



JANSONS INSTITUTE OF TECHNOLOGY

Approved by AICTE | Affiliated to Anna University

Accredited by NAAC with Grade "A"

An ISO 9001:2019 Certified Institution



TECHNOVA - 9

Jan 2023 - June 2023

VISION

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



"Challenges are what make life interesting and overcoming them is what makes life meaningful."

— Joshua J. Marine.

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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VALUE ADDED PROGRAM

PAPER PRESENTATION /PROJECT PRESENTATION

Settypalli Gnana Vaarshika are participated in
the program of Photonics on 18.10.2022

**Sri Krishna college of
technology**

OTHER ACHIEVEMENTS OF THE STUDENTS

Neralla Harish, Rayani Balaji and Aakula Manohar
Reddy, third-year BE ECE students are secured
second place at the state-level " i4.0 '22
Hackathon on Preventive Maintenance ", winning
a cash prize of ₹20,000

**PSG TECH,
Coimbatore**

INDUSTRIAL VISTS

50 Students from first year undergone the industrial visit to Mettur Thermal power plant-I (Technical Field visit for Problem Identification) with the faculty Mrs.P.Sivamani, Mrs.N.Krishnapriya & Mr.Alex on 02.02.2022

39 Students from third year undergone the industrial visit to Nea Coffee Works Ltd, Coorg with the faculty Dr. Parameshwaran Mrs.S.Sandra on 16.09.2022 and 17.09.2022

75 Students from second year undergone the industrial visit to Nestsoft Technologies, Cochin with the faculty Mrs.P.Eswari Mrs.M D Priyadharshini, Mr.S.Prakash on 17.09.2022

25 Students from second year undergone the industrial visit to Coimbatore Institute of Technology - IoT Centre of Excellence with the faculty Ms. M.Surya on 06.10.2022

FACULTY PUBLICATIONS

Krishnapriya, N, an Assistant Professor, proposes a *Machine Learning-Based Energy-Efficient High-Performance Routing Protocol* for underwater communication in Adhoc & Sensor Wireless Networks (v54.9589, September 2022). The study addresses energy constraints and reliability issues in underwater sensor networks using machine learning to optimize routing. Indexed in *EBSCO*, it offers valuable insights for researchers in wireless communication.

Dr. G. Vetrichelvi, a Professor, conducted a survey on localization-free routing protocols in underwater wireless sensor networks, published in the International Journal of Research and Analytical Reviews (Vol. 9, Issue 2, June 2022, pp. 104-107). The study explores routing techniques that operate without precise node location information, addressing challenges in underwater communication.

Dr. V. Vidhya Gowri, an Associate Professor, presented *"Streamlining Fuel Dispenser using RFID"* at the International Conference on Science, Technology, Engineering and Mathematics 2.0, organized by Jansons Institute of Technology and IFERP. The study focuses on enhancing fuel dispensing systems by integrating Radio Frequency Identification (RFID) technology to automate fuel dispensing, improve transaction accuracy, and prevent unauthorized fueling.

DETAILS OF FACULTY SPONSORED FOR WORKSHOPS/CONFERENCES

Name of the Faculty	Details of the Programme (Workshop or FDP or Conference etc)	Conducted at	Duration of the Programme (No. of days & dates)
Mrs.S.Sandra	NBA Process -PDP (FDP)	NITTTR, Chennai Virtual	25-07-2022 to 27-07-2022
Mrs.S.Sandra	Engineering Application Using MATLAB Programming -PDP (FDP)	NITTTR, Chennai, Virtual	21-11-2022 to 25-11-2022
Ms.P.Manothini	EDA Tools for Industry 4.0 and its Applications -FDP	Amrita Univesity, Chennai, Virtual	18-07-2022 to 27-07-2022
R.Kowsalya	Recent Trends in Antenna Engineering and its Applications FDP	RIT, Chennai, Virtual	13-02-2023 to 23-02-2023
Mrs.V.Vidhya Gowri	NBA Process -PDP (FDP)	NITTTR, Chennai Virtual	25-07-2022 to 27-07-2022

OTHER ACTIVITIES

Dr. Shanmugam C

And

Mrs. Krishnapriya N

They undertook consultancy work for Wizaard System, Coimbatore, involving the design and implementation of an automatic shuttle-less power loom machine. The project was carried out from August 1, 2022, to October 28, 2022, over a period of three months, with a consultancy fee of Rs. 4,85,000.

Jansons Institute
of Technology

VALUE ADDED PROGRAMMS

Gate to Processors (IRC) course was offered to II (Batch 2021-2025) at Janson Institute of Technology.

Internet of Things Using Node MCU -IVA012 (VAC) course was offered to IV (Batch 2019-2023) at Jansons Institute of Technology.

Modeling and Synthesis with Verilog HDL -IVA095 (VAC) course was offered to III (Batch 2020-2024) at Jansons Institute of Technology.



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 projects and in multidisciplinary environments.

PROGRAM SPECIFIC OUTCOMES

- ✓ Analyse, design, and develop solutions for electronic systems by applying fundamental concepts of electronics and communication engineering.
- ✓ Apply design principles and best practices for developing quality products for scientific and business applications.
- ✓ Adapt emerging electronics and communication technologies and develop innovative solutions for existing and newer problems.