2019- 20	View Documents
116.	A Novel Key Scheduling Algorithm for Lightweight Cryptographic Applications	2019- 20	View Documents
117.	Design and Implementation of Efficient Cryptographic Arithmetic based on Reversible logic and Vedic Mathematics	2019- 20	View Documents
118.	Implementation of Efficient Cryptographic Arithmetic Units	2019- 20	View Documents
119.	Thin Film Transistors For Display Applications- A review	2019- 20	View Documents
120.	FPGA implementation of a lightweight simple encryption scheme to secure IoT using novel key Scheduling Technique	2019- 20	View Documents
121.	Experimental study of high performance computing in Three Tier Architecture for E-Health Care Application	2019- 20	View Documents
122.	Novel approach to optimize the performance of Hadoop frameworks for sentiment analysis	2019- 20	View Documents
123.	Genetic algorithm based Gabor CNN for palm print recognition	2019- 20	View Documents
124.	Segmentation and recognition of characters on Tulu palm leaf manuscripts	2019- 20	View Documents
125.	Experimental Investigation on Fibre Reinforced Concrete Using Waste Plastics and Different Mineral Admixtures	2019- 20	View Documents
126.	Performance Analysis of Bit loading Algorithms for fault tolerant Submarine Communication	2019- 20	View Documents
127.	Performance Analysis of Fault Tolerant Heuristic Algorithms for Determining Optimal	2019- 20	View Documents
128.	Promising PVA/ TiO ₂ CuO filled nanocomposites for electrical and third order non-linear optical applications	2019- 20	View Documents



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)

129.	Design and implementation of window comparator or circuit using operational amplifier	2019- 20	View Documents
130.	Model for the flow of CCTV footage Supervised Machine Learning rundown Streaming and Storage with the use of third-party auditing in the cloud	2019-20	View Documents
131.	Planning and Seismic Design of Hostel Building with Soft Storey and Floating Column	2019-20	View Documents
132.	Synthesis, Characterization And Biological Screening Of Schiff Base Metal Complexes Derived From Isoniazid	2019-20	View Documents