COTERIE

THE NEWSLETTER

September 2022 to January 2023

Department of Electronics & Communication Engineering







Dr. SMD Rasool
Associate Professor &
HoD, Editor

Dr. Altaf C
Associate Professor
Co-Editor-2

Ms. Shaik Muskaan ECE 4th Year, Student Coordinator

Mr. Yakub Pasha ECE 3rd Year, Student Coordinator Ms Sanjana Thakur ECE 2nd Year, Student Coordinator



LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC Autonomous Institution)

Approved by AICTE/Affiliated to OU

Accredited 'A' grade by NAAC & NBA









COLLEGE VISION

Lords Institute of Engineering and Technology strives continuously for excellence in

professional education through quality, innovation and teamwork and to emerge as a premier

institute in the state and across the nation.

COLLEGE MISSION

To impart quality professional education that meets the needs of present and emerging

technological world.

• To strive for student achievement and success, preparing them for life, career and

leadership.

To provide a scholarly and vibrant learning environment that enables faculty, staff and

students to achieve personal and professional growth.

• To contribute to advancement of knowledge, in both fundamental and applied areas of

engineering and technology.

To forge mutually beneficial relationships with government organizations, industries,

society, and alumni.

DEPARTMENT VISION

To provide State of Art facilities to impart Technical Education and Research in order

to guide and motivate young Engineers in Electronics and Communication Engineering

DEPARTMENT MISSION

• **DM1:** To make engineering education an enjoyable learning experience through

challenging tutorials, mini-projects, assignments, and laboratory experiences.

• **DM2:** To impart training to students for good designing skills and exposure to Research

& Development and innovations by using modern tools in frontier areas of Engineering

and Project Management.

DM3: To promote the overall development of graduates by developing their

competencies in order to prepare them to be successful engineers/entrepreneurs making

them useful to society and also improve their ethical values.

Note: DM: Department Mission

Program Educational Objectives (PEOs):

- **PEO1:** Graduates shall apply fundamental and advanced knowledge and skills in Engineering Sciences and Electronics & Communication Engineering while practicing ethical responsibilities in their career.
- **PEO2:** Shall provide solutions to complex Electronics and Communication Engineering problems with effective communication skills and managing the projects in all the aspects.
- **PEO3:** Graduates will recognize and incorporate the societal needs in their professional endeavors through Research & Development.
- **PEO4:** Graduates will be able to engage in lifelong learning to improve professionally.

Program Specific Outcomes (PSOs):

- PSO1: Professional Skills: An ability to understand the basic concepts in Electronics & Communication Engineering and to apply them to various areas, like Electronics, Communications, Signal processing, VLSI, Embedded systems etc., in the design and implementation of complex systems.
- **PSO2: Problem-Solving Skills**: An ability to solve complex Electronics and Communication Engineering problems, using the latest hardware and software tools, along with analytical skills to arrive cost-effective and appropriate solutions.

Program Outcomes (POs):

Engineering Graduates will be able to:

- **PO1: Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2: Problem Analysis: Identify, formulate, review research literature, and analyze
 complex engineering problems reaching substantiated conclusions using first principles
 of mathematics, natural sciences, and engineering sciences.
- PO3: Design/Development of Solutions: Design solutions for complex engineering
 problems and design system components or processes that meet the specified needs
 with appropriate consideration for the public health and safety, and the cultural,
 societal, and environmental considerations.

- PO4: Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5: Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6:** The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7: Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9: Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11: Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12: Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

THE FOUNDER AND CHAIRMAN'S MESSAGE:

Lords is leveraging its expertise and capability to nurture the Institute as one of the best in the region. The whole idea is to facilitate learning through initiating, exploring and experimenting in a conducive environment. Lords was founded with a mission to promote excellence in the field of technical education and to provide quality training. Our campus is a rare blend of serene environment, well equipped infrastructure and a faculty enriched with technical knowledge. We strive to give professional education a new perspective and achieve perfection in all spheres. This gratifying ambience will nurture our students to be passionate about learning and to explore new realms of wisdom.



Mr. BASHA MOHIUDDINFounder and Chairman

My solemn hope and earnest wish is that our diligent students bring honor and glory to our Institution and be worthy citizens of our country. Let your days at LORDS be highly rewarding!

SECRETARY'S MESSAGE:

We, at Lords, focus on providing great academic ambience and learning environment for its students and faculty. Lords believes in creating and disseminating knowledge & skill in core areas through innovative Educational programs and developing a new cadre of Global professionals. Various programs such as Orientation day, Parents Meeting, Cultural Activities, Sports Activities, Technical Events, Faculty Development Programs, Inter college competitions, Guest lectures, Model Exhibitions etc. are conducted round the year to groom our students.

