COTERIE

Semester Newsletter Of Electronics & Communication Engineering, LIET

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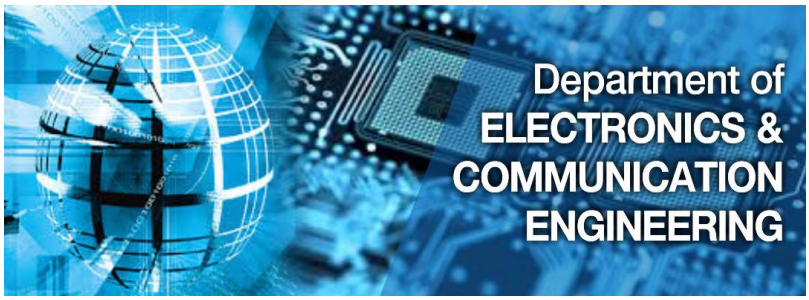

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COTERIE

Department Semester Newsletter

September- 2020 to March-2021

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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 the 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 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 endeavours 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 latest hardware and software tools, along with analytical skills to arrive cost effective and appropriate solutions.

Program Outcomes (POs):

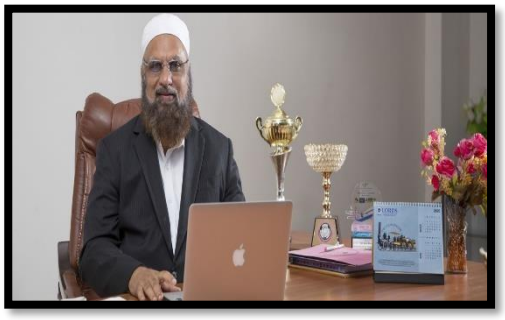
Engineering Graduates will be able to:

- **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.

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.



My solemn hope and earnest wish is that our diligent students bring honour 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.

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.

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 in the 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 high level of commitment. 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 Science and Humanities department. I am pleased to acknowledge that our college lays its stress not just on academic excellence but also on "character formation with academic excellence".

A seminar on the advancements in Multiple Input Multiple Output (MIMO) technology in wireless communication

On 29th March 2021, a seminar on the advancements in Multiple Input Multiple Output (MIMO) technology in wireless communication was conducted at the ECE Seminar Hall of Lords Institute of Engineering and Technology. The seminar aimed to provide final year students of the Electronics and Communication Engineering (ECE) department with insights into the latest developments in MIMO technology and its applications in wireless communication. The seminar commenced with an introduction by the organizing committee, highlighting the importance of MIMO technology in enhancing wireless communication systems. Mr. Mohammed Abdul Razzak, the Chief Technology Officer (CTO) of Innovative Technologies, Hyderabad, served as the resource person for the seminar.

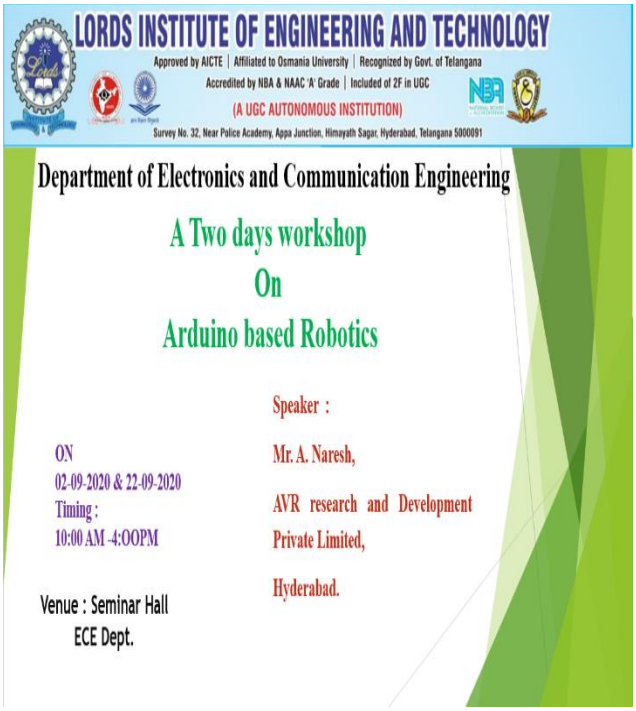
Inauguration of Orator's Club-1 and Orator's Club-2

Inauguration of Orator's Club-1 and Orator's Club-2 took place in LIET on 19th January 2021. These clubs aims to improve the communication skills of the participants through interacting with the club and also to overcome their stage fear. It also organizes various open-to-all competitions for the students of all disciplines.

