JANSONS INSTITUTE OF TECHNOLOGY

TECHNOVA – 5
July 2020 – Dec 2020

VISION

To produce skilled and competent engineering professional in the field of Electronics and Communication.

MISSION

Equip students with technical skills to meet current demands in the electronics industry Cultivate ethical and moral qualities to address societal needs.

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WORKSHOPS/ CONFERENCES/FDP'S

- Faculty members from the ECE department have actively participated in **webinars, Faculty Development Programs (FDPs), and online quizzes**, enhancing their expertise in **emerging technologies, career development, and academic excellence**.

- ✓ **Ms. M. Surya** attended a **webinar on "IT Network Infrastructure – An Overview"** at **Sri Eshwar College of Engineering** on **August 5, 2020** and also participated in a **quiz on "Digital System Design with ASM Charts"** conducted by **Holy Mary Institute of Technology and Science** on **June 1, 2020**.

- ✓ **Ms. N. Krishnapriya** engaged in multiple technical events, including an **FDP on "Artificial Intelligence"** at **Mohamed Sathak Engineering College** from **June 1-3, 2020**. She also participated in a **webinar on "6th Wave of Innovation Disruption"** at **Sri Eshwar College of Engineering** on **June 1, 2020**, along with quizzes such as **"Tech Quiz"** organized by **Nova Infotech** in **June 2020**, and **"Believe in the Power of Mentoring"** at **P.S.R Engineering College** on **June 5, 2020**.

- ✓ **Mrs. P. Eswari** attended a **webinar on "Career Prospects in Computer Science"** at **Indian Academy Degree College** on **June 6, 2020**, gaining insights into advancements in the IT sector.

- ✓ **Dr. S. Saravanan** completed a **quiz on "NAAC Awareness Program for Faculty"** conducted by **College of Engineering, Osmanabad**, from **June 1-15, 2020**, enhancing knowledge on accreditation processes.

- ✓ **Ms. S. Sandra** participated in a **webinar on "Patent Filing and Prosecution"** at **Kumaraguru College of Technology** on **June 1, 2020**, understanding the importance of intellectual property rights.

- ✓ **Mr. M. Nithyakumar** attended a **webinar on "Data Science and Career Opportunities"** at **Hindu College of Engineering and Technology** on **June 6, 2020**, exploring the impact of data science in modern industries.

- ✓ **Mr. G. Myilsamy** actively engaged in several **career and technology-focused webinars**, including:

- **"Embrace Technology"** at **Prathyusha Engineering College** on **June 1, 2020**.
- **"How to Prepare a Professional Resume"** at **Sri Eshwar College of Engineering** on **June 1, 2020**.
- **"Think Big"** at **Saveetha Engineering College** on **June 1, 2020**.
- **"Software Quality Assurance"** at **Sri Eshwar College of Engineering** on **June 2, 2020**.

- ✓ **Mr. G. Myilsamy** attended a **webinar on "Role of Technology in Customer Experience during COVID-19 Times"** at **Sri Eshwar College of Engineering** on **June 6, 2020**.
- ✓ **Dr. G. Vetrichelvi** participated in multiple technical webinars, including:

  - o **"Robotics Operating Systems"** at **Sri Eshwar College of Engineering** on **July 17, 2020**.
  - o **"Internet of Things using NODEMCU"** at **Pantech Solutions** on **June 23, 2020**.
  - o **"Face Recognition using Deep Learning"** at **Pantech Solutions** on **June 30, 2020**.
  - o **"Applied Artificial Intelligence"** at **PSG Institute of Technology and Applied Research** on **July 8, 2020**.
  - o **"Recent Trends in Sensors and Automation"** at **Sri Ramakrishna Engineering College** from **June 6 to July 4, 2020**.