I invite you to be a part of this roller coaster ride and see yourself transformed personally and professionally at the end of your course.

Mrs. RIZWANA BEGUM
Secretary

VICE CHAIRMAN'S MESSAGE:

We are strongly committed to propel every student of our Institution to solve real world challenges. We aim to groom professionals to effectively manage unanticipated challenges and motivate them to excel. The Institute facilitates students with not only good campus and state of the art infrastructure facilities but also aims to groom their competencies that will make them leaders and trendsetters in their respective fields. We believe in exposing our students to all possible avenues of honing their skill sets be it Entrepreneurship, Research, Academics, Placements, Social and Professional Clubs, Higher Studies etc.



Mr. SYED TOUSEEF AHMED Vice Chairman

I invite you to experience our unparalleled offering to create the leaders and innovators of tomorrow.

PRINCIPAL'S MESSAGE:

Our College has grown abundantly in the recent past. It continues to sustain its growth. People reading this newsletter will realize the tremendous changes that are happening on campus. The newsletter is presenting a glimpse of the growth of the institution on many fronts. The highly qualified and dedicated members of the staff have always stood shoulder to shoulder with the management and have carried out their duties with a high level of commitment.



Dr. C VENKATA NARASIMHULU
Principal

This newsletter has recorded achievements such as conferences attended by staff members and students, competitions won by the hugely talented students, innovative projects carried out by students with the guidance of faculties, among others. Let's give our best and make this institution a modern sanctuary of learning through our diligence, devotion and dedication. I congratulate all the contributors and the editorial board for bringing out such a beautiful newsletter

HOD'S MESSAGE:

It gives me immense joy to learn that our College has its deep roots in the field of education in the city of Hyderabad. I feel proud and privileged to be the part of this Magnificent Institution. At this juncture, I gratefully acknowledge the yeomen service rendered by the Visionary Predecessors, dedicated teachers and ever supporting parents who have worked selflessly and tirelessly to bring this newsletter of Electronics and Communication Engineering department.



Dr. SHAIK MOHAMMAD RASOOL HOD, ECE

I am pleased to acknowledge that our college lays its stress not just on academic excellence but also on "character formation with academic excellence".

Courses Offered:

S.NO.	NAME OF THE COURSE	INTAKE
1	B.E. Electronics and Communication Engineering	120

DEPARTMENT ACHIEVEMENTS

- Accredited by NBA in 2011, 2017, 2020.
- 3 Text Books authored by Faculty Members, in the current semester, are
 used by students all across the World
- 2 National Patents published by faculty members in the current semester.
- ECE department of LIET has organized ATAL AICTE sponsored two week
 Faculty Development Program on "Recent Trends in signal and Image
 Processing with hands on training using MATLAB" under the dynamic
 leadership of Dr. C.V. Narasimhulu, Professor in ECE & Principal of LIET.
- Dr. C.V. Narasimhulu, Professor in ECE & Principal of LIET, has graced as distinguished Guest of National summit 2022 on "Education 5.0 for Augmentation for HEIs".
- Dr. Shaik Mahammed Rasool, HoD of ECE, has received a patent on "Automatic Computer vision and Al based smart robot system for surveillance".
- Mr. Narsaiah D, Assistant Professor of ECE has received a patent on "Implementing Data mining for Human Resource Management-based Economic Analysis".
- Dr. Shaik Mahammed Rasool, HoD of ECE, authored a book titled "Wireless Body Area Network: An Optimal Medium Access Control Based on Energy and QoS Compromise".
- Dr. K.Shashidhar, Professor of ECE, authored a book chapter titled "IOT based smart Traffic Control" of book "Cognitive Computing models in Communication systems".
- Dr. Altaf C, Associate Professor of ECE, authored a book titled "Design and development of Efficient Routing protocol for Mobile Ad-Hoc Networks".
- Dr. Shaik Mohammad Rasool, HoD of ECE, & Dr. Altaf.C, Associate professor of ECE Department, have graced as a Session Chair and

- Publishing Committee Members in 3rd INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE, ENGINEERING AND MANAGEMENT (ICASEM-2022)
- Many of the ECE faculties have presented and published their research papers in Conference ICASEM-2K23.
- Dr. Altaf C, Associate professor & Mr. Mirza Nemath Ali Baig, Assistant
 Professor of ECE, have gave a guest lecture on "Embedded C" and "VLSI
 Design" respectively at "Nawab Shah Alam Khan College of Engineering
 and Technology, Hydeabad".
- Md. Owais Quadri, a Student of 4th year of ECE department, bearing roll number 160919735303 has won a 2nd Runner prize in the event "TIME LAPSE" in "Trishna-2K23" organized by DOT Club- The official Techno Managerial Club of IBS, Hyderabad.
- Farhan Ahmed siddique, a Student of 3rd year of ECE bearing roll number 160920735019 won gold medal in Wrestling in Osmania University Inter College Wrestling Tournament Men &Women (Greco Roman& Free style) held on 16th to 17th December 2022 at LIET.
- 7 students got placed in various companies in this semester in various on campus placement drives.