Two days workshop on Arduino based Robotics

A Workshop on "Two days workshop on Arduino based Robotics" was conducted for B. Tech III-II Semester Electronics and communication Engineering students on 21-09-2020 and 22-09-2020 from 10:00 a.m. to 4:00 p.m., to enhance the technical skills of students. This Workshop was organized by Electronics and communication engineering department. Dr. Abdul Wasey, Head of the Department, ECE welcomes the participants and introduced the program to all. The Workshop was chaired by Mr.A.Naresh (senior member),AVR research and Development Private Limited, Hyderabad. The Speaker started by giving introduction on Technology for all and also explained about always believes in sharing knowledge at an affordable price where everyone should get access to learning cutting-edge technologies, we just don't teach, we make you involved in each and every aspect you are being taught, help you be innovative in creating projects and case studies, that give you industrial knowledge and professional perspective on analyzing business models.The purpose of the Workshop was to make our students aware of the current industry trend and Innovations. Students were given an orientation of various technologies related to Arduino and Robotics and it was followed by a question answer session.

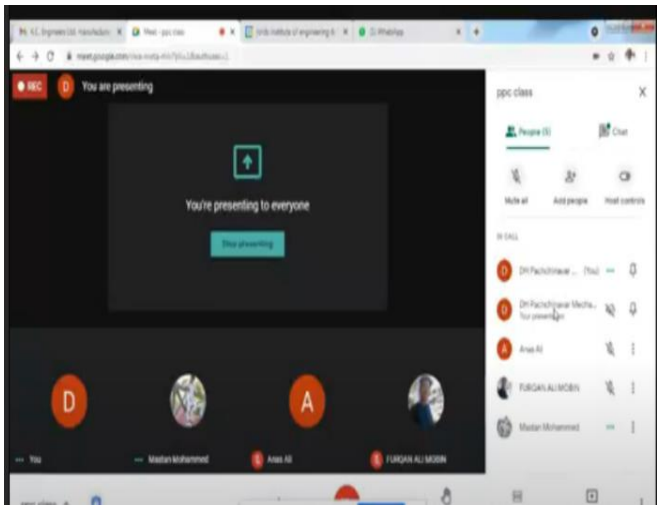
There was a question asked by the participants to clarify their doubts which are explained by resource person. This Workshop was very much beneficial to the students in their academic and for building up their career.



The New World IOT

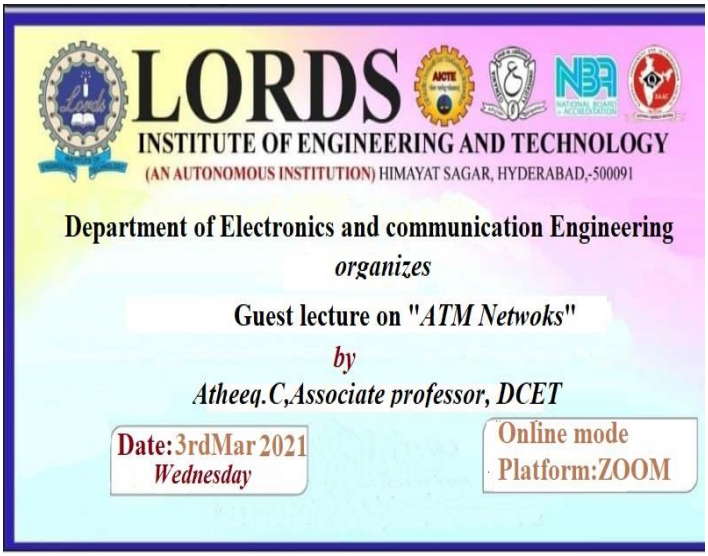
A webinar on "**The New World IOT**" was conducted for B. Tech IV-I Semester Electronics and Communication Engineering students on 12-09-2020 from 04:00 p.m. to 05:00 p.m., through the Online mode to enhance the technical skills of students. This webinar was organized by Electronics and Communication Engineering department. Dr.Abdul Wasey, Head of the Department, ECE welcomes the participants and introduced the program to all. The Webinar was chaired by Mr. Mirza Taha Ali Khan, CEO at Natbots and Manager at Robogyaan, Delhi.

The Speaker started by giving introduction on Technology for all and also explained about always believes in sharing knowledge at an affordable price where everyone should get access to learning cutting-edge technologies, we just don't teach, we make you involved in each and every aspect you are being taught, help you be innovative in creating projects and case studies, that give you industrial knowledge and professional perspective on analyzing business models.The purpose of the Webinar was to make our students aware of the current industry trend and Innovations. Students were given an orientation of various technologies and it was followed by a question answer session.There was a question asked by the participants to clarify their doubts which are explained by resource person. This Seminar was very much beneficial to the students in their academic and for building up their career.