- ✓ **Ms. M. Surya** participated in:

  - o A **three-day online FDP on "Effective Teaching Pedagogy"** at **Inderprastha Engineering College** from **July 20-22, 2020**.
  - o **Webinar on "HDL Programming – Unlock Your Programming Skills"** at **Builder Engineering College** on **July 20, 2020**.
  - o **National webinar on "Innovative Online Pedagogies – Teaching 2.0"** organized by **ENTERCON** on **July 19, 2020**.
  - o **Webinar on "Basic Principles of Remote Sensing Technology"** at **Sri Eshwar College of Engineering** on **July 1, 2020**.

- ✓ **Dr. P. Gowtham** contributed as a **judge and jury member** for a **virtual paper presentation event, "Perspicacious Prodigy,"** at **Jansons Institute of Technology** on **July 11, 2020**. He also attended a **conference on "Internet of Things in Engineering"** at **Dr. N.G.P Institute of Technology** from **June 29-30, 2020**.
- ✓ **Mrs. P. Sivamani** and **Ms. M. Nithyakumar** participated in a **webinar on "Future of Data Transmission – LiFi"** at **Sri Eshwar College of Engineering** on **July 25, 2020**.
- ✓ **Ms. S. Sandra** engaged in multiple webinars, including:

  - o **"Robotics Operating Systems"** at **Sri Eshwar College of Engineering** on **July 17, 2020**.
  - o **"Internet of Things using NODEMCU"** at **Pantech Solutions** on **June 19, 2020**.

INTERNSHIP

- Students from the ECE department have actively engaged in **internships and social initiatives**, gaining valuable experience in **fundraising, leadership, and educational outreach**.

- ✓ **Nilanjana M (IV ECE-B)** contributed as a **Fundraiser** for **Hamaari Pahchan (NGO)** from **June 5, 2020, to July 4, 2020**. Through this initiative, she worked towards **social causes, awareness campaigns, and fundraising activities** to support underprivileged communities.

- ✓ **Sri Varshini M (IV ECE-B)** served as an **Internshala Student Partner** at **Scholiverse Educare Pvt. Ltd.** from **May 1, 2020, to August 1, 2020**. In this role, she promoted **Internshala's career development programs, internships, and skill-building courses**, enhancing students' **awareness of internship opportunities and employability skills**.

- These experiences have helped students develop **leadership, communication, and organizational**

PAPER /PROJECT PRESENTATIONS

- Students from the **ECE department** have showcased their **academic excellence and analytical skills** by excelling in various **tests and seminars** organized by **Jansons Institute of Technology**.

- ✓ **Ballam Praveen Kumar (B.E/ECE/II)** secured **1st Prize** in the **Career Quotient Test** held from **August 24 to 29, 2020**.

- ✓ **Arathi K Nair (B.E/ECE/II)** achieved **3rd Prize** in the same test, demonstrating strong **career aptitude and problem-solving skills**.

- ✓ **Bala Santhosh B (B.E/ECE/II)** secured **First Place** in a **seminar** conducted from **July 29 to 31, 2020**, reflecting excellence in **presentation, research, and technical knowledge**.