EVENTS ORGANIZED BY THE DEPARTMENT

Faculty Development Programme

ECE department of Lords Institute of Engineering and Technology, Hyderabad has organized ATAL AICTE sponsored a two week Faculty Development Program on "Recent Trends in signal and Image Processing with hands on training using MATLAB" from 19 September 2022 to 30 September 2022 under the dynamic leadership of Dr. C.V. Narasimhulu, Professor in ECE & Principal of LIET. The programme has graced with chief guest Sri B.Gopala Krishna, Prof & Satish Dawan Scientist, NRSC, Hyderabad. Great researchers and prominent resource persons from prestigious organizations of the country have delivered their expertise to the participants. A total of 50 participants attended and gained insights about the latest developments in Signal and Image processing domain.

Day Wise Resource Persons

Day	Resource person
Day1	B. Gopala Krishna, Satish Dawan Scientist, NRSC, Hyderabad
Day2	Dr. B. Krishna Mohan, Professor , IIT Bombay
Day3	Dr. C.R. Rao, Professor, UoH, Hyderabad
Day4	Dr. P.K. Thiru Vikram, BITS, Hyderabad
Day5	Dr. Anil Kumar V, Associate Professor, IIIT Hyderabad
Day6	Dr. S. VenkatRaman, Group Director, ADRIN, Hyderabad
Day7	Dr. C.V. Narasimhulu, Prof of ECE & Principal of LIET and
	Prof S. Bhujanga Rao, Former AGM, ECIL, Hyderabad
Day8	Dr. L. Koteswara Rao, Professor of ECE &Principal of KLU,
	Hyderabad and
	Dr. J.V.R. Ravindra, Principal of VCE, Hyderbad
Day9	Dr. S.P.V. Subba Rao,HoD-ECE,SNIST, Hyderabad and
	Dr. Prabhakar Rao, Professor, BITS, Hyderbad
Day10	Hands on Session:
	Dr. Srinivasa Reddy, Associate Professor of ECE, LIET
	Mr. Mohammed Imaduddin, Associate Professor of ECE, LIET.
	Mr. Touseef Sumer, Assistant Professor of ECE, LIET
Day11	Hands on Session:
	Dr. J.Ravi Kumar, Associate Professor of ECE, NITW
	Dr. Srinivasa Reddy, Associate Professor of ECE, LIET

Mr. Touseef Sumer, Assistant Professor of ECE, LIET





















SEMINAR

A seminar on "Shaping Careers of the Future" by proud alumni of LIET, Ms. **Aparna Kona**, Team lead at DELOITTE, Hyderabad, on 12th November 2022, is organized by the Department of ECE in collaboration with Lords Alumni Association, to guide the students in molding their careers, in their own interested field, being from student phase to successful career achiever.











WORKSHOP

Department of ECE of Lords Institute of Engineering and Technology has organized a National level 3 days workshop on "PCB Design and Simulation" under IETE student chapter in Collaboration with H Labs, Hyderabad, from 01st December 2022 to 03rd December 2022. The workshop inauguration graced with Dr.C.V.Narasimhulu, Profesoor of ECE, Principal of LIET and the Resource person Mr. Shahid Hussain, H Labs, Hyderabad. Mr.Shahid has amazingly demonstrated to the participants the various stages of development of Printed Circuit Board for a specific electronic circuit design. The design can be easily modified and the changes can be easily analyzed using simulation tools. A total of 93 participants attended the workshop. Participants actively participated the workshop. The Workshop concluded with distribution of participation certificates to participants by Mrs. Rizana Begum, Secretary of LIET, and Dr. C.V. Narasimhulu, Principal of LIET.





















PARENT TEACHER MEET

The Department of Electronics and Communication Engineering has organized Parent Teacher Meeting on 17th December, 2022 (Saturday) for ECE-III semester, ECE-V semester and ECE-VII semester students.