A Webinar on "ATM Network"

A Webinar on **"ATM Network"** was organized on Wednesday**, 3rd Mar 2021 from 10:30 am to 12:30 pm** in online mode on **ZOOM platform** at Lords Institute of Engineering and Technology. **Dr. Y Rajasree Rao,** Head of ECE department welcomed the participants and Event coordinator, B. Suneela introduced the program and speaker to all. The Speaker **Atheeq. C,** Associate Professor at DCET, Hyderabad. He has done his PhD in computer science. A total of **54** students of third year has attended the lecture. The purpose of the seminar was to make students of third year to understand computer networks and also ATM networks. Students were given an orientation of various transfer modes. students were able to understand the communication modes and data transfer modes of various networks. Advancements in computer networks were also explained. cloud computing and Wireless networks are the advance topics that increased the zeal of students to work on mini projects



Guest lecture on Introduction to Hardware Description Language (HDL)

On the 30th of September 2020, the ECE Seminar Hall at Lords Institute of Engineering and Technology was abuzz with intellectual fervor as Dr. Saberhussain, an esteemed Associate Professor from Muffakham Jah College of Engineering and Technology (MJCET), graced the institute with an enlightening guest lecture on the topic of Hardware Description Language (HDL). The lecture was primarily aimed at the second-year students of the Electronics and Communication Engineering (ECE) department, offering them a comprehensive introduction to the intricacies of HDL and its significance in contemporary engineering practices. Dr. Saberhussain commenced the session with an insightful overview of HDL, elucidating its pivotal role in the design and simulation of digital circuits and systems. His lecture delved into the fundamental aspects of HDL, emphasizing its utility in the description and analysis of hardware components, particularly in the context of complex digital systems. The lecture provided a comprehensive understanding of how HDL serves as a bridge between the design and implementation phases of electronic circuits, offering students a nuanced perspective on its practical application in the field of electronic engineering.

Republic Day – 2021

Republic day was celebrated on 26th January 2021 followed by prize distribution, in the presence of all department heads and faculties, Chief guests were Chairman Mr C.A. Basha Mohiuddin, Secretary MrsRizwana Begum and VC Mr. Syed Touseef Ahmed presided.

Awareness About NPTEL Courses

Lords Institute of Engineering and Technology has organized a awareness program on NPTEL Courses on 6th Feb 2021. The Speaker, Dr.K.NagaJyothi, Telangana NPTEL Representative, Advisory Member of Ministry of Education 2.0 AICTE Margdarshak has explained the importance of NPTEL courses.

Awareness Program on National Innovation and Startup Policy (NISP)

National Innovation and Startup Policy (NISP) is the initiative of All India Council for Technical Education (AICTE), Ministry of Education, Government of India. As directed by the Institute Innovation Council (IIC) of the Lords Institute of Engineering and Technology, Hyderabad, Entrepreneurship Development Cell (EDC) has conducted an awareness program on 24thFebruary 2021. Mr. Mohammed Abubakr, Founder & CEO, Zibew Software Pte. Ltd., Singapore was invited as resource person.

Unnat Bharat Abhiyan, Ministry of Education, Government of India

Lords Institute of Engineering and Technology (LIET) got selected by Ministry of Education, Government of India under the **Unnat Bharat Abhiyan (UBA)** scheme to adopt five villages namely Qutubuddinguda, Medpalle and Yelkaguda of MoinabadMadal, Sagar and Darga of Rajendra Nagar Mandal, Ranga Reddy District of Telangana State. As per the directions of IIT-Delhi and Ministry of Education, the NSS students of LIET visited Qutubuddinguda on 3rd March 2021 to conduct a survey on locals in consultation with Shri. Anmoy Kumar, IAS District Collector, Mrs. Padmamma, Panchayat Sarpanch, Ms. Sunitha, Panchayat Secretary and all the ward members of the village during their executive council meeting.

International Women's Day Celebrations 2021

Women Entrepreneurship Club of Lords E-Cell celebrated the International Women's Day on 8th March 2021. Ms. Annie Vijaya, Program Head, Telangana State Innovation Cell (TSIC), Government of Telangana graced the occasion as Chief Guest. She spoke on "Women in Entrepreneurship" and motivated the girl students to come up with Startups and utilize the college facilities and government schemes that are kept exclusively for them. She presented Prizes and Certificates to winners of various competitions that were held throughout the day.

UP COMING EVENTS:

- Technical Fest
- Industrial tours for all the Students.
- Faculty Development Program.
- Guest Lectures.
- Cultural Events.
- NSS activities.

TARGETS TO BE ACHIEVED:

- To Achieve Autonomous Accreditation for ECE Department.
- To achieve 100% attendance in the ECE Dept by employing the Mentor- Mentee program.
- To achieve 100% result in the ECE Department.
- Encourage students in research oriented work and to publish paper in International Journals.
- Encourage students in extracurricular activities.