- **Riyaz Ahamed (B.E/ECE/II)** completed a **course on "Cybersecurity and IoT"** through **Coursera** on **October 28, 2020**, gaining insights into **network security, IoT vulnerabilities, and threat prevention**.
- **Shanmathi (B.E/ECE/II)** participated in a **webinar on "Recent Trends in Fiber Optics"** organized by **SRM TRP Engineering College** on **July 3, 2020**, enhancing her understanding of **fiber optic communication and its advancements**.
- She also took part in a **"Quiz on Gandhiji"** conducted by **he5.in** on **October 3, 2020**, reflecting her engagement in **general knowledge and historical awareness**.
- **Jawahar (B.E/ECE/II)** participated in the **Hambee Quiz** conducted by **Jansons Institute of Technology** on **March 23, 2021**.
- **Jenith Ebinesh (B.E/ECE/II)** engaged in multiple events, including:
- **Quiz on "Fundamentals of Analog Electronics"** at **Kakatiya Institute of Technology and Science** on **June 1, 2020**.
- **Webinar on "Role of Mechanical Engineering in Space Technology Development"** at **Dr. Rangarajan Dr. Shakunthala Engineering College** on **June 2, 2020**.
- **Online Slogan Contest on the Quit India Movement** at **Jansons Institute of Technology** on **August 8, 2020**.
- **Workshop on "Learn to Design Your Own Solar Home Systems"** organized by **AICTE and Energy Swaraj Foundation** on **August 12, 2020**.
- **Jothika N (B.E/ECE/II)** excelled in the **Career Quotient Test** conducted by **Jansons Institute of Technology** on **August 24, 2020**, securing **1st and 2nd Prize** in different categories.
- **Dhaya Moorthi (B.E/ECE/II)** participated in the **pledge on "Duties and Responsibilities as Citizens"** organized by **Jansons Institute of Technology** from **August 19-21, 2020**, reinforcing awareness of **civic duties and social responsibility**.
- **Dhilipan (B.E/ECE/II)** took part in a **quiz on "Ethical Hacking"** conducted by **Itronics Solutions** on **February 14, 2021**, enhancing his understanding of **cybersecurity and ethical hacking concepts**.
- **Hamsadurga S (B.E/ECE/II)** attended a **webinar on "Design and Fabrication of Supercapacitor as the Next Generation Energy Storage Device for Electric Vehicles"** at **SRM Institute of Science and Technology** on **June 1, 2020**, gaining insights into **advanced energy storage solutions for electric vehicles**.

- **Brindha Prakhasa Dharsini T (B.E/ECE/II)** participated in **"Dream 2020,"** an event organized by **Jansons Institute of Technology** on **October 12, 2020**.
- This event aimed to **inspire and guide students** toward achieving their academic and career aspirations by providing insights into **innovation, future technologies, and personal development**. Participation in such initiatives helps students **enhance their vision, set goals, and prepare for future challenges** ..

- ✓ **Arathi K Nair (B.E/ECE/II)** demonstrated outstanding academic performance by securing top positions in **career aptitude tests** and actively participating in awareness programs.
- ✓ She secured **1st Prize** and **3rd Prize** in the **Career Quotient Test** conducted by **Jansons Institute of Technology** from **August 24-29, 2020**, showcasing her **strong analytical and problem-solving skills**.

- ✓ She also participated in the **Awareness Quiz on World Hepatitis Day**, organized by **Jansons Institute of Technology** from **July 28-31, 2020**, gaining insights into **health awareness and disease prevention**. **Ballam Praveen Kumar (B.E/ECE/II)** secured **1st Prize** in the **Career Quotient Test** conducted by **Jansons Institute of Technology** from **August 24-29, 2020**.

- ⊹ This achievement highlights his **strong analytical, reasoning, and problem-solving abilities**, reflecting his **academic excellence and career preparedness**. Such assessments help students **enhance their aptitude skills** and prepare for **future career opportunities and competitive exams**.

VALUE ADDED PROGRAMS

- ❖ The **internal training program on "IoT and Machine Learning Techniques"** conducted at **Jansons Institute of Technology** for the **2019-2023, 2018-2022, and 2017-2021** batches falls under **Value Added Programs (VAPs)**.
- ❖ These **Value Added Programs** aim to **enhance students' technical expertise** beyond the regular curriculum by providing hands-on training in **IoT applications, sensor integration, data analytics, and machine learning algorithms**. The program helped students gain **practical exposure** to **real-time data processing, automation, and AI-driven decision-making**, preparing them for **industry-oriented challenges and career opportunities** in **emerging technologies**.

PROGRAM OUTCOMES

- ✓ **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

- ✓ **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.

- ✓ **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.

- ✓ **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.

- ✓ **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.

- ✓ **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.

- ✓ **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.

- ✓ **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

- ✓ **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

- ✓ **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.

- ✓ **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