The Objective of the meeting was to build a healthy relationship with the students and parents through interaction and to discuss following points –

- 1. No. of classes attended and consolidated attendance of the students.
- 2. CIE-1 marks and scope of academic improvement of the student.
- 3. Motivation of students to improve overall performance.
- 4. Suggestions and feedback from Parents for any help or improvement required from Department.

Following points were the feedback given by Parents:

- (i) Parent appreciated mentoring followed by department.
- (ii) Parents discussed the overall performance of their wards with respect to CIE-1 marks and consolidated attendance.
- (iii) Parents and students were counseled by HOD regarding poor attendance and poor performance in CIE-1 for some candidates.
- (iv) Parents requested for the intimation of Semester End Examination Result from department.









Industrial Visit to "L&T Metro Rail Ltd"

The Department of Electronics and Communication Engineering, Lords Institute of Engineering & Technology, has organized a one-day Industrial visit to "L&T Metro Rail Ltd.", Uppal Metro Depot, Hyderabad, Telangana-500039 on 31st December 2022 for B.E second year students of Electronics and Communication Engineering Department. Students have gained good insights about the signaling methods and communication protocols for efficient Metro Rail operations. This real time exposure will be helpful in developing solutions to the real world problems through design of efficient protocols.













Guest Lecture on Mathematical tools on CT and DT

On December 22, 2022, the Lords Institute of Engineering and Technology hosted a guest lecture on "Mathematical Tools in Continuous-Time (CT) and Discrete-Time (DT)" for second-year students in the Electronics and Communication Engineering (ECE) seminar hall. The lecture aimed to equip students with foundational knowledge and mathematical tools essential for

their understanding of signal processing. Dr. Ayesha Naaz, an Associate Professor at MJCET (Muffakham Jah College of Engineering and Technology) in Hyderabad, served as the distinguished resource person. The event, coordinated by Dr. Altaf.C, attracted a turnout of 35 eager students. Dr. Ayesha Naaz brought a wealth of experience and expertise to the lecture, having a strong background in mathematics and its applications in engineering. As an Associate Professor at MJCET, she has made significant contributions to the field, making her an ideal resource person for this lecture. Her engaging teaching style and ability to simplify complex mathematical concepts added tremendous value to the guest lecture.





A Seminar on Signal Processing For 5G Networks.

A Seminar Report on Signal Processing for 5G Networks On January 31, 2023, the Lords Institute of Engineering and Technology hosted a seminar on "Signal Processing for 5G Networks" at the Electronics and Communication Engineering (ECE) seminar hall. The seminar aimed to provide final year students with insights into the advancements and challenges in signal processing technologies crucial for the implementation of 5G networks. The event, coordinated by Mr. Narsaiah Domala, witnessed an impressive turnout of 54 enthusiastic students. The seminar featured Dr. S.P.V. Subbarao, the Head of the Department (HOD) at the SNIET (Srinivasan Institute of Engineering and Technology), Hyderabad, as the distinguished resource person. Dr. Subbarao's extensive expertise in signal processing and his contributions to the field made him an ideal speaker for the topic at hand. His wealth of knowledge added significant value to the seminar, enriching the learning experience for the attending students.





FACULTY ACHIEVEMENTS

Dr. C.V. Narasimhulu, Professor in ECE & Principal of LIET, has graced as distinguished Guest of National summit 2022 on "Education 5.0 for Augmentation for HEIs" which held on 17th December 2022 and organized by Osmania Technology Business Incubator (OTBI) in association with uLektz learning solutions Pvt. Ltd.



Patent Publications

S.N o	Names of the Inventors	Title of Invention	Appli catio n No.	Month & Year of Publication	National/ Internation al
		Implementing Data mining for			
1	Mr. Narsaiah	Human Resource	20224		
	Domala	Management-based	10663		
		Economic Analysis	25	07/02/2022	National
	Dr. Shaik	Automatic Computer vision	20224		
2	Mahammad	and AI based smart robot	10498	16/09/2022	National
	Rasool	system for surveillance	64		

Conferences

S.No:	Name of	Title	Name of	Conference	National/
	the		Conference	Dates	International
	Author(s)				
	Narsaiah	Method for	3 rd International		
	Domala,	Reducing	Conference on "		
	Geethanjali	leakage power in	Advances in		
	Manga and	CMOS Very	Science,	18 th to 19 th	
	Sapna	Large-Scale	Engineering and	November	
1	Gangrade	Integrated Circuits	Management"	2022	International
		Optimization,		18 th to 19 th	
		clustering and	3 rd International	November	
		SVM analysis on	Conference on "	2022	
		Blood cancer	Advances in		
	Dr Kamel	cells-A Machine	Science,		
	Alikhan	learning model of	Engineering and		
2	Siddiqui	Neural Networks	Management"		International
		Novel Technique		18 th to 19 th	
		to Design and	3 rd International	November	
		perform transient	Conference on "	2022	
		analysis on	Advances in		
	Dr Kamel	fractional delay	Science,		
	Alikhan	filters using	Engineering and		
3	Siddiqui	MATLAB	Management"		International
	Md				
	Imaduddin,	Home	3 rd International	18 th to 19 th	
	Touseef	Automation Using	Conference	November	
4	Sumeer	HC-05 Module	ICASEM -2022	2022	International

Book /Book chapter Publication

S.No.	Name of the	Title of the Book	Publisher	ISBN	National	URL
	Author			number	/Internat	
					-ional	
1	Dr. Shaik Mahammed Rasool	Wireless Body Area Network: An Optimal Medium Access Control Based on Energy and QoS Compromise Technique	Nisaab publishers (International Academic Publishers)	9879382 350392	International	View
2	Dr. K. Shashidhar	Chapter 5 of book titled "Cognitive Computing models in Communication systems"	Scrivener publishing LLC (Wiley Publication)	978111 9865605	International	View
3	Dr. Altaf C	Design and development of Efficient Routing protocol for Mobile AdHoc Networks	Nisaab publishers (International Academic Publishers)	97893 82350 408	International	

Paper publication in Journals

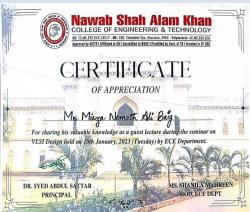
S.No.	Name of the	Title	Journal	Month &	Indexing
	Author			Year of	
				Publication	
1	Narsaiah Domala	Predictions Using	Journal of Advancement in Communication	December	1100
		Ensemble Learning	System	2022	UGC

- Dr. K. Shashidhar, Professor of ECE, has submitted one project to MSME and his 4 innovations have been nominated in National Innovation Challenge-2K23.
- Dr. Shaik Mohammad Rasool & Dr. Altaf.C, Associate professors of ECE Department have graced as a Session Chairs and Publication Committee Members in 3rd INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE, ENGINEERING AND MANAGEMENT (ICASEM-2022) which was held on 18th to 19th November 2022 at Lords Institute of Engineering and Technology, Hyderabad, India.



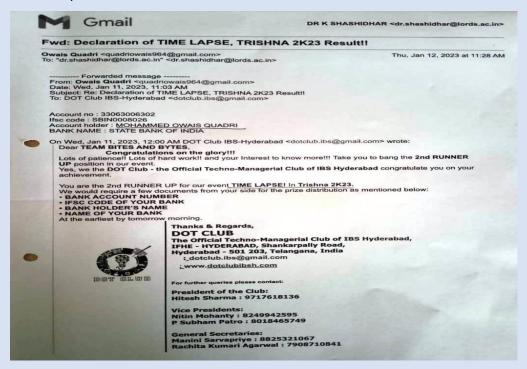
- Dr. Altaf C, Associate Professor of ECE, has gave a guest lecture on "Embedded C" at "Nawab Shah Alam Khan College of Engineering and Technology, Hyderabad" on 10th Jan, 2023.
- Mr. Mirza Nemath Ali Baig, Assistant Professor of ECE, has gave a guest lecture on "VLSI Design" at "Nawab Shah Alam Khan College of Engineering and Technology, Hyderabad" on 10th Jan, 2023.





Student Achievements

 Md. Owais Quadri, 4th year student of ECE department, bearing roll number 160919735303 has won a 2nd Runner prize in the event "TIME LAPSE" in "Trishna-2K23" organized by DOT Club- The official Techno Managerial Club of IBS, Hyderabad.



 Farhan Ahmed siddique, a Student of 3rd year of ECE bearing roll number 160920735019 won gold medal in Wrestling in Osmania University Inter College Wrestling Tournament Men &Women (Greco Roman& Free style) held on 16th to 17th December 2022 at LIET.



Student Placements

S.No	Name of the Student	(Roll No)	Company (Package)
1	Syed Ahmed Aiyaz Uddin	160919735311	MosChip Package: 3.5 LPA
2	Syed Faiz Uddin	160919735051	Planet Spark
3	Md. Omer Farooq	160919735301	Planet Spark
4	Mohd Abdul Raheem	160919735029	Planet Spark
5	Muppirala Shashank Dheeraj Kartikeyan	160919735032	Planet Spark
6	Azmath Khan	160919735005	QSpider (3.5LPA)
7	Saglain	160919735025	QSpider (3.5LPA)